

Desoutter



Industrial Tools

More Than Productivity



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Unless specified all inlet threads are BSP or NPT dependent on market

More Than Productivity

Desoutter is your single source of electric and pneumatic tool solutions, covering a wide range of assembly and manufacturing processes in the motor vehicle, aerospace, general industry and light assembly sectors.

Desoutter has a long history of producing high-quality industrial tools. Today, the scope of the activity combines a global offering with a widespread local presence.

The reason behind this approach is simple: our customers, who include many of the world's largest and most successful manufacturers, want worldwide access to a global portfolio of assembly and manufacturing solutions.

With **Desoutter**, we provide you a world of industrial possibilities.



Focused on your objectives...

Industry hates risk. And so do we.

So we work with you to eliminate cost, quality and performance risks from your production lines.

Optimize your investments

Your production lines are some of your company's most important investments. The quality and performance of **Desoutter** industrial tool solutions enable you to optimize your return on investments by producing more in the same cycle time. Our air-line systems, for instance, keep our pneumatic nutrunners spinning at exactly the right speed and power, saving you precious seconds for each operation.

Increase revenues

Production line efficiency is worthless if the quality of your final goods generates costly recalls and after-sales support. With our industrial tool solutions, you produce consistently at high quality levels. For example, our tightening control units enable you to error-proof complex assembly tasks and provide full traceability on the quality and sequence of operations.



Raise productivity

Good ergonomics makes good economic sense. Not only are **Desoutter** tools designed to reduce operator stress factors, such as vibration and noise, they also take into account the relationship between the operator, the tool and the process. Our experts work with you to obtain long-term gains in productivity and safety, while improving cost, quality and cycle times.



Global solutions you can build on...

We know that finding the best solution is about much more than just picking a new tool.

That is why we start every project by opening our ears, not our catalog.

Process optimization

Producing high-quality products requires high-quality processes. That is why many of the world's major motor vehicle, aerospace and appliance manufacturers rely on **Desoutter**. Each **Desoutter** solution is tailored to your exact needs. Our experts propose solutions that deliver a quantifiable return on investment, whether in terms of productivity improvements, quality gains or safety improvements.

different markets, the replicated processes operate at the same speed and with the same quality as the original, despite sizeable differences in operator expertise.

Worldwide coverage

Desoutter combines global reach with local expertise. To ensure the smooth running of **Desoutter** solutions in your factories, all our local teams are trained to the same high level of expertise and service. Each team is in direct contact with the **Desoutter** area application and customer care center for your region. Together they ensure that solutions are implemented to worldwide standards, but in compliance with local criteria.

Production transplantations

We believe firmly in the adage: "don't reinvent the wheel". Our customer service teams are experts at replicating best processes around the world. When a major European car maker wanted to duplicate a highly efficient wheel assembly solution in two new factories, it entrusted the project to **Desoutter**. Deployed in two factories to two very





Expertise you can grow on...

From vehicles to chemicals, appliances to metal, planes to power, electronics to energy, ships to buildings – there is a Desoutter air powered and electric tool solution for you.

Covering all segments

Motor vehicle industry

Desoutter provides a wide range of tool solutions for vehicle makers, tier one suppliers and linebuilders. Solutions include fixed systems for engine and powertrain assembly, and handheld solutions for final assembly processes.

General industry

Desoutter solutions can be found in industrial fastening, assembly and material removal processes. Solutions include heavy-duty assembly systems, powerful material removal solutions and high torque off-road applications.

Aerospace

Desoutter has a long history of providing tools solutions to aero-space companies. We cover a wide range of their needs, from airframe and engine construction to system and furnishing assembly.

Light assembly

In their quest for ever higher quality levels, many major appliance and electronic manufacturers rely on Desoutter tools for error-proofed fastening and other business critical industrial processes.

Complete systems

Each Desoutter tool is designed as a full system, complete with its own accessories. **Taking a system-based approach has a dramatic effect on the productivity and longevity of your investment.** For example, our airline systems regulate and lubricate the air supply for pneumatic tools. Air quality is important, when you realize that a drop of just 8% in air pressure can slow drilling operations by nearly 40% (2 seconds per operation instead of 3.2 seconds).

Customized solutions

Our Applications Centers are the symbol of our renowned flexibility. As comprehensive as our catalog is, we know that sometimes you need a tailored solution. **Our Application Center engineers adapt existing solutions to your requirements and develop your own solutions.** They are experts at developing Six Sigma tools and error proofing.



Peace of mind you can count on...

Our support services keep your processes operating at maximum levels – and leave you to focus on your core business.

Maintenance contracts

Our maintenance contracts make **unexpected downtime a thing of the past**. They provide budget predictability and fixed price costs. Contracts are tailored to your needs and are available globally, regionally or for individual plants. By performing regular preventive maintenance you will experience less downtime and fewer emergency repairs. Maintenance contracts also lower your administrative and logistics costs.

Proactive logistics

When your operations are global, it is essential that your logistics are too. Our centralized inventory and warehousing system is highly responsive. We proactively manage our production to ensure a reliable supply of the products and parts you need. **The majority of the solutions in our catalog can be shipped to you in three days**, no matter where you are located. Next-day service is available in many markets.

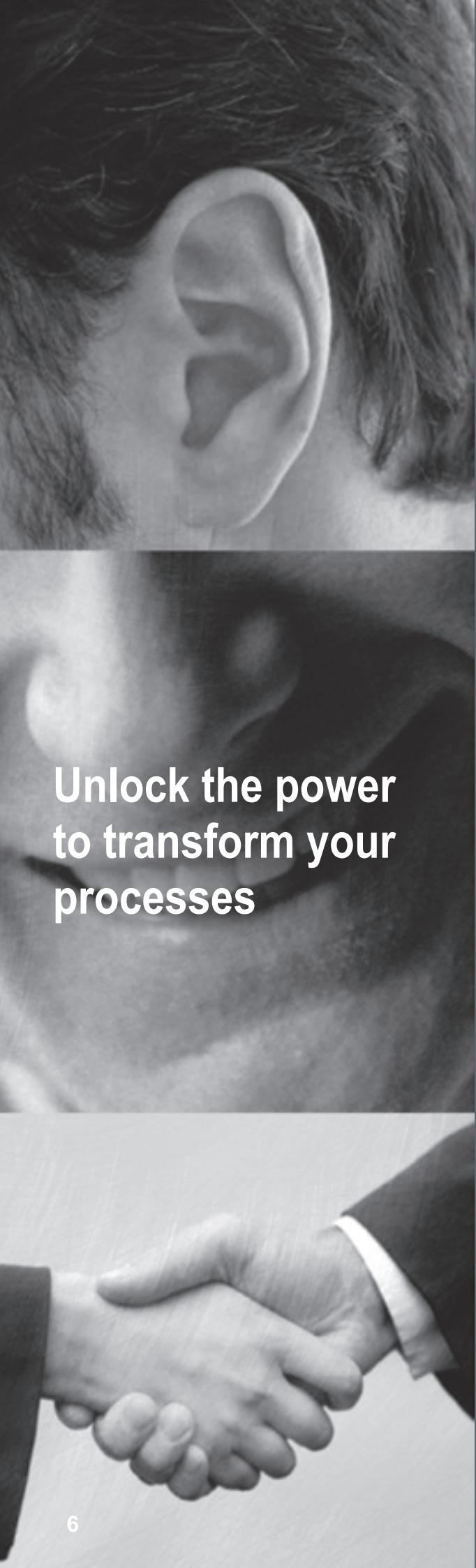
Genuine Desoutter parts

Genuine Desoutter parts are the only parts designed and engineered specifically for Desoutter tools. They ensure that our tools always operate at their best. Moreover, for a lifetime of satisfaction, we always use genuine Desoutter spare parts when performing maintenance and repairs.

Accessories

In addition to providing you with the highest quality tools we also have an excellent range of accessories including balancers, hoses, torque arms and consumables. Like all Desoutter tools these accessories are designed to offer the maximum productivity for all our customer applications.



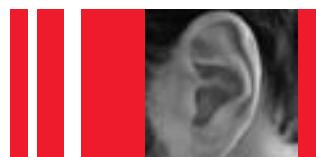


**Unlock the power
to transform your
processes**

Tool systems play a vital role in the performance of your production lines, the quality of your final products, and ultimately customer satisfaction. But managing your current tool systems while making sure they are ready for the future can be a formidable challenge. Now there's Desoutter RightWay, a new way to turn tool systems into a source of competitiveness instead of a source of headaches.



The key to finding a better way



WE BEGIN BY LISTENING

Desoutter RightWay focuses on six key areas that play an important part in the performance of your production lines.

Understanding your needs and your expectations on these points will contribute to significant process improvements.

■ PRODUCTIVITY

Remove bottlenecks to raise workstation productivity and overall line performance.

■ QUALITY

Improve the quality of final goods and reduce quality-related costs by implementing advanced error-proofing solutions that detect and fix defects at the workstation.

■ ERGONOMICS

Reduce work-related musculoskeletal disorders to improve operator morale, cut absenteeism and minimize operator turnover.

■ SAFETY

Fewer on-the-job injuries and the costs associated with lost time and medical costs.

■ ENERGY

Fight rising energy costs by adopting energy-efficient best practices and technologies.

■ PLANNING

Help you accelerate process improvement projects by providing your planning department with valuable resources and expertise.





PUTTING OUR BRAINPOWER TO WORK

Desoutter RightWay uses a unique **4-step methodology** to identify workable improvements to your production line. Our solutions combine real-world insights gathered directly from your production line with our unmatched expertise in tool systems for your industry.

4-STEP METHODOLOGY

Follow-up IMPLEMENTATION AND SUPPORT

Finally, we work with your line engineers to organize the smooth and timely deployment of the new tool system. Over the life of the system, we will continue to monitor performance and use this feedback to make any adjustments that may be required as your line evolves. We also provide all the preventive maintenance and fixed-price servicing called for in the ROI calculations.

Analyse ON THE FACTORY FLOOR

Desoutter RightWay begins with a 6-point on-site audit of your entire line, workstations and operator ergonomics. Our expert visits the line with you gathering information and observations about your requirements in the six key domains: productivity, quality, ergonomics, safety, energy consumption and process planning.

Propose DEMONSTRATING FEASIBILITY

Using the results of our Desoutter RightWay audit, the data you provide and our best practices in similar applications, we design and test a custom solution that is perfectly suited to your requirements. In addition, we demonstrate the solution in real-world conditions to show you first-hand how it resolves your issues and concerns.



Prove PROVE THE PAYBACK

Based on the proposed solution, we calculate the return on investment and the payback in terms of the six domains mentioned earlier. We also propose error-proofing solutions, calculate duty cycles and analyze joint quality for assembly applications.

3



Ensuring a lifetime of optimal tool performance:

Whether you are expanding your capacity or seeking to improve overall efficiency, Desoutter Services is the right place to start. With a global network that covers all the major markets of the world, and with over 100 years of experience, Desoutter Service is able to deliver a lifetime of "Peace of Mind™" and optimal operation.

Reduce downtime

The performance of your production lines depends largely on the uninterrupted operations of your tool systems. Emergency repairs and unplanned maintenance can generate costly downtime as well as lost production, and are more expensive than planned maintenance. By performing preventive maintenance and planning service intervention, we can optimize operational uptime.

Optimize productivity

Our training programs teach your operators how to get the most out of their tools while benefiting from optimal ergonomics. They also enable your line managers and process engineers to optimize applications, by providing reliable metrics.

Ensure quality

Too little maintenance can cause tool systems to under perform, increasing rejects, recalls and warranty claims. By servicing tools to operate at their best we can help you avoid defects caused by malfunctioning equipment. By identifying your precise calibration and maintenance needs, you avoid unnecessary reworking costs, not to mention costly tool repairs.

Control Costs

After performance, quality and productivity, the final hallmark of predictability. All our tool and account services are available with a fixed cost per tool, per system or per period. This gives you full control over your operating budget. In addition, our parts inventory management lowers administrative costs and capital expenditure.



Tool Services

Our experts can keep your tools running at their best, reducing downtime and helping in making costs more predictable. Thanks to our experience in power tools running in demanding applications all over the world, we can optimize the maintenance for each tool based on your application.

Check-up & calibration

To enable you to meet quality system criteria and pass audits, we offer a complete calibration service. With it you get scheduling, full management and traceable documentation. Properly calibrated equipment provides confidence that your products meet their highest performance and specifications.

Installation & set-up

Get new tools up and running faster with our installation and set-up services. A qualified Desoutter service engineer commissions new tools to specification. To save time, tools are optimized through simulation before they are shipped out for installation. They are then tested and their performance verified on-line. Based on application and joint analysis, the engineer tunes each tool for maximum reliability. Depending on the customer's need, our engineers can then provide a follow up of the production during the ramp up and final line speed. This ensures that the highest tightening capability is achieved at mass production levels.

Repairs

We reduce the administrative hassle of managing repairs, thanks to fixed price repair service and rapid tool turnaround. We always take advantage of the repair time to perform a complete overhaul, which helps tools last longer on the production line, ensuring high uptime. For even exchange parts in stock as part of your service contract. We can track the repair history of all tools, and we report of the services provided, throughout the life of the tools.

Preventive maintenance

We customize, through our dedicated software, our preventive maintenance plan to your application requirements, taking into account parameters such as annual cycles, cycle times, torque settings and joint quality. This reduces ownership costs and keeps tools working at their best. Preventive maintenance is available with fixed pricing to help you manage your budget better. In some cases, tools maintained by us are eligible for extended warranties. We offer Extended Warranty Programs that provide a comprehensive service/support program for new tool purchases.

Please consult us on the Tool Care™ and extended warranty program.



Account Services

In addition to optimizing the individual tool performance, we also help you simplify tool management and ownership.

Training

To improve the performance of your operators and the expertise of your line managers, we provide comprehensive training and seminar programs. We offer hands-on training at your plant or at one of our training centres. Training covers tool function and handling and includes torque adjustment, case studies and the basics of threaded fastener assembly. By improving the knowledge and skills of your operators, you will increase operator job satisfaction and productivity.

Full service plans

When managing a wide range of tool systems, it is important to keep costs under control. Our full service plans are tailored to your needs. They reduce spare part inventory, lower administration costs and provide budget predictability. Full service plans are available for single facilities or for multiple plants, whether in a single country, region or around the world. Desoutter will provide you with a full cost analysis and return of investment to ensure that you get the best optimization in caring for your equipment. Take the challenge and let us demonstrate it to you! Check out the new Peace of Mind™ service. With this offer the customer pays a fixed amount and gets three years of full repairs including spare parts, labor, preventive maintenance, calibration and management.

Extended Warranty Tool Care™

With this offer you need to follow all the recommended service intervals, and send the tools to our service center for the warranty extension preventive maintenance. We will then register and keep track of the tool, as well as inform you of the next due date, to keep the warranty period valid for the next extended period.

In-plant support

We provide dedicated customer service programs with in-plant technicians, which leaves you free to concentrate on your business. Our specialists handle the commissioning and calibration of equipment as well as process optimization, servicing and on-site joint analysis. We aim to keep all your tools running efficiently and smoothly, whether they are Desoutter tools or those of other manufacturers.

Assembly Tools - Selection Guide

| TOOL TYPE | | PAGE |
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Plug & Tighten series

A unique assembly solution

EASY TO INSTALL

Directly connected
to the mains



PLUG & TIGHTEN

HIGH ACCURACY

Transducer tool



EASY TO USE

Set-up your cycle
directly on the tool

TFLEX

PLUG & TIGHTEN

- Easy to program 1 cycle
- Torque + Angle strategy capable
- DTU connection (DTU hardware required)
 - PLC external control
 - OK/NOK reporting and batch count

TFLEX

- Easy to change torque
- Up to 5 torques memorized
- Download tightening results on your PC (CVIP Flex software required)



Production line
With high duty cycle

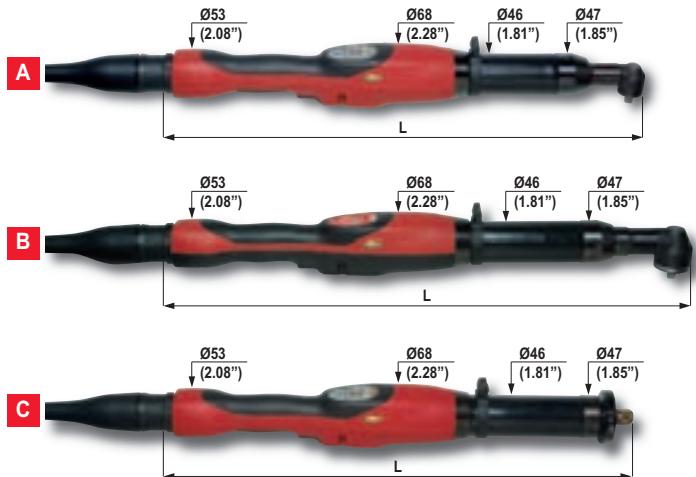
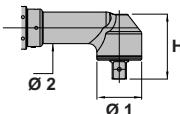


Prototyping
Quality department
Reworking/Backup tool

CVIP

3 to 65 Nm (2.2 to 47.9 ft.lb.)

| MODEL | Ø1 mm | Ø1 in. | Ø2 mm | Ø2 in. | H mm | H in. |
|------------|----------|-----------|----------|-----------|---------|----------|
| EAP1.5-15- | 28 | 1.10 | 27 | 1.06 | 45.5 | 1.79 |
| EAP1.5-20- | 28 | 1.10 | 27 | 1.06 | 45.5 | 1.79 |
| EAP1.5-26- | 28 | 1.10 | 27 | 1.06 | 45.5 | 1.79 |
| EAP2-20- | 28 | 1.10 | 27 | 1.06 | 45.5 | 1.79 |
| EAP2-30- | 28 | 1.10 | 27 | 1.06 | 45.5 | 1.79 |
| EAP2-40- | 35 | 1.38 | 27 | 1.06 | 51.5 | 2.03 |
| EAP2-65- | 40 | 1.57 | 30.5 | 1.20 | 57.5 | 2.26 |



| PIC REF | MODEL | PART NUMBER | MODEL | PART NUMBER | OUTPUT DRIVE | TORQUE RANGE | ROTATIONAL SPEED | LENGTH L | WEIGHT |
|------------|-------|----------------|-------|----------------|-----------------|-----------------|---------------------|-------------|--------|
| | | | | | in. | Nm | ft.lb. | mm | kg |
| | | | | | | | | | |
| | | | | | | | | rpm 230V | |

Right angle tools - 230V Models

| | | | | | | | | | | | | |
|---|---------------|---------------|----------------|---------------|---------|-------|----------|------|-------|------|------|-----|
| A | EAP1.5-15-T-2 | 615 165 312 0 | EAP1.5-15-TA-2 | 615 165 323 0 | Sq. 3/8 | 3-15 | 2.2-11.0 | 1020 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP1.5-20-T-2 | 615 165 313 0 | EAP1.5-20-TA-2 | 615 165 324 0 | Sq. 3/8 | 5-20 | 3.7-14.7 | 740 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP1.5-26-T-2 | 615 165 314 0 | EAP1.5-26-TA-2 | 615 165 325 0 | Sq. 3/8 | 7-26 | 5.2-19.2 | 570 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP2-20-T-2 | 615 165 315 0 | EAP2-20-TA-2 | 615 165 326 0 | Sq. 3/8 | 5-20 | 3.7-14.7 | 1320 | 559.5 | 22.0 | 2.0 | 4.4 |
| A | EAP2-30-T-2 | 615 165 316 0 | EAP2-30-TA-2 | 615 165 327 0 | Sq. 3/8 | 7-30 | 5.2-22.1 | 1020 | 559.5 | 22.0 | 2.0 | 4.4 |
| A | EAP2-40-T-2 | 615 165 317 0 | EAP2-40-TA-2 | 615 165 328 0 | Sq. 3/8 | 10-40 | 7.4-29.5 | 800 | 570.0 | 22.4 | 2.1 | 4.6 |
| A | EAP2-65-T-2 | 615 165 318 0 | EAP2-65-TA-2 | 615 165 329 0 | Sq. 3/8 | 15-65 | 11-47.9 | 510 | 581.5 | 22.9 | 2.2 | 4.8 |

Right angle Tflex tools - 230V Models

| | | | | | | | | | | | | |
|---|-------------|---------------|--|--|---------|-------|----------|------|-------|------|-----|-----|
| B | EAP2-30-TF2 | 615 165 404 0 | | | Sq. 3/8 | 6-30 | 4.4-22.1 | 1020 | 559.5 | 22.0 | 2.0 | 4.4 |
| B | EAP2-65-TF2 | 615 165 405 0 | | | Sq. 3/8 | 15-65 | 11-47.9 | 510 | 581.5 | 22.9 | 2.2 | 4.8 |

Right angle tools - 110V Models

| | | | | | | | | | | | | |
|---|---------------|---------------|----------------|---------------|---------|-------|----------|------|-------|------|------|-----|
| A | EAP1.5-15-T-1 | 615 165 334 0 | EAP1.5-15-TA-1 | 615 165 345 0 | Sq. 3/8 | 3-15 | 2.2-11.0 | 1200 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP1.5-20-T-1 | 615 165 335 0 | EAP1.5-20-TA-1 | 615 165 346 0 | Sq. 3/8 | 5-20 | 3.7-14.7 | 740 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP1.5-26-T-1 | 615 165 336 0 | EAP1.5-26-TA-1 | 615 165 347 0 | Sq. 3/8 | 7-26 | 5.2-19.2 | 570 | 534.5 | 21.0 | 1.85 | 4.1 |
| A | EAP2-20-T-1 | 615 165 337 0 | EAP2-20-TA-1 | 615 165 348 0 | Sq. 3/8 | 5-20 | 3.7-14.7 | 1320 | 559.5 | 22.0 | 2.0 | 4.4 |
| A | EAP2-30-T-1 | 615 165 338 0 | EAP2-30-TA-1 | 615 165 349 0 | Sq. 3/8 | 7-30 | 5.2-22.1 | 1020 | 559.5 | 22.0 | 2.0 | 4.4 |
| A | EAP2-40-T-1 | 615 165 339 0 | EAP2-40-TA-1 | 615 165 350 0 | Sq. 3/8 | 10-40 | 7.4-29.5 | 800 | 570.0 | 22.4 | 2.1 | 4.6 |
| A | EAP2-65-T-1 | 615 165 340 0 | EAP2-65-TA-1 | 615 165 351 0 | Sq. 3/8 | 15-65 | 11-47.9 | 510 | 581.5 | 22.9 | 2.2 | 4.8 |

Right angle Tflex tools - 110V Models

| | | | | | | | | | | | | |
|---|-------------|---------------|--|--|---------|-------|----------|------|-------|------|-----|-----|
| B | EAP2-30-TF1 | 615 165 402 0 | | | Sq. 3/8 | 6-30 | 4.4-22.1 | 1020 | 559.5 | 22.0 | 2.0 | 4.4 |
| B | EAP2-65-TF1 | 615 165 403 0 | | | Sq. 3/8 | 15-65 | 11-47.9 | 510 | 581.5 | 22.9 | 2.2 | 4.8 |

In-line tools - 230V Models

| | | | | | | | | | | | | |
|---|---------------|---------------|----------------|---------------|-----------|------|----------|------|-------|------|------|-----|
| C | EDP1.5-15-T-2 | 615 165 319 0 | EDP1.5-15-TA-2 | 615 165 330 0 | Hex. 1/4F | 3-15 | 2.2-11.0 | 1010 | 491.5 | 19.3 | 1.7 | 3.7 |
| C | EDP2-24-T-2 | 615 165 320 0 | EDP2-24-TA-2 | 615 165 331 0 | Hex. 1/4F | 5-24 | 3.7-17.7 | 1390 | 516.5 | 20.3 | 1.8 | 3.9 |
| C | EDP2-33-T-2 | 615 165 321 0 | EDP2-33-TA-2 | 615 165 332 0 | Sq. 3/8 | 7-33 | 5.2-24.3 | 1010 | 508.5 | 20.0 | 1.85 | 4.1 |
| C | EDP2-43-T-2 | 615 165 322 0 | EDP2-43-TA-2 | 615 165 333 0 | Sq. 3/8 | 8-43 | 5.9-31.7 | 780 | 508.5 | 20.0 | 1.85 | 4.1 |

In-line tools - 110V Models

| | | | | | | | | | | | | |
|---|---------------|---------------|----------------|---------------|-----------|------|----------|------|-------|------|------|-----|
| C | EDP1.5-15-T-1 | 615 165 341 0 | EDP1.5-15-TA-1 | 615 165 352 0 | Hex. 1/4F | 3-15 | 2.2-11.0 | 1010 | 491.5 | 19.3 | 1.7 | 3.7 |
| C | EDP2-24-T-1 | 615 165 342 0 | EDP2-24-TA-1 | 615 165 353 0 | Hex. 1/4F | 5-24 | 3.7-17.7 | 1390 | 516.5 | 20.3 | 1.8 | 3.9 |
| C | EDP2-33-T-1 | 615 165 343 0 | EDP2-33-TA-1 | 615 165 354 0 | Sq. 3/8 | 7-33 | 5.2-24.3 | 1010 | 508.5 | 20.0 | 1.85 | 4.1 |
| C | EDP2-43-T-1 | 615 165 344 0 | EDP2-43-TA-1 | 615 165 355 0 | Sq. 3/8 | 8-43 | 5.9-31.7 | 780 | 508.5 | 20.0 | 1.85 | 4.1 |

ACCESSORIES INCLUDED

- Horizontal bail
- Reaction bar ring

615 396 562 0
615 396 551 5

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|---------------|
| 1 Mounting plate with telescopic spindle | 615 396 547 0 |
| 2 2nd lever start (except Tflex tools) | 615 396 553 0 |
| 3 Reaction handle | 615 396 554 0 |
| 4 Horizontal bail, swivel | 615 396 529 0 |
| 5 Vertical bail | 467003 |
| 6 Plastic protective cover EAP -15/20/30 | 615 573 064 0 |
| 6 Plastic protective cover EAP 2-40 | 615 573 065 0 |
| 6 Plastic protective cover EAP 2-65 | 615 573 066 0 |
| • Plastic protective cover EDP | 615 573 067 0 |

OPTIONAL ACCESSORIES

PART NO.

- Power cable EU 230V - 5m (16.4ft)
- Power cable EU 230V - 5m (16.4ft) with GFI
- Power cable UK 230V - 5m (16.4ft)
- Power cable UK 230V - 5m (16.4ft) with GFI
- Power cable US 110V - 5m (16.4ft) with GFI
- Power cable without plug 230V - 5m (16.4ft)
- Power cable without plug 230V - 5m (16.4ft) with GFI
- Power cable without plug 110V - 5m (16.4ft)
- Power cable without plug 110V - 5m (16.4ft) with GFI

A GFI (Ground Fault Interrupter) is an additional user safety protection. It is strongly recommended to have one if your line is not already protected.

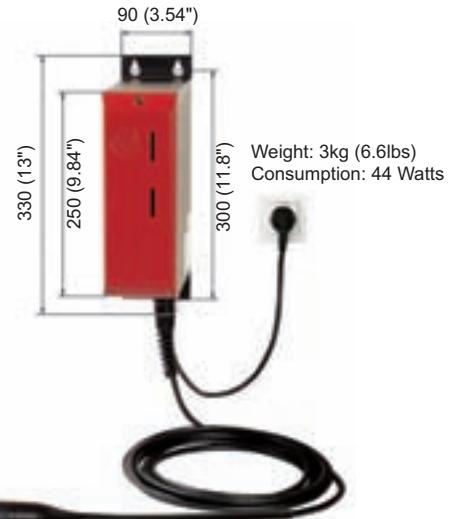
Data Transfer Unit

Quality Insurance for Plug & Tighten tools

(not compatible with Plug & Tighten TFlex)

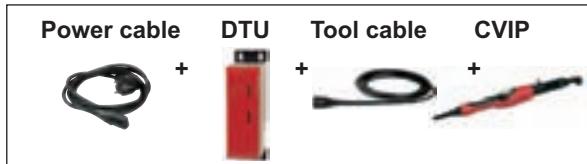
The DTU (Data Transfer Unit) is a reporting box and power tool supply for Plug & Tighten tools.

- **PLC External control** : The tool can be controlled by an external system for automatic solutions.
- **OK / NOK reporting** : Results outputs are available to ensure a perfect quality process.
- **Batch count** : Completed number of OK fastening (with a good result) are counted and reported. This ensures a complete and high quality assembly (setup by pocket PC).

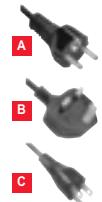


| MODEL | PART NUMBER | WIDTH | DEPTH | DIMENSIONS | | | |
|-----------|---------------|-------|-------|------------|-----|-----|-----|
| | | mm | in. | mm | in. | mm | in. |
| DTU Basic | 615 936 045 0 | 90 | 3.5 | 250 | 9.8 | 190 | 7.5 |

Please also specify **TOOL CABLE** and **POWER CABLE**



| TOOL CABLE | PART NO. |
|--------------------------------|---------------|
| • Tool cable 110V 5m (16.4ft) | 615 917 485 0 |
| • Tool cable 110V 10m (32.8ft) | 615 917 486 0 |
| • Tool cable 110V 15m (49.2ft) | 615 917 487 0 |
| • Tool cable 230V 5m (16.4ft) | 615 917 480 0 |
| • Tool cable 230V 10m (32.8ft) | 615 917 481 0 |
| • Tool cable 230V 15m (49.2ft) | 615 917 482 0 |



| POWER CABLE | PART NO. |
|-------------------------|---------------|
| A European 2.5m (8.2ft) | 615 917 201 0 |
| B UK 2.5m (8.2ft) | 615 917 202 0 |
| C US 2.5m (8.2ft) | 615 917 203 0 |

| OPTIONAL EXTENSION CABLE | PART NO. |
|-------------------------------------|---------------|
| • Extension tool cable 10m (32.8ft) | 615 917 483 0 |
| • Extension tool cable 20m (65.6ft) | 615 917 484 0 |

CVIP Flex software

Up to 30 tightening results transfer to your PC

(only compatible with Tflex Tools)

CVIP Flex is a simple PC software that will help you to download the first 30 readings via Bluetooth.

| MODEL | PART NUMBER |
|-----------|---------------|
| CVIP Flex | 615 929 024 0 |



E-LIT series

An innovative battery tool

1000 tightening autonomy in 1.1 kg (2.4 lb)

| 2 MODELS TO CHOOSE FROM | BRUSHLESS MOTOR | LI-ION BATTERY | SPEED MODULE |
|--|--------------------|-------------------|-----------------|
| E-LIT premium <i>Electronic brushless speed control (ELS)</i> | ✓ | ✓ | ✓ |
| E-LIT plus <i>Electronic brushless (ELB)</i> | ✓ | ✓ | ✗ |



Always the right speed

120 to 1550 rpm



MVI/MVIC

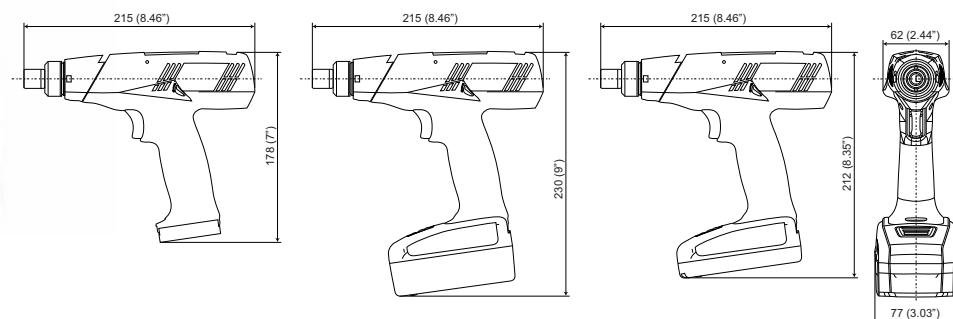
- Body shop assembly
- Final assembly

GI

- Any standard joints < 12 Nm

E-LIT series - Brushless versions

0.4 to 12 Nm (0.3 to 8.8 ft.lb) - 120 to 1550 rpm



| PIC REF | MODEL | PART NUMBER | TORQUE RANGE | ROTATIONAL SPEED* | OUTPUT DRIVE | HEIGHT WITHOUT BATTERY | WEIGHT WITHOUT BATTERY |
|---------|-------|-------------|--------------|-------------------|--------------|------------------------|------------------------|
| | | | Nm ft.lb | rpm | in | mm in. | kg lb |

E-LIT premium - Electronic brushless speed control (ELS)

| | | | | | | | | | | |
|---|---------------|---------------|----------|---------|----------|------------|-----|---|-----|------|
| A | ELS2.5-1550-P | 615 165 419 0 | 0.4-2.5 | 0.3-1.8 | 500-1550 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| A | ELS6-1000-P | 615 165 420 0 | 0.8-6.0 | 0.6-4.4 | 300-1000 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| A | ELS8-400-P | 615 165 605 0 | 1.5-8.0 | 1.1-5.9 | 120-400 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| A | ELS8-800-P | 615 165 421 0 | 1.5-8.0 | 1.1-5.9 | 300-800 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| A | ELS12-600-P | 615 165 422 0 | 3.0-12.0 | 2.2-8.8 | 250-600 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |

E-LIT plus - Electronic brushless motor (ELB)

| | | | | | | | | | | |
|---|---------------|---------------|----------|---------|------|------------|-----|---|-----|------|
| B | ELB2.5-1250-P | 615 165 415 0 | 0.4-2.5 | 0.3-1.8 | 1260 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| B | ELB6-900-P | 615 165 416 0 | 0.8-6.0 | 0.6-4.4 | 910 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| B | ELB2.5-670-P | 615 165 439 0 | 0.4-2.5 | 0.3-1.8 | 670 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| B | ELB6-670-P | 615 165 440 0 | 0.8-6.0 | 0.6-4.4 | 670 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| B | ELB8-670-P | 615 165 417 0 | 1.5-8.0 | 1.1-5.9 | 670 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |
| B | ELB12-600-P | 615 165 418 0 | 3.0-12.0 | 2.2-8.8 | 600 | Hex. 1/4 F | 178 | 7 | 0.8 | 1.76 |

*Contact your local supplier for specific speed requests

Accessories

ACCESSORIES INCLUDED

PART NO.

- Adjustment screwdriver

205 050 785 3

OPTIONAL ACCESSORIES

ITEM

PART NO.

Battery type

| | |
|--|---------------|
| 1 Li-ion Battery 18V 1.3 Ah - 0.35 kg (0.77lb) | 615 397 298 0 |
| 2 Li-ion Battery 18V 2.6 Ah - 0.60 kg (1.32lb) | 615 397 299 0 |

Charger

| | |
|------------------------------------|---------------|
| 3 Charger for Li-ion 230V - Europe | 615 397 300 0 |
| 3 Charger for Li-ion 120V - USA | 615 397 301 0 |
| 3 Charger for Li-ion 230V - UK | 615 397 302 0 |

Miscellaneous

| | |
|---|---------------|
| 4 Speed setting module (ELS version only) | 615 396 829 0 |
| 5 Side handle | 615 396 757 0 |
| 6 Cover protection | 615 396 870 0 |
| 7 Battery cover protection for battery 18V 1.3 Ah | 615 396 871 0 |
| 7 Battery cover protection for battery 18V 2.6 Ah | 615 396 872 0 |
| • Suspension bail | 443 703 |
| 8 Kit Colour rings (7) | 615 396 742 5 |
| 9 Pistol tool holster | 615 804 914 0 |
| • Aluminium case | 615 995 630 0 |





CVI II Range

Electric transducerized

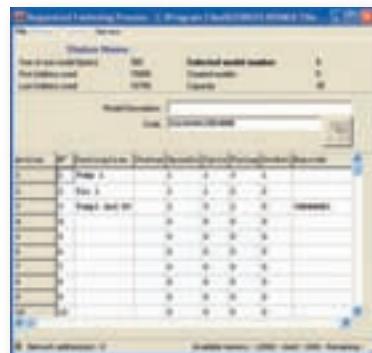


Tools

Wide range of torque, high speed for productivity, precision in high torque and low speeds

- Brushless AC motor : virtually maintenance free
- Resolver : smooth angle control at any speed
- 6 leds OK / NOK signals
- Easy and quick maintenance

Easy to integrate



I/O management, sequencing and positionning for error-proofing scenario

Controllers



From a simple run down up to complex sequence applications, with up to 20 phases and 250 cycles to optimize speed, accuracy and operator comfort on every joint.

Tightening strategies

- Torque + angle monitoring
- Angle + torque monitoring
- Torque + angle + torque rate
- Prevailing torque
- Yield point
- Stall torque
- Torque & angle
- Detection of plastic zone area of the joint
- Additional torque + angle transducers
- Self tapping
- Current monitoring

Communication



CVIPC2000:

- common software to all controllers for easy programming
- statistics screens
- full traceability and networking capabilities
- up to 11600 results stored in the controller

Peripherals and accessories



POSCO positioning system allows quick sequencing with X and Y encoders to respect your batch order

Technical features

CVI II Range

| FUNCTION | CVIS II | CVI II MODCVI-1 | TWINCVI II MODCVI-2 |
|---|------------|--------------------|------------------------|
| Number of channels | 1 | 1 | 2 |
| Number of cycles | 15 | 250 | 250 |
| Number of phases | 8 | 20 | 20 |
| Batch count | 999 | 999 | 999 |
| Real time statistics (ISO.CNOMO) | | ✓ | ✓ |
| Synchronization of spindles | | | ✓ |
| TIGHTENING RESULTS | | | |
| Torque + Angle + Date + Time + Report | up to 5000 | up to 8500 | up to 11600 |
| Number of curves | 2 | 4 | 8 |
| TIGHTENING STRATEGIES | | | |
| Torque control + angle monitoring | ✓ | ✓ | ✓ |
| Angle control + torque monitoring | ✓ | ✓ | ✓ |
| Torque and Angle control | | ✓ | ✓ |
| Torque control + (Angle + torque Rate) monitoring | | ✓ | ✓ |
| Angle control + (Torque + torque Rate) monitoring | | ✓ | ✓ |
| Yield point strategy | | ✓ | ✓ |
| Stall torque | | ✓ | ✓ |
| Prevailing torque | ✓ | ✓ | ✓ |
| Current monitoring | | ✓ | ✓ |
| Self-tapping | | ✓ | ✓ |
| EXTERNAL CONNECTIVITY | | | |
| Input | 8 | 26 | 26 |
| Output | 8 | 32 | 32 |
| RS232/422 port (RSPC) | ✓ | ✓ | ✓ |
| Parallel printer port | ✓ | ✓ | ✓ |
| High speed RS232/485/20mA (RSB) port | | ✓ | ✓ |
| RS232 port (RSA) | | ✓ | ✓ |
| ADVANCED OPTIONS | | | |
| Ethernet - 3 port socket | | ✓ | ✓ |
| Fieldbus: Profibus, modbus+, interbusS, devicenet | | ✓ | ✓ |
| SFP Basic cycle sequencing | | ✓ | ✓ |
| SFP Advanced station management | | ✓ | ✓ |
| MAINTENANCE | | | |
| Access to all tools parameters | ✓ | ✓ | ✓ |
| Autotest of the complete system | ✓ | ✓ | ✓ |
| Automatic calibration with Delta | | ✓ | ✓ |
| PROGRAMMING | | | |
| 8 keys + LCD screen | ✓ | | |
| Full keypad + large LCD screen | | ✓ | ✓ |
| CVIPC2000 point to point or via networking | ✓ | ✓ | ✓ |

Example order for 1 complete Assembly System

| PART NO. | |
|---|---------------|
| 1 Tool portable angle nutrunner ERAL-2-80 | 615 165 365 0 |
| 1 Cable length 15m | 615 917 495 0 |
| 1 Controller CVI II | 615 932 617 0 |
| 1 Start-up kit (UK) | 615 928 071 0 |



Controllers

CVIS II -CVI II -TWINCVI II -MODCVI -CPUCVI



MODCVI-2
Is the modular version
of TWINCVI II

CPUCVI
The CPUCVI is the system control for a multi spindle unit.
It fully controls the assembly sequence, controls
the MODCVI-M and centralizes the command and results.

| PIC REF | MODEL | PART NUMBER | AVERAGE POWER | ELECTRICAL SUPPLY | WIDTH | | DIMENSIONS HEIGHT | | DEPTH | | WEIGHT | |
|---------|------------------------|---------------|---------------|-----------------------|-------|-----------|-------------------|------|-------|------|--------|------|
| | | | | | KVA | 115/230 V | mm | in. | mm | in. | kg | lb. |
| A | CVIS II | 615 932 618 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 17.0 | 37.5 |
| A | CVIS II US | 615 932 642 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 17.0 | 37.5 |
| B | CVI II | 615 932 617 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 18.5 | 40.8 |
| B | CVI II US | 615 932 641 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 18.5 | 40.8 |
| B | CVI II PROFIBUS | 615 932 620 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 18.5 | 40.8 |
| B | CVI II ETHERNET | 615 932 664 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 18.5 | 40.8 |
| B | CVI II US ETHERNET | 615 932 666 0 | 0.5 | Single-phase | 280 | 11.0 | 345 | 13.6 | 385 | 15.2 | 18.5 | 40.8 |
| C | TWINCVI II | 615 932 619 0 | 1.0 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 26.0 | 57.3 |
| C | TWINCVI II 1 SERVO | 615 932 626 0 | 0.5 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 24.0 | 52.8 |
| C | TWINCVI II US | 615 932 640 0 | 1.0 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 26.0 | 57.3 |
| C | TWINCVI II PROFIBUS | 615 932 621 0 | 1.0 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 26.0 | 57.3 |
| C | TWINCVI II ETHERNET | 615 932 665 0 | 1.0 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 26.0 | 57.3 |
| C | TWINCVI II US ETHERNET | 615 932 667 0 | 1.0 | Single-phase | 400 | 15.7 | 345 | 13.6 | 400 | 15.7 | 26.0 | 57.3 |
| D | MODCVI-1 | 615 932 501 0 | 0.5 | Single or Three-phase | 230 | 9.0 | 355 | 14.0 | 360 | 14.2 | 11.0 | 24.3 |
| D | MODCVI-2 | 615 932 521 0 | 1.0 | Single or Three-phase | 230 | 9.0 | 355 | 14.0 | 360 | 14.2 | 13.6 | 30.0 |
| D | MODCVI-M1 | 615 932 541 0 | 0.5 | 1 or 2 spindles | 230 | 9.0 | 355 | 14.0 | 360 | 14.2 | 11.0 | 24.3 |
| D | MODCVI-M2 | 615 932 542 0 | 1.0 | 1 or 2 spindles | 230 | 9.0 | 355 | 14.0 | 360 | 14.2 | 13.6 | 30.0 |
| E | CPUCVI | 615 932 561 0 | 0.2 | Single-phase | 108 | 4.3 | 375 | 14.7 | 360 | 14.2 | 6.6 | 14.5 |

START-UP KIT to be ordered with the controller
Including: Plug + Literature

| PLUG | LITERATURE | CVIS II | TWINCVI II / CVI II |
|------|------------|---------------|---------------------|
| A | French | 615 928 090 0 | 615 928 070 0 |
| A | German | 615 928 092 0 | 615 928 072 0 |
| A | Spanish | 615 928 093 0 | 615 928 073 0 |
| A | Italian | 615 928 094 0 | 615 928 074 0 |
| A | English | 615 928 095 0 | 615 928 075 0 |
| A | Dutch | 615 928 098 0 | |
| A | Portuguese | 615 928 096 0 | 615 928 076 0 |
| B | English | 615 928 099 0 | 615 928 079 0 |
| C | English | 615 928 091 0 | 615 928 071 0 |



OPTIONAL ACCESSORIES

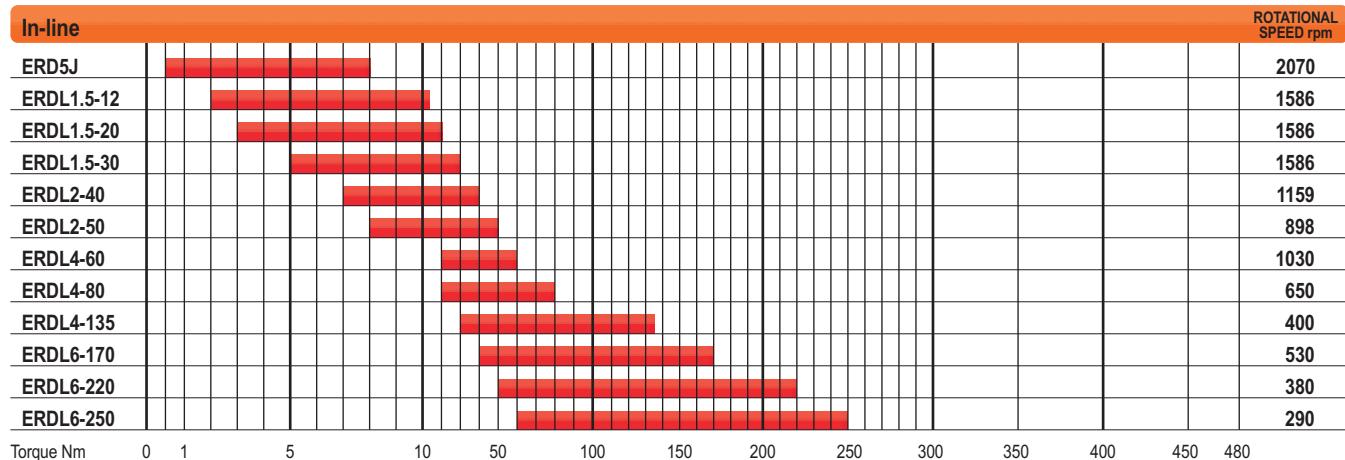
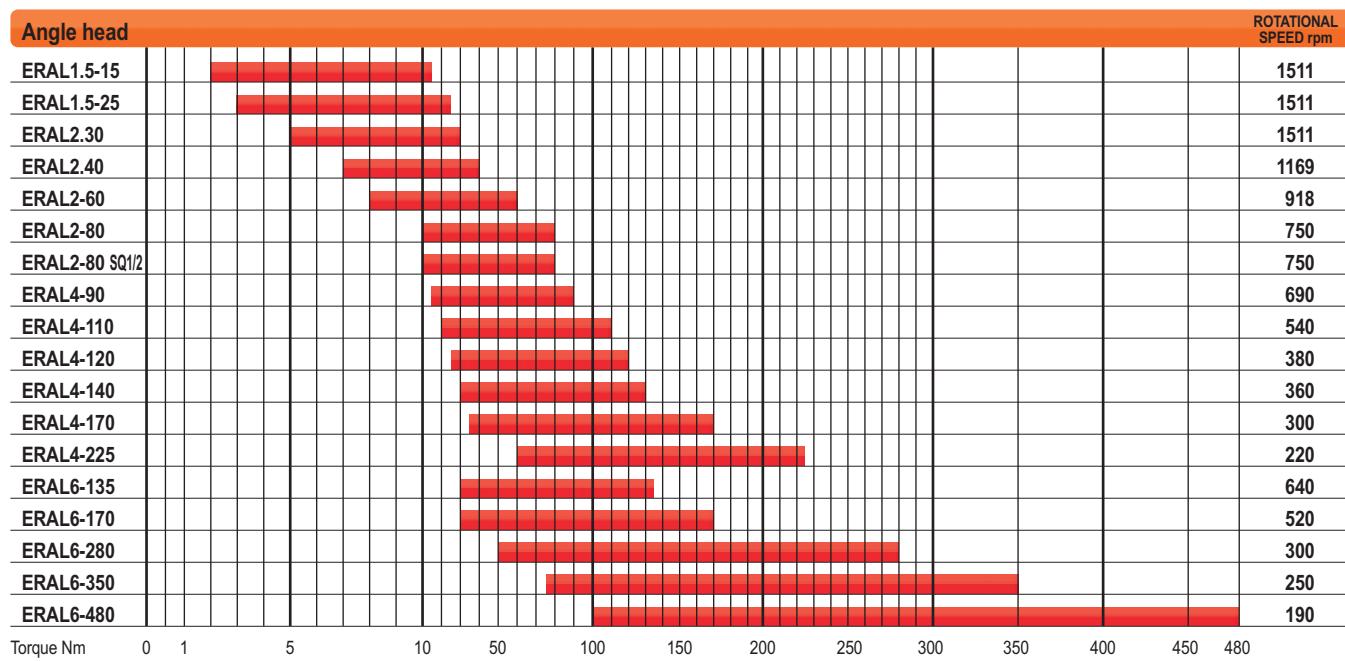
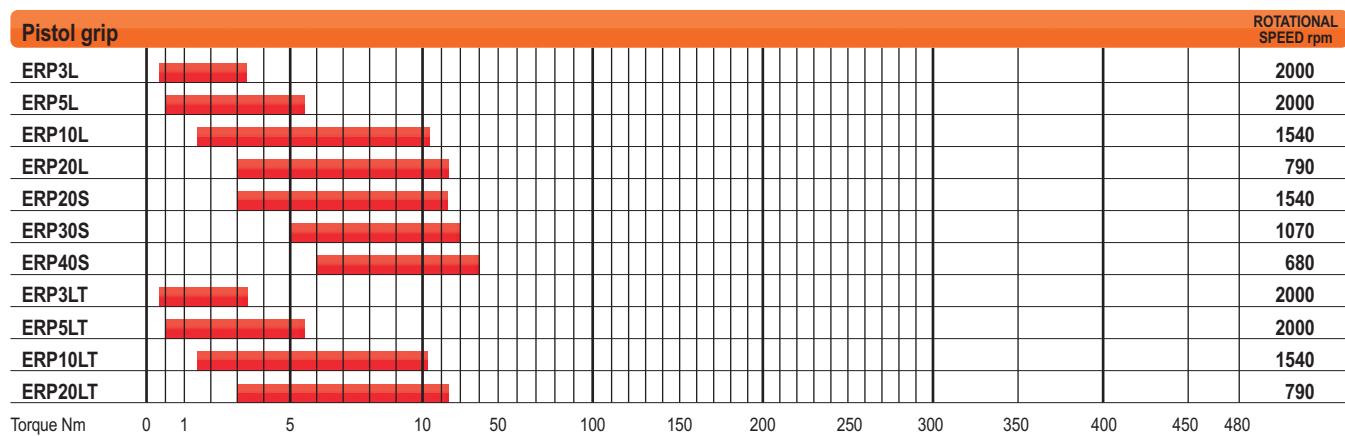
| PART NO. |
|----------------------------------|
| PC cable, length 2m (78.7") |
| Printer cable, length 2m (78.7") |
| Wall hanging system |
| Power supply 400 Volts |
| BRD 'Backup Rescue Device' |
| SFP Basic |
| SFP Advanced |
| CVIPC2000 for CVIS/CVIC |
| CVIPC2000 Standard |
| CVIPC2000 Advanced |
| CVIPC2000 for CVIS/CVIC |
| CVIPC2000 Standard |
| CVIPC2000 Advanced |
| CVIPC2000 Standard |
| CVIPC2000 Advanced |



Torque Range - Portable electric nutrunners

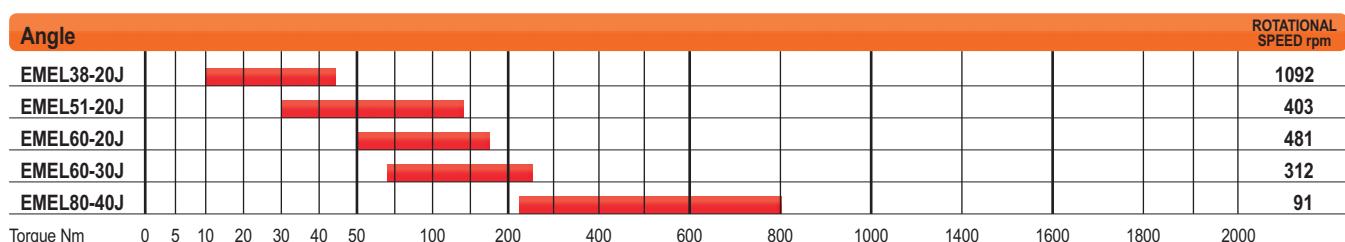
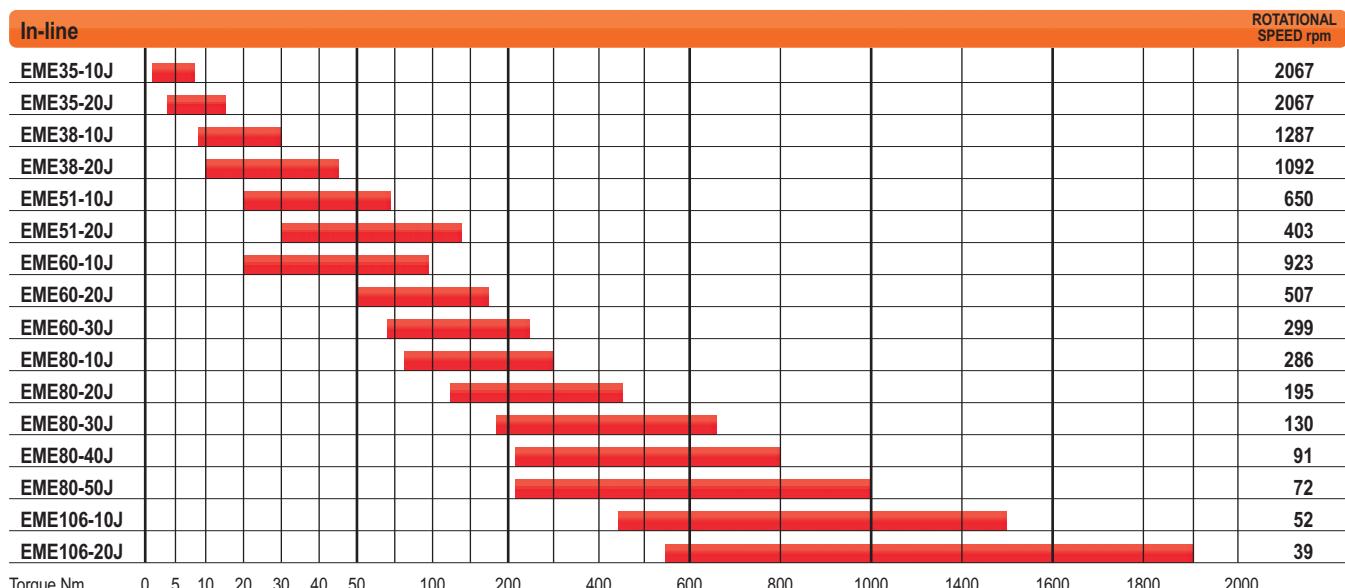
Performance of Portable electric nutrunners

Series ERP, ERA, ERD and ERDL

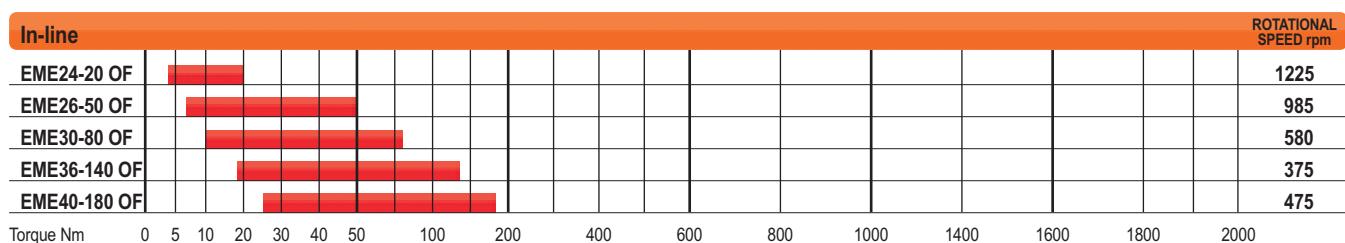


Torque Range - Fixtured electric spindles

**Performance of Fixtured electric spindles
Series EME and EMEL**



**Performance of Fixtured electric spindles with Offset
Series EME.OF**



Pistol grip electric nutrunners - CVI II

0.35 to 42 Nm (0.26 to 31 ft.lb) - 680 to 2000 rpm



A



B



C



D

Accessories: see page 29



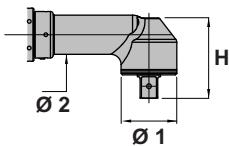
| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | TORQUE | | | | ROTATIONAL SPEED | | LENGTH | | | WEIGHT | |
|------------|---------|----------------|-----------------|--------|------------------|------|-------|---------------------|-------|--------|-----|------|--------|-----|
| | | | | MIN. | RECOM- MENDED | MAX. | MIN. | RECOM- MENDED | MAX. | rpm | mm | in. | kg | lb. |
| | | | in. | Nm | Nm | Nm | ft.lb | ft.lb | ft.lb | rpm | mm | in. | kg | lb. |
| A | ERP3L | 615 165 193 0 | Hex. 1/4F | 0.35 | 3 | 3.3 | 0.26 | 2.2 | 2.4 | 2000 | 196 | 7.7 | 1.0 | 2.2 |
| A | ERP5L | 615 165 194 0 | Hex. 1/4F | 0.5 | 5 | 5.5 | 0.37 | 3.7 | 4.0 | 2000 | 196 | 7.7 | 1.0 | 2.2 |
| A | ERP10L | 615 165 195 0 | Hex. 1/4F | 1.5 | 10 | 12.0 | 1.10 | 7.4 | 8.8 | 1540 | 196 | 7.7 | 1.1 | 2.4 |
| A | ERP20L | 615 165 196 0 | Hex. 1/4F | 3.0 | 20 | 23.0 | 2.20 | 14.7 | 17.0 | 790 | 196 | 7.7 | 1.1 | 2.4 |
| A | ERP20S | 615 165 197 0 | Hex. 1/4F | 3.0 | 20 | 23.0 | 2.20 | 14.7 | 17.0 | 1540 | 221 | 8.7 | 1.2 | 2.6 |
| B | ERP30S | 615 165 198 0 | Sq. 3/8 | 5.0 | 30 | 30.0 | 3.70 | 22.1 | 22.0 | 1070 | 217 | 8.5 | 1.2 | 2.6 |
| C | ERP40S | 615 165 263 0 | Sq. 3/8 | 6.0 | 40 | 42.0 | 4.40 | 29.5 | 31.0 | 680 | 274 | 10.8 | 1.7 | 3.7 |
| D | ERP3LT | 615 165 227 0 | Hex. 1/4F | 0.35 | 3 | 3.3 | 0.26 | 2.2 | 2.4 | 2000 | 196 | 7.7 | 1.0 | 2.2 |
| D | ERP5LT | 615 165 228 0 | Hex. 1/4F | 0.5 | 5 | 5.5 | 0.37 | 3.7 | 4.0 | 2000 | 196 | 7.7 | 1.0 | 2.2 |
| D | ERP10LT | 615 165 229 0 | Hex. 1/4F | 1.5 | 10 | 12.0 | 1.10 | 7.4 | 8.8 | 1540 | 196 | 7.7 | 1.1 | 2.4 |
| D | ERP20LT | 615 165 230 0 | Hex. 1/4F | 3.0 | 20 | 23.0 | 2.20 | 14.7 | 17.0 | 790 | 196 | 7.7 | 1.1 | 2.4 |

Angle head electric nutrunners - CVI II

2 to 480 Nm (1.5 to 354 ft.lb) - 190 to 1511 rpm



| MODEL | H mm in. | $\varnothing 1$ mm in. | $\varnothing 2$ | |
|------------------|----------------|------------------------------|-----------------|------|
| | | | mm | in. |
| ERAL1.5-15/25 | 45.0 | 1.77 | 28.0 | 1.10 |
| ERAL2-30/40 | 45.0 | 1.77 | 28.0 | 1.10 |
| ERAL2-60 | 51.0 | 2.01 | 35.0 | 1.36 |
| ERAL2-80 | 57.0 | 2.24 | 40.0 | 1.57 |
| ERAL2-80SQ1/2 | 61.0 | 2.40 | 40.0 | 1.57 |
| ERAL4-90/110/120 | 66.0 | 2.60 | 45.0 | 1.77 |
| ERAL4-140/170 | 69.0 | 2.70 | 50.0 | 1.97 |
| ERAL4-225 | 86.0 | 3.36 | 60.0 | 2.36 |
| ERAL6-135/170 | 69.0 | 2.72 | 50.0 | 1.97 |
| ERAL6-280 | 86.0 | 3.38 | 60.0 | 2.36 |
| ERAL6-350/480 | 90.5 | 3.56 | 73.5 | 2.89 |



Accessories: see page 29



| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE | | | | RECOM- MENDED | MAX. | MIN. | RECOM- MENDED | MAX. | ROTATIONAL SPEED | LENGTH | | WEIGHT | |
|------------|----------------|----------------|-----------------|--------|------------------|------|-------|------------------|-------|-------|------------------|-------|---------------------|--------|------|--------|------|
| | | | | MIN. | RECOM- MENDED | MAX. | ft.lb | | | | | | | mm | in. | kg | lb. |
| | | | in. | Nm | Nm | Nm | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | rpm | mm | in. | kg | lb. |
| A | ERAL1.5-15 | 615 165 356 0 | 3/8 | 2 | 15 | 18 | 1.5 | 11.0 | 13.3 | 1.5 | 11.0 | 13.3 | 1511 | 408 | 16.1 | 1.35 | 3.0 |
| A | ERAL1.5-25 | 615 165 357 0 | 3/8 | 3 | 20 | 25 | 2.2 | 14.7 | 18.4 | 1.5 | 11.0 | 13.3 | 1511 | 408 | 16.1 | 1.35 | 3.0 |
| A | ERAL2.30 | 615 165 362 0 | 3/8 | 5 | 20 | 30 | 3.7 | 14.7 | 22.0 | 1.5 | 11.0 | 13.3 | 1511 | 433 | 17.0 | 1.55 | 3.4 |
| A | ERAL2.40 | 615 165 363 0 | 3/8 | 7 | 30 | 40 | 5.2 | 22.0 | 29.5 | 1.5 | 11.0 | 13.3 | 1169 | 433 | 17.0 | 1.6 | 3.5 |
| A | ERAL2-60 | 615 165 364 0 | 3/8 | 8 | 45 | 60 | 5.9 | 33.0 | 44.0 | 1.5 | 11.0 | 13.3 | 918 | 443 | 17.4 | 1.7 | 3.7 |
| A | ERAL2-80 | 615 165 365 0 | 3/8 | 10 | 65 | 80 | 7.4 | 48.0 | 59.0 | 1.5 | 11.0 | 13.3 | 750 | 455 | 17.9 | 1.8 | 4.0 |
| A | ERAL2-80 SQ1/2 | 615 165 406 0 | 1/2 | 10 | 65 | 80 | 7.4 | 48.0 | 59.0 | 1.5 | 11.0 | 13.3 | 750 | 455 | 17.9 | 1.8 | 4.0 |
| B | ERAL4-90 | 615 165 384 0 | 1/2 | 15 | 70 | 90 | 11.0 | 51.6 | 66.0 | 1.5 | 11.0 | 13.3 | 690 | 552 | 21.7 | 3.5 | 7.7 |
| B | ERAL4-110 | 615 165 385 0 | 1/2 | 20 | 90 | 110 | 14.7 | 66.0 | 81.0 | 1.5 | 11.0 | 13.3 | 540 | 552 | 21.7 | 3.5 | 7.7 |
| B | ERAL4-120 | 615 165 386 0 | 1/2 | 25 | 115 | 120 | 18.4 | 85.0 | 88.4 | 1.5 | 11.0 | 13.3 | 380 | 552 | 21.7 | 3.5 | 7.7 |
| B | ERAL4-140 | 615 165 387 0 | 1/2 | 30 | 125 | 140 | 22.0 | 92.0 | 103.0 | 1.5 | 11.0 | 13.3 | 360 | 554 | 21.8 | 3.7 | 8.1 |
| B | ERAL4-170 | 615 165 388 0 | 1/2 | 35 | 150 | 170 | 26.0 | 110.5 | 125.0 | 1.5 | 11.0 | 13.3 | 300 | 554 | 21.8 | 3.7 | 8.1 |
| B | ERAL4-225 | 615 165 389 0 | 3/4 | 60 | 200 | 225 | 44.0 | 147.0 | 166.0 | 1.5 | 11.0 | 13.3 | 220 | 604 | 23.8 | 3.9 | 8.6 |
| C | ERAL6-135 | 615 165 390 0 | 1/2 | 30 | 125 | 135 | 22.0 | 92.0 | 100.0 | 1.5 | 11.0 | 13.3 | 640 | 639 | 25.2 | 6.2 | 13.7 |
| C | ERAL6-170 | 615 165 441 0 | 1/2 | 30 | 150 | 170 | 22.0 | 110.0 | 125.0 | 1.5 | 11.0 | 13.3 | 520 | 639 | 25.2 | 6.2 | 13.7 |
| C | ERAL6-280 | 615 165 391 0 | 3/4 | 50 | 250 | 280 | 37.0 | 184.0 | 206.0 | 1.5 | 11.0 | 13.3 | 300 | 661 | 26.0 | 6.3 | 13.9 |
| D | ERAL6-350 | 615 165 392 0 | 3/4 | 75 | 300 | 350 | 55.0 | 221.0 | 258.0 | 1.5 | 11.0 | 13.3 | 250 | 702 | 27.6 | 8.0 | 17.6 |
| D | ERAL6-480 | 615 165 393 0 | 3/4 | 100 | 400 | 480 | 73.0 | 295.0 | 354.0 | 1.5 | 11.0 | 13.3 | 190 | 702 | 27.6 | 8.0 | 17.6 |

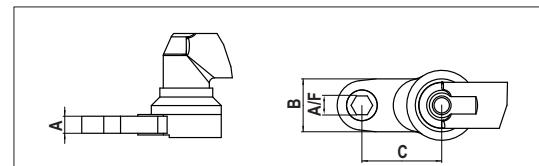
Offset crowfoot and Offset tube nut tools



Examples of applications

Offset crowfoot tools

For restricted access applications.

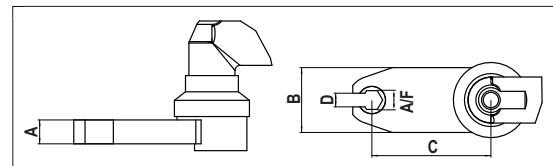


| MODEL | PART NUMBER | TORQUE RANGE | | FREE SPEED | WEIGHT | | LENGTH | | DIMENSIONS | | | | | | |
|--------------------|---------------|--------------|--------|------------|--------|-----|--------|------|------------|----|------|----|------|------|------|
| | | Nm | ft.lb | | kg | lb | mm | in. | mm | mm | in. | mm | in. | mm | mm |
| ERAL2-80 CE10 CC50 | 615 165 592 0 | 10-60 | 7.4-44 | 750 | 2.3 | 5.1 | 500 | 19.7 | 10 | 24 | 0.94 | 30 | 1.18 | 50.0 | 1.97 |
| ERAL2-80 CE10 CC76 | 615 165 593 0 | 8-60 | 5.9-44 | 750 | 2.7 | 5.9 | 526 | 20.7 | 10 | 24 | 0.94 | 30 | 1.18 | 76.5 | 3.01 |
| ERAL2-80 CE13 CC50 | 615 165 594 0 | 10-60 | 7.4-44 | 750 | 2.3 | 5.1 | 500 | 19.7 | 13 | 24 | 0.94 | 30 | 1.18 | 50.0 | 1.97 |
| ERAL2-80 CE13 CC76 | 615 165 595 0 | 8-60 | 5.9-44 | 750 | 2.7 | 5.9 | 526 | 20.7 | 13 | 24 | 0.94 | 30 | 1.18 | 76.5 | 3.01 |



Offset tube nut tools

For application requires assembly of a hose, pipe or cable.



| MODEL | PART NUMBER | TORQUE RANGE | | FREE SPEED | WEIGHT | | LENGTH | | DIMENSIONS | | | | | | | | |
|--------------------|---------------|--------------|--------|------------|--------|-----|--------|------|------------|----|------|----|------|------|------|------|------|
| | | Nm | ft.lb | | kg | lb | mm | in. | mm | mm | in. | mm | in. | mm | in. | | |
| ERAL2-60 OE11 CC53 | 615 165 596 0 | 6.0-42 | 4.4-31 | 918 | 2.2 | 4.8 | 503 | 19.8 | 11 | 18 | 0.71 | 40 | 1.57 | 52.9 | 2.08 | 10.4 | 0.41 |
| ERAL2-60 OE11 CC75 | 615 165 597 0 | 5.2-39 | 3.8-29 | 918 | 2.3 | 5.1 | 526 | 20.7 | 11 | 18 | 0.71 | 40 | 1.57 | 75.3 | 2.96 | 10.4 | 0.41 |
| ERAL2-60 OE12 CC53 | 615 165 598 0 | 6.0-42 | 4.4-31 | 918 | 2.2 | 4.8 | 503 | 19.8 | 12 | 18 | 0.71 | 40 | 1.57 | 52.9 | 2.08 | 10.4 | 0.41 |
| ERAL2-60 OE12 CC75 | 615 165 599 0 | 5.2-39 | 3.8-29 | 918 | 2.3 | 5.1 | 526 | 20.7 | 12 | 18 | 0.71 | 40 | 1.57 | 75.3 | 2.96 | 10.4 | 0.41 |
| ERAL2-60 OE13 CC53 | 615 165 600 0 | 6.0-42 | 4.4-31 | 918 | 2.2 | 4.8 | 503 | 19.8 | 13 | 18 | 0.71 | 40 | 1.57 | 52.9 | 2.08 | 10.4 | 0.41 |
| ERAL2-60 OE13 CC75 | 615 165 601 0 | 5.2-39 | 3.8-29 | 918 | 2.3 | 5.1 | 526 | 20.7 | 13 | 18 | 0.71 | 40 | 1.57 | 75.3 | 2.96 | 10.4 | 0.41 |

Hold and Drive tools

Used for car and truck shock absorber assembly amongst others.

Combine two tightening operations in one cycle:

- internal blade holds the stud
- external socket drives the nut



Flush Socket tools

The height of an angle head tool with a socket is crucial for some applications.

The solution: use a flush socket tool where the socket is integrated with the angle head housing.



Contact your Desoutter representative for assistance in specifying the correct head for your application.

We can supply standard products or, if the application requires, we can customize a tool, complete with a drawing and parts list.

In-line electric Nutrunners- CVI II

0.5 to 250 Nm (0.37 to 184 ft.lb) - 290 to 2070 rpm



A



B



C



D

Accessories: see page 29



| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | MIN. | RECOM- MENDED | TORQUE | | RECOM- MENDED | MAX. | ROTATIONAL SPEED | LENGTH | | WEIGHT | |
|------------|------------|----------------|-----------------|------|------------------|--------|------|------------------|-------|---------------------|--------|------|--------|------|
| | | | | | | MAX. | MIN. | | | | mm | in. | kg | lb. |
| | | | | in. | Nm | Nm | Nm | ft.lb | ft.lb | rpm | | | | |
| • | ERD5J | 615 165 060 0 | Hex. 1/4 F | 0.5 | 6 | 8 | 0.37 | 4.4 | 5.9 | 2070 | 379 | 14.9 | 1.3 | 2.9 |
| A | ERDL1.5-12 | 615 165 366 0 | Hex. 1/4 F | 2 | 10 | 12 | 1.5 | 7.4 | 8.8 | 1586 | 365 | 14.4 | 1.3 | 2.9 |
| A | ERDL1.5-20 | 615 165 367 0 | Hex. 1/4 F | 3 | 15 | 20 | 2.2 | 11.0 | 14.7 | 1586 | 365 | 14.4 | 1.3 | 2.9 |
| B | ERDL1.5-30 | 615 165 368 0 | Sq. 3/8 | 5 | 20 | 30 | 3.7 | 14.7 | 22.0 | 1586 | 357 | 14.0 | 1.3 | 2.9 |
| B | ERDL2-40 | 615 165 369 0 | Sq. 3/8 | 7 | 30 | 40 | 5.2 | 22.0 | 29.5 | 1159 | 382 | 15.0 | 1.5 | 3.3 |
| B | ERDL2-50 | 615 165 370 0 | Sq. 3/8 | 8 | 40 | 50 | 5.9 | 29.5 | 36.9 | 898 | 382 | 15.0 | 1.5 | 3.3 |
| C | ERDL4-60 | 615 165 407 0 | Sq. 3/8 | 20 | 50 | 60 | 14.7 | 36.8 | 44.2 | 1030 | 475 | 18.7 | 2.8 | 6.2 |
| C | ERDL4-80 | 615 165 394 0 | Sq. 1/2 | 20 | 70 | 80 | 14.7 | 51.6 | 59.0 | 650 | 475 | 18.7 | 2.8 | 6.2 |
| C | ERDL4-135 | 615 165 395 0 | Sq. 1/2 | 30 | 120 | 135 | 22.1 | 88.4 | 99.6 | 400 | 502 | 19.8 | 3.3 | 7.3 |
| D | ERDL6-170 | 615 165 396 0 | Sq. 1/2 | 40 | 150 | 170 | 29.5 | 110.5 | 125.3 | 530 | 590 | 23.2 | 5.9 | 13.0 |
| D | ERDL6-220 | 615 165 397 0 | Sq. 3/4 | 50 | 200 | 220 | 36.8 | 147.4 | 162.0 | 380 | 597 | 23.5 | 5.9 | 13.0 |
| D | ERDL6-250 | 615 165 398 0 | Sq. 3/4 | 60 | 250 | 250 | 44.2 | 184.0 | 184.0 | 290 | 597 | 23.5 | 5.9 | 13.0 |

Fixtured electric spindles - CVI II

1 to 1900 Nm (0.7 to 1400 ft.lb) - 39 to 2067 rpm



Accessories: see page 28



| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | ROTATIONAL SPEED | TELESCOPIC | | MIN. CENTRE DISTANCE | | LENGTH | | WEIGHT | |
|---------|------------|---------------|--------------|--------------|------------|------------------|------------|-----|----------------------|-----|--------|------|--------|------|
| | | | in. | Nm | ft.lb | rpm | mm | in. | mm | in. | mm | in. | kg | lb. |
| A | EME35-10J | 615 165 423 0 | 3/8 | 1-8 | 0.7-5.9 | 2067 | 50 | 2.0 | 43.2 | 1.7 | 283 | 11.1 | 1.7 | 3.7 |
| A | EME35-20J | 615 165 424 0 | 3/8 | 4-15 | 2.1-11 | 2067 | 50 | 2.0 | 43.2 | 1.7 | 308 | 12.1 | 2.0 | 4.4 |
| A | EME38-10J | 615 165 425 0 | 3/8 | 9-30 | 6.6-22.1 | 1287 | 50 | 2.0 | 43.2 | 1.7 | 355 | 14.0 | 2.0 | 4.4 |
| A | EME38-20J | 615 165 426 0 | 3/8 | 10-45 | 7.4-33.2 | 1092 | 50 | 2.0 | 43.2 | 1.7 | 355 | 14.0 | 2.0 | 4.4 |
| B | EME51-10J | 615 165 427 0 | 1/2 | 20-70 | 14.7-51.6 | 650 | 50 | 2.0 | 51.2 | 2.0 | 374 | 14.7 | 2.9 | 6.4 |
| B | EME51-20J | 615 165 428 0 | 1/2 | 30-135 | 22.1-99.5 | 403 | 50 | 2.0 | 51.2 | 2.0 | 401 | 15.8 | 3.5 | 7.7 |
| C | EME60-10J | 615 165 429 0 | 1/2 | 20-95 | 14.7-70 | 923 | 50 | 2.0 | 60.2 | 2.4 | 431 | 16.9 | 4.8 | 10.6 |
| C | EME60-20J | 615 165 430 0 | 3/4 | 50-175 | 36.8-129 | 507 | 50 | 2.0 | 60.2 | 2.4 | 431 | 16.9 | 4.8 | 10.6 |
| C | EME60-30J | 615 165 431 0 | 3/4 | 70-250 | 51.6-184.2 | 299 | 50 | 2.0 | 60.2 | 2.4 | 467 | 18.4 | 5.2 | 11.5 |
| D | EME80-10J | 615 165 432 0 | 3/4 | 80-300 | 59-221 | 286 | 60 | 2.4 | 80.2 | 3.2 | 494 | 19.5 | 9.8 | 21.6 |
| D | EME80-20J | 615 165 433 0 | 3/4 | 120-450 | 88-221 | 195 | 60 | 2.4 | 80.2 | 3.2 | 494 | 19.5 | 9.8 | 21.6 |
| D | EME80-30J | 615 165 434 0 | 1 | 180-650 | 133-479 | 130 | 60 | 2.4 | 80.2 | 3.2 | 494 | 19.5 | 9.8 | 21.6 |
| D | EME80-40J | 615 165 435 0 | 1 | 220-800 | 162-590 | 91 | 60 | 2.4 | 80.2 | 3.2 | 494 | 19.5 | 9.8 | 21.6 |
| D | EME80-50J | 615 165 436 0 | 1 | 220-1000 | 162-737 | 72 | 60 | 2.4 | 80.2 | 3.2 | 494 | 19.5 | 9.8 | 21.6 |
| E | EME106-10J | 615 165 437 0 | 1 | 430-1500 | 317-1105 | 52 | 60 | 2.4 | 106.2 | 4.2 | 564 | 22.2 | 15.0 | 33.1 |
| E | EME106-20J | 615 165 438 0 | 1 | 540-1900 | 398-1400 | 39 | 60 | 2.4 | 106.2 | 4.2 | 564 | 22.2 | 15.0 | 33.1 |

Fixtured electric spindles - CVI II

10 to 800 Nm (7.4 to 590 ft.lb) - 91 to 1092 rpm



Accessories: see page 28

| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | | ROTATIONAL SPEED | TELESCOPIC | | MIN. CENTRE DISTANCE | | LENGTH L | | WEIGHT | |
|------------|------------|----------------|-----------------|-----------------|----------|-------|---------------------|------------|------|-------------------------|-------|-------------|------|--------|-----|
| | | | | in. | Nm | ft.lb | | mm | in. | mm | in. | mm | in. | kg | lb. |
| A | EMEL38-20J | 615 165 517 0 | 3/8 | 10-45 | 7.4-33.2 | 1092 | 50 | 2.0 | 43.2 | 1.7 | 140.5 | 5.5 | 3.0 | 6.6 | |
| A | EMEL51-20J | 615 165 518 0 | 1/2 | 30-135 | 22-99.5 | 403 | 50 | 2.0 | 51.2 | 2.0 | 166 | 6.5 | 4.0 | 8.8 | |
| B | EMEL60-20J | 615 165 519 0 | 3/4 | 50-175 | 37-129 | 481 | 50 | 2.0 | 60.2 | 2.4 | 178 | 7.0 | 6.0 | 13.2 | |
| B | EMEL60-30J | 615 165 520 0 | 3/4 | 70-250 | 52-184 | 312 | 50 | 2.0 | 60.2 | 2.4 | 178 | 7.0 | 6.0 | 13.2 | |
| C | EMEL80-40J | 615 165 521 0 | 1 | 220-800 | 162-590 | 91 | 60 | 2.4 | 80.2 | 3.2 | 241 | 9.5 | 11.0 | 24.2 | |

Fixtured electric spindles with Offset end - CVI II

4 to 850 Nm (2.9 to 626 ft.lb) - 89 to 1225 rpm



| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | ROTATIONAL SPEED | TELESCOPIC | | MIN. CENTRE DISTANCE | | LENGTH | | WEIGHT | |
|------------|---------------|----------------|-----------------|-----------------|----------|---------------------|------------|-----|-------------------------|------|--------|------|--------|------|
| | | | | in. | Nm | ft.lb | mm | in. | mm | in. | mm | in. | kg | lb. |
| A | EME24-20 OF | 615 165 512 0 | 3/8 | 4-20 | 2.9-14.7 | 1225 | 50 | 2.0 | 24 | 0.95 | 375.2 | 14.8 | 2.7 | 5.9 |
| A | EME26-50 OF | 615 165 513 0 | 3/8 | 7-50 | 5.2-36.8 | 985 | 50 | 2.0 | 26 | 1.02 | 387.5 | 15.2 | 2.7 | 5.9 |
| A | EME30-80 OF | 615 165 514 0 | 1/2 | 10-80 | 7.4-59.0 | 580 | 50 | 2.0 | 30 | 1.18 | 414.3 | 16.3 | 3.9 | 8.6 |
| A | EME36-140 OF | 615 165 515 0 | 1/2 | 19-140 | 14.0-103 | 375 | 50 | 2.0 | 36 | 1.42 | 454.4 | 17.7 | 4.7 | 10.4 |
| B | EME40-180 OF | 615 165 516 0 | 3/4 | 25-180 | 18.4-133 | 475 | 50 | 2.0 | 40 | 1.57 | 481.7 | 18.9 | 6.4 | 14.1 |
| • | EME44-350 OF* | 615 165 602 0 | 3/4 | 80-350 | 59-258 | 217 | 50 | 2.0 | 45 | 1.77 | 632.5 | 24.9 | 11.0 | 24.2 |
| • | EME54-600 OF* | 615 165 603 0 | 1 | 150-600 | 110-442 | 125 | 50 | 2.0 | 55 | 2.17 | 653.5 | 25.7 | 13.0 | 28.6 |
| • | EME60-850 OF* | 615 165 604 0 | 1 | 200-850 | 147-626 | 89 | 50 | 2.0 | 61 | 2.40 | 666.5 | 26.2 | 15.0 | 33.0 |

*For these models, please contact your local Desoutter sales engineer for more information.

Accessories

EME / EMEL

OPTIONAL ACCESSORIES

Transducer-holder from EME tool



PART NO.

- 3/8" square drive EME35/EME38 615 396 426 0
- 1/2" square drive EME51/EME60.10 615 396 427 0
- 3/4" square drive EME60.20/EME60.30 615 396 428 0
- 3/4" square drive EME80.10/EME80.20 615 396 429 0
- 1" square drive EME80.30/40/50 / EME106 615 396 430 0

EME adaptation on existing application (separated cable torque + motor cable)

PART NO.

- EME adaptation on old cable 615 917 539 0

Cable for EME tools



MODCVI

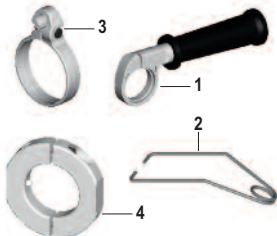
| Cable length: | 5m (16.4ft) | 10m (32.8ft) | 15m (49.2ft) | 20m (65.6ft) | 25m (82ft) | 30m (98.4ft) |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| • Tool cable | 615 917 552 0 | 615 917 554 0 | 615 917 555 0 | | | |
| • Extension cable | | 615 917 154 0 | 615 917 155 0 | 615 917 156 0 | 615 917 157 0 | 615 917 158 0 |

TWINCVI II

| Cable length: | 5m (16.4ft) | 10m (32.8ft) | 15m (49.2ft) | 20m (65.6ft) | 25m (82ft) | 30m (98.4ft) |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| • Tool cable | 615 917 541 0 | 615 917 542 0 | 615 917 543 0 | | | |
| • Extension cable | | 615 917 611 0 | 615 917 612 0 | 615 917 613 0 | 615 917 614 0 | 615 917 615 0 |

Accessories

ERP / ERAL / ERDL



| ACCESSORIES INCLUDED | | PART NO. | |
|----------------------|------------------------------------|----------|---------------|
| ITEM | | ERP | ERAL / ERDL |
| 1 | Side handle | 467033 | |
| 2 | Suspension bail | 467003 | |
| 3 | Horizontal Bail ERAL - ERDL1.5 / 2 | | 615 396 562 0 |
| 4 | Reaction bar ring ERDL1.5 / 2 | | 615 396 551 5 |
| 4 | Reaction bar ERDL4 | | 615 595 259 0 |
| 4 | Reaction bar ERDL6 | | 615 396 297 0 |
| 4 | Reaction bar ERAL6-350 / -480 | | 615 396 302 0 |



| OPTIONAL ACCESSORIES | | PART NO. |
|--|---------------|---------------|
| ITEM | ERP | ERAL / ERDL |
| 5 Long lever start (included with ERD5J) | | 615 396 584 0 |
| 6 2nd lever start ERALE-RD1.5 / 2 | | 615 396 553 0 |
| 7 High resistance side handle ERP | 615 397 012 0 | |
| 7 Side reaction handle ERALE-ERDL1.5 / ERDL2 | | 615 396 554 0 |
| 8 Suspension ring ERALE1.5-2 | | 615 571 063 0 |
| 8 Suspension ring ERALE4 | | 615 571 070 0 |
| 8 Suspension ring ERALE6 | | 615 571 064 0 |
| 9 Reaction bar ring for angle heads | | 615 396 622 0 |
| 9 Reaction bar ring ERALE4-90 to ERALE6-135 / 170 | | 615 396 227 0 |
| 9 Reaction bar ring ERALE4-225 / ERALE6-135 / 170 | | 615 396 230 0 |
| 10 Rotary connector 90° ER | | 615 396 299 0 |
| • Extension 200mm ERA(D)L1.5-2 | | 615 396 865 0 |
| • Extension 200mm ERA(D)L 4 | | 615 396 866 0 |
| 11 Mounting plate with telescopic spindle ERDL1.5 / ERDL2 | | 615 396 547 0 |
| 12 Plastic cover ERP.S | 615 573 074 0 | |
| 12 Plastic cover ERP.L | 615 573 075 0 | |
| 12 Plastic cover ERP.LT | 615 573 076 0 | |
| 13 Plastic cover AH1 for ERALE1.5-15 / 25 / ERALE2-30 / 40 | | 615 573 064 0 |
| 13 Plastic cover AH2 for ERALE2-60 | | 615 573 065 0 |
| 13 Plastic cover AH3 for ERALE2-80 | | 615 573 066 0 |
| 14 Plastic cover AH4 for ERALE4-90 / 110 / 120 | | 615 573 069 0 |
| 14 Plastic cover AH5 for ERALE4-140 / 170 / ERALE6-135 | | 615 573 070 0 |
| 14 Plastic cover AH6 for ERALE4-225 | | 615 573 071 0 |
| 15 Plastic cover for ERD1.5 / 2 | | 615 573 067 0 |

Cable for ERP / ERAL / ERDL



| Cable length: | 2.5m (8.2ft) | 5m (16ft) | 10m (32.8ft) | 15m (49.2ft) | 20m (65.6ft) | 25m (82ft) | 30m (98ft) |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| • Nutrunners cable | | 615 917 492 0 | 615 917 494 0 | 615 917 495 0 | | | |
| • Heavy duty nutrunner cable | 615 917 570 0 | 615 917 571 0 | 615 917 572 0 | | | | |
| • Heavy duty extension cable | | 615 917 083 0 | 615 917 084 0 | 615 917 085 0 | 615 917 086 0 | 615 917 087 0 | 615 917 088 0 |



Socket Tray

- Socket tray (sockets not included) 615 936 005 0

| Cable length: | 1m (3.3ft) | 5m (16ft) | 10m (32.8ft) | 15m (49.2ft) |
|--------------------------|---------------|---------------|---------------|---------------|
| • Cable for sockets tray | 615 917 241 0 | 615 917 242 0 | 615 917 244 0 | 615 917 245 0 |



Reporting Box

- Reporting Box 615 936 001 0

Networks



**Master your
production
process**

Desoutter CVI Communication protocols

Ethernet

Fieldbus

Description

- For data reporting
- Large amount data
- Star topology

- For production control
- Small amount of data
- Ring topology

- For data reporting
- For production control
- Star and/or ring topology

Applications

- Data storage / traceability
- Remote programming
- HMI screens

- Station or line control
- Data storage
- HMI screens

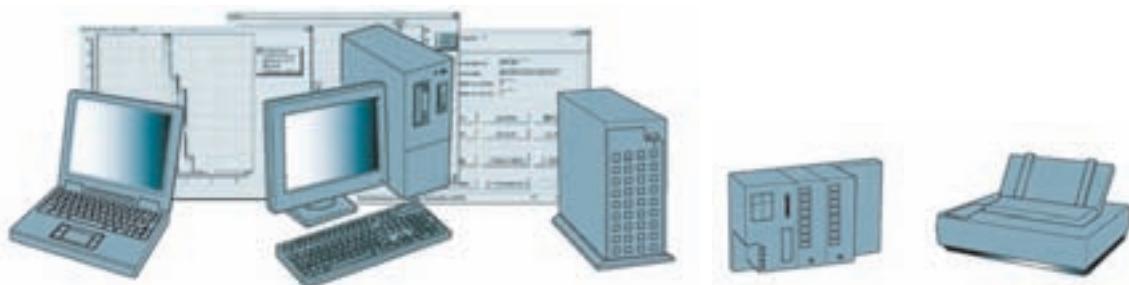
- Data storage
- Station or line control
- HMI screens

Desoutter

- CVINet, CVIPC2000
- CVI open protocol, DLL, API
- HMI screens

- Standard fieldbus modules
- ProfiBus, DeviceNet
- HMI screens

- Now available in CVI range
- Profinet, EtherNetIP
- Ability to use one drop for Ethernet and e.g EtherNetIP



Master your production process

- Production system
- Server
- PC
- PLC

Ethernet

Fieldbus

- CVIPC2000
- CVINet
- Open Protocol
- ToolsNet reporting
- IPM protocol
- Ford PPCS protocol
- GM protocol
- Chrysler PFCS
- LandRover protocol
- Volvo Station Controller
- Volvo MONT
- VW XML
- Etc ...

- ProfiBus DP
- DeviceNet
- ModBus/RTU
- CC-Link

- Profinet
- EtherNetIP
- ModBus/TCP



| MODEL | PART NUMBER |
|---|---------------|
| Reporting to TOOLSNET OPEN PROTOCOL 5 licences | 615 927 577 0 |
| Reporting to TOOLSNET OPEN PROTOCOL 10 licences | 615 927 578 0 |
| Reporting to TOOLSNET OPEN PROTOCOL 25 licences | 615 927 579 0 |
| Reporting to TOOLSNET OPEN PROTOCOL 50 licences | 615 927 580 0 |

| MODEL | PART NUMBER |
|---------------------------|---------------|
| OPEN PROTOCOL 5 licences | 615 927 581 0 |
| OPEN PROTOCOL 10 licences | 615 927 582 0 |
| OPEN PROTOCOL 25 licences | 615 927 583 0 |
| OPEN PROTOCOL 50 licences | 615 927 584 0 |

| TWINCVI II CVI II | KIT | PART NUMBER |
|---|-------------|----------------|
|  | PROFIBUS DP | 615 929 008 0 |
| | DEVICENET | 615 929 014 0 |
| | COMBOX | 615 929 029 0 |

| MODCVI | KIT | PART NUMBER |
|---|-------------|----------------|
|  | PROFIBUS DP | 615 929 009 0 |

| MODEL | PART NUMBER |
|------------------------------|----------------|
| Ethernet CVI KIT | 615 929 018 0 |
| Cable for TWINCVI controller | 615 917 409 0 |
| Smart Ethernet Interface* | 615 936 040 0 |

* for CVIS and CVIC only

CVIPC2000 software

Program Parameters and Monitor Data

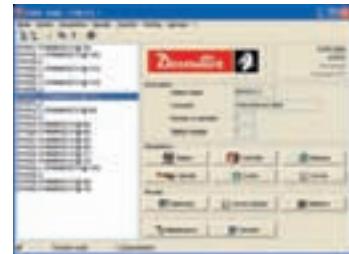


CVIPC2000 software (Windows compatible) is a user friendly tool able to program tightening cycles, collect and display results and curves from all Desoutter tightening controllers in real time.

The Advanced network version allows the connection of up to 32 controllers in RS422 mode and many more through an Ethernet link.

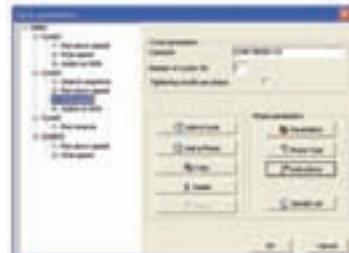
Real time control mode

- Display all stations connected
- Display and save results
- Display tightening reports
- Print results after each tightening or from date to date



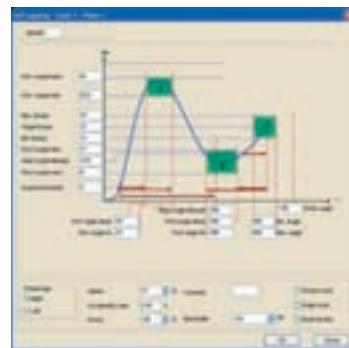
Displaying of all stations programmed
Access to main functions with soft key

Friendly Interface



Cycles and phases programming mode

Easy Control



From torque control up to yield point strategy

Complete Statistical Package

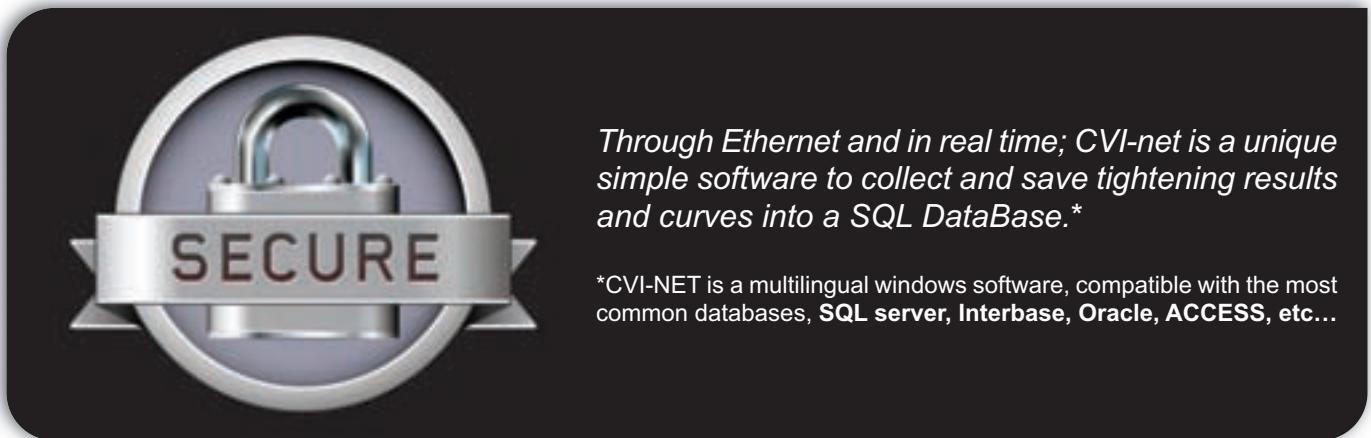


| MODEL | PART NUMBER |
|----------------------------|---------------|
| CVIS/CVIC PC2000 1 install | 615 927 521 0 |
| CVIS/CVIC PC2000 5 install | 615 927 534 0 |

| MODEL | PART NUMBER |
|--------------------------------|---------------|
| CVI PC2000 standard 1 install | 615 927 522 0 |
| CVI PC2000 standard 5 install | 615 927 526 0 |
| CVI PC2000 standard 25 install | 615 927 537 0 |

| MODEL | PART NUMBER |
|--------------------------------|---------------|
| CVI PC2000 advanced 1 install | 615 927 523 0 |
| CVI PC2000 advanced 5 install | 615 927 535 0 |
| CVI PC2000 advanced 25 install | 615 927 538 0 |

Secure Info into Databases



*Through Ethernet and in real time; CVI-net is a unique simple software to collect and save tightening results and curves into a SQL DataBase.**

*CVI-NET is a multilingual windows software, compatible with the most common databases, **SQL server, Interbase, Oracle, ACCESS, etc...**

CVI-NET software includes two applications software: CVI-Collector and CVI-Viewer.

CVI-Collector

- Single software installation on the main server
- Data collection linked to Identification Number as station number / part number / tools number/ a free field for special needs
- Auto uploading of missing data (FIFO inside controllers)
- Overview of all controllers connected

Easy Control

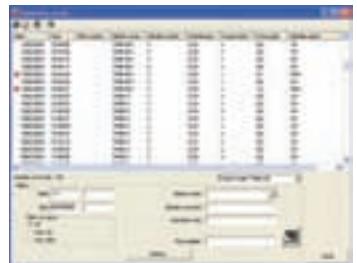


Ethernet connection manager

CVI-Viewer

- Multi-user installation
- View tightening results
- View tightening curves
- Customized report:
 - Date range filtering
 - Data linked to an Identification Number
- View of maintenance information

Friendly Interface



Filtering of results, per VIN number, per date, type of results, etc...

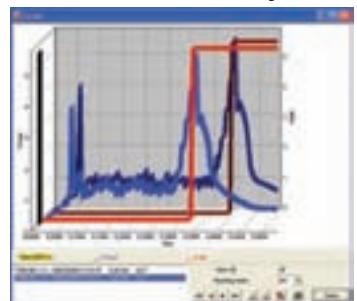
CVI-Net saves more than 40 parameters plus the results at the end of each tightening.

Real time quality control of the network

Alarm in case of disconnection and FIFO inside controllers.

Automatic uploading of missing data from controllers.

100% Traceability



3D Curves screen, display of one or several curves

Traceability

All results with Identification Number can be exported to another database for long time saving. The display of one or more curves allows you to analyse and make tightening comparisons.

Printing report

Printing of all tightening of a vehicle or a component by scanning the bar code number.



| MODEL | PART NUMBER |
|-------------------------|---------------|
| CVI-net 1 controller | 615 927 555 0 |
| CVI-net 10 controllers | 615 927 549 0 |
| CVI-net 25 controllers | 615 927 550 0 |
| CVI-net 50 controllers | 615 927 551 0 |
| CVI-net 200 controllers | 615 927 560 0 |



CVIC Range

Current controlled



Easy to integrate

Small size and smooth design.
Communicate with your existing network
via ethernet protocol.



Quality of tightening

Control torque and angle with multi phase strategies.
Get tightening reports, store results.



Advanced ergonomics

Maximize your operators' comfort with ergo stop.



Low life-cycle cost solution

Optimize your energy consumption.
Benefit from a low frequency maintenance & calibration.



Open to peripherals

Increase your assembly quality with barcode reader
and socket tray.
Control tightening order with our positioning system.

Technical features

CVIC Range

| MAIN FUNCTIONS | NORMAL | | ECP HIGH TORQUE | |
|---|----------------------------|----------------------------|--------------------|---------------|
| | L STANDARD | H ADVANCED | L STANDARD | H ADVANCED |
| Quick cycle with self-learning of the joint | ✓ | ✓ | | |
| Number of cycles in the controller | 1 | 15 | 1 | 15 |
| Number of phases | 15 | 15 | 15 | 15 |
| Batch count (999 OK reports) | ✓ | ✓ | ✓ | ✓ |
| TIGHTENING RESULTS | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Torque + Angle + Date + Time + Report | | | | |
| TYPES OF PHASES IN A CYCLE | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Search Sequence | ✓ | ✓ | | |
| Run Down speed | ✓ | ✓ | ✓ | ✓ |
| Final speed | ✓ | ✓ | ✓ | ✓ |
| Run reverse | ✓ | ✓ | | |
| Action or NOK | ✓ | ✓ | | |
| Prevailing torque monitoring | ✓ | ✓ | | |
| FINAL SPEED STRATEGIES | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Torque control + angle monitoring | ✓ | ✓ | ✓ | ✓ |
| Angle control + torque monitoring | ✓ | ✓ | ✓ | ✓ |
| DISPLAY AND PROGRAMMING | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Display | | | | |
| LCD display | ✓ | ✓ | ✓ | ✓ |
| Keyboard | | | | |
| 8 button keypad | ✓ | ✓ | ✓ | ✓ |
| Reports | | | | |
| LEDs | 6 | 6 | 6 | 6 |
| PC Software Windows | | | | |
| CVIPC2000*: program cycles, collect, display and save results, run statistics, curves | | | | |
| Connection 'point to point' (RS232) | ✓ | ✓ | ✓ | ✓ |
| Connection through ethernet | ✓ | ✓ | ✓ | ✓ |
| *All CVIPC2000 versions are compatible with CVICs | | | | |
| MAINTENANCE | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Access to all tool parameters (tool memory) | ✓ | ✓ | ✓ | ✓ |
| Autotest of the complete system | ✓ | ✓ | ✓ | ✓ |
| Spindle rotation test | ✓ | ✓ | ✓ | ✓ |
| Input/Output selection | ✓ | ✓ | ✓ | ✓ |
| Date of the last maintenance operation | ✓ | ✓ | ✓ | ✓ |
| Total and partial cycle counters | ✓ | ✓ | ✓ | ✓ |
| PERIPHERALS | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Input/Output | 8/8 | 8/8 | 8/8 | 8/8 |
| Serial port RS232 (PC transfer, Bar code, Report output) | ✓ | ✓ | ✓ | ✓ |
| Ethernet connection (CVIPC2000 / CVInet) | ✓ | ✓ | ✓ | ✓ |
| MODEL | CVIC II L-2 CVIC II L-4 | CVIC II H-2 CVIC II H-4 | CVIC II L-4 | CVIC II H-4 |
| CONTROLLER for low torque tools | CVIC II L-2 CVIC II L-4 | CVIC II H-2 CVIC II H-4 | CVIC II L-4 | CVIC II H-4 |
| MAINS SUPPLY | Up to 2 000 | Up to 2 000 | Up to 2 000 | Up to 2 000 |
| Single-phase, automatic switching 110V/230V | ✓ | ✓ | ✓ | ✓ |

Controllers

CVIC II



| MODEL | PART NUMBER | TOOLS | CONSUMPTION (current) | MAINS SUPPLY | WIDTH | DEPTH | HEIGHT | WEIGHT | | | | | |
|-------|-------------|-------|-----------------------|--------------|-------------|-------|--------|--------|-----|----|-----|----|-----|
| | | | 115V | 230V | 50/60 hertz | mm | in. | mm | in. | mm | in. | kg | lb. |

CVIC II CONTROLLERS

| | | | | | | | | | | | | | |
|-----------|---------------|--|----|----|--------------|-----|-----|-----|------|-----|------|---|----|
| CVICII-L2 | 615 932 676 0 | ECS / ECPL(T) / ECD5 / MC35-10 / ECA15 | 4A | 2A | Single-phase | 130 | 5.1 | 278 | 10.9 | 291 | 11.5 | 5 | 11 |
| CVICII-H2 | 615 932 677 0 | ECS / ECPL(T) / ECD5 / MC35-10 / ECA15 | 4A | 2A | 100 to 250 V | 130 | 5.1 | 278 | 10.9 | 291 | 11.5 | 5 | 11 |
| CVICII-L4 | 615 932 678 0 | Other tools | 8A | 4A | Single-phase | 130 | 5.1 | 278 | 10.9 | 291 | 11.5 | 5 | 11 |
| CVICII-H4 | 615 932 679 0 | Other tools | 8A | 4A | 100 to 250 V | 130 | 5.1 | 278 | 10.9 | 291 | 11.5 | 5 | 11 |

START-UP KIT to be ordered with the controller
Including: Power cable and plug

| PLUG | DESCRIPTION | PART NO. |
|------|-------------|---------------|
| A | UK | 615 917 202 0 |
| B | USA | 615 917 203 0 |
| C | European | 615 917 201 0 |

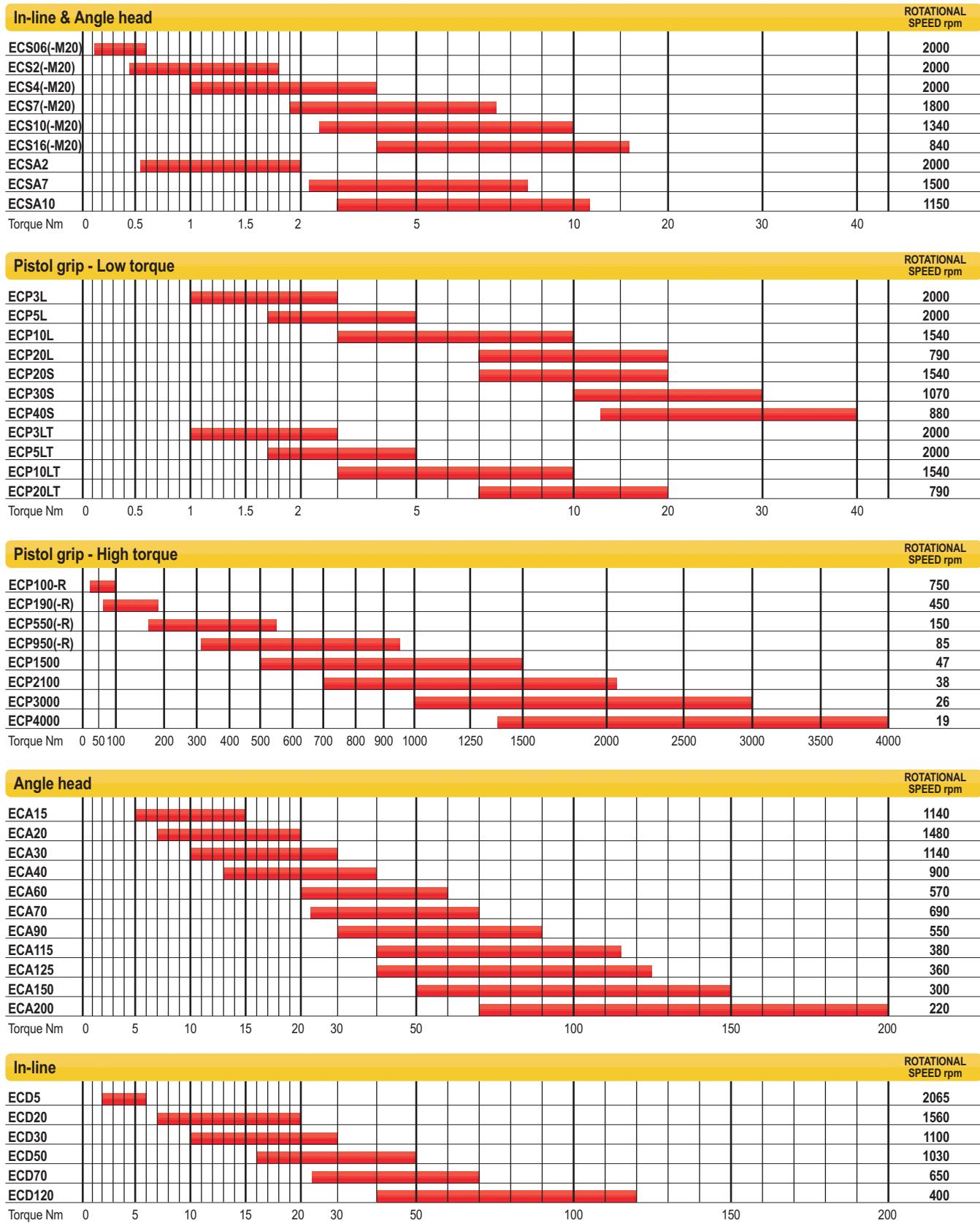


OPTIONAL ACCESSORIES

| PART NO. |
|---|
| • PC cable Length 2m (78.7") |
| • Printer cable Length 2m (78.7") |
| • CVIPC2000 for CVIS/CVIC 1 Installation |
| • CVIPC2000 for CVIS/CVIC 5 Installations |

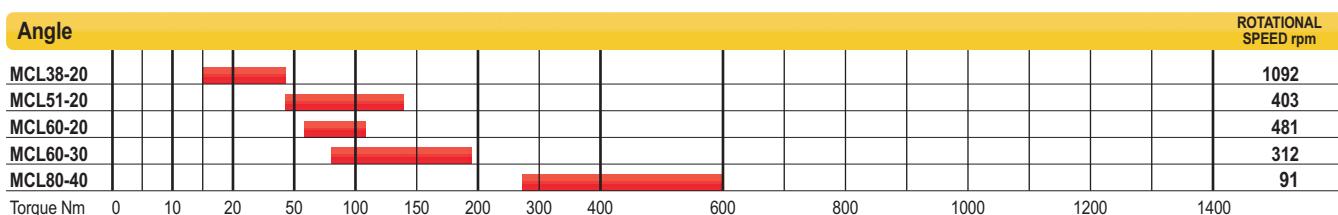
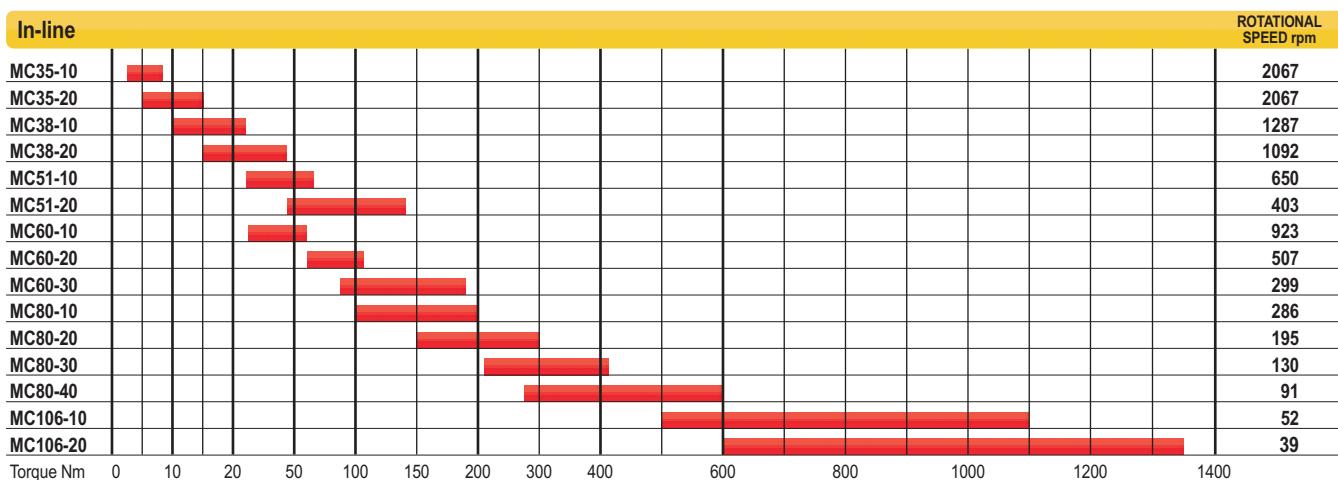
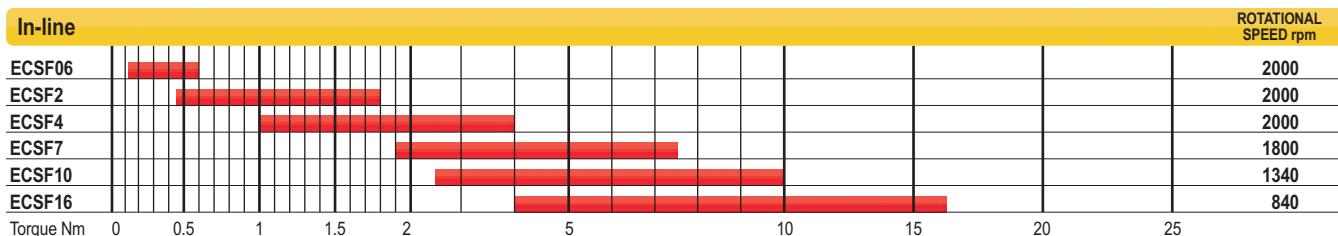
Torque Range

Performances of Portable electric nutrunners ECS, ECSA, ECP, ECA and ECD Series



Torque Range

Performances of Fixtured electric spindles ECSF, MC and MCL Series



Electric Screwdrivers - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm

The ECS series offers outstanding torque accuracy and operator ergonomics, making it the ideal choice for assembly operations that require a high level of quality



Improve your joint visibility



A



B

Adapt your tool with accessories



Get the best tightening feedback directly on the tool

Accessories: see page 50



| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | MIN. | TORQUE RANGE | MAX. MIN. | MAX. | ROTATIONAL SPEED | LENGTH | WEIGHT | | |
|---|-----------|---------------|--------------|------|--------------|-----------|-------|------------------|--------|--------|-----|-----|
| | | | in. | Nm | Nm | in.lb | in.lb | rpm | mm | in. | kg | lb. |
| ELECTRIC SCREWDRIVERS - IN-LINE | | | | | | | | | | | | |
| A | ECS06 | 615 165 442 0 | Hex. 1/4 F | 0.12 | 0.6 | 1.1 | 5.3 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECS2 | 615 165 443 0 | Hex. 1/4 F | 0.45 | 1.8 | 4.0 | 15.9 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECS4 | 615 165 445 0 | Hex. 1/4 F | 1.00 | 4.0 | 8.8 | 35.4 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECS7 | 615 165 446 0 | Hex. 1/4 F | 1.90 | 7.5 | 16.8 | 66.4 | 1800 | 285 | 11.2 | 0.7 | 1.5 |
| A | ECS10 | 615 165 444 0 | Hex. 1/4 F | 2.50 | 10.0 | 22.1 | 88.5 | 1340 | 285 | 11.2 | 0.7 | 1.5 |
| A | ECS16 | 615 165 459 0 | Hex. 1/4 F | 4.00 | 16.0 | 35.4 | 141.6 | 840 | 285 | 11.2 | 0.7 | 1.5 |
| ELECTRIC SCREWDRIVERS - IN-LINE | | | | | | | | | | | | |
| B | ECS06-M20 | 615 165 454 0 | Hex. 1/4 F | 0.12 | 0.6 | 1.1 | 5.3 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| B | ECS2-M20 | 615 165 455 0 | Hex. 1/4 F | 0.45 | 1.8 | 4.0 | 15.9 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| B | ECS4-M20 | 615 165 456 0 | Hex. 1/4 F | 1.00 | 4.0 | 8.8 | 35.4 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| B | ECS7-M20 | 615 165 457 0 | Hex. 1/4 F | 1.90 | 7.5 | 16.8 | 66.4 | 1800 | 285 | 11.2 | 0.7 | 1.5 |
| B | ECS10-M20 | 615 165 458 0 | Hex. 1/4 F | 2.50 | 10.0 | 22.1 | 88.5 | 1340 | 285 | 11.2 | 0.7 | 1.5 |
| B | ECS16-M20 | 615 165 460 0 | Hex. 1/4 F | 4.00 | 16.0 | 35.4 | 141.6 | 840 | 285 | 11.2 | 0.7 | 1.5 |
| ELECTRIC SCREWDRIVERS - ANGLE HEAD | | | | | | | | | | | | |
| C | ECSA2 | 615 165 447 0 | Hex. 1/4 F | 0.55 | 2.2 | 4.9 | 19.5 | 2000 | 329 | 12.9 | 0.6 | 1.3 |
| C | ECSA7 | 615 165 448 0 | Hex. 1/4 F | 2.20 | 8.5 | 19.5 | 75.2 | 1500 | 329 | 12.9 | 0.7 | 1.5 |
| C | ECSA10 | 615 165 449 0 | Hex. 1/4 F | 3.00 | 11.5 | 26.6 | 101.8 | 1150 | 329 | 12.9 | 0.7 | 1.5 |

Pistol grip electric nutrunners - CVIC

1 to 40 Nm (0.7 to 29.1 ft.lb) - 790 to 2000 rpm



Accessories: see page 50 ➤➤➤

| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | TORQUE RANGE | | | ROTATIONAL SPEED AT | | LENGTH | | WEIGHT | |
|---------|---------|---------------|--------------|--------------|---------|-------|---------------------|-----------|--------|-----|--------|-----|
| | | | | in. | Nm | ft.lb | rpm/230 V | rpm/110 V | mm | in. | kg | lb. |
| A | ECP3L | 615 165 199 0 | Hex 1/4 F | 1.0-3.0 | 0.7-2.2 | 2000 | 2000 | 196 | 7.7 | 1.0 | 2.2 | |
| A | ECP5L | 615 165 200 0 | Hex 1/4 F | 1.7-5.0 | 1.3-3.7 | 2000 | 1515 | 196 | 7.7 | 1.0 | 2.2 | |
| A | ECP10L | 615 165 201 0 | Hex 1/4 F | 3.0-10 | 2.2-7.4 | 1540 | 1000 | 196 | 7.7 | 1.1 | 2.4 | |
| A | ECP20L | 615 165 202 0 | Hex 1/4 F | 7.0-20 | 5.2-15 | 790 | 515 | 196 | 7.7 | 1.1 | 2.4 | |
| A | ECP20S | 615 165 203 0 | Hex 1/4 F | 7.0-20 | 5.2-15 | 1540 | 1000 | 221 | 8.7 | 1.2 | 2.6 | |
| B | ECP30S | 615 165 204 0 | Sq 3/8 | 10-30 | 7.4-22 | 1070 | 700 | 217 | 8.5 | 1.2 | 2.6 | |
| C | ECP40S | 615 165 262 0 | Sq 3/8 | 13-40 | 9.6-29 | 880 | 575 | 263 | 10.4 | 2.1 | 4.5 | |
| D | ECP3LT | 615 165 231 0 | Hex 1/4 F | 1.0-3 | 0.7-2.2 | 2000 | 2000 | 196 | 7.7 | 1.0 | 2.2 | |
| D | ECP5LT | 615 165 232 0 | Hex 1/4 F | 1.7-5 | 1.3-3.7 | 2000 | 1960 | 196 | 7.7 | 1.0 | 2.2 | |
| D | ECP10LT | 615 165 233 0 | Hex 1/4 F | 3.0-10 | 2.2-7.4 | 1540 | 1515 | 196 | 7.7 | 1.1 | 2.4 | |
| D | ECP20LT | 615 165 234 0 | Hex 1/4 F | 7.0-20 | 5.2-15 | 790 | 515 | 196 | 7.7 | 1.1 | 2.4 | |

Electric High Torque Pistol Grip - CVIC

30 to 4000 Nm (22 to 2950 ft.lb) - 19 to 750 rpm



For your quality-critical applications

Impact and impulse tools have been a production favourite for many years.

This innovative electric pistol tool allows you to have total quality control without sacrificing productivity.

Offering all benefits of Electric Brushless Tools

Maintenance free motor

Less than 70 dB(A)

Environment friendly (no air, no oil)

Repeatability and no need to re-torque

One Tool = up to 15 different torque settings

| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | MIN. | TORQUE RANGE MAX. | MIN. | MAX. | ROTATIONAL SPEED | LENGTH | WEIGHT | | |
|-----------------------|----------|---------------|--------------|------|-------------------|-------|-------|------------------|--------|--------|------|------|
| | | | in. | Nm | Nm | ft.lb | ft.lb | rpm | mm | in. | kg | lb. |
| NON REVERSIBLE | | | | | | | | | | | | |
| A | ECP190 | 615 165 399 0 | 1/2 | 60 | 190 | 44 | 140 | 450 | 314 | 12.4 | 3.0 | 6.6 |
| A | ECP550 | 615 165 400 0 | 3/4 | 175 | 550 | 129 | 405 | 150 | 351 | 13.8 | 3.7 | 8.1 |
| A | ECP950 | 615 165 401 0 | 1 | 310 | 950 | 228 | 700 | 85 | 379 | 14.9 | 4.0 | 8.8 |
| B | ECP1500 | 615 165 524 0 | 1 | 500 | 1500 | 368 | 1105 | 47 | 413 | 16.3 | 6.9 | 15.2 |
| C | ECP2100 | 615 165 525 0 | 1 1/2 | 700 | 2100 | 516 | 1548 | 38 | 485 | 19.1 | 14.2 | 31.3 |
| C | ECP3000 | 615 165 526 0 | 1 1/2 | 1000 | 3000 | 737 | 2212 | 26 | 485 | 19.1 | 14.2 | 31.3 |
| C | ECP4000 | 615 165 527 0 | 1 1/2 | 1330 | 4000 | 980 | 2950 | 19 | 485 | 19.1 | 14.2 | 31.3 |
| REVERSIBLE | | | | | | | | | | | | |
| D | ECP100-R | 615 165 523 0 | 1/2 | 30 | 100 | 22 | 73 | 750 | 328 | 12.9 | 3.4 | 7.5 |
| D | ECP190-R | 615 165 451 0 | 1/2 | 60 | 190 | 44 | 140 | 450 | 328 | 12.9 | 3.4 | 7.5 |
| D | ECP550-R | 615 165 452 0 | 3/4 | 175 | 550 | 129 | 405 | 150 | 365 | 14.4 | 4.3 | 9.5 |
| D | ECP950-R | 615 165 453 0 | 1 | 310 | 950 | 228 | 700 | 85 | 395 | 15.6 | 4.6 | 10.2 |

Electric High Torque Pistol Grip - CVIC



For item 7 - ECP950 with extended reaction arm please contact your local Desoutter sales engineer.



OPTIONAL ACCESSORIES

| | 1 STRAIGHT REACTION BAR | 2 BLANK REACTION BAR | 3 S TYPE REACTION BAR | 4 SLIDING DRIVE REACTION BAR | 5 SUSPENSION BAIL | 6 PROTECTION SLEEVE |
|------------------------------|-------------------------------|----------------------------|-----------------------------|------------------------------------|-------------------------|---------------------------|
| ECP100-R / ECP190 / ECP190-R | 615 596 009 5 | 615 596 010 0 | 615 596 011 0 | N/A | 615 571 072 0 | 615 573 131 5 |
| ECP550 / ECP550-R | 615 596 012 5 | 615 596 013 0 | 615 596 015 0 | 615 596 014 0 | 615 571 072 0 | 615 573 131 5 |
| ECP950 / ECP950-R | 615 596 016 5 | 615 596 017 0 | 615 596 019 0 | 615 596 018 0 | 615 571 072 0 | 615 573 131 5 |
| ECP1500 | 615 596 109 5 | 615 596 110 0 | 615 596 112 0 | 615 596 111 0 | 615 571 072 0 | 615 573 131 5 |
| ECP2100 / ECP3000 / ECP4000 | N/A | INCLUDED | N/A | N/A | N/A | 615 573 131 5 |

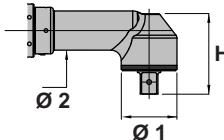


Angle head electric nutrunners - CVIC

5 to 200 Nm (3.7 to 147.5 ft.lb) - 200 to 1480 rpm



| MODEL | H mm | H in. | Ø1 mm | Ø1 in. | Ø2 mm | Ø2 in. |
|-----------------------|---------|----------|----------|-----------|----------|-----------|
| ECA15 | 45.5 | 1.8 | 28 | 1.10 | 27.0 | 1.06 |
| ECA20 - ECA30 | 45.5 | 1.8 | 28 | 1.10 | 27.0 | 1.06 |
| ECA40 | 51.5 | 2.0 | 35 | 1.40 | 27.0 | 1.06 |
| ECA60 | 57.5 | 2.3 | 40 | 1.60 | 30.5 | 1.20 |
| ECA70- ECA90 - ECA115 | 66.0 | 2.6 | 45 | 1.77 | 37.0 | 1.46 |
| ECA125 - ECA150 | 69.0 | 2.7 | 50 | 1.97 | 42.0 | 1.65 |
| ECA200 | 86.0 | 3.4 | 60 | 2.36 | 42.0 | 1.65 |



Accessories: see page 50



| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | | ROTATIONAL SPEED AT | | LENGTH | | WEIGHT | |
|------------|--------|----------------|-----------------|-----------------|--------|----------|------------------------|-----------|--------|------|--------|-----|
| | | | | in. | Nm | ft.lb | rpm/230 V | rpm/110 V | mm | in. | kg | lb. |
| A | ECA15 | 615 165 192 0 | 3/8 | | 5-15 | 3.7-11 | 1140 | 855 | 406 | 16.0 | 1.3 | 2.9 |
| A | ECA20 | 615 165 100 0 | 3/8 | | 7-20 | 5.2-15 | 1480 | 1110 | 431 | 16.9 | 1.7 | 3.7 |
| A | ECA30 | 615 165 101 0 | 3/8 | | 10-30 | 7.4-22 | 1140 | 855 | 431 | 16.9 | 1.7 | 3.7 |
| B | ECA40 | 615 165 102 0 | 3/8 | | 13-40 | 9.6-29 | 900 | 675 | 441 | 17.4 | 1.8 | 4.0 |
| B | ECA60 | 615 165 103 0 | 3/8 | | 20-60 | 14.7-44 | 570 | 427 | 453 | 17.8 | 1.9 | 4.2 |
| C | ECA70 | 615 165 104 0 | 1/2 | | 23-70 | 16.9-52 | 690 | 517 | 538 | 21.2 | 3.3 | 7.3 |
| C | ECA90 | 615 165 105 0 | 1/2 | | 30-90 | 22.1-66 | 550 | 412 | 538 | 21.2 | 3.3 | 7.3 |
| C | ECA115 | 615 165 106 0 | 1/2 | | 39-115 | 28.7-85 | 380 | 285 | 538 | 21.2 | 3.3 | 7.3 |
| C | ECA125 | 615 165 188 0 | 1/2 | | 40-125 | 29.5-92 | 360 | 270 | 541 | 21.3 | 3.6 | 7.9 |
| C | ECA150 | 615 165 189 0 | 1/2 | | 50-150 | 36.8-111 | 300 | 225 | 541 | 21.3 | 3.6 | 7.9 |
| D | ECA200 | 615 165 190 0 | 3/4 | | 70-200 | 51.6-147 | 200 | 165 | 591 | 23.3 | 3.8 | 8.4 |

In-line electric Nutrunners - CVIC

2 to 120 Nm (1.5 to 88.5 ft.lb) - 400 to 2065 rpm



A



B



C

Accessories: see page 50

| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | TORQUE RANGE | | ROTATIONAL SPEED AT | | LENGTH | | WEIGHT | |
|---------|--------|---------------|--------------|--------------|---------|---------------------|-----------|--------|------|--------|-----|
| | | | in. | Nm | ft.lb | rpm/230 V | rpm/110 V | mm | in. | kg | lb. |
| A | ECD5 | 615 165 068 0 | Hex. 1/4 | 2-6 | 1.5-4.4 | 2065 | 1548 | 346 | 13.6 | 1.0 | 2.4 |
| B | ECD20 | 615 165 093 0 | Hex. 1/4 | 7-20 | 5.2-15 | 1560 | 1170 | 388 | 15.3 | 1.5 | 3.3 |
| B | ECD30 | 615 165 094 0 | Sq 3/8 | 10-30 | 7.4-22 | 1100 | 825 | 380 | 15.0 | 1.5 | 3.3 |
| C | ECD50 | 615 165 095 0 | Sq 3/8 | 16-50 | 11.8-37 | 1030 | 300 | 456 | 17.9 | 2.6 | 5.7 |
| C | ECD70 | 615 165 096 0 | Sq 1/2 | 23-70 | 16.9-52 | 650 | 487 | 461 | 18.1 | 2.6 | 5.7 |
| C | ECD120 | 615 165 097 0 | Sq 1/2 | 40-120 | 29.5-88 | 400 | 772 | 488 | 19.2 | 3.1 | 6.8 |

Fixtured electric spindles - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm



A



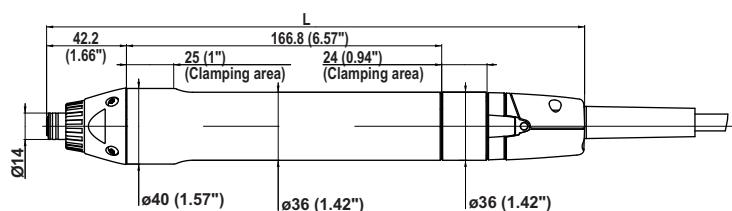
*Offset head for application with close centers
(minimum 19mm)*



Automatically adjust the stroke for multispindle applications with spring loaded shafts



*Mount your spindle easily on a support
using the adapted flange*



Accessories: see page 50



| PIC REF | MODEL | PART NUMBER | OUTPUT DRIVE | TORQUE RANGE | | ROTATIONAL SPEED | LENGTH L | | WEIGHT | |
|---------|--------|---------------|--------------|--------------|------------|------------------|----------|------|--------|-----|
| | | | in. | Nm | in.lb | rpm | mm | in. | kg | lb. |
| A | ECSF06 | 615 165 501 0 | Hex. 1/4 F | 0.12-0.6 | 1.1-5.3 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECSF2 | 615 165 502 0 | Hex. 1/4 F | 0.45-1.8 | 4.0-15.9 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECSF4 | 615 165 503 0 | Hex. 1/4 F | 1.0-4.0 | 8.8-35.4 | 2000 | 285 | 11.2 | 0.6 | 1.3 |
| A | ECSF7 | 615 165 504 0 | Hex. 1/4 F | 1.9-7.5 | 16.8-66.4 | 1800 | 285 | 11.2 | 0.7 | 1.5 |
| A | ECSF10 | 615 165 505 0 | Hex. 1/4 F | 2.5-10 | 22.1-88.5 | 1340 | 285 | 11.2 | 0.7 | 1.5 |
| A | ECSF16 | 615 165 506 0 | Hex. 1/4 F | 4.0-16 | 35.4-141.6 | 840 | 285 | 11.2 | 0.7 | 1.5 |

Fixtured electric spindles - CVIC

2.5 to 1350 Nm (1.8 to 995 ft.lb) - 39 to 2067 rpm



Accessories: see page 51 ➤➤➤

For MC.. tools with Offset heads, please contact your local Desoutter sales engineer for more information.

| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | ROTATIONAL SPEED AT | | TELESCOPIC | | MIN. CENTRE DISTANCE | | LENGTH | | WEIGHT | |
|---------|----------|---------------|--------------|--------------|---------|---------------------|-----------|------------|------|----------------------|-----|--------|------|--------|------|
| | | | in. | Nm | ft.lb | rpm/230 V | rpm/110 V | mm | in. | mm | in. | mm | in. | kg | lb. |
| A | MC35-10 | 615 165 107 0 | 3/8 | 2.5-8 | 1.8-5.9 | 2067 | 1344 | 50 | 1.97 | 43.2 | 1.7 | 276 | 10.9 | 1.7 | 3.7 |
| A | MC35-20 | 615 165 108 0 | 3/8 | 5-15 | 3.7-11 | 2067 | 1344 | 50 | 1.97 | 43.2 | 1.7 | 301 | 11.8 | 2.0 | 4.4 |
| A | MC38-10 | 615 165 109 0 | 3/8 | 10-30 | 7.4-22 | 1287 | 837 | 50 | 1.97 | 43.2 | 1.7 | 347 | 13.7 | 2.0 | 4.4 |
| A | MC38-20 | 615 165 110 0 | 3/8 | 15-45 | 11-33 | 1092 | 710 | 50 | 1.97 | 43.2 | 1.7 | 347 | 13.7 | 2.0 | 4.4 |
| B | MC51-10 | 615 165 111 0 | 1/2 | 25-70 | 18-52 | 650 | 423 | 50 | 1.97 | 51.2 | 2.0 | 366 | 14.4 | 2.9 | 6.4 |
| B | MC51-20 | 615 165 112 0 | 1/2 | 45-135 | 33-99 | 403 | 262 | 50 | 1.97 | 51.2 | 2.0 | 393 | 15.4 | 3.5 | 7.7 |
| B | MC60-10 | 615 165 113 0 | 1/2 | 30-60 | 22-44 | 923 | 600 | 50 | 1.97 | 60.2 | 2.4 | 417 | 16.4 | 4.8 | 10.6 |
| B | MC60-20 | 615 165 114 0 | 3/4 | 60-110 | 44-81 | 507 | 330 | 50 | 1.97 | 60.2 | 2.4 | 417 | 16.4 | 4.8 | 10.6 |
| B | MC60-30 | 615 165 115 0 | 3/4 | 80-190 | 59-140 | 299 | 195 | 50 | 1.97 | 60.2 | 2.4 | 453 | 17.8 | 5.2 | 11.5 |
| C | MC80-10 | 615 165 116 0 | 3/4 | 100-195 | 74-144 | 286 | 186 | 60 | 2.36 | 80.2 | 3.2 | 480 | 18.9 | 9.8 | 21.6 |
| C | MC80-20 | 615 165 117 0 | 3/4 | 150-300 | 110-221 | 195 | 127 | 60 | 2.36 | 80.2 | 3.2 | 480 | 18.9 | 9.8 | 21.6 |
| C | MC80-30 | 615 165 118 0 | 1 | 220-420 | 162-309 | 130 | 85 | 60 | 2.36 | 80.2 | 3.2 | 480 | 18.9 | 9.8 | 21.6 |
| C | MC80-40 | 615 165 119 0 | 1 | 270-550 | 199-405 | 91 | 59 | 60 | 2.36 | 80.2 | 3.2 | 480 | 18.9 | 9.8 | 21.6 |
| D | MC106-10 | 615 165 120 0 | 1 | 500-1100 | 368-811 | 52 | 34 | 60 | 2.36 | 106.2 | 4.2 | 556 | 21.9 | 15.0 | 33.1 |
| D | MC106-20 | 615 165 121 0 | 1 | 600-1350 | 442-995 | 39 | 25 | 60 | 2.36 | 106.2 | 4.2 | 556 | 21.9 | 15.0 | 33.1 |

Fixtured electric spindles - CVIC

15 to 550 Nm (11 to 405 ft.lb) - 91 to 1092 rpm



Accessories: see page 51 ➤➤➤

| PIC REF | MODEL | PART NUMBER | SQUARE DRIVE | TORQUE RANGE | | ROTATIONAL SPEED AT | | TELESCOPIC | | MIN. CENTRE DISTANCE | | LENGTH L | | WEIGHT | |
|---------|----------|---------------|--------------|--------------|---------|---------------------|-----------|------------|------|----------------------|-----|----------|-----|--------|------|
| | | | in. | Nm | ft.lb | rpm/230 V | rpm/110 V | mm | in. | mm | in. | mm | in. | kg | lb. |
| A | MCL38-20 | 615 165 124 0 | 3/8 | 15-45 | 11-33 | 1092 | 710 | 50 | 1.97 | 43.2 | 1.7 | 140.5 | 5.5 | 3 | 6.6 |
| B | MCL51-20 | 615 165 125 0 | 1/2 | 45-135 | 33-99 | 403 | 262 | 50 | 1.97 | 51.2 | 2.0 | 166.0 | 6.5 | 4 | 8.8 |
| B | MCL60-20 | 615 165 126 0 | 3/4 | 60-110 | 44-81 | 481 | 313 | 50 | 1.97 | 60.2 | 2.4 | 178.0 | 7.0 | 6 | 13.2 |
| B | MCL60-30 | 615 165 127 0 | 3/4 | 80-190 | 59-140 | 312 | 203 | 50 | 1.97 | 60.2 | 2.4 | 178.0 | 7.0 | 6 | 13.2 |
| C | MCL80-40 | 615 165 128 0 | 1 | 270-550 | 199-405 | 91 | 59 | 60 | 2.40 | 80.2 | 3.2 | 241.0 | 9.5 | 11 | 24.2 |

Posco 500 Positioning System

Cost effective error proofing

Comprised of a control unit and encoder equipped tool stand, the Posco 500 system ensures that operators perform tightening operations in the right sequence at the right torque, with the right tool in the right position.



Increased operator versatility

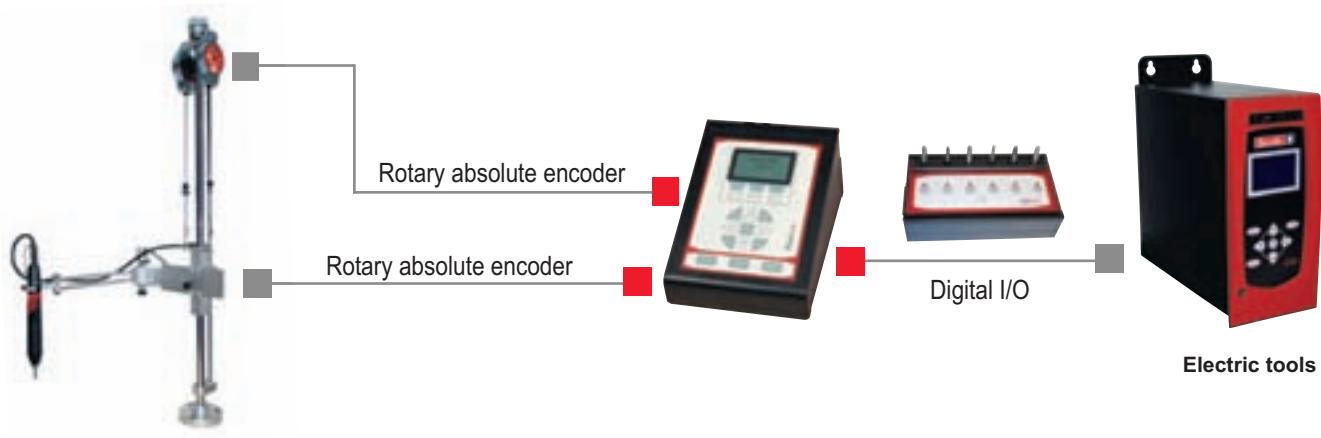
Because it guides the operator step by step, it reduces the amount of training each operator requires and allows operators to move between operations without impacting the level of quality.

Flexibility and control

Used in conjunction with an encoder equipped tool stand, the system ensures that the tool is positioned properly during the operation. The ability to use digital input and output signals will confirm to your PLC that the job is done.

Easy programming

The Posco 500 system lets you program a sequence of operations by "self learning mode" and ensures that the steps are completed in the right order and in the right conditions.



Tool stand with X/Y encoders
with an x/y-axis as an option

| TOOL STANDS | PART NO. |
|-------------|---------------|
| D53-20S X/Y | 615 397 018 0 |
| D53-20 X/Y | 615 396 933 0 |
| D53-20 X | 615 396 931 0 |
| D53-20 Y | 615 396 932 0 |
| D53-70 X/Y | 615 396 936 0 |
| D53-70 X | 615 396 934 0 |
| D53-70 Y | 615 396 935 0 |

| TOOL HOLDERS Up to 20Nm | PART NO. |
|-----------------------------------|---------------|
| Tool holder Ø25-41mm (1-1.6") | 615 396 616 0 |
| Tool holder Ø40-50mm (1.57-1.97") | 615 396 628 0 |

| CABLES | PART NO. |
|----------------------------|---------------|
| Cable Posco 500 / Bit-Tray | 615 917 533 0 |
| Cable Posco 500 / I-O CVI | 615 917 534 0 |
| Cable Y RS232 | 615 917 536 0 |

| LICENCES | PART NO. |
|------------------------------|---------------|
| Barcode license | 615 927 571 0 |
| Advanced programming license | 615 927 572 0 |
| PC connection - 1 licence | 615 927 573 0 |
| PC connection - 5 licences | 615 927 574 0 |
| PC connection - 10 licences | 615 927 575 0 |
| FAS support license | 615 936 048 0 |

| POSCO 500 | PART NO. |
|--|---------------|
| Posco 500 controller desk | 615 932 656 0 |
| Posco 500 controller desk with I/O ext | 615 932 658 0 |
| Posco 500 controller wall with I/O ext | 615 932 659 0 |

| OTHERS | PART NO. |
|-------------------------------|---------------|
| Bit-Tray module | 615 929 025 0 |
| Mounting SET | 615 930 777 0 |
| AC/DC adapter 90-260V/24V 30W | 615 936 047 0 |
| I/O add-on board | 615 929 026 0 |

Accessories

ECS / ECP / ECA / ECD



ACCESSORIES INCLUDED

| ITEM | PART NO. |
|--|---------------|
| 1 Side handle for ECP L/S/LT versions | 467033 |
| 2 Fixed suspension bail for ECP.LT | 467003 |
| 2 Fixed suspension bail for ECS | 205 049 537 3 |
| 3 Stationary suspension bail for ECA15/20/30/40/60 / ECD | 615 571 056 0 |
| 3 Stationary suspension bail for ECA90/115/125/150/200 | 615 571 050 0 |
| • Socket ball retainer 3/8" for ECA15/20/30/40/60 | 615 770 028 0 |
| 4 Reaction bar for ECD20/30 | 615 396 191 0 |
| 4 Reaction bar for ECD50/70/120 | 615 595 259 0 |
| 5 Long lever start for ECD5 | 615 396 584 0 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|---------------|
| 6 Reaction handle for ECS | 615 397 016 0 |
| 7 High resistance Side handle for ECP L/S/LT versions | 615 397 012 0 |
| 8 Rotary right angle tool connector for EC | 615 396 300 0 |
| 3 Stationary suspension bail for ECSA | 615 571 080 0 |
| • Suspension bail on a swivel for ECP L/S | 615 396 121 0 |
| 9 Suspension bail on a swivel for ECP HT | 615 571 072 0 |
| 10 Suspension bail on a swivel for ECA20/30/40/60 / ECD5/20/30 | 615 396 228 0 |
| 10 Suspension bail on a swivel for ECA70/90/115/125/150/200 / ECD506 | 615 396 229 0 |
| • Top cable length 4m for ECP.LT | 615 917 420 0 |
| • Reaction bar ring for ECD20/30 | 615 396 191 0 |
| 11 Reaction bar ring for ECA60 | 615 396 226 0 |
| 11 Reaction bar ring for ECA70/90/115/125/150 | 615 396 227 0 |
| • Reaction bar ring for ECA200 | 615 396 230 0 |
| 12 Long lever start for ECA / ECD | 615 396 584 0 |
| • Tool clamp for ECD5 | 615 396 616 0 |
| • Tool clamp for ECS | 615 396 616 0 |
| 13 Protection sleeve for ECP HT | 615 573 131 5 |

Spring Loaded Shafts and Bearings Support for ECS-M20/ECSF

| | |
|--|--------|
| 14 Bit Adaptor | 103782 |
| 15 Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive | 108352 |
| 16 Shaft Support and Nose Mount | 108412 |

Nose Mounts for ECS-M20/ECSF

| | |
|---------------|---------------|
| 17 Nose Mount | 205 052 876 3 |
| 18 Flange | 205 052 875 3 |

Offset Head and Spring Loaded Shaft for ECS-M20/ECSF

| | |
|--|--------|
| 15 Spring loaded shaft 25mm (1") stroke, 3/8" square drive | 108352 |
| 19 Offset Head, Offset 30mm (1.18") | 384993 |

Screwdriver Bit Adaptor for ECS/ECSA/ECS-M20/ECSF

| | |
|--|--------|
| 20 3/8" Square to 1/4" Hex Power Adaptor | 108322 |
|--|--------|

Accessories

ECS / ECP / ECA / ECD



Cable for ECP / ECA / ECD

| Cable length: | 3m (9.8ft) | 5m (16ft) | 10m (32.8ft) | 15m (49.2ft) | 20m (65.6ft) | 25m (82ft) | 30m (98ft) |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| • Nutrunners cable | 615 917 461 0 | 615 917 462 0 | 615 917 464 0 | 615 917 465 0 | | | |
| • Extension cable for ECS also | 615 917 222 0 | 615 917 224 0 | 615 917 225 0 | 615 917 226 0 | 615 917 227 0 | 615 917 228 0 | |

Sockets Tray & Bits Tray

- Socket tray (sockets not supplied) 615 936 005 0
- Bit tray (bits not included) 615 929 025 0



| Cable length: | 1m (3.3ft) | 2m (6.4ft) | 5m (16ft) | 10m (32.8ft) | 15m (49.2ft) |
|-------------------------|---------------|---------------|---------------|---------------|---------------|
| • Cable for socket tray | 615 917 241 0 | | 615 917 242 0 | 615 917 244 0 | 615 917 245 0 |
| • Cable for bit tray | | 615 917 535 0 | | | |

Reporting Box

- Reporting Box 615 936 001 0

MC / MCL

OPTIONAL ACCESSORIES

PART NO.

- | | |
|---|---------------|
| • Motor/In-line connector assembly kit for MC35-10 to MC51-20 / MCL38-20/MCL51-20 | 615 396 198 0 |
| • Motor/In-line connector assembly kit for MC60-10 to MC106-20 / MCL60-20/30/MCL80-40 | 615 396 199 0 |

Transducer-holder from MC tool



- | | |
|-------------------------------------|---------------|
| • 3/8" square drive MC35/MC38 | 615 396 426 0 |
| • 1/2" square drive MC51/MC60.10 | 615 396 427 0 |
| • 3/4" square drive MC60.20/MC60.30 | 615 396 428 0 |
| • 3/4" square drive MC80.10/MC80.20 | 615 396 429 0 |
| • 1" square drive MC80.30/40/MC106 | 615 396 430 0 |

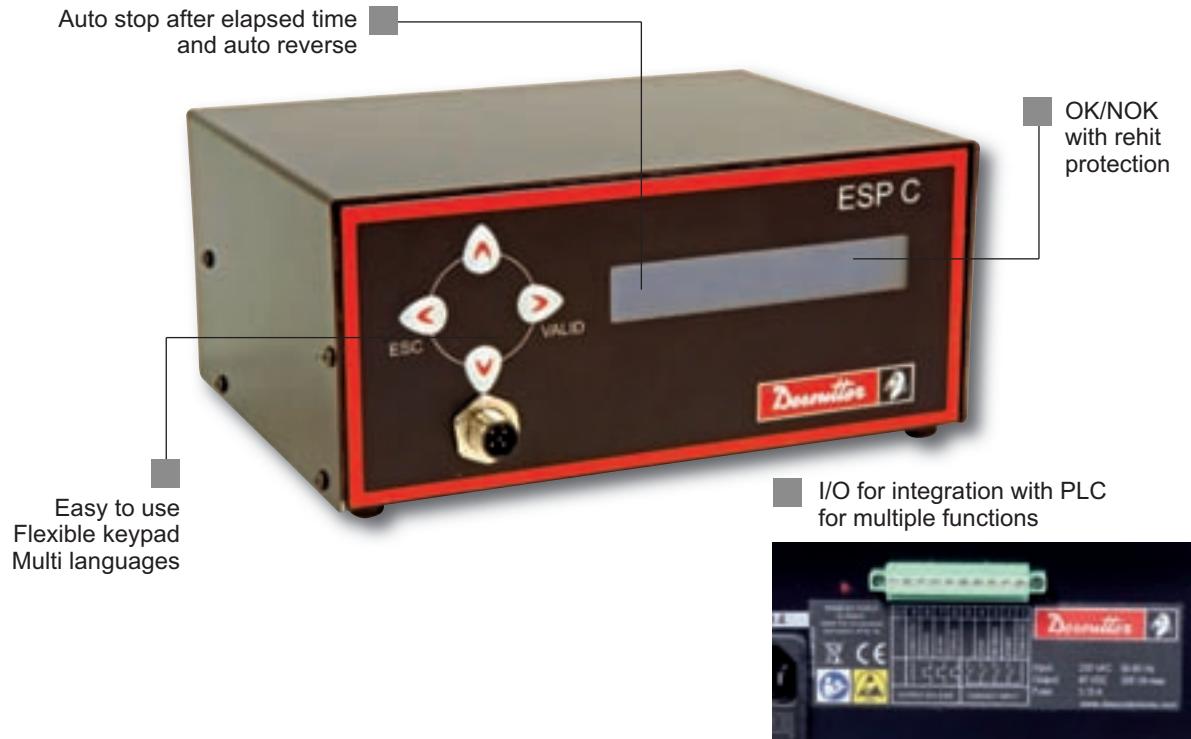
Cable for MC & MCL tools



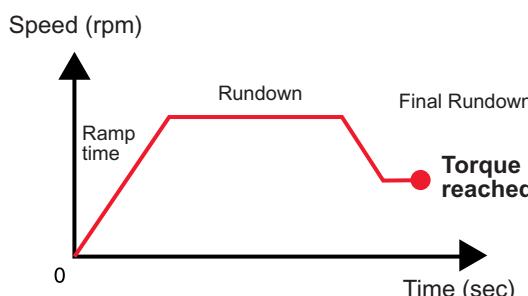
| Cable length: | 5m (16ft) | 10m (32.8ft) | 15m (49.2ft) | 20m (65.6ft) | 25m (82ft) | 30m (98ft) |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| • Tool cable | 615 917 232 0 | 615 917 234 0 | 615 917 235 0 | 615 917 236 0 | 615 917 237 0 | 615 917 238 0 |
| • Tool extension cable | 615 917 222 0 | 615 917 224 0 | 615 917 225 0 | 615 917 226 0 | | |

ESP C

Total and flexible control



Speed control at all steps of operation: start, rundown and final phase



| | |
|-------------------|--|
| Parameters | Torque adjustment, Ramp time adjustment, rundown speed, rundown and final time in hard joint, automatic reverse, rehit protection, timeout, language selection (FR, EN, D, P, ESP and I) |
| Outputs | Torque reached, Tool in cycle, Error signal |
| Inputs | External start, external reverse and external stop |

| MODEL | PART NUMBER | TORQUE RANGE | | SUPPLY VOLTAGE | WIDTH | | DIMENSIONS | | WEIGHT | |
|----------------|---------------|--------------|-----------|----------------|-------|-----|------------|-----|--------|-----|
| | | Nm | In.lb | | mm | in. | mm | in. | mm | in. |
| ESP C 220 V | 615 165 480 0 | 0.5-15 | 4.4-132.7 | AC 230 50Hz | 195 | 7.7 | 89 | 3.5 | 154 | 6.0 |
| ESP C 110 V | 615 165 484 0 | 0.5-15 | 4.4-132.7 | AC120 60Hz | 195 | 7.7 | 89 | 3.5 | 154 | 6.0 |
| ESP C LT 220 V | 615 165 481 0 | 0.5-7.0 | 4.4-61.9 | AC230 50Hz | 195 | 7.7 | 89 | 3.5 | 154 | 6.0 |
| ESP C LT 110 V | 615 165 485 0 | 0.5-7.0 | 4.4-61.9 | AC120 60Hz | 195 | 7.7 | 89 | 3.5 | 154 | 6.0 |

START-UP KIT to be ordered with the controller
Including: Power cable and plug

| PLUG | DESCRIPTION | PART NO. |
|------|-------------|---------------|
| A | UK | 615 917 202 0 |
| B | USA | 615 917 203 0 |
| C | European | 615 917 201 0 |



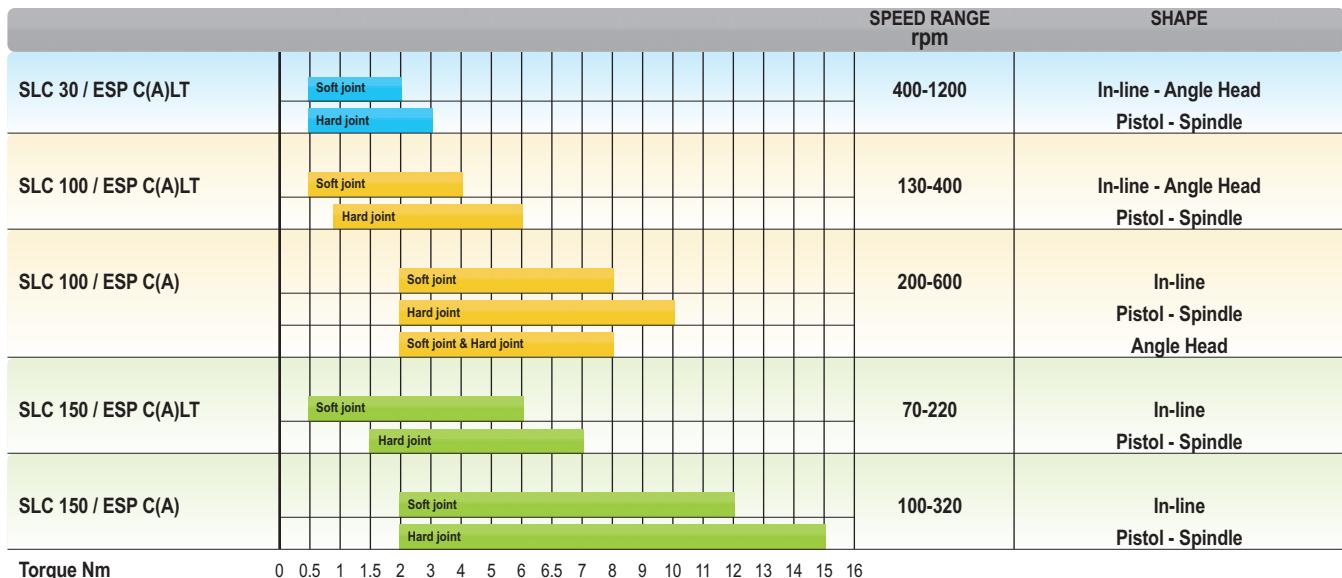
Example of order

| | PART NO. |
|-------------------------|------------------|
| Tool | SLC030-P1200-C4Q |
| Programmable controller | ESP C LT 220V |
| Start-up kit | UK |

High power screwdrivers

Torque Range

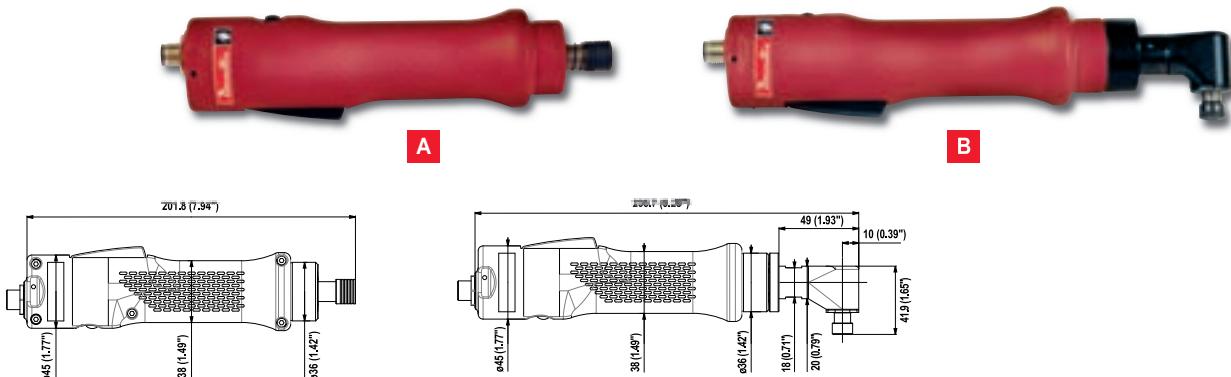
Performance of Electric Screwdrivers - Series SLC



SLC - In-line and Angle head screwdrivers



0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



Accessories: see page 63



| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | Soft | TORQUE RANGE | WEIGHT | CONTROLLER | | |
|---------|-------|-------------|------------|------------|------|--------------|--------|------------|----|----|
| | | | in. | rpm | Nm | in.lb | Nm | in.lb | kg | lb |

IN-LINE - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

| | | | | | | | | | | | |
|---|------------------|---------------|-----|----------|-------|-----------|--------|-----------|-----|-----|-------------|
| A | SLC030-L1200-C4Q | 615 165 500 0 | 1/4 | 400-1200 | 0.5-2 | 4.4-17.7 | 0.6-3 | 5.3-26.5 | 0.5 | 1.1 | ESP C(A) LT |
| A | SLC100-L600-C4Q | 615 165 466 0 | 1/4 | 130-400 | 0.5-4 | 4.4-35.4 | 0.8-6 | 7.1-53.1 | 0.5 | 1.1 | ESP C(A) LT |
| A | SLC150-L320-C4Q | 615 165 467 0 | 1/4 | 200-600 | 2.0-8 | 17.7-70.8 | 2.0-10 | 17.7-88.5 | 0.5 | 1.1 | ESP C(A) LT |

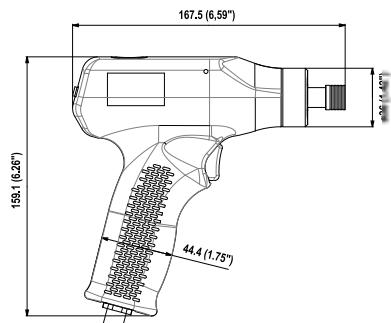
ANGLE HEAD - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

| | | | | | | | | | | | |
|---|---------------------|---------------|-----|----------|-------|----------|-------|----------|-----|-----|-------------|
| B | SLC030-L1200-C90A4H | 615 165 478 0 | 1/4 | 400-1200 | 0.5-2 | 4.4-17.7 | 0.6-3 | 5.3-26.5 | 0.7 | 1.5 | ESP C(A) LT |
| B | SLC100-L600-C90A4H | 615 165 479 0 | 1/4 | 130-400 | 0.5-4 | 4.4-35.4 | 0.8-6 | 7.1-53.1 | 0.7 | 1.5 | ESP C(A) LT |



SLC - Pistol grip screwdrivers

0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



Accessories: see page 63

| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | Soft | TORQUE RANGE | WEIGHT | CONTROLLER |
|------------|-------|----------------|---------------|---------------|------|--------------|--------|------------|
| | | | in. | rpm | Nm | in.lb | kg | lb |

PISTOL GRIP - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

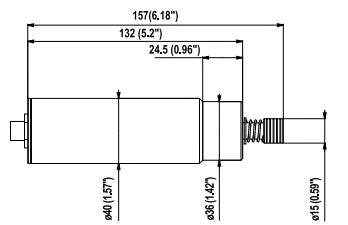
| | | | | | | | | | | | |
|---|------------------|---------------|-----|----------|--------|------------|--------|------------|-----|-----|-------------|
| A | SLC030-P1200-C4Q | 615 165 488 0 | 1/4 | 400-1200 | 0.5-2 | 4.4-17.7 | 0.6-3 | 5.3-26.5 | 0.6 | 1.3 | ESP C(A) LT |
| A | SLC100-P600-C4Q | 615 165 462 0 | 1/4 | 130-400 | 0.5-4 | 4.4-35.4 | 0.8-6 | 7.1-53.1 | 0.6 | 1.3 | ESP C(A) LT |
| A | SLC150-P320-C4Q | 615 165 463 0 | 1/4 | 200-600 | 2.0-8 | 17.7-70.8 | 2.0-10 | 17.7-88.5 | 0.6 | 1.3 | ESP C(A) |
| A | SLC150-P320-C4Q | 615 165 463 0 | 1/4 | 70-220 | 0.5-6 | 4.4-53.1 | 1.5-7 | 13.3-61.9 | 0.6 | 1.3 | ESP C(A) LT |
| A | SLC150-P320-C4Q | 615 165 463 0 | 1/4 | 100-320 | 2.0-12 | 17.7-106.2 | 2.0-15 | 17.7-132.7 | 0.6 | 1.3 | ESP C(A) |

PISTOL GRIP WITH TOP CONNECTOR - CURRENT CONTROL - SHUT OFF

| | | | | | | | | | | | |
|---|------------------|---------------|-----|----------|--------|------------|--------|------------|-----|-----|-------------|
| B | SLC030-T1200-C4Q | 615 165 489 0 | 1/4 | 400-1200 | 0.5-2 | 4.4-17.7 | 0.6-3 | 5.3-26.5 | 0.6 | 1.3 | ESP C(A) LT |
| B | SLC100-T600-C4Q | 615 165 464 0 | 1/4 | 130-400 | 0.5-4 | 4.4-35.4 | 0.8-6 | 7.1-53.1 | 0.6 | 1.3 | ESP C(A) LT |
| B | SLC100-T600-C4Q | 615 165 464 0 | 1/4 | 200-600 | 2.0-8 | 17.7-70.8 | 2.0-10 | 17.7-88.5 | 0.6 | 1.3 | ESP C(A) |
| B | SLC150-T320-C4Q | 615 165 465 0 | 1/4 | 70-220 | 0.5-6 | 4.4-53.1 | 1.5-7 | 13.3-61.9 | 0.6 | 1.3 | ESP C(A) LT |
| B | SLC150-T320-C4Q | 615 165 465 0 | 1/4 | 100-320 | 2.0-12 | 17.7-106.2 | 2.0-15 | 17.7-132.7 | 0.6 | 1.3 | ESP C(A) |

SLC - Automation - Remote start

0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



Accessories: see page 63

| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | Soft | TORQUE RANGE | WEIGHT | CONTROLLER |
|------------|-------|----------------|---------------|---------------|------|--------------|--------|------------|
| | | | in. | rpm | Nm | in.lb | kg | lb |

AUTOMATION - REMOTE START

| | | | | | | | | | | | |
|---|------------------|---------------|-----|----------|--------|------------|--------|------------|-----|-----|-------------|
| A | SLC030-F1200-C4Q | 615 165 490 0 | 1/4 | 400-1200 | 0.5-2 | 4.4-17.7 | 0.6-3 | 5.3-26.5 | 0.5 | 1.1 | ESP C(A) LT |
| A | SLC100-F600-C4Q | 615 165 468 0 | 1/4 | 130-400 | 0.5-4 | 4.4-35.4 | 0.8-6 | 7.1-53.1 | 0.5 | 1.1 | ESP C(A) LT |
| A | SLC100-F600-C4Q | 615 165 468 0 | 1/4 | 200-600 | 2.0-8 | 17.7-70.8 | 2.0-10 | 17.7-88.5 | 0.5 | 1.1 | ESP C(A) |
| A | SLC150-F320-C4Q | 615 165 469 0 | 1/4 | 70-220 | 0.5-6 | 4.4-53.1 | 1.5-7 | 13.3-61.9 | 0.5 | 1.1 | ESP C(A) LT |
| A | SLC150-F320-C4Q | 615 165 469 0 | 1/4 | 100-320 | 2.0-12 | 17.7-106.2 | 2.0-15 | 17.7-132.7 | 0.5 | 1.1 | ESP C(A) |

SLK: High value, simple solution

Flexible

- Integrated ring for quick installation of vertical suspension bail.
- Tool-free torque adjustment.
- Reverse action switch with stop position.

Productive

- Ventilation slots for cool operation.
- Linear torque adjustment with external chuck.

Easy to maintain

- Simple maintenance thanks to quick brush replacement.
- Spare brushes included.

Comfortable

- Long, rounded trigger with easy access for operator's hand.
- Soft rubber grip provides non-slip operation.
- Flared shape and conical cross section give superior hand comfort during operation.
- Finger stop reduces risk of hand slip off and allows the operator to quickly position hand on the tool and remain focussed on the application.



ESD CERTIFIED



Adapted to electronics and appliance assembly, SLK Series low-voltage screwdrivers are ESD certified to ensure protection of electronic components.

SLK - Low Voltage screwdrivers

0.02 to 4.7 Nm (0.18 to 41.6 in.lb) - 530 to 1000 rpm



Power Controllers

| PIC REF | MODEL | PART NUMBER | DESCRIPTION | WIDTH | | DIMENSIONS HEIGHT | | DEPTH | | WEIGHT | |
|---------|-------|---------------|---------------------------------|-------|------|-------------------|------|-------|------|--------|-----|
| | | | | mm | in. | mm | in. | mm | in. | kg | lb |
| E | ESP1 | 615 932 635 0 | 1 screwdriver - Input 100-240V | 75 | 2.95 | 55 | 2.17 | 160 | 6.30 | 0.5 | 1.1 |
| F | ESP2 | 615 932 636 0 | 2 screwdrivers - Input 100-240V | 118 | 4.65 | 85 | 3.35 | 210 | 8.27 | 2.5 | 5.5 |

START-UP KIT to be ordered with the controller
Including: Power cable and plug

| PLUG | DESCRIPTION | PART NO. |
|------|-------------|---------------|
| A | UK | 615 917 202 0 |
| B | USA | 615 917 203 0 |
| C | European | 615 917 201 0 |



Recommended duty cycle, maximum 15 screws per minute

Accessories: see page 63 ➤➤➤

| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | TORQUE RANGE | | LENGTH | | WEIGHT | | VOLTAGE VDC | CONTROLLER |
|---------|-------|-------------|------------|------------|--------------|-----------------|--------|-------|--------|-----|-------------|------------|
| | | | | | in. | Hi rpm Lo rpm | Nm | in.lb | mm | in. | kg | lb |

PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

| | | | | | | | | | | | | | |
|---|------------------|---------------|-----|------|-----|-----------|------------|-----|------|------|------|----------|-----------|
| A | SLK011-A1000-S4Q | 615 165 257 0 | 1/4 | 1000 | 700 | 0.10-1.18 | 0.88-10.4 | 218 | 8.6 | 0.48 | 1.06 | 24 or 32 | ESP1 or 2 |
| A | SLK015-A1000-S4Q | 615 165 258 0 | 1/4 | 1000 | 700 | 0.29-1.57 | 2.57-13.9 | 218 | 8.6 | 0.48 | 1.06 | 24 or 32 | ESP1 or 2 |
| • | SLK017-A1000-S4Q | 615 165 562 0 | 1/4 | 1000 | 700 | 0.39-1.76 | 3.45-15.6 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| B | SLK022-A1000-S4Q | 615 165 473 0 | 1/4 | 1000 | 700 | 0.60-2.25 | 5.31-19.9 | 308 | 12.1 | 0.69 | 1.52 | 24 or 32 | ESP1 or 2 |
| • | SLK023-A750-S4Q | 615 165 563 0 | 1/4 | 750 | 520 | 0.59-2.35 | 5.22-20.8 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| • | SLK029-A530-S4Q | 615 165 564 0 | 1/4 | 530 | 370 | 0.78-2.94 | 6.9-26.0 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| B | SLK031-A750-S4Q | 615 165 474 0 | 1/4 | 750 | 500 | 1.00-3.14 | 8.85-27.8 | 308 | 12.1 | 0.69 | 1.52 | 24 or 32 | ESP1 or 2 |
| B | SLK047-A530-S4Q | 615 165 475 0 | 1/4 | 530 | 350 | 1.50-4.70 | 13.28-41.6 | 308 | 12.1 | 0.69 | 1.52 | 24 or 32 | ESP1 or 2 |

LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

| | | | | | | | | | | | | | |
|---|------------------|---------------|-----|------|-----|-----------|------------|-----|------|------|------|----------|-----------|
| C | SLK003-L1000-S4Q | 615 165 252 0 | 1/4 | 1000 | 700 | 0.02-0.34 | 0.18-3.01 | 224 | 8.8 | 0.27 | 0.59 | 24 or 32 | ESP1 or 2 |
| C | SLK007-L1000-S4Q | 615 165 253 0 | 1/4 | 1000 | 700 | 0.05-0.69 | 0.44-6.11 | 224 | 8.8 | 0.27 | 0.59 | 24 or 32 | ESP1 or 2 |
| C | SLK010-L670-S4Q | 615 165 254 0 | 1/4 | 670 | 470 | 0.10-0.98 | 0.88-8.67 | 224 | 8.8 | 0.27 | 0.59 | 24 or 32 | ESP1 or 2 |
| • | SLK011-L1000-S4Q | 615 165 255 0 | 1/4 | 1000 | 700 | 0.10-1.18 | 0.88-10.4 | 239 | 9.4 | 0.48 | 1.06 | 24 or 32 | ESP1 or 2 |
| • | SLK015-L1000-S4Q | 615 165 256 0 | 1/4 | 1000 | 700 | 0.29-1.57 | 2.57-13.9 | 239 | 9.4 | 0.48 | 1.06 | 24 or 32 | ESP1 or 2 |
| E | SLK017-L1000-S4Q | 615 165 559 0 | 1/4 | 1000 | 700 | 0.39-1.76 | 3.45-15.6 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| D | SLK022-L1000-S4Q | 615 165 470 0 | 1/4 | 1000 | 700 | 0.60-2.25 | 5.31-19.9 | 308 | 12.1 | 0.70 | 1.55 | 24 or 32 | ESP1 or 2 |
| E | SLK023-L750-S4Q | 615 165 560 0 | 1/4 | 750 | 520 | 0.59-2.35 | 5.22-20.8 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| E | SLK029-L530-S4Q | 615 165 561 0 | 1/4 | 530 | 370 | 0.78-2.94 | 6.9-26.0 | 260 | 10.2 | 0.60 | 1.32 | 24 or 32 | ESP1 or 2 |
| D | SLK031-L750-S4Q | 615 165 471 0 | 1/4 | 750 | 500 | 1.00-3.14 | 8.85-27.8 | 308 | 12.1 | 0.70 | 1.55 | 24 or 32 | ESP1 or 2 |
| D | SLK047-L530-S4Q | 615 165 472 0 | 1/4 | 530 | 350 | 1.50-4.70 | 13.28-41.6 | 308 | 12.1 | 0.70 | 1.55 | 24 or 32 | ESP1 or 2 |

ESP Range

ESP7 controller for SLE screwdrivers



TECHNICAL FEATURES

| MAIN FUNCTIONS | VERSIONS | | | | |
|--|----------|----------|----------|----------|----------|
| | OPTION 1 | OPTION 2 | OPTION 3 | OPTION 4 | OPTION 5 |
| PROGRAMMABLE CONTROLLER | | | | | |
| Password protected programming | ✓ | ✓ | ✓ | ✓ | ✓ |
| Automatic tool recognition | ✓ | ✓ | ✓ | ✓ | ✓ |
| Factory default reset facility | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto Start | ✓ | ✓ | ✓ | ✓ | ✓ |
| Left/Right hand rotation | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tool running indicator | ✓ | ✓ | ✓ | ✓ | ✓ |
| Counting function | ✓ | ✓ | ✓ | ✓ | ✓ |
| CONTROL CARDS | | | | | |
| Slow start speed control | ✓ | ✓ | ✓ | ✓ | |
| Rundown speed control | ✓ | ✓ | ✓ | ✓ | |
| Final speed control | ✓ | ✓ | ✓ | ✓ | |
| Reverse speed control | ✓ | ✓ | ✓ | ✓ | |
| Auto reverse | ✓ | ✓ | ✓ | ✓ | |
| Current control | | ✓ | ✓ | ✓ | |
| 4 Parameter groups | ✓ | ✓ | ✓ | ✓ | |
| FAS capability (lever and push start tool) | | | ✓ | ✓ | |
| Remote interface port | ✓ | ✓ | ✓ | ✓ | |



| MODEL | PART NUMBER | FOR TOOLS | SWITCHABLE SUPPLY VOLTAGE | WIDTH | DIMENSIONS | | DEPTH | WEIGHT | | | | |
|-------|-------------|-----------|---------------------------|---------------|------------|-----|-------|--------|-----|-----|----|------|
| | | | | mm | in. | mm | in. | mm | in. | kg | lb | |
| ESP7 | 111362 | SLE | AC230 50Hz | AC120 60Hz | 143 | 5.6 | 212 | 8.3 | 115 | 4.5 | 5 | 11.3 |

PROGRAMMABLE CONTROLLER

| | | | | | | | | | | | | |
|------|--------|-----|------|------|-----|-----|-----|-----|-----|-----|---|------|
| ESP7 | 111362 | SLE | 50Hz | 60Hz | 143 | 5.6 | 212 | 8.3 | 115 | 4.5 | 5 | 11.3 |
|------|--------|-----|------|------|-----|-----|-----|-----|-----|-----|---|------|

CONTROL CARDS

| | | | |
|--------------|--------|------|------|
| OPTION 2 | 108242 | 0.21 | 0.46 |
| OPTION 3 & 4 | 108252 | 0.25 | 0.55 |
| OPTION 5 | 108262 | 0.34 | 0.75 |

START-UP KIT

 to be ordered with the controller

Including: Power cable and plug

| PLUG | DESCRIPTION | PART NO. |
|------|-------------|---------------|
| A | UK | 615 917 202 0 |
| B | USA | 615 917 203 0 |
| C | European | 615 917 201 0 |



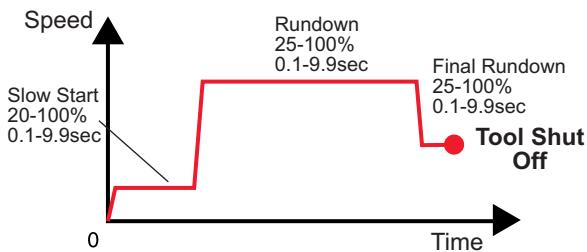
Example of order

| | PART NO. |
|--------------------------------------|------------------|
| Tools - Clutch controlled types only | SLE017-A1500-S4Q |
| Programmable controller | ESP7 |
| Control Card | Option 2 |
| Start-up kit | UK |
| | 1464864 |
| | 111362 |
| | 108242 |
| | 615 917 202 0 |

Electric fastening tools

Control Options

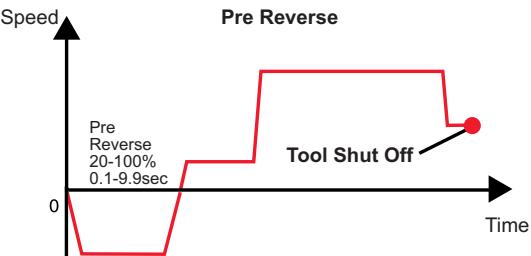
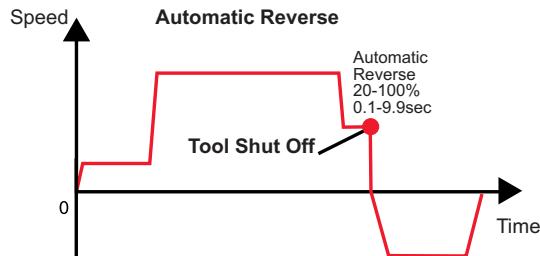
OPTION 2 – Clutch Controlled Shut Off with Speed Control



| | |
|-------------------|---|
| Parameters | Tool start mode, external forward, reverse or stop signal functions, slow start time and speed, rundown time and speed, final rundown time and speed, reverse speed |
| Outputs | Cycle finished, cycle not finished, ground 24V DC |
| Inputs | External forward, external reverse, external stop, +24V DC |

OPTION 3 – Clutch Controlled Shut Off with Speed Control and Automatic Reverse Options

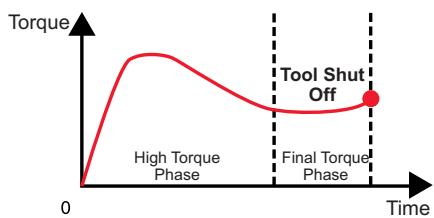
OPTION 4 – Current Controlled Shut Off with Speed Control and Automatic Reverse Options



| | |
|-------------------|---|
| Parameters | As per Option 2 plus program selection (maximum of 4), pre reverse time, automatic reverse time after shut off, current percentage (current control only) |
| Outputs | Cycle finished, cycle not finished, ground 24V DC |
| Inputs | External forward, external reverse, external stop, program selection, +24V DC |

OPTION 5 – Clutch or Current Controlled Shut Off with Speed Control and Automatic Reverse Option, High Torque Current Control and Fastening Assurance

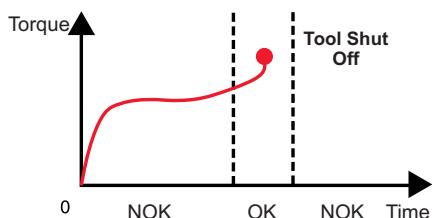
This option has all the features of Options 3 and 4 plus:



High Torque Current Control

This function permits the current control tools to operate at a higher torque level during the rundown than the torque required at shut off.

Applications include those with thread forming screws, self tapping screws in thin materials or soft plastics, self lock nuts and screws, misaligned holes and fragile components.



Fastening Assurance System

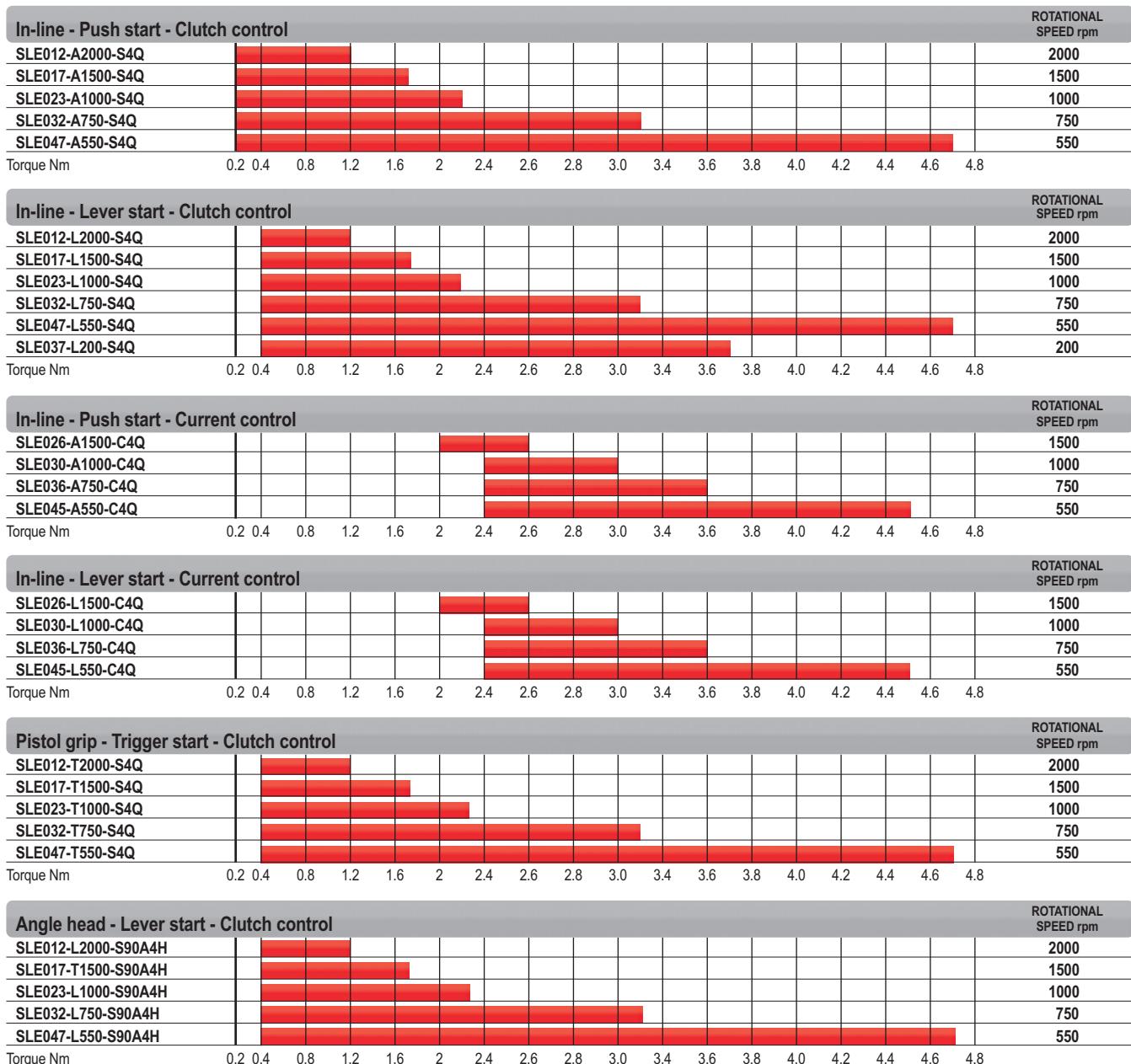
The fastening assurance system provides the ability to verify that all the fasteners in an assembly have been correctly fastened. By comparing the timing of electrical signals from the screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK assembly confirmation. The output signals can then be combined to indicate that all the fasteners on the component have been tightened correctly.

| | |
|-------------------|--|
| Parameters | As per Option 2, 3 and 4 plus enable FAS, enable high current, time limits for FAS, number of screws in a group (FAS), group start (FAS), NOK receipt to disable tool (FAS), permit sequencing of groups |
| Outputs | As per Option 2, 3 and 4 plus n screws OK, n screws NOK |
| Inputs | As per Option 2, 3 and 4 plus reset last, reset all, NOK receipt to acknowledge NOK, group start (maintained during cycle) |

High power screwdrivers

Torque Range

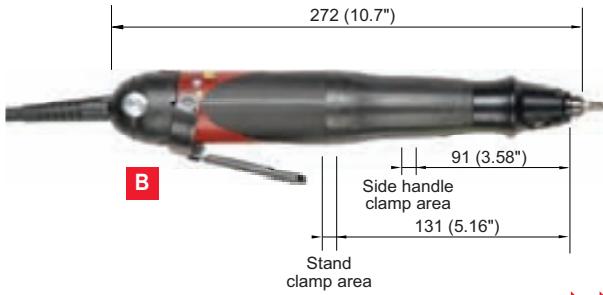
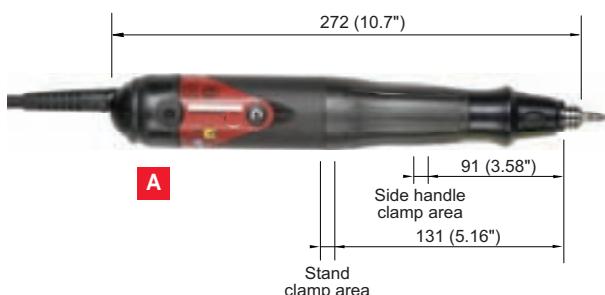
Performance of Electric Screwdrivers - series SLE





SLE - In-line screwdrivers

0.2 to 4.7 Nm (1.8 to 41.6 in.lb) - 200 to 2000 rpm



Accessories: see page 63



| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | VOLTAGE | CONTROLLER |
|------------|-------|----------------|---------------|---------------|-----------------|-------|------------------|-------|--------|----|---------|------------|
| | | | in. | rpm | Nm | in.lb | Nm | in.lb | kg | lb | VDC | |

PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

| | | | | | | | | | | | | |
|---|------------------|---------|-----|------|---------|----------|---------|-----------|------|-----|----|------|
| A | SLE012-A2000-S4Q | 1464854 | 1/4 | 2000 | 0.2-1.2 | 1.8-10.6 | 0.4-1.2 | 3.5-10.6 | 0.64 | 1.4 | 40 | ESP7 |
| A | SLE017-A1500-S4Q | 1464864 | 1/4 | 1500 | 0.2-1.7 | 1.8-15.0 | 0.4-1.7 | 3.5-15.0 | 0.64 | 1.4 | 40 | ESP7 |
| A | SLE023-A1000-S4Q | 1464874 | 1/4 | 1000 | 0.2-2.3 | 1.8-20.3 | 0.4-2.3 | 3.5-20.3 | 0.64 | 1.4 | 40 | ESP7 |
| A | SLE032-A750-S4Q | 1464884 | 1/4 | 750 | 0.2-3.2 | 1.8-28.3 | 1.5-3.2 | 13.3-28.3 | 0.64 | 1.4 | 40 | ESP7 |
| A | SLE047-A550-S4Q | 1464894 | 1/4 | 550 | 0.2-4.7 | 1.8-41.6 | 1.5-4.7 | 13.3-41.6 | 0.64 | 1.4 | 40 | ESP7 |

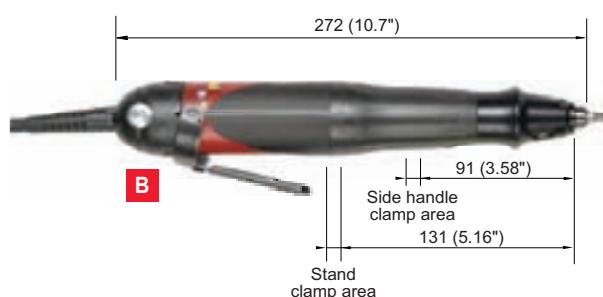
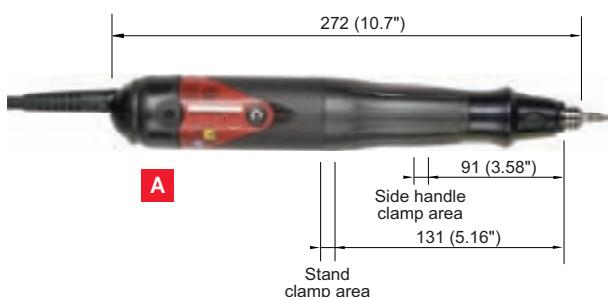
LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

| | | | | | | | | | | | | |
|---|------------------|---------------|-----|------|---------|----------|---------|-----------|------|-----|----|------|
| B | SLE012-L2000-S4Q | 1464904 | 1/4 | 2000 | 0.4-1.2 | 3.5-10.6 | 0.4-1.2 | 3.5-10.6 | 0.68 | 1.5 | 40 | ESP7 |
| B | SLE017-L1500-S4Q | 1464914 | 1/4 | 1500 | 0.4-1.7 | 3.5-15.0 | 0.4-1.7 | 3.5-15.0 | 0.68 | 1.5 | 40 | ESP7 |
| B | SLE023-L1000-S4Q | 1464924 | 1/4 | 1000 | 0.4-2.3 | 3.5-20.3 | 0.4-2.3 | 3.5-20.3 | 0.68 | 1.5 | 40 | ESP7 |
| B | SLE032-L750-S4Q | 1464934 | 1/4 | 750 | 0.4-3.2 | 3.5-28.3 | 1.5-3.2 | 13.3-28.3 | 0.68 | 1.5 | 40 | ESP7 |
| B | SLE047-L550-S4Q | 1464944 | 1/4 | 550 | 0.4-4.7 | 3.5-41.6 | 1.5-4.7 | 13.3-41.6 | 0.68 | 1.5 | 40 | ESP7 |
| B | SLE037-L200-S4Q | 615 165 373 0 | 1/4 | 200 | 0.4-3.7 | 3.5-32.3 | 1.1-3.7 | 9.7-32.8 | 0.68 | 1.5 | 40 | ESP7 |

SLE - In-line screwdrivers



2.0 to 4.5 Nm (17.7 to 39.8 in.lb) - 550 to 1500 rpm



Accessories: see page 63



| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | VOLTAGE | CONTROLLER |
|------------|-------|----------------|---------------|---------------|-----------------|-------|------------------|-------|--------|----|---------|------------|
| | | | in. | rpm | Nm | in.lb | Nm | in.lb | kg | lb | VDC | |

PUSH START - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

| | | | | | | | | | | | | |
|---|------------------|---------|-----|------|---------|-----------|---------|-----------|-----|-----|----|------|
| A | SLE026-A1500-C4Q | 1465414 | 1/4 | 1500 | 2.0-2.6 | 17.7-23.0 | 1.4-1.6 | 12.3-14.1 | 0.6 | 1.3 | 40 | ESP7 |
| A | SLE030-A1000-C4Q | 1465424 | 1/4 | 1000 | 2.4-3.0 | 21.2-26.5 | 1.8-2.1 | 15.9-18.5 | 0.6 | 1.3 | 40 | ESP7 |
| A | SLE036-A750-C4Q | 1465434 | 1/4 | 750 | 2.4-3.6 | 21.2-31.8 | 1.8-2.8 | 15.9-24.7 | 0.6 | 1.3 | 40 | ESP7 |
| A | SLE045-A550-C4Q | 1465444 | 1/4 | 550 | 2.4-4.5 | 21.2-39.8 | 1.9-3.8 | 16.8-33.6 | 0.6 | 1.3 | 40 | ESP7 |

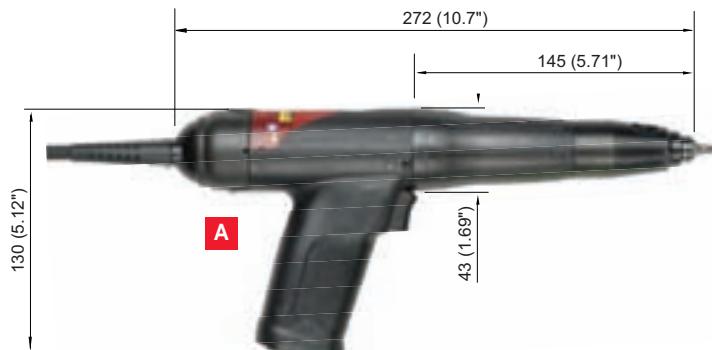
LEVER START - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

| | | | | | | | | | | | | |
|---|------------------|---------|-----|------|---------|-----------|---------|-----------|------|-----|----|------|
| B | SLE026-L1500-C4Q | 1465884 | 1/4 | 1500 | 2.0-2.6 | 17.7-23.0 | 1.4-1.6 | 12.3-14.1 | 0.64 | 1.4 | 40 | ESP7 |
| B | SLE030-L1000-C4Q | 1465894 | 1/4 | 1000 | 2.4-3.0 | 21.2-26.5 | 1.8-2.1 | 15.9-18.5 | 0.64 | 1.4 | 40 | ESP7 |
| B | SLE036-L750-C4Q | 1465904 | 1/4 | 750 | 2.4-3.6 | 21.2-31.8 | 1.8-2.8 | 15.9-24.7 | 0.64 | 1.4 | 40 | ESP7 |
| B | SLE045-L550-C4Q | 1465914 | 1/4 | 550 | 2.4-4.5 | 21.2-39.8 | 1.9-3.8 | 16.8-33.6 | 0.64 | 1.4 | 40 | ESP7 |

SLE - Pistol grip screwdrivers



0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm



Accessories: see page 63

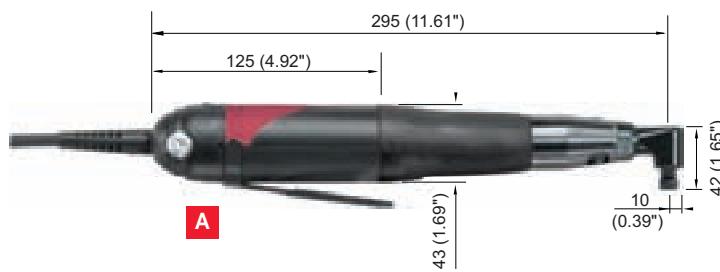


| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | TORQUE RANGE | FITTED SPRING | WEIGHT | VOLTAGE | CONTROLLER | | |
|--|------------------|-------------|------------|------------|--------------|---------------|---------|-----------|------------|-----|-----|
| | | | in. | rpm | Nm | in.lb | Nm | in.lb | kg | lb | VDC |
| TRIGGER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF | | | | | | | | | | | |
| A | SLE012-T2000-S4Q | 1465004 | 1/4 | 2000 | 0.4-1.2 | 3.5-10.6 | 0.4-1.2 | 3.5-10.6 | 0.71 | 1.6 | 40 |
| A | SLE017-T1500-S4Q | 1465014 | 1/4 | 1500 | 0.4-1.7 | 3.5-15.0 | 0.4-1.7 | 3.5-15.0 | 0.71 | 1.6 | 40 |
| A | SLE023-T1000-S4Q | 1465024 | 1/4 | 1000 | 0.4-2.3 | 3.5-20.3 | 0.4-2.3 | 3.5-20.3 | 0.71 | 1.6 | 40 |
| A | SLE032-T750-S4Q | 1465034 | 1/4 | 750 | 0.4-3.2 | 3.5-28.3 | 1.5-3.2 | 13.3-28.3 | 0.71 | 1.6 | 40 |
| A | SLE047-T550-S4Q | 1465044 | 1/4 | 550 | 0.4-4.7 | 3.5-41.6 | 1.5-4.7 | 13.3-41.6 | 0.71 | 1.6 | 40 |

SLE - Angle head screwdrivers



0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 2000 rpm



Accessories: see page 63



| PIC REF | MODEL | PART NUMBER | OUTPUT HEX | FREE SPEED | TORQUE RANGE | FITTED SPRING | WEIGHT | VOLTAGE | CONTROLLER | | |
|--|---------------------|-------------|------------|------------|--------------|---------------|---------|-----------|------------|-----|-----|
| | | | in. | rpm | Nm | in.lb | Nm | in.lb | kg | lb | VDC |
| LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF | | | | | | | | | | | |
| A | SLE012-L2000-S90A4H | 1464954 | 1/4 | 2000 | 0.4-1.2 | 3.5-10.6 | 0.4-1.2 | 3.5-10.6 | 0.81 | 1.8 | 40 |
| A | SLE017-L1500-S90A4H | 1464964 | 1/4 | 1500 | 0.4-1.7 | 3.5-15.0 | 0.4-1.7 | 3.5-15.0 | 0.81 | 1.8 | 40 |
| A | SLE023-L1000-S90A4H | 1464974 | 1/4 | 1000 | 0.4-2.3 | 3.5-20.3 | 0.4-2.3 | 3.5-20.3 | 0.81 | 1.8 | 40 |
| A | SLE032-L750-S90A4H | 1464984 | 1/4 | 750 | 0.4-3.2 | 3.5-28.3 | 1.5-3.2 | 13.3-28.3 | 0.81 | 1.8 | 40 |
| A | SLE047-L550-S90A4H | 1464994 | 1/4 | 550 | 0.4-4.7 | 3.5-41.6 | 1.5-4.7 | 13.3-41.6 | 0.81 | 1.8 | 40 |

Accessories

SLC / SLK / SLE

ACCESSORIES INCLUDED

| ITEM | SLC | SLK | SLE |
|--|---------------|---------------|--------------|
| • Suspension bail | 615 360 222 0 | | 443703 |
| 1 Side handle for 550rpm | | | 467033 |
| • Clutch Adjustment Keys | | | 69773/443713 |
| • Tool / Controller cable L = 2.5m (8.2ft) | 615 360 223 0 | | |
| • Cable L = 1.83m (6ft) | | 615 360 001 0 | |



OPTIONAL ACCESSORIES

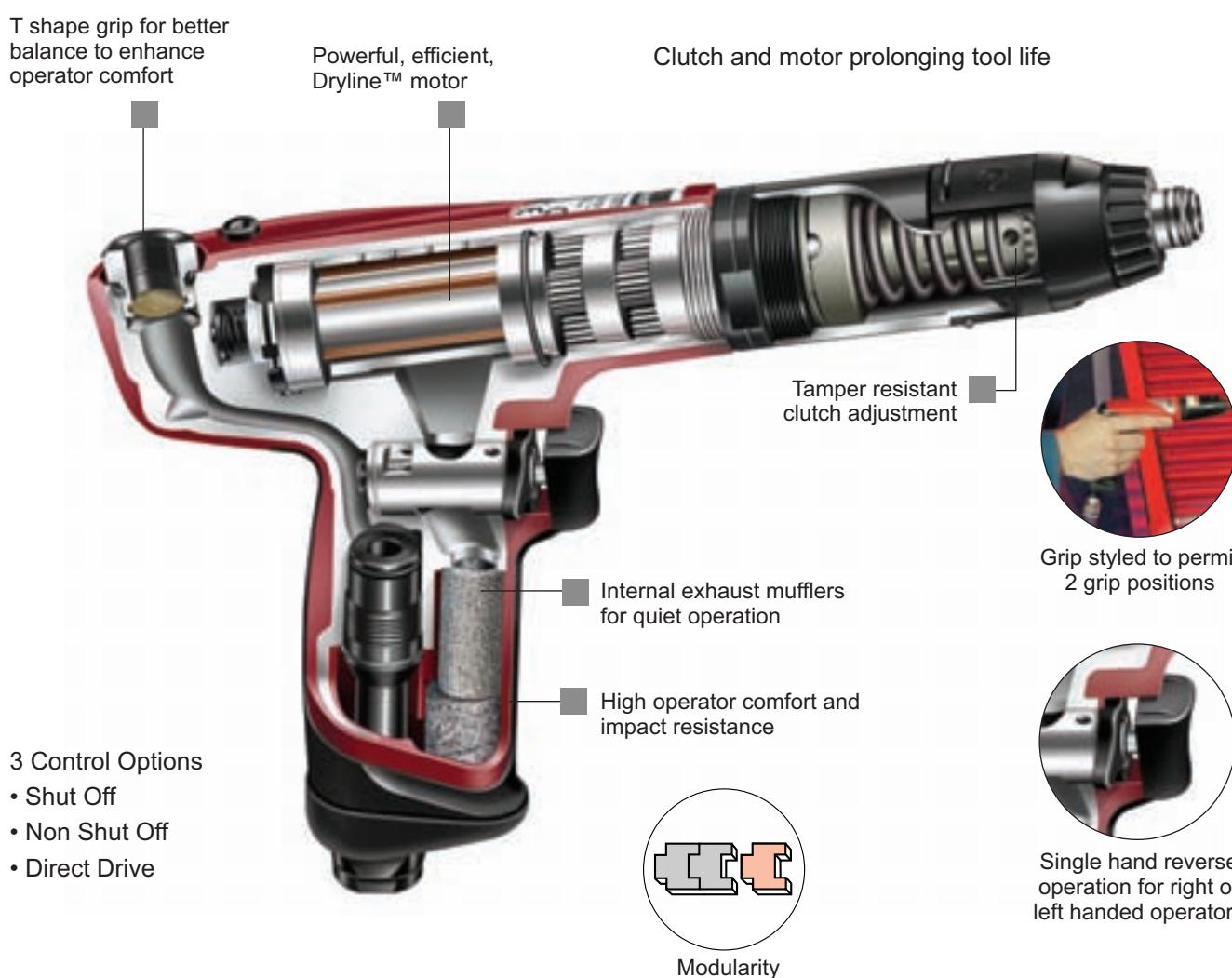
| ITEM | SLC | SLK | SLE |
|--|---------------|---------------|---------------|
| 1 Side Handle | 615 397 016 0 | 615 396 861 0 | 467033 |
| • Clutch cover for angle head | | | 443863 |
| 2 Color ring (3) | 615 397 008 5 | | |
| 3 Torque fixing ring for SLK003 / 007 / 010 | | 615 225 053 0 | |
| 3 Torque fixing ring for SLK011 / 015 | | 615 225 054 0 | |
| 3 Torque fixing ring for SLK017 / 023 / 029 | | 615 225 096 0 | |
| 3 Torque fixing ring for SLK022 / 031 / 047 | | 615 225 090 0 | |
| 4 Adaptor for SLK003 / 007 / 010 | | 615 225 065 0 | |
| 4 Adaptor for SLK011 / 015 | | 615 225 066 0 | |
| 4 Adaptor for SLK022 / 031 / 047 | | 438963 | |
| • Kit of 3 color fixing ring for SLK022 / 031 / 047 | 615 917 593 0 | | |
| • Cable extension L = 2m (6.6ft) | | | |
| 5 Spiral cable L = 2m (6.6ft) | 615 917 594 0 | | |
| • M20 adaptor | 615 567 132 0 | | |
| • Cable L = 2.74m (9ft) | | 615 360 217 0 | |
| 6 Slow-start control module - SSCM1 | | 615 932 644 0 | |
| • Lever Conversion Kit | | | 467853 |
| Trigger Conversion Kit (4 parts required) | | | |
| • Pistol Grip | | | 473803 |
| • Switch Assembly | | | 473743 |
| • Trigger Assembly | | | 473843 |
| • Spring | | | 473923 |
| Clutch Spring for SLE In-line model, Push start - Clutch control | | | |
| • Clutch Spring for low torque, 0.2-0.4 Nm (1.8-3.5 in.lb) | | | 179923 |
| Balancers and Holster | | | |
| 7 Spring Suspension Balancer | 50522 | 50522 | 50522 |
| 8 Reaction Free Self Lock Balancer | 54422 | 54422 | 54422 |
| • Suspension Shackle | | | 615 571 056 0 |
| • Suspension Shackle Rotary | | | 615 396 228 0 |
| 9 Bench Mounted Swing Arm | 66542 | 66542 | 66542 |
| 10 Tool Holster DTH-42 | 107892 | 107892 | 107892 |
| Bench Stands (for more information see pages 114-117) | | | |
| 11 D53-10 Stand | 615 804 571 0 | 615 804 571 0 | 615 804 571 0 |
| 12 D53-20 Stand | 388163 | 388163 | 388163 |
| 12 D53-20X Stand extended reach | 388173 | 388173 | 388173 |
| 13 D53-20S Swivel stand | 615 804 572 0 | 615 804 572 0 | 615 804 572 0 |
| • Tool clamp (nose mount) | 615 396 616 0 | | 615 396 616 0 |
| • Tool clamp (top mount) | 615 396 628 0 | | 615 396 628 0 |
| 14 D57 Balancing Arm | 408903 | 408903 | 408903 |
| 14 D57X Balancing Arm, extended reach | 408913 | 408913 | 408913 |
| 15 D58 Balancing Arm with Swivel | 408923 | 408923 | 408923 |
| • Tool clamp (nose mount) | 615 396 614 0 | 615 396 614 0 | |
| • Tool clamp (top mount) | 615 396 629 0 | | 615 396 629 0 |
| Telescopic Reaction Arm (for more information see page 117) | | | |
| 16 TRA12 Telescopic Reaction Arm | 615 396 532 0 | 615 396 532 0 | 615 396 532 0 |
| 16 TRA25 Telescopic Reaction Arm | 615 396 533 0 | 615 396 533 0 | 615 396 533 0 |
| 17 TRA Circular adaptor for stand | 615 595 380 0 | 615 595 380 0 | 615 595 380 0 |
| Vacuum Pick Up - Order Pick Up kit, Finder Sleeve and Vacuum Source | | | |
| • Clutch cover threaded | | | 443833 |
| • Vacuum Pick Up Kit | | | 108892 |
| • Finder Sleeve Blank – Plastic | | | 464103 |
| • Finder Sleeve Blank – Steel | | | 464093 |
| • Vacuum Source for use with DU Balancer, Reporting box | | | 51482 |
| • Vacuum Source AV201 for use with Filter/Regulator Unit | | | 112063 |





Pneumatic fastening tools

Shut Off, Non Shut Off, Direct Drive, Automatic Reverse



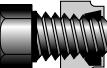
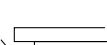
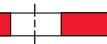
Tool Selection

Criteria

- Type of Fastener/Component
- Joint integrity
- Torque Required
- Tool Orientation and Operator Reference
- Productivity
- Access

Type of Fastener/Component

| FASTENER/ COMPONENT | RECOMMENDED TOOL TYPE |
|--|--|
| Machine Screw / Nut |  Shut Off/Impulse/Non Shut Off |
| Thread Rolling/Forming |  Shut Off/HLT/Impulse /Direct Drive |
| Self Tapping |  Non Shut Off/HLT/Direct Drive |
| Self Tapping in Plastic/Thin Materials |  Shut Off/HLT |
| Self Drilling |  Non Shut Off/HLT/Direct Drive |
| Wood Screws |  Non Shut Off/Direct Drive |

| FASTENER/ COMPONENT | RECOMMENDED TOOL TYPE |
|----------------------|--|
| Screws with Adhesive |  HLT/Non Shut Off/Impulse |
| Self Lock Nuts |  HLT/Non Shut Off/Impulse |
| Misaligned Holes |  HLT |
| Variable Size Holes |  HLT |
| Fragile Components |  HLT/Low Voltage Screwdrivers |



Tool Selection

Fastener Torque Values

| ISO | MACHINE SCREWS | | | | | THREAD FORMING/ ROLLING SCREWS 8.8 | SELF TAPPING/DRILLING SCREWS | |
|------|----------------|----------------------------|------|------|------|--|------------------------------|----------------------------|
| | THREAD SIZE | RECOMMENDED TORQUE (Nm) | | | | | THREAD SIZE | RECOMMENDED TORQUE (Nm) |
| M1.6 | 0.07 | 0.12 | 0.19 | — | — | — | ST2.2 (B2) | 0.2 |
| M2 | 0.15 | 0.24 | 0.38 | — | — | 0.5 | ST2.9 (B4) | 1.0 |
| M2.2 | 0.19 | 0.31 | 0.51 | — | — | — | ST3.5 (B6) | 1.8 |
| M2.5 | 0.28 | 0.48 | 0.77 | — | — | — | ST4.2 (B8) | 2.9 |
| M3 | 0.51 | 0.85 | 1.4 | 1.9 | 2.3 | 1.4 | ST4.8 (B10) | 4.2 |
| M3.5 | 0.8 | 1.34 | 2.2 | 3.0 | 3.6 | — | ST5.5 (B12) | 6.7 |
| M4 | 1.2 | 2.0 | 3.2 | 4.5 | 5.4 | 3.2 | ST6.3 (B14) | 9.1 |
| M5 | 2.4 | 4.0 | 6.4 | 9.0 | 10.7 | 6.5 | | |
| M6 | 4.1 | 6.8 | 10.9 | 15.3 | 18.3 | 11 | | |
| M8 | 9.8 | 16.3 | 26.1 | 36.8 | 44.1 | 26 | | |
| M10 | 19.3 | 32.2 | 51.5 | 72 | 86.9 | 52 | | |
| M12 | 33.6 | 56 | 90 | 126 | 151 | 91 | | |
| M14 | 53 | 89 | 142 | 200 | 239 | | | |
| M16 | 82 | 136 | 218 | 307 | 368 | | | |
| M18 | 114 | 190 | 304 | 428 | 513 | | | |
| M20 | 160 | 266 | 426 | 598 | 718 | | | |
| M22 | 215 | 358 | 573 | 806 | 967 | | | |

Torque figures should be used as a guide only

Table assumes fasteners are new, lightly lubricated and of a standard finish

For lock nuts with a nylon insert, +10%

Conversion Factors

$$\text{Nm} \times 141.6 = \text{oz in}$$

$$\text{Nm} \times 8.851 = \text{in lb}$$

$$\text{Nm} \times 0.73756 = \text{ft lb}$$

$$\text{Nm} \times 0.102 = \text{kgf m/kpm}$$

$$\text{Nm} \times 10.2 = \text{kgf cm}$$

For non metric threads please use the following data as a guide.

Recommended Maximum Torque Values – UNC Threads

| THREAD SIZE | QUALITY P | | QUALITY S | | QUALITY T | | |
|----------------|-----------|-------|-----------|--------|-----------|-------|-------|
| | in. | Nm | ft.lb | Nm | ft.lb | Nm | ft.lb |
| 1/4 | 5.43 | 4.00 | 10.3 | 7.60 | 11.1 | 8.19 | |
| 5/16 | 11.2 | 8.26 | 21.3 | 15.71 | 23.0 | 16.96 | |
| 3/8 | 19.9 | 14.68 | 37.9 | 27.95 | 40.9 | 30.17 | |
| 7/16 | 31.9 | 23.53 | 60.7 | 44.77 | 65.5 | 48.31 | |
| 1/2 | 48.8 | 36.00 | 92.7 | 68.37 | 100 | 73.76 | |
| 9/16 | 70.4 | 51.92 | 134 | 98.83 | 144 | 106 | |
| 5/8 | 97.4 | 71.84 | 185 | 136.45 | 200 | 147.5 | |
| 3/4 | 178 | 131.3 | 338 | 249.3 | 364 | 268.5 | |
| 7/8 | 279 | 205.8 | 530 | 391 | 572 | 422 | |
| 1 | 418 | 308.3 | 795 | 586 | 858 | 633 | |
| 1 1/8 | 593 | 437.4 | 1126 | 830 | 1216 | 897 | |
| 1 1/4 | 837 | 617.3 | 1591 | 1173 | 1717 | 1266 | |
| 1 3/8 | 1096 | 808.4 | 2083 | 1536 | 2248 | 1658 | |
| 1 1/2 | 1456 | 1074 | 2767 | 2041 | 2987 | 2203 | |

Recommended Maximum Torque Values – UNF Threads

| THREAD SIZE | QUALITY P | | QUALITY S | | QUALITY T | | |
|----------------|-----------|-------|-----------|-------|-----------|-------|-------|
| | in. | Nm | ft.lb | Nm | ft.lb | Nm | ft.lb |
| 1/4 | 6.28 | 4.63 | 11.9 | 8.78 | 12.9 | 9.51 | |
| 5/16 | 12.5 | 9.22 | 23.8 | 17.55 | 25.7 | 18.96 | |
| 3/8 | 22.7 | 16.74 | 43.2 | 31.9 | 46.6 | 34.4 | |
| 7/16 | 35.9 | 26.5 | 68.2 | 50.3 | 73.6 | 54.3 | |
| 1/2 | 55.4 | 40.9 | 105 | 77.4 | 114 | 84.0 | |
| 9/16 | 79.0 | 58.3 | 150 | 111 | 162 | 119 | |
| 5/8 | 111 | 81.9 | 210 | 155 | 227 | 167 | |
| 3/4 | 195 | 144 | 370 | 273 | 399 | 294 | |
| 7/8 | 309 | 228 | 587 | 433 | 634 | 468 | |
| 1 | 459 | 339 | 873 | 644 | 942 | 695 | |
| 1 1/8 | 667 | 492 | 1267 | 934 | 1368 | 1009 | |
| 1 1/4 | 925 | 682 | 1757 | 1296 | 1896 | 1398 | |
| 1 3/8 | 1252 | 923 | 2378 | 1754 | 2567 | 1893 | |
| 1 1/2 | 1642 | 1211 | 3119 | 2300 | 3367 | 2482 | |

Quality P = approximately ISO 4.6

Quality S/T = approximately ISO 8.8

Quality S = ANSI Grade 5



Productivity and Ergonomics

Access



90° Angle Heads



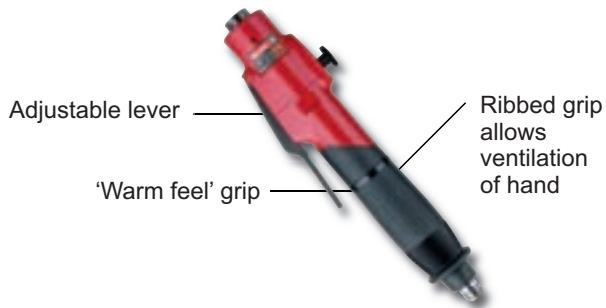
45° Angle Heads



Crowfoot
Open Ended Wrenches

Ergonomic Benefits

- Lightweight
- Short Length
- Light Start Load



For low vibration exposure and high productivity, select shut off tools where possible

Tool orientation and Operator preference



P Shape

- Self Tapping/Forming/Cutting Screws Use P Shape - arm in line with body of tool for thrust
Multi orientation Use P Shape - allows wrist to rotate into position
Top air inlet Can only use T Shape
Requires balanced tool Use T Shape - especially with screwfeeder

Button Reverse versus Rotary Reverse

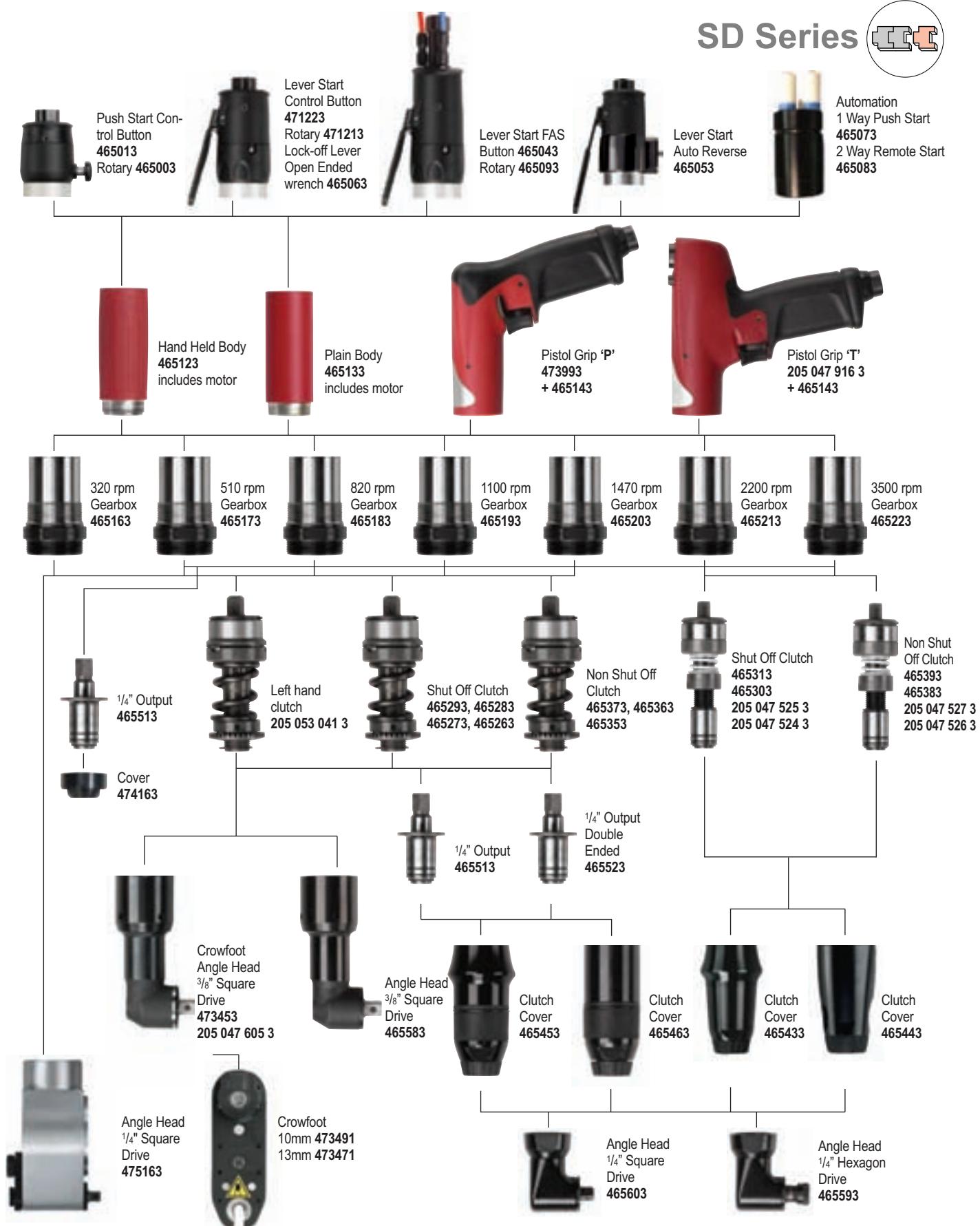
- Rapid Reverse Required Use button reverse
Thread Chasing Cleaning Use button reverse (auto reverse for blind holes)
Rivnuts/Threaded Fasteners Use auto reverse tools
Long Periods in Reverse Use rotary reverse

Push Start versus Lever Start

- Fast Cycle Rate Use push start
Single Hand Operation Required Use push start
Need to Align/Position Components First Use lever start or push + trigger start (SBP/SDP only)

Modularity

SD Series

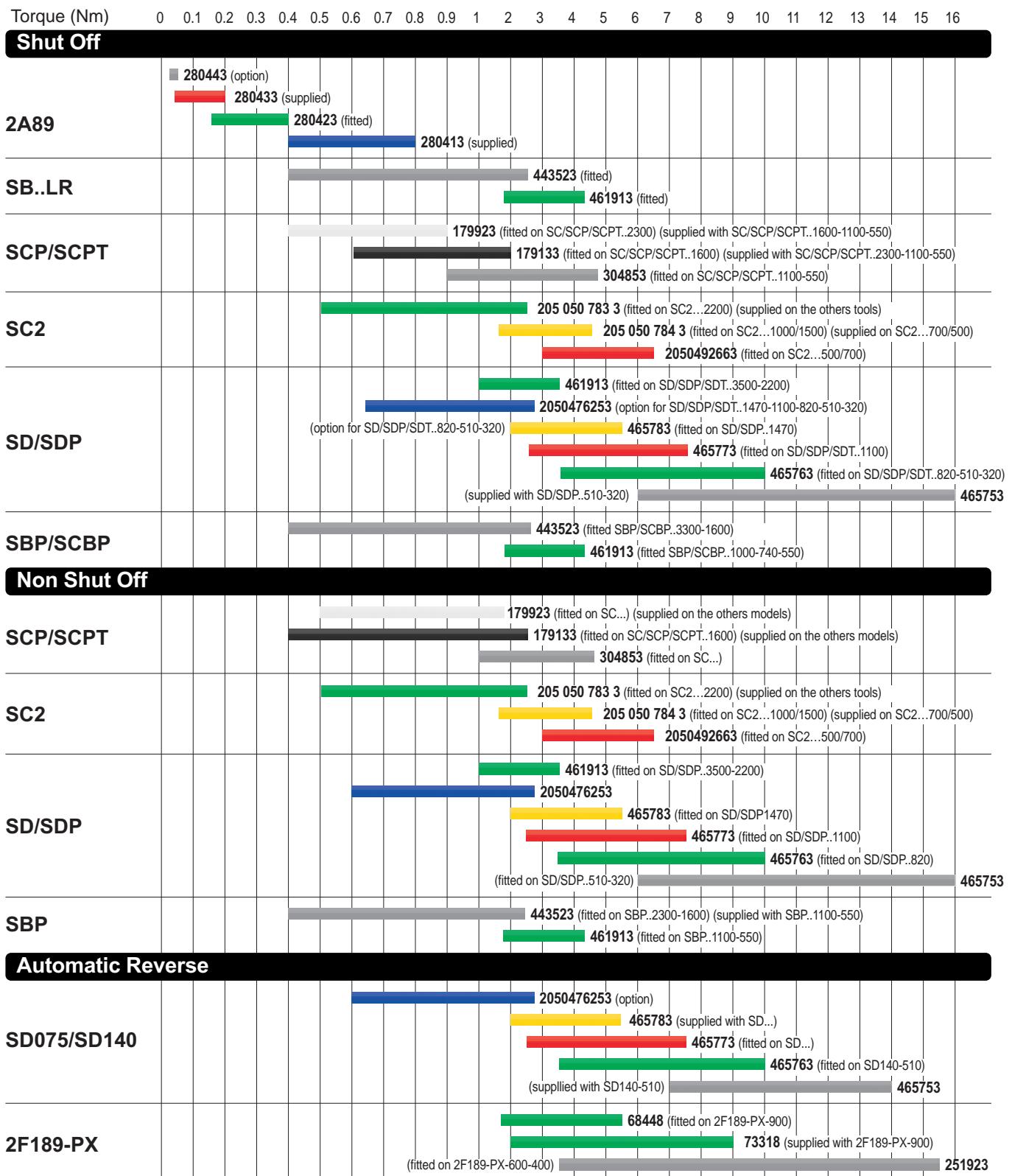


Modularity, a concept for all Desoutter pneumatic screwdrivers range

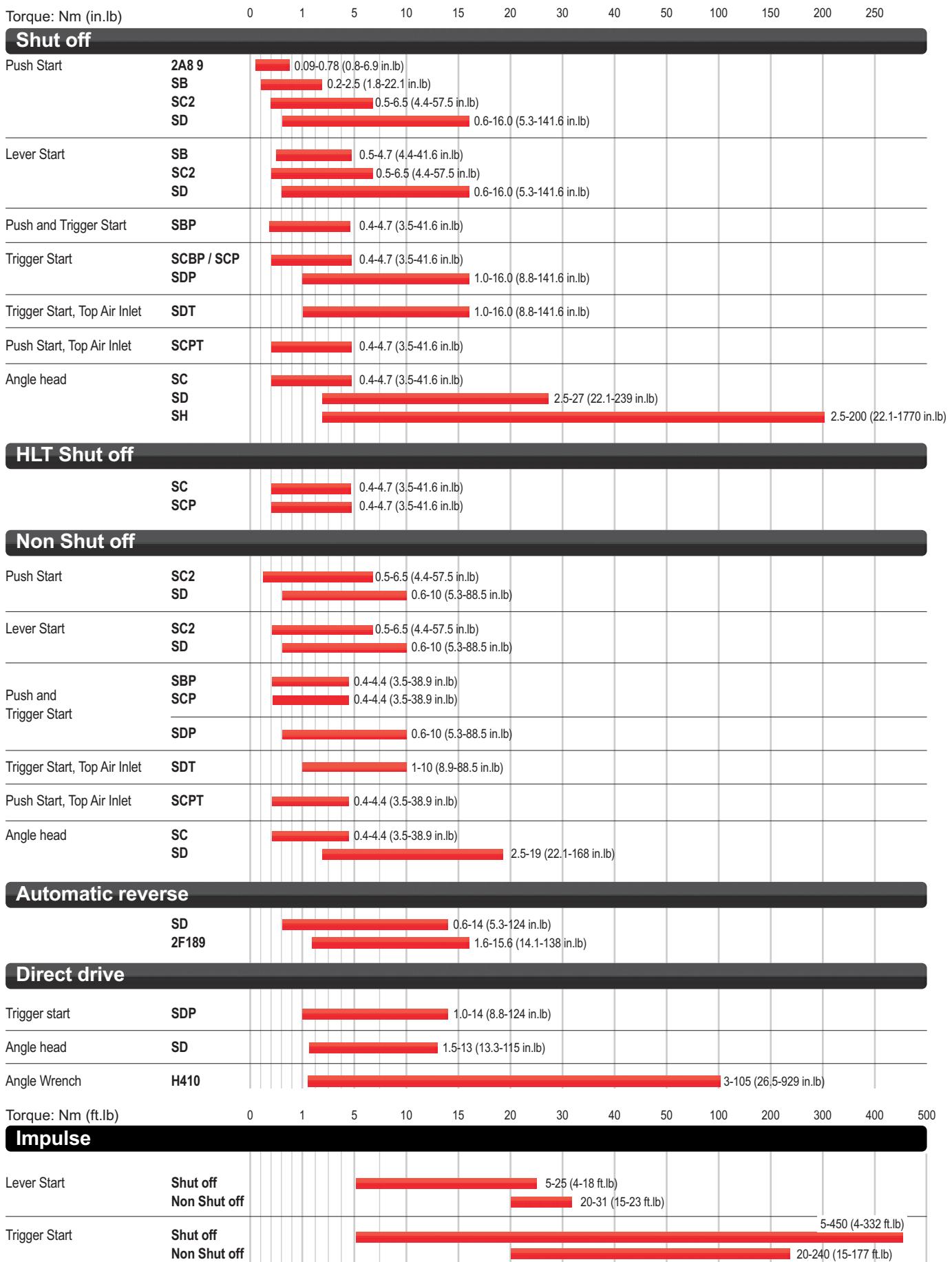
Screwdriver Torque Ranges

Torque output of the range of shut off and non shut off screwdrivers is controlled by the type of spring in the clutch assembly. The overall torque range, together with that of the factory fitted spring on a soft joint to ISO5393 are listed in the tables on the following pages. The chart below provides an indication of the torque ranges for the optional colour coded clutch springs together with their respective part numbers (some are included with certain tools). As a general rule, the tool should be fitted with a spring which ensures the torque required falls within 20 to 80% of the operating range.

Please note that the torque range of specific speed tools may alter slightly from that shown below and for this reason the chart should be used as a guide only.



Tool Types and Torque Ranges



Screwdrivers - Shut off - Push start

0.09 to 16 Nm (0.8 to 142 in.lb) - 320 to 3500 rpm



| Model | \varnothing A mm (in.) | \varnothing B mm (in.) | L mm (in.) |
|-------------|-----------------------------|-----------------------------|---------------|
| 2A89.. | 27 (1.06") | 36 (1.42") | 178 (7") |
| SB.. | 32 (1.26") | 36 (1.42") | 197 (7.76") |
| SC2 | 37.4 (1.47") | 245 (9.65") | |
| SD023..3500 | 38.7 (1.52") | 44 (1.73") | 227 (8.94") |
| SD035..2200 | 38.7 (1.52") | 44 (1.73") | 227 (8.94") |
| SD055..1470 | 38.7 (1.52") | 44 (1.73") | 253 (10") |
| SD075..1100 | 38.7 (1.52") | 44 (1.73") | 253 (10") |
| SD100..820 | 38.7 (1.52") | 44 (1.73") | 253 (10") |
| SD140..510 | 38.7 (1.52") | 44 (1.73") | 253 (10") |
| SD160..320 | 38.7 (1.52") | 44 (1.73") | 253 (10") |

Types B to C, 1/4" double ended and 5mm bit holder optional

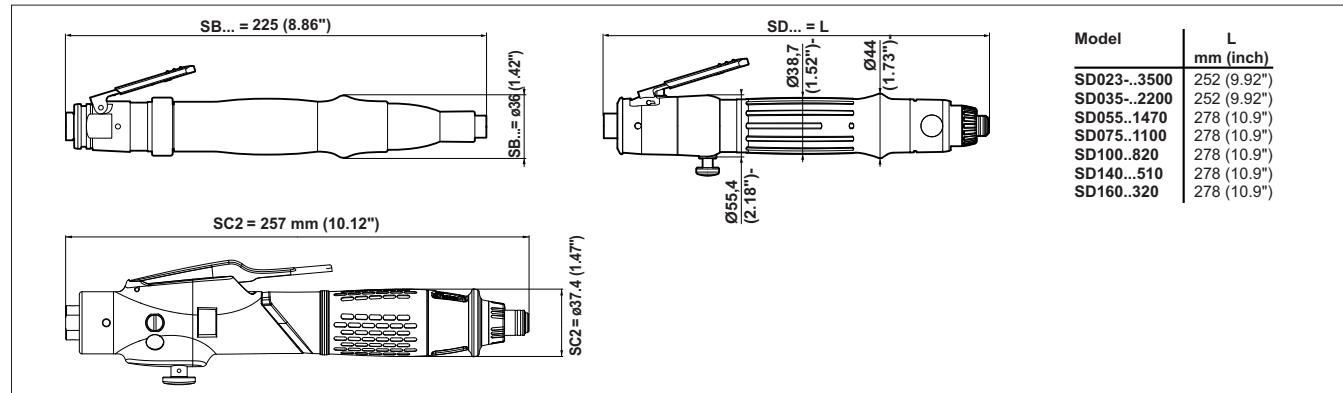
Accessories: see page 88



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | | HOSE INT. \emptyset | |
|------------|-------------------|----------------|---------------|---------------|-----------------|----------|------------------|-----------|--------|-------|-------------|------|--------------|-----|-----------------------------|----|
| | | | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm |
| A | 2A89-A-1300 | 1225434 | 1300 | 3mm | 0.09-0.56 | 0.8-4.9 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| A | 2A89-A-700 | 1225514 | 700 | 3mm | 0.09-0.75 | 0.8-6.6 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| A | 2A89-A-400 | 1225694 | 400 | 3mm | 0.09-0.78 | 0.8-6.9 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| A | 2A89-A-1300 | 1223154 | 1300 | 1/4 | 0.09-0.56 | 0.8-4.9 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| A | 2A89-A-700 | 1223234 | 700 | 1/4 | 0.09-0.75 | 0.8-6.6 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| A | 2A89-A-400 | 1223314 | 400 | 1/4 | 0.09-0.78 | 0.8-6.9 | 0.15-0.43 | 1.3-3.8 | 0.21 | 0.62 | 2.2 | 4.7 | M5 | 3 | 1/8 | |
| B | SB011-AB1600-S4Q | 1460644 | 1600 | 1/4 | 0.4-1.1 | 3.5-9.7 | 0.4-1.1 | 3.5-9.7 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| B | SB015-AB1100-S4Q | 1460634 | 1100 | 1/4 | 0.4-1.5 | 3.5-13 | 0.4-1.5 | 3.5-13 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| B | SB025-AB750-S4Q | 1460624 | 750 | 1/4 | 0.4-2.5 | 3.5-22 | 0.4-2.5 | 3.5-22 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| B | SB025-AB500-S4Q | 1460684 | 500 | 1/4 | 0.4-2.5 | 3.5-22 | 0.4-2.5 | 3.5-22 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| C | SB011-AR1600-S4Q | 1460524 | 1600 | 1/4 | 0.4-1.1 | 3.5-9.7 | 0.4-1.1 | 3.5-9.7 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| C | SB015-AR1100-S4Q | 1460514 | 1100 | 1/4 | 0.4-1.5 | 3.5-13 | 0.4-1.5 | 3.5-13 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| C | SB025-AR750-S4Q | 1460504 | 750 | 1/4 | 0.4-2.5 | 3.5-22 | 0.4-2.5 | 3.5-22 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| C | SB025-AR500-S4Q | 1460564 | 500 | 1/4 | 0.4-2.5 | 3.5-22 | 0.4-2.5 | 3.5-22 | 0.42 | 0.93 | 4.1 | 8.7 | 1/8 | 5 | 3/16 | |
| D | SC2-025-A2200-S4Q | 205 147 269 4 | 2200 | 1/4 | 0.5-2.5 | 4.4-22 | 0.5-2.5 | 4.4-22.1 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/8 | |
| D | SC2-035-A1500-S4Q | 205 147 268 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15.0-30.9 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 | |
| D | SC2-045-A1000-S4Q | 205 147 267 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15.0-39.8 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 | |
| D | SC2-055-A700-S4Q | 205 147 266 4 | 700 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3.0-5.5 | 26.5-48.6 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 | |
| D | SC2-065-A500-S4Q | 205 147 265 4 | 480 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3.0-6.5 | 26.5-57.5 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 | |
| E | SD023-AB3500-S4Q | 1462834 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD035-AB2200-S4Q | 1462824 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD055-AB1470-S4Q | 1462814 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD075-AB1100-S4Q | 1462804 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.0-66.4 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD100-AB820-S4Q | 1462794 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD140-AB510-S4Q | 1462784 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| E | SD160-AB320-S4Q | 1462774 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD023-AR3500-S4Q | 1462764 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.4 | 1.0-2.3 | 8.9-20.4 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD035-AR2200-S4Q | 1462754 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD055-AR1470-S4Q | 1462744 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD075-AR1100-S4Q | 1462734 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD100-AR820-S4Q | 1462724 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD140-AR510-S4Q | 1462714 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |
| F | SD160-AR320-S4Q | 1462704 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 | |

Screwdrivers - Shut off - Lever start

0.4 to 16 Nm (3.5 to 142 in.lb) - 320 to 3500 rpm



Accessories: see page 88



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|------------|-------------------|----------------|---------------|---------------|-----------------|----------|------------------|-----------|--------|------|-------------|------|--------------|-------------------|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SB021-LR2000-S4Q | 205 147 509 4 | 2000 | 1/4 | 0.5-2.1 | 4.4-18.6 | 0.5-2.1 | 4.4-18.6 | 0.61 | 1.34 | 7.3 | 15.5 | 1/8 | 6 | 1/4 |
| A | SB021-LR1400-S4Q | 205 147 508 4 | 1400 | 1/4 | 0.5-2.1 | 4.4-18.6 | 0.5-2.1 | 4.4-18.6 | 0.61 | 1.34 | 7.3 | 15.5 | 1/8 | 6 | 1/4 |
| A | SB043-LR1050-S4Q | 205 147 507 4 | 1050 | 1/4 | 0.4-4.3 | 3.5-38 | 0.4-2.1 | 3.5-18.6 | 0.61 | 1.34 | 7.3 | 15.5 | 1/8 | 6 | 1/4 |
| A | SB047-LR500-S4Q | 205 147 506 4 | 500 | 1/4 | 0.4-4.7 | 3.5-41.6 | 0.4-2.1 | 3.5-18.6 | 0.61 | 1.34 | 7.3 | 15.5 | 1/8 | 6 | 1/4 |
| B | SC2-025-L2200-S4Q | 205 147 283 4 | 2200 | 1/4 | 0.5-2.5 | 4.4-22 | 0.5-2.5 | 4.4-22.1 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| B | SC2-035-L1500-S4Q | 205 147 282 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15.0-30.9 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| B | SC2-045-L1000-S4Q | 205 147 281 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15.0-39.8 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| B | SC2-055-L700-S4Q | 205 147 280 4 | 700 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3.0-5.5 | 26.5-48.6 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| B | SC2-065-L500-S4Q | 205 147 279 4 | 480 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3.0-6.5 | 26.5-57.5 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| C | SD023-LB3500-S4Q | 1463094 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.4 | 1.0-2.3 | 8.9-20.4 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD035-LB2200-S4Q | 1463084 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD055-LB1470-S4Q | 1463074 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD075-LB1100-S4Q | 1463064 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD100-LB820-S4Q | 1463054 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD140-LB510-S4Q | 1463044 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD160-LB320-S4Q | 1463034 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD023-LR3500-S4Q | 1463024 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.4 | 1.0-2.3 | 8.9-20.4 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD035-LR2200-S4Q | 1463014 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD055-LR1470-S4Q | 1463004 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD075-LR1100-S4Q | 1462994 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD100-LR820-S4Q | 1462984 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD140-LR510-S4Q | 1462974 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD160-LR320-S4Q | 1462964 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

Screwdrivers - Shut off - Pistol grip

0.4 to 16 Nm (3.5 to 142 in.lb) - 180 to 3500 rpm



See page 76

| Model | $\varnothing A$ | L mm (in.) | Model | L mm (in.) |
|--------------|-----------------|---------------|--------------|---------------|
| | mm (in.) | | | |
| SBP.. | 31 (1.22") | 182 (7.17") | SDT023..3500 | 212 (8.35") |
| SCBP.. | 31 (1.22") | 182 (7.17") | SDT035..1100 | 212 (8.35") |
| SCP... | 34 (1.34") | 228 (8.97") | SDT035..2200 | 212 (8.35") |
| SCPT.. | 34 (1.34") | 230 (9.06") | SDT055..1470 | 238 (9.37") |
| SDP023..3400 | 36 (1.42") | 194 (7.64") | SDT075..1100 | 238 (9.37") |
| SDP035..2100 | 36 (1.42") | 194 (7.64") | SDT100..800 | 238 (9.37") |
| SDP055..1400 | 36 (1.42") | 220 (8.66") | SDT140..510 | 238 (9.37") |
| SDP075..1050 | 36 (1.42") | 220 (8.66") | SDT160..320 | 238 (9.37") |
| SDP100..780 | 36 (1.42") | 220 (8.66") | | |
| SDP140..490 | 36 (1.42") | 220 (8.66") | | |
| SDP160..300 | 36 (1.42") | 220 (8.66") | | |
| SDP045..180 | 36 (1.42") | 220 (8.66") | | |

Types D and E, Top air inlet

Accessories: see page 88

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|---------|-------|-------------|------------|------------|--------------|-------|---------------|-------|--------|-----|----------|-----|-----------|-------------|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| | | | | | | | | | | | | | | | |

PUSH AND TRIGGER START

| | | | | | | | | | | | | | | | |
|---|------------------|---------|------|-----|---------|----------|---------|-----------|------|------|-----|------|-----|---|-----|
| A | SBP021-T2300-S4Q | 1462144 | 2300 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-2.1 | 3.5-18.6 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP021-T1600-S4Q | 1462154 | 1600 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-2.1 | 3.5-18.6 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP043-T1100-S4Q | 1462164 | 1100 | 1/4 | 0.4-4.3 | 3.5-38 | 1.8-4.3 | 15.9-38.0 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP047-T550-S4Q | 1462174 | 550 | 1/4 | 0.4-4.7 | 3.5-41.6 | 1.8-4.7 | 15.9-41.5 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |

TRIGGER START

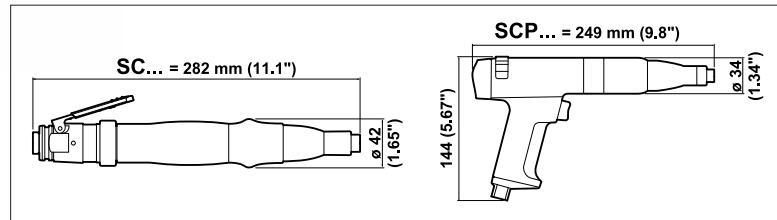
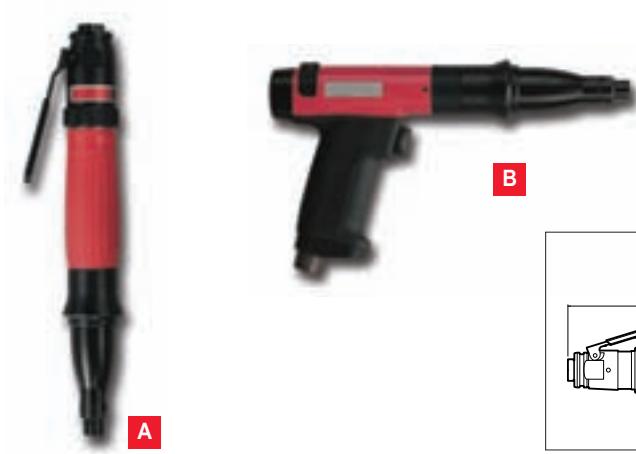
| | | | | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|---------|-----------|---------|-----------|------|------|-----|------|-----|----|-----|
| A | SCBP021-T2300-S4Q | 1466374 | 2300 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-2.1 | 3.5-18.6 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SCBP021-T1600-S4Q | 1466364 | 1600 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-2.1 | 3.5-18.6 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SCBP043-T1100-S4Q | 1466354 | 1100 | 1/4 | 0.4-4.3 | 3.5-38 | 1.8-4.3 | 15.9-38 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SCBP044-T740-S4Q | 1466344 | 740 | 1/4 | 0.4-4.4 | 3.5-39 | 1.8-4.4 | 15.9-39 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SCBP047-T550-S4Q | 1466334 | 550 | 1/4 | 0.4-4.7 | 3.5-41.6 | 1.8-4.7 | 15.9-41.6 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP021-T2300-S4Q | 1456734 | 2300 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP021-T1600-S4Q | 1456744 | 1600 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP043-T1100-S4Q | 1456754 | 1100 | 1/4 | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP047-T550-S4Q | 1456764 | 550 | 1/4 | 0.4-4.7 | 3.5-41.6 | 0.9-4.7 | 7.9-41.6 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SDP023-T3400-S4Q | 1465574 | 3400 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.9 | 1.98 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP035-T2100-S4Q | 1465564 | 2100 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 0.9 | 1.98 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP055-T1400-S4Q | 1465554 | 1400 | 1/4 | 1.0-5.5 | 8.9-48.7 | 1.0-5.5 | 8.9-48.7 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP075-T1050-S4Q | 1465544 | 1050 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP100-T780-S4Q | 1465534 | 780 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP140-T490-S4Q | 1465524 | 490 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31.0-88.5 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP160-T300-S4Q | 1465514 | 300 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31.0-88.5 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP045-T180-S4Q | 205 146 706 4 | 180 | 1/4 | 1.5-4.5 | 13.3-39.8 | 1.5-4.5 | 13.3-39.8 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT023-T3500-S4Q | 1465784 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT035-T1100-S4Q | 205 147 623 4 | 1100 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 1.0 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT035-T2200-S4Q | 1465774 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT055-T1470-S4Q | 1465764 | 1470 | 1/4 | 2.0-5.5 | 17.7-48.7 | 2.0-5.5 | 17.7-48.7 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT055-T1100-S4Q | 1465754 | 1100 | 1/4 | 2.5-7.5 | 22.1-66.4 | 2.5-7.5 | 22.1-66.4 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT100-T820-S4Q | 1465744 | 820 | 1/4 | 3.5-10 | 31.0-88.5 | 3.5-10 | 31.0-88.5 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT140-T510-S4Q | 1465734 | 510 | 1/4 | 3.5-14 | 31.0-124 | 3.5-10 | 31.0-88.5 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT160-T320-S4Q | 1465724 | 320 | 1/4 | 3.5-16 | 31.0-142 | 3.5-10 | 31.0-88.5 | 1.1 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |

PUSH START, TOP AIR INLET

| | | | | | | | | | | | | | | | |
|---|-------------------|---------|------|-----|---------|----------|---------|----------|------|------|-----|------|-----|---|-----|
| E | SCPT021-A2300-S4Q | 1458974 | 2300 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| E | SCPT021-A1600-S4Q | 1458934 | 1600 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| E | SCPT043-A1100-S4Q | 1458894 | 1100 | 1/4 | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38.0 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| E | SCPT047-A550-S4Q | 1458854 | 550 | 1/4 | 0.4-4.7 | 3.5-41.6 | 0.9-4.7 | 7.9-41.6 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |

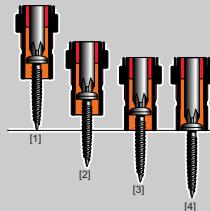
Screwdrivers - Shut off HLT

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 1600 rpm

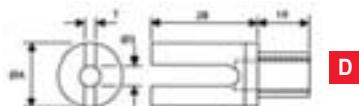
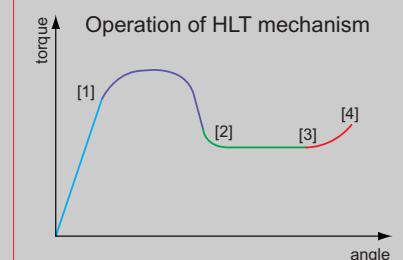


TYPICAL HLT CYCLE

- 1 Tool starts to cut/form thread – direct drive
- 2 Thread is cut/formed, rundown continues – direct drive
- 3 Depth stop touches component, drive engages clutch
- 4 Final torque achieved, clutch operates and air supply is shut off



Depth stop changes tool from direct drive to clutch operation



DEPTH STOPS

| PIC REF | PART NUMBER | LENGTH |
|---------|-------------|--------|
| | | mm |
| C | 440833 | 28 |
| C | 440843 | 48 |
| C | 440853 | 127 |

| PIC REF | PART NUMBER | T | ØA |
|---------|-------------|----|----|
| | | mm | mm |
| D | 440863* | 5 | 25 |

* Supplied with tools

Accessories: see page 88

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|---------|--------------------|-------------|------------|------------|--------------|----------|---------------|----------|--------|------|----------|------|-----------|-------------|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SC009-L1600-HLT4M | 1459644 | 1600 | 1/4 | 0.4-0.9 | 3.5-7.9 | 0.4-0.9 | 3.5-7.9 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| A | SC021-L1600-HLT4M | 1459614 | 1600 | 1/4 | 0.6-2.1 | 5.3-18.6 | 0.6-2.1 | 5.3-18.6 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| A | SC022-L1100-HLT4M | 1459654 | 1100 | 1/4 | 0.6-2.1 | 5.3-18.6 | 0.6-2.1 | 5.3-18.6 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| A | SC022-L550-HLT4M | 1459664 | 550 | 1/4 | 0.6-2.1 | 5.3-18.6 | 0.6-2.1 | 5.3-18.6 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| A | SC043-L1100-HLT4M | 1459624 | 1100 | 1/4 | 0.9-4.3 | 7.9-38.0 | 0.9-4.3 | 7.9-38.0 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| A | SC047-L550-HLT4M | 1459634 | 550 | 1/4 | 0.9-4.7 | 7.9-41.6 | 0.9-4.7 | 7.9-41.6 | 0.79 | 1.74 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| B | SCP009-T1600-HLT4M | 1459704 | 1600 | 1/4 | 0.4-0.9 | 3.5-7.9 | 0.4-0.9 | 3.5-7.9 | 1.00 | 2.20 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| B | SCP021-T1600-HLT4M | 1459714 | 1600 | 1/4 | 0.6-2.1 | 5.3-18.6 | 0.6-2.1 | 5.3-18.6 | 1.00 | 2.20 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| B | SCP022-T1100-HLT4M | 1459724 | 1100 | 1/4 | 0.6-2.1 | 5.3-18.6 | 0.6-2.1 | 5.3-18.6 | 1.00 | 2.20 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| B | SCP043-T1100-HLT4M | 1459734 | 1100 | 1/4 | 0.9-4.3 | 7.9-38.0 | 0.9-4.3 | 7.9-38.0 | 1.00 | 2.20 | 7 | 15.4 | 1/8 | 6 | 1/4 |
| B | SCP047-T550-HLT4M | 1459754 | 550 | 1/4 | 0.9-4.7 | 7.9-41.6 | 0.9-4.7 | 7.9-41.6 | 1.00 | 2.20 | 7 | 15.4 | 1/8 | 6 | 1/4 |

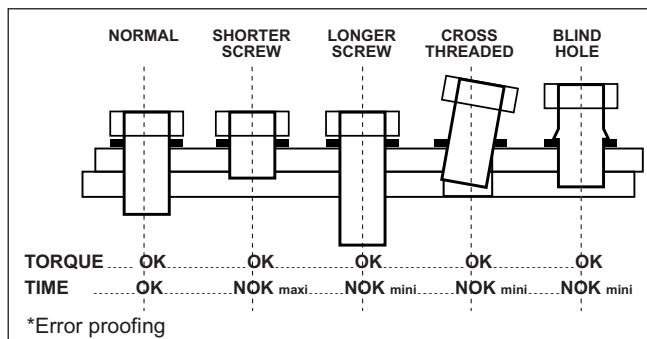
FAS3000 – Fastening Assurance System

The FAS3000 – Fastening Assurance System provides the ability to verify that all the fasteners in an assembly have been correctly fastened without the level of investment usually associated with assembly control systems and additional inspection.

Features

- Automatic and quick calibration.
- 8 programs for different fastener profiles.
- Up to 250 fasteners per program.
- OK and Not OK visual indicators for each fastener.
- Audible error warning for Not OK.
- 'Group Cycle Complete' visual indicator.
- Manual lockable reset switch.
- Password protection of parameters.
- 4 output sockets for interfacing with other equipment including inputs as well as output signals.
- EMC approved.

Coded error messages



START-UP KIT

to be ordered with the FAS3000

PART NO.

POWER CABLE AND PLUG

LENGTH

| | | | |
|---------------|----------|----------|---------------|
| A Power Cable | European | 2m (78") | 615 917 201 0 |
| B Power Cable | USA | 2m (78") | 615 917 203 0 |
| C Power Cable | English | 2m (78") | 615 917 202 0 |

ACCESSORIES INCLUDED

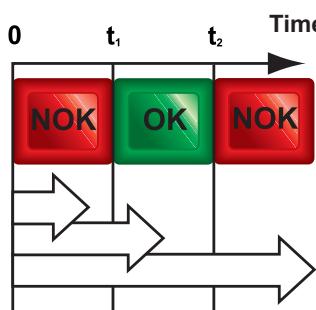
| ITEM | LENGTH | PART NO. |
|------------------------|-----------|---------------|
| D Sensor Assembly | 2m (78") | 205 047 908 3 |
| E Sensor electric cord | 5m (197") | 205 047 964 3 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|-------------------------|---------------|
| 1 Male Stud Elbow M5-D4 | 615 746 083 0 |
| 2 Male Stud M5-D4 | 615 746 144 0 |
| 3 Tube connector D4-D4 | 615 746 145 0 |
| • M5 Straight Fitting | 444973 |
| • M5 Elbow Fitting | 444983 |

| MODEL | PART NUMBER | LENGTH | | WIDTH | | HEIGHT | | WEIGHT | | SUPPLY VOLTAGE |
|---------|---------------|--------|------|-------|-----|--------|-----|--------|-----|-------------------------------------|
| | | mm | in. | mm | in. | mm | in. | kg | lb. | |
| FAS3000 | 205 146 677 4 | 317 | 12.5 | 161 | 6.4 | 87 | 3.4 | 3 | 6.6 | AC220-240V, 50Hz & AC110-120V, 60Hz |

By comparing the timing of pneumatic signals from a shut off screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK.



OPERATING SEQUENCE

t₁ = Minimum time

t₂ = Maximum time

Clutch operated before minimum time, lever/trigger released before minimum time.

Indicates crossed thread, screw too short, thread too short, too many washers. Clutch operated within time limits - OK.

Clutch operated after maximum time. Screw too long, no thread in component, stripped thread, no washers on assembly.

Screwdrivers - Fastening Assurance System

0.4 to 27 Nm (3.5 to 239 in.lb) - 320 to 3500 rpm



For using D and E tools with FAS3000, order
FAS control top devices :
FAS Control Top Rotary
Reverse P.N. **465093**
FAS Control Top Button
Reverse P.N. **465043**

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|---------|-------|-------------|------------|------------|--------------|-------|---------------|-------|--------|-----|----------|-----|-----------|-------------|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |

PISTOL GRIP

| | | | | | | | | | | | | | | | |
|---|--------------------|---------|------|-----|---------|----------|---------|----------|------|-----|-----|------|-----|---|-----|
| A | SCP021-T2300-FAS4Q | 1461124 | 2300 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 0.93 | 2.0 | 6.0 | 12.6 | 1/8 | 6 | 1/4 |
| A | SCP021-T1600-FAS4Q | 1461134 | 1600 | 1/4 | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 0.93 | 2.0 | 6.0 | 12.6 | 1/8 | 6 | 1/4 |
| A | SCP043-T1100-FAS4Q | 1461144 | 1100 | 1/4 | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 0.93 | 2.0 | 6.0 | 12.6 | 1/8 | 6 | 1/4 |
| A | SCP047-T550-FAS4Q | 1461154 | 550 | 1/4 | 0.4-4.7 | 3.5-41.6 | 0.9-4.7 | 7.9-41.6 | 0.93 | 2.0 | 6.0 | 12.6 | 1/8 | 6 | 1/4 |

T SHAPE TOOLS

| | | | | | | | | | | | | | | | |
|---|------------------|---------------|------|-----|---------|-----------|---------|-----------|------|-----|-----|------|-----|----|-----|
| B | SDT023-T3500-S4Q | 1465784 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.4 | 1.0-2.3 | 8.9-20.3 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT035-T1100-S4Q | 205 147 623 4 | 1100 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 1.00 | 2.2 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT035-T2200-S4Q | 1465774 | 2200 | 1/4 | 1.0-3.5 | 8.9-31 | 1.0-3.5 | 8.9-31 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT055-T1470-S4Q | 1465764 | 1470 | 1/4 | 2.0-5.5 | 17.7-48.7 | 2.0-5.5 | 17.7-48.7 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT075-T1100-S4Q | 1465754 | 1100 | 1/4 | 2.5-7.5 | 22.1-66.4 | 2.5-7.5 | 22.1-66.4 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT100-T800-S4Q | 1465744 | 820 | 1/4 | 3.5-10 | 31.0-88.5 | 3.5-10 | 31.0-88.5 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT140-T510-S4Q | 1465734 | 510 | 1/4 | 3.5-14 | 31.0-124 | 3.5-10 | 31.0-88.5 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| B | SDT160-T320-S4Q | 1465724 | 320 | 1/4 | 3.5-16 | 31.0-142 | 3.5-10 | 31.0-88.5 | 1.10 | 2.4 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |

IN-LINE TOOLS

| | | | | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|---------|----------|---------|-----------|------|-----|-----|------|-----|----|-----|
| C | SC2-025-L2200-S4Q | 205 147 283 4 | 2200 | 1/4 | 0.5-2.5 | 4.4-22 | 0.5-2.5 | 4.4-22.1 | 0.69 | 1.5 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| C | SC2-035-L1500-S4Q | 205 147 282 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15-30.9 | 0.69 | 1.5 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| C | SC2-045-L1000-S4Q | 205 147 281 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15-39.8 | 0.69 | 1.5 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| C | SC2-055-L700-S4Q | 205 147 280 4 | 700 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3-5.5 | 26.5-48.6 | 0.69 | 1.5 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| C | SC2-065-L500-S4Q | 205 147 279 4 | 480 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3.6-5 | 26.5-57.5 | 0.69 | 1.5 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| D | SD023-LB3500-S4Q | 1463094 | 3500 | 1/4 | 1-2.3 | 8.9-20.4 | 1-2.3 | 8.9-20.4 | 0.76 | 1.7 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD035-LB2200-S4Q | 1463084 | 2200 | 1/4 | 1-3.5 | 8.9-31 | 1-3.5 | 8.9-31 | 0.76 | 1.7 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD055-LB1470-S4Q | 1463074 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2-5.5 | 17.7-48.7 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD075-LB1100-S4Q | 1463064 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD100-LB820-S4Q | 1463054 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD140-LB510-S4Q | 1463044 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD160-LB320-S4Q | 1463034 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD023-LR3500-S4Q | 1463024 | 3500 | 1/4 | 1-2.3 | 8.9-20.4 | 1-2.3 | 8.9-20.4 | 0.76 | 1.7 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD035-LR2200-S4Q | 1463014 | 2200 | 1/4 | 1-3.5 | 8.9-31 | 1-3.5 | 8.9-31 | 0.76 | 1.7 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD055-LR1470-S4Q | 1463004 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2-5.5 | 17.7-48.7 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD075-LR1100-S4Q | 1462994 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD100-LR820-S4Q | 1462984 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD140-LR510-S4Q | 1462974 | 510 | 1/4 | 0.6-14 | 5.3-124 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD160-LR320-S4Q | 1462964 | 320 | 1/4 | 0.6-16 | 5.3-142 | 3.5-10 | 31-88.5 | 0.92 | 2.0 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

ANGLE TOOLS

| | | | | | | | | | | | | | | | |
|---|-----------------------|---------|------|--------|---------|-----------|---------|-----------|------|-----|-----|------|-----|----|-----|
| E | SD070-LB1100-S90-A4H | 1463254 | 1100 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB820-S90-A4H | 1463244 | 820 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB510-S90-A4H | 1463234 | 510 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB320-S90-A4H | 1463224 | 320 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR1100-S90-A4H | 1463294 | 1100 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR820-S90-A4H | 1463284 | 820 | 1/4 | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.12 | 2.5 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR510-S90-A4S | 1463374 | 1100 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB820-S90-A4S | 1463364 | 820 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB510-S90-A4S | 1463354 | 510 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LB320-S90-A4S | 1463344 | 320 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR1100-S90-A4S | 1463414 | 1100 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR820-S90-A4S | 1463404 | 820 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR510-S90-A4S | 1463394 | 510 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD070-LR320-S90-A4S | 1463384 | 320 | 1/4 sq | 2.5-7 | 22.1-61.9 | 2.5-7 | 22.1-61.9 | 1.11 | 2.4 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD072-LB1080-S90-A10S | 1463504 | 1080 | 3/8 sq | 2.5-7.2 | 22.1-63.7 | 2.5-7.2 | 22.1-63.7 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD095-LB800-S90-A10S | 1463494 | 800 | 3/8 sq | 3-9.5 | 26.5-84.0 | 3-9.5 | 26.5-84 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD130-LB600-S90-A10S | 1463484 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD209-LB370-S90-A10S | 1463474 | 370 | 3/8 sq | 6-19 | 53.1-168 | 6-19 | 53.1-168 | 1.50 | 3.3 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD300-LB250-S90-A10S | 1463464 | 250 | 3/8 sq | 11-27 | 97.3-239 | 11-27 | 97.3-239 | 1.50 | 3.3 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD072-LR1080-S90-A10S | 1463554 | 1080 | 3/8 sq | 2.5-7.2 | 22.1-63.7 | 2.5-7.2 | 22.1-63.7 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD095-LR800-S90-A10S | 1463544 | 800 | 3/8 sq | 3-9.5 | 26.5-84 | 3-9.5 | 26.5-84 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD130-LR600-S90-A10S | 1463534 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 1.41 | 3.1 | 8.7 | 18.4 | 1/4 | 10 | |

Screwdrivers - Non Shut off - Push and Lever start

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 510 to 3500 rpm



| | | | |
|-----------------------|----------|-------------|---------------|
| SC2 = 257 mm (10.12") | SD.. = L | Model | L mm (in.) |
| | | SD023..3500 | 252 (9.92") |
| | | SD035..2200 | 252 (9.92") |
| | | SD055..1470 | 278 (10.9") |
| | | SD075..1100 | 278 (10.9") |
| | | SD100..820 | 278 (10.9") |
| | | SD100..510 | 278 (10.9") |

Types A, B and F - 5/16" hex bit holder optional

Accessories: see page 88



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | FITTED SPRING | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø |
|---------|-------|-------------|------------|------------|--------------|---------------|--------|----------|-----------|-------------|
| | | | rpm | in. | Nm in.lb | Nm | in.lb | kg lb. | l/s cfm | in. mm in. |

PUSH START

| | | | | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|---------|----------|---------|-----------|------|------|-----|------|-----|----|-----|
| A | SC2-025-A2200-R4Q | 205 147 276 4 | 2200 | 1/4 | 0.5-2.5 | 4.4-22.0 | 0.5-2.5 | 4.4-22.1 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| A | SC2-035-A1500-R4Q | 205 147 275 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15.0-30.9 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| A | SC2-045-A1000-R4Q | 205 147 274 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15.0-39.8 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| A | SC2-055-A700-R4Q | 205 147 273 4 | 700 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3.0-5.5 | 26.5-48.6 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| A | SC2-065-A500-R4Q | 205 147 272 4 | 480 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3.0-6.5 | 26.5-57.5 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| B | SD023-AB3500-R4Q | 1462954 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | SD035-AB2200-R4Q | 1462944 | 2200 | 1/4 | 1.0-3.5 | 8.9-31.0 | 1.0-3.5 | 8.9-31.0 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | SD055-AB1470-R4Q | 1462934 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | SD075-AB1100-R4Q | 1462924 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | SD100-AB820-R4Q | 1462914 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | SD100-AB510-R4Q | 1462904 | 510 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD023-AR3500-R4Q | 1462894 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD035-AR2200-R4Q | 1462884 | 2200 | 1/4 | 1.0-3.5 | 8.9-31.0 | 1.0-3.5 | 8.9-31.0 | 0.73 | 1.61 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD055-AR1470-R4Q | 1462874 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD075-AR1100-R4Q | 1462864 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD100-AR820-R4Q | 1462854 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD100-AR510-R4Q | 1462844 | 510 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

LEVER START

| | | | | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|---------|----------|---------|-----------|------|------|-----|------|-----|----|-----|
| D | SC2-025-L2200-R4Q | 205 147 290 4 | 2200 | 1/4 | 0.5-2.5 | 4.4-22.0 | 0.5-2.5 | 4.4-22.1 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| D | SC2-035-L1500-R4Q | 205 147 289 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15.0-30.9 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| D | SC2-045-L1000-R4Q | 205 147 288 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15.0-39.8 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| D | SC2-055-L700-R4Q | 205 147 287 4 | 700 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3.0-5.5 | 26.5-48.6 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| D | SC2-065-L500-R4Q | 205 147 286 4 | 480 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3.0-6.5 | 26.5-57.5 | 0.69 | 1.52 | 7.0 | 14.8 | 1/4 | 6 | 1/4 |
| E | SD023-LB3500-R4Q | 1463214 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD035-LB2200-R4Q | 1463204 | 2200 | 1/4 | 1.0-3.5 | 8.9-31.0 | 1.0-3.5 | 8.9-31.0 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD055-LB1470-R4Q | 1463194 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD075-LB1100-R4Q | 1463184 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD100-LB820-R4Q | 1463174 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD100-LB510-R4Q | 1463164 | 510 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD023-LR3500-R4Q | 1463154 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD035-LR2200-R4Q | 1463144 | 2200 | 1/4 | 1.0-3.5 | 8.9-31.0 | 1.0-3.5 | 8.9-31.0 | 0.76 | 1.67 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD055-LR1470-R4Q | 1463134 | 1470 | 1/4 | 0.6-5.5 | 5.3-48.7 | 2.0-5.5 | 17.7-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD075-LR1100-R4Q | 1463124 | 1100 | 1/4 | 0.6-7.5 | 5.3-66.4 | 2.5-7.5 | 22.1-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD100-LR820-R4Q | 1463114 | 820 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| F | SD100-LR510-R4Q | 1463104 | 510 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

Screwdrivers - Non Shut Off - Pistol Grip

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 300 to 3500 rpm



| <table border="1"> <thead> <tr> <th>Model</th> <th>L mm (in.)</th> </tr> </thead> <tbody> <tr><td>SDP023-T3400</td><td>222 (8.74")</td></tr> <tr><td>SDP035-T2100</td><td>222 (8.74")</td></tr> <tr><td>SDP055-T1400</td><td>248 (9.76")</td></tr> <tr><td>SDP075-T1050</td><td>248 (9.76")</td></tr> <tr><td>SDP100-T780</td><td>248 (9.76")</td></tr> <tr><td>SDP100-T490</td><td>248 (9.76")</td></tr> <tr><td>SDP100-T300</td><td>248 (9.76")</td></tr> </tbody> </table> | Model | L mm (in.) | SDP023-T3400 | 222 (8.74") | SDP035-T2100 | 222 (8.74") | SDP055-T1400 | 248 (9.76") | SDP075-T1050 | 248 (9.76") | SDP100-T780 | 248 (9.76") | SDP100-T490 | 248 (9.76") | SDP100-T300 | 248 (9.76") | <table border="1"> <thead> <tr> <th>Model</th> <th>L mm (in.)</th> </tr> </thead> <tbody> <tr><td>SDT023..3500</td><td>212 (8.35")</td></tr> <tr><td>SDT035..2200</td><td>212 (8.35")</td></tr> <tr><td>SDT055..1470</td><td>238 (9.37")</td></tr> <tr><td>SDT075..1100</td><td>238 (9.37")</td></tr> <tr><td>SDT100..800</td><td>238 (9.37")</td></tr> <tr><td>SDT140..510</td><td>238 (9.37")</td></tr> <tr><td>SDT160..320</td><td>238 (9.37")</td></tr> </tbody> </table> | Model | L mm (in.) | SDT023..3500 | 212 (8.35") | SDT035..2200 | 212 (8.35") | SDT055..1470 | 238 (9.37") | SDT075..1100 | 238 (9.37") | SDT100..800 | 238 (9.37") | SDT140..510 | 238 (9.37") | SDT160..320 | 238 (9.37") | |
|---|---------------|---------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|-------|---------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Model | L mm (in.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP023-T3400 | 222 (8.74") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP035-T2100 | 222 (8.74") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP055-T1400 | 248 (9.76") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP075-T1050 | 248 (9.76") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP100-T780 | 248 (9.76") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP100-T490 | 248 (9.76") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDP100-T300 | 248 (9.76") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | L mm (in.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT023..3500 | 212 (8.35") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT035..2200 | 212 (8.35") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT055..1470 | 238 (9.37") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT075..1100 | 238 (9.37") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT100..800 | 238 (9.37") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT140..510 | 238 (9.37") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDT160..320 | 238 (9.37") | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Accessories: see page 88

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | FITTED SPRING | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | | |
|------------|-------|----------------|---------------|---------------|-----------------|------------------|--------|-------------|--------------|-------------------|-----|-----|-----|----|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |

PUSH AND TRIGGER START

| | | | | | | | | | | | | | | | |
|---|------------------|---------|------|-----|---------|----------|---------|-----------|------|------|-----|------|-----|---|-----|
| A | SBP024-T2300-R4Q | 1462184 | 2300 | 1/4 | 0.5-2.4 | 4.4-21.2 | 0.5-2.4 | 4.4-21.2 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP022-T1600-R4Q | 1462194 | 1600 | 1/4 | 0.5-2.2 | 4.4-19.4 | 0.5-2.2 | 4.4-19.4 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP044-T1100-R4Q | 1462204 | 1100 | 1/4 | 0.4-4.4 | 3.5-38.9 | 1.8-4.4 | 15.9-38.9 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SBP044-T550-R4Q | 1462214 | 550 | 1/4 | 0.4-4.4 | 3.5-38.9 | 1.8-4.4 | 15.9-38.9 | 0.82 | 1.81 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |

TRIGGER START

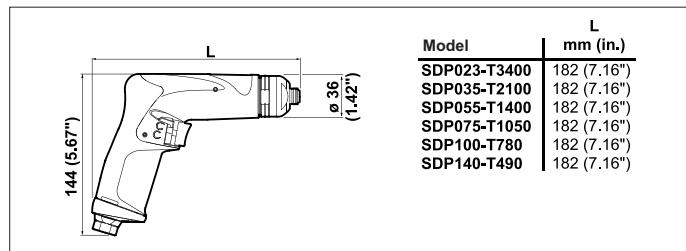
| | | | | | | | | | | | | | | | |
|---|------------------|---------------|------|-----|---------|-----------|---------|-----------|------|------|-----|------|-----|----|-----|
| B | SCP024-T2300-R4Q | 1456774 | 2300 | 1/4 | 0.5-2.4 | 4.4-21.2 | 0.5-1.8 | 4.4-15.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP022-T1600-R4Q | 1456784 | 1600 | 1/4 | 0.5-2.2 | 4.4-19.4 | 0.8-2.2 | 7.1-19.4 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP044-T1100-R4Q | 1456794 | 1100 | 1/4 | 0.4-4.4 | 3.5-38.9 | 1.3-4.4 | 11.5-38.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SCP044-T550-R4Q | 1456804 | 550 | 1/4 | 0.4-4.4 | 3.5-38.9 | 1.0-4.4 | 8.9-38.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SDP023-T3400-R4Q | 1465644 | 3400 | 1/4 | 1.0-2.3 | 8.8-20.3 | 1.0-2.3 | 8.9-20.3 | 0.90 | 1.98 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP035-T2100-R4Q | 1465634 | 2100 | 1/4 | 1.0-3.5 | 8.8-31.0 | 1.0-3.5 | 8.9-31.0 | 0.90 | 1.98 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP055-T1400-R4Q | 1465624 | 1400 | 1/4 | 1.0-5.5 | 8.8-48.6 | 1.0-5.5 | 8.9-48.6 | 1.00 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP075-T1050-R4Q | 1465614 | 1050 | 1/4 | 0.6-7.5 | 5.3-66.3 | 2.5-7.5 | 22.1-66.3 | 1.00 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP100-T780-R4Q | 1465604 | 780 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 1.00 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP100-T490-R4Q | 1465594 | 490 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 1.00 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| C | SDP100-T300-R4Q | 1465584 | 300 | 1/4 | 0.6-10 | 5.3-88.5 | 3.5-10 | 31.0-88.5 | 1.00 | 2.20 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT023-T3500-R4Q | 205 147 635 4 | 3500 | 1/4 | 1.0-2.3 | 8.9-20.3 | 1.0-2.3 | 8.9-20.3 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT035-T2200-R4Q | 205 147 636 4 | 2200 | 1/4 | 1.0-3.5 | 8.9-31.0 | 1.0-3.5 | 8.9-31.0 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT055-T1470-R4Q | 205 147 637 4 | 1470 | 1/4 | 2.0-5.5 | 17.7-48.7 | 2.0-5.5 | 17.7-48.7 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT075-T1100-R4Q | 205 147 638 4 | 1100 | 1/4 | 2.5-7.5 | 22.1-66.4 | 2.5-7.5 | 22.1-66.4 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT100-T820-R4Q | 205 147 639 4 | 820 | 1/4 | 3.5-10 | 31.0-88.5 | 3.5-10 | 31.0-88.5 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT100-T510-R4Q | 205 147 644 4 | 510 | 1/4 | 3.5-10 | 31.0-88.5 | 3.5-10 | 31.0-88.5 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| D | SDT100-T320-R4Q | 205 147 641 4 | 320 | 1/4 | 3.5-10 | 31.0-88.5 | 3.5-10 | 31.0-88.5 | 1.10 | 2.42 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |

PUSH START, TOP AIR INLET

| | | | | | | | | | | | | | | | |
|---|-------------------|---------|------|-----|---------|----------|---------|-----------|------|------|-----|------|-----|---|-----|
| E | SCPT024-A2300-R4Q | 1458994 | 2300 | 1/4 | 0.5-2.4 | 4.4-21.2 | 0.5-1.8 | 4.4-15.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| E | SCPT022-A1600-R4Q | 1458954 | 1600 | 1/4 | 0.5-2.2 | 4.4-19.4 | 0.8-2.2 | 7.1-19.4 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| E | SCPT044-A1100-R4Q | 1458914 | 1100 | 1/4 | 0.4-4.4 | 3.5-38.9 | 1.3-4.4 | 11.5-38.9 | 0.86 | 1.89 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |

Screwdrivers - Direct drive Pistol grip

1 to 14 Nm (8.9 to 124 in.lb) - 490 to 3400 rpm



Accessories: see page 89

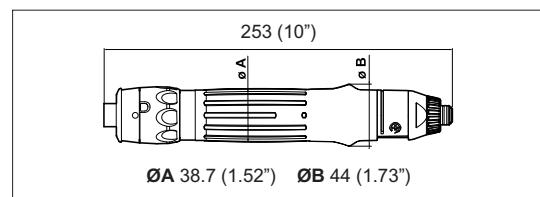


| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|------------|------------------|----------------|---------------|---------------|-----------------|-----------|--------|------|-------------|------|--------------|-------------------|-----|
| | | | rpm | in. | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SDP023-T3400-D4Q | 1465714 | 3400 | 1/4 | 1.0-2.3 | 8.9-20.3 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| A | SDP035-T2100-D4Q | 1465704 | 2100 | 1/4 | 1.0-3.5 | 8.9-31.0 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| A | SDP055-T1400-D4Q | 1465694 | 1400 | 1/4 | 1.0-5.5 | 8.9-48.6 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| A | SDP075-T1050-D4Q | 1465684 | 1050 | 1/4 | 3.5-7.5 | 31.0-66.3 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| A | SDP100-T780-D4Q | 1465674 | 780 | 1/4 | 3.5-10.0 | 31.0-88.5 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |
| A | SDP140-T490-D4Q | 1465664 | 490 | 1/4 | 3.5-14.0 | 31.0-124 | 0.8 | 1.76 | 9.0 | 19.1 | 1/4 | 10 | 3/8 |

Screwdrivers - Left hand tightening

Shut off - Push start

0.6 to 16 Nm (5.3 to 142 in.lb) - 320 rpm



Accessories: see page 88



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | AIR INLET | HOSE INT. Ø | | |
|------------|------------------|----------------|---------------|---------------|-----------------|---------|------------------|-----------|--------|------|-------------|--------------|-------------------|----|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SD160L-AR320-S4Q | 205 147 799 4 | 320 | 1/4 | 0.6-16.0 | 5.3-142 | 3.5-10.0 | 31.0-88.5 | 0.89 | 1.96 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

Screwdrivers - Automatic reverse

0.6 to 15 Nm (5.3 to 138 in.lb) - 400 to 1100 rpm



A

Tool shown with optional clutch HSG and bit adaptor



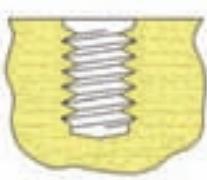
B

Applications

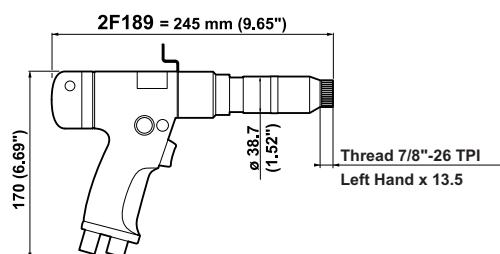
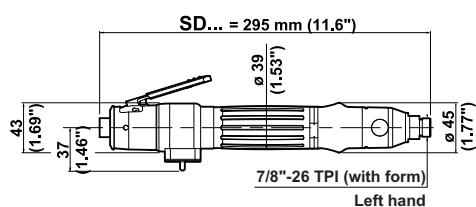
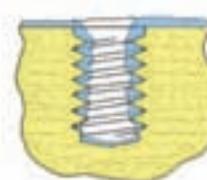
Placement of
Threaded
Fasteners



Tapping in
Blind Holes



Clearing Tapped
Holes after
Painting or Coating



Accessories: see page 88



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | |
|---------|-----------------|-------------|------------|-----------------|--------------|-----------|----------|-----------|-------------|------|-----|----|-----|
| | | | rpm | in. | Nm | in.lb | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SD140-LA510-S4 | 1464584 | 510 | See Accessories | 0.6-14 | 5.3-124 | 1.0 | 2.2 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| A | SD075-LA1100-S4 | 1464604 | 1100 | Table | 0.6-7.5 | 5.3-66.4 | 1.0 | 2.2 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| B | 2F189-PX-900 | 1240584 | 900 | Table | 1.8-8.9 | 15.9-78.8 | 1.6 | 3.5 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |
| B | 2F189-PX-600 | 1240744 | 600 | | 1.6-14 | 14.1-124 | 1.6 | 3.5 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |
| B | 2F189-PX-400 | 1240904 | 400 | | 1.6-15 | 14.1-138 | 1.6 | 3.5 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |

Angle Head - Shut off

0.4 to 27 Nm (3.5 to 239 in.lb) - 160 to 2200 rpm



See page 76

Accessories: see page 90



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT DRIVE | TORQUE RANGE | | FITTED SPRING | | LENGTH | | WEIGHT | | AIR FLOW | AIR INLET | HOSE INT. Ø | | |
|----------------|-----------------------|----------------|---------------|-----------------|-----------------|-----------|------------------|-----------|--------|------|--------|------|-------------|--------------|-------------------|----|-----|
| | | | rpm | in. | Nm | in.lb | Nm | in.lb | mm | in. | kg | lb. | l/s | cfm | in. | mm | in. |
| TWO WAY | | | | | | | | | | | | | | | | | |
| A | SC021-L2000-S90A4S | 1459154 | 2000 | 1/4 sq | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 275 | 10.8 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC021-L1400-S90A4S | 1459144 | 1400 | 1/4 sq | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 275 | 10.8 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC043-L950-S90A4S | 1459134 | 950 | 1/4 sq | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 275 | 10.8 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC047-L500-S90A4S | 1459124 | 500 | 1/4 sq | 0.4-4.7 | 3.5-41.5 | 0.9-4.7 | 7.9-41.5 | 275 | 10.8 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC021-L2200-S45A4S | 1459574 | 2200 | 1/4 sq | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 339 | 13.3 | 0.85 | 1.87 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC021-L1500-S45A4S | 1459584 | 1500 | 1/4 sq | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 339 | 13.3 | 0.85 | 1.87 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC043-L1050-S45A4S | 1459594 | 1050 | 1/4 sq | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 339 | 13.3 | 0.85 | 1.87 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC047-L520-S45A4S | 1459604 | 520 | 1/4 sq | 0.4-4.7 | 3.5-41.5 | 0.9-4.7 | 7.9-41.5 | 339 | 13.3 | 0.85 | 1.87 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC021-L2200-S45A4H | 1459484 | 2200 | 1/4 hex | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 339 | 13.3 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC021-L1500-S45A4H | 1459494 | 1500 | 1/4 hex | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 339 | 13.3 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC043-L1050-S45A4H | 1459504 | 1050 | 1/4 hex | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 339 | 13.3 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC047-L520-S45A4H | 1459514 | 520 | 1/4 hex | 0.4-4.7 | 3.5-41.5 | 0.9-4.7 | 7.9-41.5 | 339 | 13.3 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SC021-L2000-S90A4H | 1459074 | 2000 | 1/4 hex | 0.4-2.1 | 3.5-18.6 | 0.4-0.9 | 3.5-7.9 | 275 | 10.8 | 1.12 | 2.47 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SC021-L1400-S90A4H | 1459064 | 1400 | 1/4 hex | 0.4-2.1 | 3.5-18.6 | 0.6-2.1 | 5.3-18.6 | 275 | 10.8 | 1.12 | 2.47 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SC043-L950-S90A4H | 1459054 | 950 | 1/4 hex | 0.4-4.3 | 3.5-38 | 0.9-4.3 | 7.9-38 | 275 | 10.8 | 1.12 | 2.47 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SC047-L500-S90A4H | 1459044 | 500 | 1/4 hex | 0.4-4.7 | 3.5-41.5 | 0.9-4.7 | 7.9-41.5 | 275 | 10.8 | 1.12 | 2.47 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| D | SD070-LB1100-S90-A4H | 1463254 | 1100 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB820-S90-A4H | 1463244 | 820 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB510-S90-A4H | 1463234 | 510 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB320-S90-A4H | 1463224 | 320 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR1100-S90-A4H | 1463294 | 1100 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR820-S90-A4H | 1463284 | 820 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR510-S90-A4H | 1463274 | 510 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR320-S90-A4H | 1463264 | 320 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB1100-S90-A4S | 1463374 | 1100 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB820-S90-A4S | 1463364 | 820 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB510-S90-A4S | 1463354 | 510 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LB320-S90-A4S | 1463344 | 320 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR1100-S90-A4S | 1463414 | 1100 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR820-S90-A4S | 1463404 | 820 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR510-S90-A4S | 1463394 | 510 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR320-S90-A4S | 1463384 | 320 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 305 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD070-LR160-S90-A4S | 205 146 705 4 | 160 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 306 | 12.0 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD072-LB1080-S90-A10S | 1463504 | 1080 | 3/8 sq | 2.5-7.2 | 22-63.7 | 2.5-7.2 | 22-63.7 | 353 | 13.9 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD095-LB800-S90-A10S | 1463494 | 800 | 3/8 sq | 3-9.5 | 26.6-84.1 | 3-9.5 | 26.6-84.1 | 353 | 13.9 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD130-LB600-S90-A10S | 1463484 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 353 | 13.9 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD209-LB370-S90-A10S | 1463474 | 370 | 3/8 sq | 6-19 | 53.1-168 | 6-19 | 53.1-168 | 376 | 14.8 | 1.50 | 3.31 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD300-LB250-S90-A10S | 1463464 | 250 | 3/8 sq | 11-27 | 97.3-239 | 11-27 | 97.3-239 | 376 | 14.8 | 1.50 | 3.31 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD072-LR1080-S90-A10S | 1463554 | 1080 | 3/8 sq | 2.5-7.2 | 22-63.7 | 2.5-7.2 | 22-63.7 | 376 | 14.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD095-LR800-S90-A10S | 1463544 | 800 | 3/8 sq | 3-9.5 | 26.6-84.1 | 3-9.5 | 26.6-84.1 | 376 | 14.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD130-LR600-S90-A10S | 1463534 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 376 | 14.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD209-LR370-S90-A10S | 1463524 | 370 | 3/8 sq | 6-19 | 53.1-168 | 6-19 | 53.1-168 | 376 | 14.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD300-LR250-S90-A10S | 1463514 | 250 | 3/8 sq | 11-27 | 97.3-239 | 11-27 | 97.3-239 | 376 | 14.8 | 1.50 | 3.31 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | SD300-LR180-S90-A10S | 205 146 704 4 | 180 | 3/8 sq | 11-27 | 97.3-239 | 11-27 | 97.3-239 | 375 | 14.8 | 1.50 | 3.30 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |

SH range - Angle head - Shut off

2.5 to 200 Nm (22.1 to 1770 in.lb) - 80 to 1100 rpm



A



B



C



D



E

Option:
Reaction bar for SH850/1200/2000



FAS3000 (optional): PLC External control
OK / NOK reporting Batch count

• PRODUCTIVITY

- High speed with joint stiffness capability

• QUALITY

- High accuracy with immediate shut off
- Improve your process quality with FAS3000

• ERGONOMY

- Low reaction force on hard joint

• DURABILITY

- Low frequency maintenance
- Quick service time



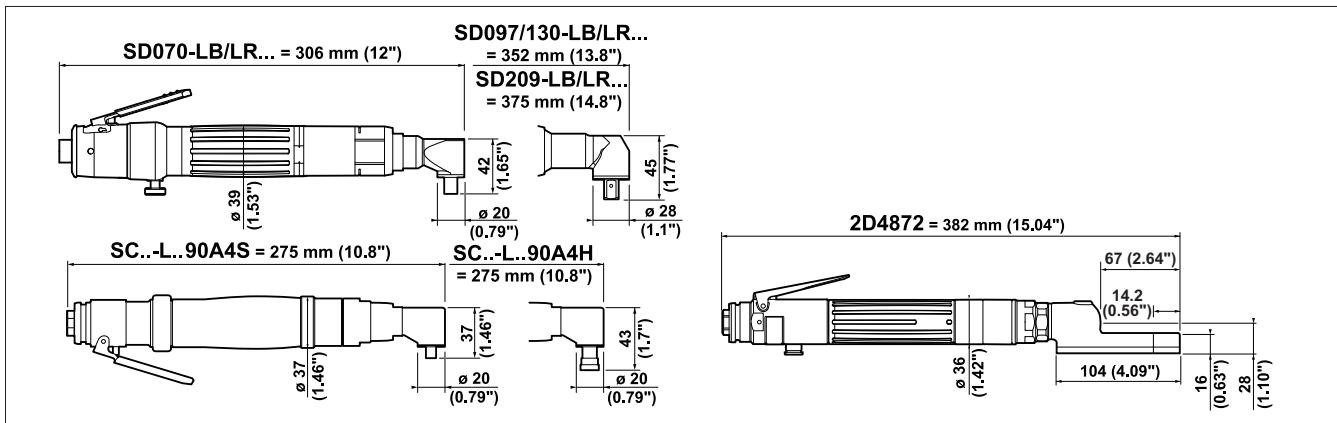
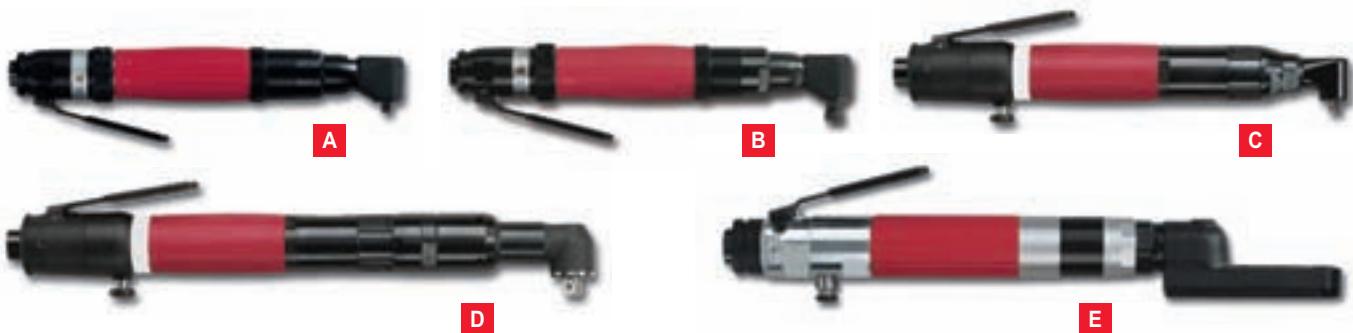
| MODEL | ANGLE HEAD DIMENSIONS | | | | | |
|--------|-----------------------|-----------|----------|-----------|---------|----------|
| | ØA mm | ØA in. | ØB mm | ØB in. | H mm | H in. |
| SH70 | 20 | 0.79 | 20 | 0.79 | 36.6 | 1.44 |
| SH150 | 22 | 0.87 | 21 | 0.83 | 35.2 | 1.38 |
| SH200 | 27 | 1.06 | 27 | 1.06 | 45.5 | 1.79 |
| SH280 | 27 | 1.06 | 24 | 0.94 | 41.5 | 1.63 |
| SH420 | 40 | 1.57 | 29 | 1.10 | 56.5 | 2.20 |
| SH500 | 40 | 1.57 | 29 | 1.10 | 56.5 | 2.20 |
| SH700 | 40 | 1.57 | 29 | 1.10 | 56.5 | 2.20 |
| SH850 | 51 | 2.00 | 33 | 1.30 | 69.5 | 2.70 |
| SH1200 | 51 | 2.00 | 33 | 1.30 | 69.5 | 2.70 |
| SH2000 | 51 | 2.00 | 33 | 1.30 | 69.5 | 2.70 |

Accessories: see page 90

| PIC REF | MODEL | PART NUMBER | BOLT SIZE | FREE SPEED | SQUARE DRIVE | TORQUE RANGE | LENGTH | WEIGHT | | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | |
|------------|-----------------------|----------------|--------------|---------------|-----------------|-----------------|-----------|--------|------|-------------|--------------|-------------------|-----|-----|----|------|
| | | | mm | rpm | in | Nm | in.lb | mm | in. | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SH70-LR1100-S90-A4S | 205 147 628 4 | M5 | 1100 | 1/4 | 2.5-7 | 22.1-61.9 | 334 | 13.1 | 1.3 | 2.9 | 8 | 17 | 1/4 | 8 | 5/16 |
| B | SH150-LR580-S90-A10S | 205 147 629 4 | M6 | 560 | 3/8 | 7-15 | 61.9-44.2 | 349 | 13.7 | 1.4 | 3.1 | 10 | 21 | 1/4 | 10 | 3/8 |
| B | SH200-LR550-S90-A10S | 205 147 630 4 | M6 | 530 | 3/8 | 10-19 | 88.5-168 | 355 | 14.0 | 1.4 | 3.1 | 10 | 21 | 1/4 | 10 | 3/8 |
| B | SH280-LR350-S90-A10S | 205 147 631 4 | M8 | 340 | 3/8 | 14-28 | 124-248 | 350 | 13.8 | 1.4 | 3.1 | 10 | 21 | 1/4 | 10 | 3/8 |
| B | SH280-LR80-S90-A10S | 205 147 632 4 | M8 | 80 | 3/8 | 14-28 | 124-248 | 350 | 13.8 | 1.4 | 3.1 | 10 | 21 | 1/4 | 10 | 3/8 |
| C | SH420-LR400-S90-A10S | 205 147 800 4 | M10 | 400 | 3/8 | 20-42 | 177-372 | 436 | 17.2 | 2.0 | 4.4 | 16 | 34 | 1/4 | 10 | 3/8 |
| C | SH500-LR330-S90-A13S | 205 147 473 4 | M10 | 330 | 1/2 | 25-50 | 221-442 | 453 | 17.8 | 2.2 | 4.8 | 16 | 34 | 1/4 | 10 | 3/8 |
| D | SH700-LR225-S90-A13S | 205 147 474 4 | M10-M12 | 225 | 1/2 | 34-70 | 301-619 | 487 | 19.2 | 2.4 | 5.3 | 16 | 34 | 1/4 | 10 | 3/8 |
| D | SH850-LR190-S90-A13S | 205 147 475 4 | M12 | 190 | 1/2 | 40-85 | 354-752 | 530 | 20.8 | 2.8 | 6.1 | 16 | 34 | 1/4 | 10 | 3/8 |
| E | SH1200-LR215-S90-A13S | 205 147 476 4 | M12-M14 | 215 | 1/2 | 70-120 | 354-1062 | 590 | 23.2 | 3.5 | 7.6 | 28 | 59 | 1/2 | 13 | 1/2 |
| E | SH2000-LR100-S90-A13S | 205 147 801 4 | M12-M14 | 100 | 1/2 | 115-200 | 1018-1770 | 608 | 23.9 | 4.4 | 9.7 | 28 | 59 | 1/2 | 13 | 1/2 |

Angle head - Non Shut off

0.4 to 19 Nm (3.5 to 168 in.lb) - 320 to 2000 rpm



Accessories: see page 90



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT DRIVE | TORQUE RANGE | | FITTED SPRING | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | |
|------------|-----------------------|----------------|---------------|-----------------|-----------------|-----------|------------------|-----------|--------|-------|-------------|------|--------------|-------------------|-----|
| | | | | | rpm | in. | Nm | in.lb | Nm | in.lb | kg | lb. | l/s | cfm | in. |
| A | SC024-L2000-R90A4S | 1459194 | 2000 | 1/4 sq | 0.5-2.4 | 4.4-21.2 | 0.5-1.8 | 4.4-15.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC022-L1400-R90A4S | 1459184 | 1400 | 1/4 sq | 0.5-2.2 | 4.4-19.5 | 0.8-2.2 | 7.1-19.5 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC044-L950-R90A4S | 1459174 | 950 | 1/4 sq | 0.4-4.4 | 3.5-38.9 | 1.3-4.4 | 11.5-38.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| A | SC044-L500-R90A4S | 1459164 | 500 | 1/4 sq | 0.4-4.4 | 3.5-38.9 | 1.4-4 | 8.9-38.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC024-L2000-R90A4H | 1459114 | 2000 | 1/4 hex | 0.5-2.4 | 4.4-21.2 | 0.5-1.8 | 4.4-15.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC022-L1400-R90A4H | 1459104 | 1400 | 1/4 hex | 0.5-2.2 | 4.4-19.5 | 0.8-2.2 | 7.1-19.5 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC044-L950-R90A4H | 1459094 | 950 | 1/4 hex | 0.4-4.4 | 3.5-38.9 | 1.3-4.4 | 11.5-38.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| B | SC044-L500-R90A4H | 1459084 | 500 | 1/4 hex | 0.4-4.4 | 3.5-38.9 | 1-4.4 | 8.9-38.9 | 0.84 | 1.85 | 6.5 | 13.8 | 1/8 | 6 | 1/4 |
| C | SD070-LB1100-R90-A4H | 1463334 | 1100 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB820-R90-A4H | 1463324 | 820 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB510-R90-A4H | 1463314 | 510 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB320-R90-A4H | 1463304 | 320 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR1100-R90-A4H | 1463654 | 1100 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR820-R90-A4H | 1463644 | 820 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR510-R90-A4H | 1463634 | 510 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR320-R90-A4H | 1463624 | 320 | 1/4 hex | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.12 | 2.47 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB1100-R90-A4S | 1463454 | 1100 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB820-R90-A4S | 1463444 | 820 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB510-R90-A4S | 1463434 | 510 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LB320-R90-A4S | 1463424 | 320 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR1100-R90-A4S | 1463694 | 1100 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR820-R90-A4S | 1463684 | 820 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR510-R90-A4S | 1463674 | 510 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| C | SD070-LR320-R90-A4S | 1463664 | 320 | 1/4 sq | 2.5-7 | 22-61.9 | 2.5-7 | 22-61.9 | 1.11 | 2.45 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD097-LB1080-R90-A10S | 1463584 | 1080 | 3/8 sq | 3-9.7 | 26.5-85.8 | 3-9.7 | 26.5-85.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD130-LB600-R90-A10S | 1463574 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD209-LB370-R90-A10S | 1463564 | 370 | 3/8 sq | 6-19 | 53.1-168 | 6-19 | 53.1-168 | 1.50 | 3.31 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD097-LR1080-R90-A10S | 1463724 | 1080 | 3/8 sq | 3-9.7 | 26.5-85.8 | 3-9.7 | 26.5-85.8 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD130-LR600-R90-A10S | 1463714 | 600 | 3/8 sq | 4.5-12 | 39.8-106 | 4.5-12 | 39.8-106 | 1.41 | 3.11 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| D | SD209-LR370-R90-A10S | 1463704 | 370 | 3/8 sq | 6-19 | 53.1-168 | 6-19 | 53.1-168 | 1.50 | 3.31 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| E | 2D4872-LX-550 | 1388614 | 550 | 0.445" hex | 3.6-6.8 | 31.9-60.2 | 3.6-6.8 | 31.9-60.2 | 1.10 | 2.42 | 8.5 | 18.0 | 1/4 | 10 | 3/8 |

Angle Head - Direct drive

1.2 to 105 Nm (10.6 to 929 in.lb) - 60 to 800 rpm



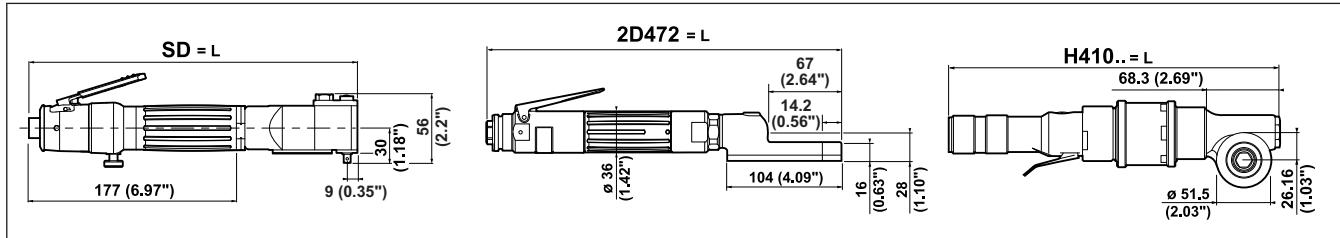
A



B



C



SD - Stall Torque (Nm) Setting using Regulator Part No. 81223

Accessories: see page 89



| MODEL | 1 | 2 | 3 | 4 | 5 | 6 | Open |
|---------------------------|-----|-----|-----|-----|------|------|------|
| Regulator Position | | | | | | | |
| Inlet Pressure - 6.3 bar | | | | | | | |
| SD130-LB500-D90-A4S | 3.2 | 3.5 | 5.3 | 7.0 | 10.0 | 12.5 | 13.0 |
| SD096-LB800-D90-A4S | 2.6 | 2.8 | 4.0 | 5.5 | 7.3 | 9.0 | 9.6 |
| Regulator Position | | | | | | | |
| Inlet Pressure - 4.0 bar | | | | | | | |
| SD130-LB500-D90-A4S | 2.0 | 2.7 | 3.0 | 4.2 | 6.0 | 8.2 | 9.0 |
| SD096-LB800-D90-A4S | 1.5 | 1.7 | 2.5 | 3.0 | 4.5 | 5.5 | 6.0 |

H410 - Stall Torque (Nm) Setting using a Typical Regulator

| MODEL | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | Open |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Regulator Position | | | | | | | | | | |
| Inlet Pressure - 6.3 bar | | | | | | | | | | |
| H410-N-500 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| H410-N-350 | 5 | 9 | 14 | 18 | 23 | 27 | 32 | 36 | 41 | 45 |
| H410-N-150 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| H410-N-90 | 16 | 32 | 48 | 63 | 79 | 95 | - | - | - | - |
| H410-N-60 | 20 | 40 | 60 | 80 | - | - | - | - | - | - |
| Regulator Position | | | | | | | | | | |
| Inlet Pressure - 4.0 bar | | | | | | | | | | |
| H410-N-500 | 2 | 4 | 6 | 8 | 9 | 11 | 13 | 15 | 17 | 19 |
| H410-N-350 | 3 | 6 | 9 | 11 | 14 | 17 | 20 | 23 | 26 | 28 |
| H410-N-150 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| H410-N-90 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| H410-N-60 | 4 | 30 | 45 | 60 | 75 | 90 | 105 | - | - | - |

Maximum stall torque 105Nm.

Performance will differ from the figures above depending on the regulator used.

Data obtained from a lubricated air line.

Torque figures are to be used as a guide only.

* Must never be used without regulator with a pressure higher than 4 bars

** Must never be used without regulator with a pressure higher than 2 bars

H410-N – When using direct drive screw-drivers, it is strongly advised to equip the machines with a reaction bar to compensate against potentially high torque reaction and avoid operator injury.

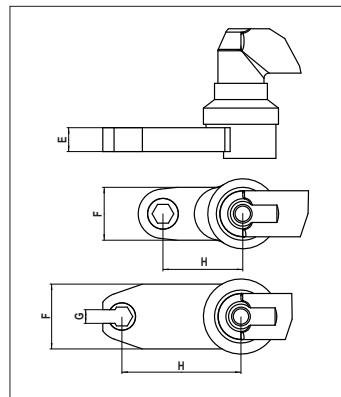
| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT DRIVE | TORQUE RANGE | LENGTH L | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | | |
|---------|---------------------|-------------|------------|--------------|--------------|----------|--------|----------|-----------|-------------|------|------|-----|----|-----|
| | | | rpm | in. | Nm | in.lb | mm | in. | kg | lb. | l/s | cfm | in. | mm | in. |
| A | SD130-LB500-D90-A4S | 1465974 | 500 | 1/4 sq | 2-13 | 17.7-115 | 326 | 12.8 | 1.08 | 2.38 | 8.7 | 18.4 | 1/4 | 10 | 3/8 |
| A | SD096-LB800-D90-A4S | 1465984 | 800 | 1/4 sq | 1.5-9.6 | 13.3-85 | 326 | 12.8 | 1.08 | 2.38 | 8.7 | 18.4 | 1/4 | 10 | 1/4 |
| B | 2D472-LX-550 | 1388534 | 550 | 0.445 hex | 1.2-12.6 | 10.6-111 | 316 | 12.4 | 1.0 | 2.20 | 8.5 | 18.0 | 1/4 | 10 | 1/4 |
| C | H410-N-500 | 1302374 | 500 | 0.525 hex | 3-30 | 26.6-265 | 319 | 12.6 | 1.70 | 3.74 | 17.9 | 37.9 | 3/8 | 12 | 1/2 |
| C | H410-N-350 | 1302454 | 350 | 0.525 hex | 4.5-45 | 39.8-398 | 319 | 12.6 | 1.70 | 3.74 | 17.9 | 37.9 | 3/8 | 12 | 1/2 |
| C | H410-N-150 | 1302534 | 150 | 0.525 hex | 8-80 | 70.8-708 | 358 | 14.1 | 2.00 | 4.41 | 17.9 | 37.9 | 3/8 | 12 | 1/2 |
| C | H410-N-90* | 1302614 | 90 | 0.525 hex | 10-105 | 88.5-929 | 358 | 14.1 | 2.00 | 4.41 | 13.2 | 27.9 | 3/8 | 12 | 1/2 |
| C | H410-N-60** | 1302794 | 60 | 0.525 hex | 10-105 | 88.5-929 | 358 | 14.1 | 2.00 | 4.41 | 13.2 | 27.9 | 3/8 | 12 | 1/2 |

Crowfoot and Tube nut tools - Angle head

4 to 41 Nm (35 to 363 in.lb) - 240 to 430 rpm



| MODEL | ACROSS FLATS | E | | F | | G | | H | |
|-------------------------|--------------|----|------|-----|------|------|------|------|------|
| | | mm | mm | in. | mm | in. | mm | in. | mm |
| SH330-LB430-CE13-CC53 | 13 | 19 | 0.75 | 32 | 1.26 | N/A | 52.8 | 2.07 | |
| SH410-LB400-CE17-CC68 | 17 | 19 | 0.75 | 39 | 1.54 | N/A | 67.6 | 2.66 | |
| SH330-LB330-OE11-CC53 | 11 | 18 | 0.71 | 40 | 1.57 | 10.4 | 0.41 | 52.9 | 2.08 |
| SH330-LB330-OE11-CC75 | 11 | 18 | 0.71 | 40 | 1.57 | 10.4 | 0.41 | 75.3 | 2.96 |
| SH330-LB330-OE13-CC53 | 13 | 18 | 0.71 | 40 | 1.57 | 10.4 | 0.41 | 52.9 | 2.08 |
| SH330-LB330-OE13-CC75 | 13 | 18 | 0.71 | 40 | 1.57 | 10.4 | 0.41 | 75.3 | 2.96 |
| SD160-LB240-S-OE17-CC92 | 17 | 14 | 0.55 | 48 | 1.89 | 12 | 0.47 | 91.5 | 3.60 |
| SD160-LB240-S-OE13-CC80 | 13 | 12 | 0.47 | 38 | 1.49 | 7 | 0.27 | 79.6 | 3.13 |
| SD160-LB240-S-OE12-CC80 | 12 | 12 | 0.47 | 38 | 1.49 | 7 | 0.27 | 79.6 | 3.13 |
| SD160-LB240-S-OE10-CC80 | 10 | 12 | 0.47 | 38 | 1.49 | 7 | 0.27 | 79.6 | 3.13 |
| SD120-LB320-S-OE08-CC80 | 8 | 12 | 0.47 | 38 | 1.49 | 7 | 0.27 | 79.6 | 3.13 |
| SD120-LB320-S-OE07-CC80 | 7 | 12 | 0.47 | 38 | 1.49 | 7 | 0.27 | 79.6 | 3.13 |



* Up to 14mm sockets possible as an option.

* Possibility to have extension drive sockets.

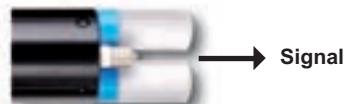
* Contact your local Desoutter sales engineer for all other requests.

Accessories: see page 90



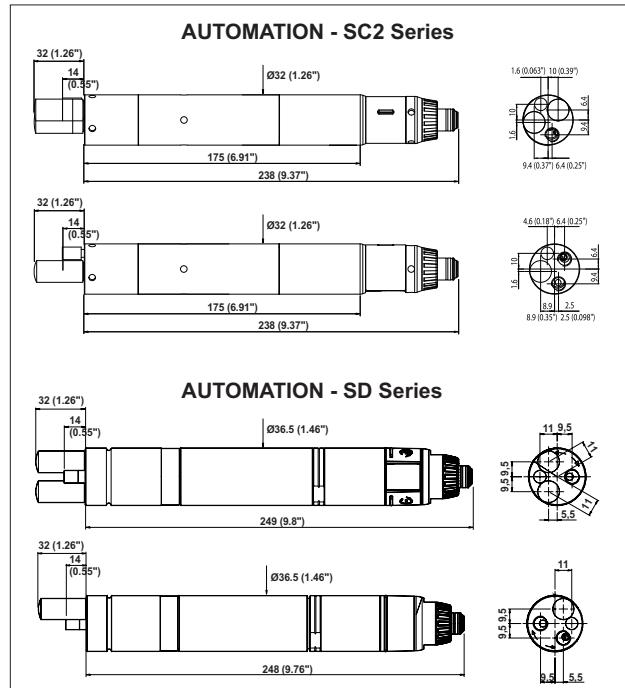
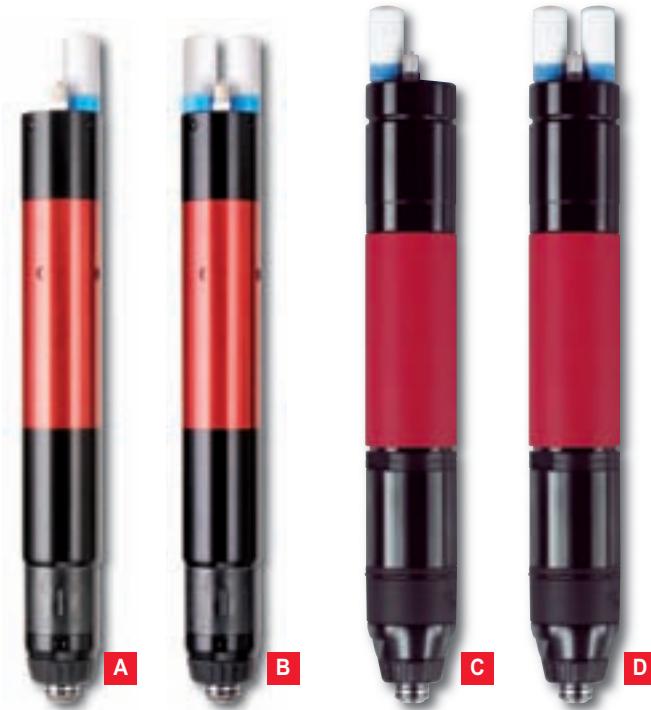
| PIC REF | MODEL | PART NUMBER | FREE SPEED | ACROSS FLATS | TORQUE RANGE | LENGTH | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø |
|---|-------------------------|---------------|------------|--------------|--------------|---------|--------|----------|-----------|-------------|
| | | | rpm | mm | Nm in.lb | mm in. | kg lb. | l/s cfm | in. | mm in. |
| Offset crowfoot tools - Shut Off | | | | | | | | | | |
| A | SH330-LB430-CE13-CC53 | 205 147 815 4 | 430 | 13 | 16-33 | 142-212 | 508 | 20.0 | 2.6 | 5.7 |
| A | SH410-LB400-CE17-CC68 | 205 147 817 4 | 400 | 17 | 18-41 | 159-363 | 600 | 23.6 | 3.9 | 8.6 |
| Offset tube nut tools - Shut Off | | | | | | | | | | |
| B | SH330-LB330-OE11-CC53 | 205 147 818 4 | 330 | 11 | 16.5-33 | 146-292 | 498.3 | 19.6 | 2.7 | 5.9 |
| B | SH330-LB330-OE11-CC75 | 205 147 819 4 | 330 | 11 | 16.5-33 | 146-292 | 498.3 | 19.6 | 2.7 | 5.9 |
| B | SH330-LB330-OE13-CC53 | 205 147 820 4 | 330 | 13 | 16.5-33 | 146-292 | 520.7 | 20.5 | 2.8 | 6.2 |
| B | SH330-LB330-OE13-CC75 | 205 147 821 4 | 330 | 13 | 16.5-33 | 146-292 | 520.7 | 20.5 | 2.8 | 6.2 |
| Offset tube nut tools - Shut Off | | | | | | | | | | |
| C | SD160-LB240-S-OE17-CC92 | 1463594 | 240 | 17 | 7-16 | 62-142 | 453 | 17.8 | 1.9 | 4.2 |
| C | SD160-LB240-S-OE13-CC80 | 1463604 | 240 | 13 | 7-16 | 62-142 | 453 | 17.8 | 1.8 | 4.0 |
| C | SD160-LB240-S-OE12-CC80 | 1463614 | 240 | 12 | 7-16 | 62-142 | 453 | 17.8 | 1.8 | 4.0 |
| C | SD160-LB240-S-OE10-CC80 | 1463734 | 240 | 10 | 7-16 | 62-142 | 453 | 17.8 | 1.8 | 4.0 |
| C | SD120-LB320-S-OE08-CC80 | 1463744 | 320 | 8 | 4-12 | 35-106 | 453 | 17.8 | 1.8 | 4.0 |
| C | SD120-LB320-S-OE07-CC80 | 1463754 | 320 | 7 | 4-12 | 35-106 | 453 | 17.8 | 1.8 | 4.0 |
| • | SD160-LB240-S-OE | 1464474 | 240 | 3/8" sq. | 7-16 | 62-142 | | 1.5 | 3.3 | 8.7 |
| • | SD120-LB320-S-OE | 1464484 | 320 | 3/8" sq. | 4-12 | 35-106 | | 1.5 | 3.3 | 8.7 |

Torque Controlled - Shut Off



0.5 to 16 Nm (4.4 to 142 in.lb) - 320 to 3500 rpm

M5 Port provides signal while tool is running.
The signal stops when the clutch operates.



Accessories: see page 91



| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT HEX | TORQUE RANGE | FITTED SPRING | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | | |
|---------|-------|-------------|------------|------------|--------------|---------------|--------|----------|-----------|-------------|-----|-----|----|----|----|
| | | | rpm | in | Nm | in lb | Nm | in lb | kg | lb | l/s | cfm | in | mm | in |

Automation - Push start - Shut off - 1 way

| Automation - Push Start - Shut Off - 1 Way | | | | | | | | | | | | | | | | | | |
|--|---------------------|-----|-----|-----|---|------|-----|---------|----------|---------|-----------|------|------|---|------|-----|---|------|
| A | SC2-025-1AM2200-S4Q | 205 | 147 | 426 | 4 | 2150 | 1/4 | 0.5-2.5 | 4.4-22 | 0.5-2.5 | 4.4-22.1 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| A | SC2-035-1AM1500-S4Q | 205 | 147 | 425 | 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15-30.9 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| A | SC2-045-1AM1000-S4Q | 205 | 147 | 424 | 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15-39.8 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| A | SC2-055-1AM700-S4Q | 205 | 147 | 423 | 4 | 670 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3-5.5 | 26.5-48.6 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| A | SC2-065-1AM500-S4Q | 205 | 147 | 422 | 4 | 470 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3-6.5 | 26.5-57.5 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |

Automation - Remote start - Shut off - 2 way

| B | SC2-025-2RM2200-S4Q | 205 147 440 4 | 2150 | 1/4 | 0.5-2.5 | 4.4-22 | 0.5-2.5 | 4.4-22.1 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
|---|---------------------|---------------|------|-----|---------|----------|---------|-----------|------|------|---|------|-----|---|------|
| B | SC2-035-2RM1500-S4Q | 205 147 439 4 | 1450 | 1/4 | 0.5-3.5 | 4.4-30.8 | 1.7-3.5 | 15-30.9 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| B | SC2-045-2RM1000-S4Q | 205 147 438 4 | 1000 | 1/4 | 0.5-4.5 | 4.4-39.6 | 1.7-4.5 | 15-39.8 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| B | SC2-055-2RM700-S4Q | 205 147 437 4 | 670 | 1/4 | 0.5-5.5 | 4.4-48.4 | 3-5.5 | 26.5-48.6 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |
| B | SC2-065-2RM500-S4Q | 205 147 436 4 | 470 | 1/4 | 0.5-6.5 | 4.4-57.2 | 3-6.5 | 26.5-57.5 | 0.64 | 1.41 | 7 | 14.8 | 1/8 | 4 | 5/32 |

Automation - Push start - Shut off - 1 way

| C | SD023-1AM3500-S4Q | 1464254 | 3500 | 1/4 | 1.0-2.3 | 8.8-20.4 | 1.0-2.3 | 8.8-20.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
|---|-------------------|---------|------|-----|---------|----------|---------|----------|------|------|-----|------|-----|---|-----|
| C | SD035-1AM2200-S4Q | 1464244 | 2200 | 1/4 | 1.0-3.5 | 8.8-31 | 1.0-3.5 | 8.8-30.9 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| C | SD055-1AM1470-S4Q | 1464234 | 1470 | 1/4 | 2.0-5.5 | 18-48.7 | 2.0-5.5 | 18-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| C | SD075-1AM1100-S4Q | 1464224 | 1100 | 1/4 | 2.5-7.5 | 22-66.4 | 2.5-7.5 | 22-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| C | SD100-1AM820-S4Q | 1464214 | 820 | 1/4 | 3.5-10 | 31-88.5 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| C | SD140-1AM510-S4Q | 1464204 | 510 | 1/4 | 3.5-14 | 31-124 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| C | SD160-1AM320-S4Q | 1464194 | 320 | 1/4 | 3.5-16 | 31-142 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |

Automation - Remote start - Shut off - 2 way

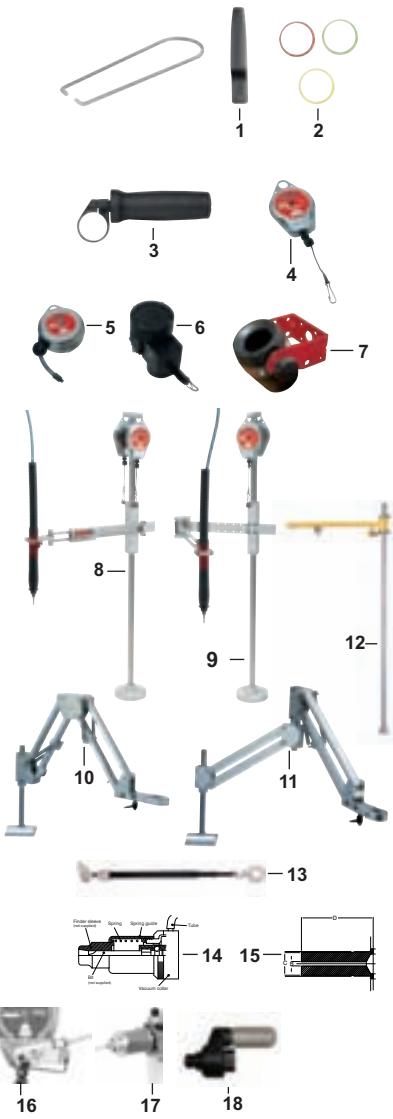
| D | SD023-2RM3500-S4Q | 1464324 | 3500 | 1/4 | 1.0-2.3 | 8.8-20.4 | 1.0-2.3 | 8.8-20.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
|---|-------------------|---------|------|-----|---------|----------|---------|----------|------|------|-----|------|-----|---|-----|
| D | SD035-2RM2200-S4Q | 1464314 | 2200 | 1/4 | 1.0-3.5 | 8.8-31 | 1.0-3.5 | 8.8-30.9 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| D | SD055-2RM1470-S4Q | 1464304 | 1470 | 1/4 | 2.0-5.5 | 18-48.7 | 2.0-5.5 | 18-48.7 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| D | SD075-2RM1100-S4Q | 1464294 | 1100 | 1/4 | 2.5-7.5 | 22-66.4 | 2.5-7.5 | 22-66.4 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| D | SD100-2RM820-S4Q | 1464284 | 820 | 1/4 | 3.5-10 | 31-88.5 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| D | SD140-2RM510-S4Q | 1464274 | 510 | 1/4 | 3.5-14 | 31-124 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |
| D | SD160-2RM320-S4Q | 1464264 | 320 | 1/4 | 3.5-16 | 31-142 | 3.5-10 | 31-88.5 | 0.92 | 2.03 | 8.7 | 18.4 | 1/8 | 6 | 1/4 |

Accessories

STRAIGHT - PUSH START & LEVER START

ACCESSORIES INCLUDED

| ITEM | 2A89 | SB | SC2 | SD |
|-----------------------------------|--------|--------|---------------|--------|
| • Suspension bail(s) | 280903 | 443703 | 205 049 537 3 | 467003 |
| • Suspension bail internal | | | 205 051 289 3 | |
| • Exhaust hose | 280913 | 443723 | 205 049 584 3 | 467073 |
| • Clutch adjustment keys | 292583 | 446583 | 205 050 785 3 | 29932 |
| 1 Short lever (lever start model) | | | 205 052 020 3 | |
| 2 Rings identification | | | 205 049 590 3 | |
| 3 Side handle assembly | | | | 467033 |



OPTIONAL ACCESSORIES

| ITEM | 2A89 | SB | SC2 | SD |
|--|---------------|---------------|---------------|---------------|
| 3 Side handle assembly | | | 205 052 175 3 | |
| • Double-ended bit holder | | | 205 052 883 3 | 465523 |
| Balancers & Tool Holster | | | | |
| 4 Spring suspension balancer | 52542 | 50522 | 50522 | 52862 |
| 5 Hose reel balancer | 52552 | 50552 | 50552 | 50562 |
| 6 Reaction free self-lock balancer | | | 54422 | 54432 |
| 7 Tool holster DTH-42 | 107892 | 107892 | 107892 | 107892 |
| Bench Stands | | | | |
| 8 D53-20 Stand, (see pages 114-115) | 388163 | 388163 | 388163 | |
| • Tool clamp | 615 396 616 0 | 615 396 616 0 | 615 396 616 0 | |
| 9 D53-20X Stand Extended reach, (see pages 114-115) | 388173 | 388173 | 388173 | |
| • Tool clamp | 615 396 616 0 | 615 396 616 0 | 615 396 616 0 | |
| 10 D53-20S Swivel stand, (see pages 114-115) | 615 804 572 0 | 615 804 572 0 | 615 804 572 0 | |
| • Tool clamp | 615 396 616 0 | 615 396 616 0 | 615 396 616 0 | |
| 11 D57 Balancing arm, (see pages 116-117) | 408903 | 408903 | 408903 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| 12 D57X Balancing arm, (see pages 116-117) | 408913 | 408913 | 408913 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| 13 D58 Balancing arm, (see pages 116-117) | 408923 | 408923 | 408923 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| 14 D59 Pantographic arm for use with balancer | 66542 | 66542 | 66542 | |
| 15 TRA12 Telescopic reaction arm | 615 396 532 0 | 615 396 532 0 | 615 396 532 0 | |
| 16 TRA25 Telescopic reaction arm | | | | 615 396 533 0 |
| Vacuum Pick Up - Order Pick Up kit, Finder Sleeve & Vacuum Source | | | | |
| 14 Vacuum pick up kit (spring only for 2A89) | 280443 | 108892 | 108892 | |
| 15 Finder sleeve blank - plastic | | 464093 | 464093 | |
| • Finder sleeve blank - steel | 88992 | 464103 | 464103 | |
| 16 Vacuum source for use with DU balancer (lever start model) | | | | 51482 |
| 17 Vacuum source AV201 for use with filter/regulator unit | | | | 112063 |
| Miscellaneous | | | | |
| 18 Offset exhaust | | | | 205 047 623 3 |
| • Clutch case 7/8" LH thread 320-1470 rpm | | | | 205 047 478 3 |
| • Clutch case 7/8" LH thread 2200-3500 rpm | | | | 205 047 479 3 |
| • Clutch case without thrust bump, M20x1.0LH thread 320-1470 rpm | | | | 465463 |
| • Clutch case without thrust bump, M20x1.0LH thread 32200-3500 rpm | | | | 465443 |

PISTOL GRIP & HLT

ACCESSORIES INCLUDED

| | SCBP | SBP | SCP | SDP |
|--|---------------|--------|--------|--------|
| | SCPT | SCPT | SDT | SDT |
| • Suspension bail(s) | 307683 | 307683 | 307683 | 473153 |
| • Side handle (320 & 1470 rpm) | | | | 467033 |
| • Clutch adjustment keys (320 - 1470 rpm) | 205 047 988 3 | 446583 | 29932 | 29932 |
| • Clutch adjustment keys (2200 - 3500 rpm) | | | | 467293 |

OPTIONAL ACCESSORIES

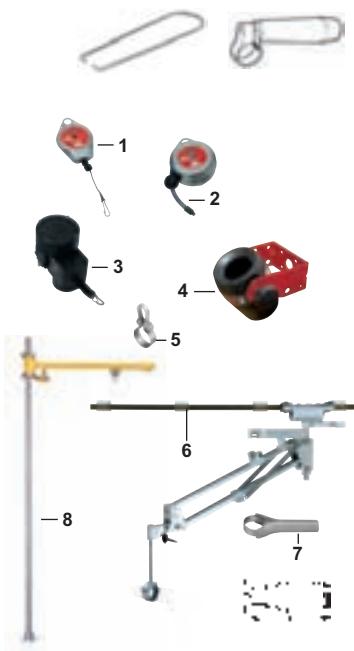
| | SBP | SCP | SDP |
|---|--------|--------|--------|
| | SCBP | SCPT | SDT |
| Balancers & Holster | | | |
| 1 Spring suspension balancer | | 52862 | 52862 |
| 2 Hose reel balancer | | 50552 | 50552 |
| • Hose reel balancer conversion kit | 107403 | 107403 | 115193 |
| 3 Reaction free self-lock balancer | | 54422 | 54422 |
| 4 Tool holster DTH-42 | 107892 | 107892 | 107892 |
| Bench Stands | | | |
| 5 D59 Pantographic arm (see pages 116-117) | 408933 | 408933 | 408933 |
| Miscellaneous | | | |
| 6 Bench mounted swing arm for use with balancer | 66542 | 66542 | 66542 |
| 7 Side handle | 70442 | 70442 | 467033 |

Accessories

DIRECT DRIVE

ACCESSORIES INCLUDED

| | SDP | SD | H410 |
|----------------------|--------|--------|--------|
| • Suspension bail(s) | 473153 | | 467003 |
| • Side handle | 467033 | | |
| • Exhaust hose | | 467073 | |



OPTIONAL ACCESSORIES

| ITEM | SDP | SD | H410 |
|---|--------|---------------|-------|
| • Air flow regulator | 81223 | 81223 | |
| Balancers & Holster | | | |
| 1 Spring suspension balancer | 52862 | 50532 | 50542 |
| 2 Hose reel balancer | 50562 | 50562 | |
| 3 Reaction free self-lock balancer | 54432 | 54432 | 54442 |
| 4 Tool holster DTH-42 | 107892 | 107892 | |
| Suspension Shackle | | | |
| 5 Suspension shackle | 70082 | 615 571 050 0 | |
| • Swivel suspension shackle | | 615 396 229 0 | |
| Bench Stand | | | |
| 6 D59 Pantographic arm (see pages 116-117) | 408933 | | |
| Miscellaneous | | | |
| 7 Side handle | 467033 | 205 047 623 3 | |
| • Offset exhaust | | 66542 | 66542 |
| 8 Bench mounted swing arm | 66542 | 14422 | |
| • Square drive adaptor 3/8" Square drive, 48mm (1.89") long | | 14442 | |
| • Square drive adaptor 1/2" Square drive, 46mm (1.81") long | | 14482 | |
| • Square drive adaptor 1/2" Square drive, 76mm (2.99") long | | 72163 | |
| • Exhaust collector | | | |

AUTO REVERSE

ACCESSORIES INCLUDED

| | SD | 2F189-PX |
|--------------------------|--------|----------|
| • Suspension bail(s) | 467003 | |
| • Side handle | 467033 | |
| • Clutch adjustment keys | 29932 | 29932 |

OPTIONAL ACCESSORIES

| ITEM | SD | 2F189-PX |
|--|---------------|---------------|
| Placement of Threaded Inserts | | |
| 1 M3 x 0.5 Nose kit | 76552 | 76552 |
| 1 M4 x 0.7 Nose kit | 76562 | 76562 |
| 1 M5 x 0.8 Nose kit | 76572 | 76572 |
| 1 M6 x 1.0 Nose kit | 76582 | 76582 |
| 1 M8 x 1.25 Nose kit | 76592 | 76592 |
| Blind Hole Tapping/ Cleaning - 3 parts Required | | |
| • Bit adaptor* | 465513 | |
| • Bit adaptor | | 370683 |
| 2 Thread adaptor | 96743 | 96743 |
| 3 Chuck capacity 6.5mm (1/4") | 28942 | 28942 |
| Balancers & Tool Holster | | |
| 4 Spring suspension balancer | 50532 | 50532 |
| 5 Reaction free self-lock balancer | 54432 | 54452 |
| 6 Tool holster DTH-42 | 107892 | 107892 |
| Bench Stands | | |
| 7 D57 Balancing arm, (see pages 116-117) | 408903 | 408903 |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 |
| 7 D57X Balancing arm, (see pages 116-117) | 408913 | 408913 |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 |
| 8 D58 Balancing arm, (see pages 116-117) | 408923 | 408923 |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 |
| 9 Bench mounted swinging arm for use with balancer | 66542 | 66542 |
| 10 TRA25 Telescopic reaction arm | 615 396 533 0 | |

* To order more clutch cover PN 465453 + washer PN 467113



Accessories

ANGLE HEAD

ACCESSORIES INCLUDED

| | 2D4872 | SC | SD | SH |
|----------------------|--------|--------------|--------|---------------|
| • Suspension bail(s) | | 39433/280893 | 467003 | |
| • Exhaust hose | | 396553 | 467073 | |
| • Adjustment keys | | 29932 | 29932 | 205 050 785 3 |
| • Air hose nipple | | | | 205 051 239 3 |



OPTIONAL ACCESSORIES

| ITEM | 2D4872 | SC | SD | SH |
|---|---------------|---------------|---------------|---------------|
| • Exhaust hose for SH70/150/200/280/420/500/700/850 | | | | 459813 |
| • Exhaust hose for SH1200/2000 | | | | 205 050 181 3 |
| Balancers & Holster | | | | |
| 1 Spring suspension balancer | 50532 | 52862 | 50532 | 52862 |
| 1 Spring suspension balancer for SH70/150/200/280 | | | | 50052 |
| 2 Spring suspension balancer for SH420 to SH2000 | 50562 | 50552 | 50562 | 50562 |
| 3 Hose reel balancer | 50562 | 50552 | 50562 | 50562 |
| 3 Hose reel balancer for SH70/150/200/280 | | | | 50562 |
| 4 Reaction free self-lock balancer | 54432 | 54422 | 54432 | 54432 |
| 4 Reaction free self-lock balancer for SH70/150/200/280 | | | | 54432 |
| Suspension Shackle | | | | |
| • Suspension shackle | | 95842 | 70082 | |
| Suspension bails | | | | |
| 5 Suspension bail for SH70/150/200/280 | | | | 205 051 632 3 |
| 5 Suspension bail for SH420/500/700/850 | | | | 205 051 113 3 |
| 5 Suspension bail for SH1200/2000 | | | | 615 396 562 0 |
| Swiveling bails | | | | |
| 6 Swiveling bail for SH420/500/750/850 | | | | 205 051 115 3 |
| 6 Swiveling bail for SH1200/2000 | | | | 205 051 232 3 |
| Bench Stands | | | | |
| 7 D57 Balancing arm, (see pages 116-117) | 408903 | 408903 | 408903 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| 7 D57X Balancing arm, (see pages 116-117) | 408913 | 408913 | 408913 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| 8 D58 Balancing arm, (see pages 116-117) | 408923 | 408923 | 408923 | |
| • Tool clamp | 615 396 614 0 | 615 396 614 0 | 615 396 614 0 | |
| Miscellaneous | | | | |
| • Offset exhaust | | | 205 047 623 3 | |
| • Bench mounted swing arm | 66542 | 66542 | 66542 | 66542 |
| 9 Protective cover for SH70/150/200/280 | | | | 205 011 426 2 |
| 9 Protective cover for SH420/500 | | | | 205 050 182 3 |
| 9 Protective cover for SH700/850 | | | | 205 050 235 3 |
| 9 Protective cover for SH1200/2000 | | | | 205 050 252 3 |
| 10 Complete reaction bar kit for SH850/1200/2000 | | | | 205 051 121 3 |
| 11 Reporting kit for SH70 (for connexion with FAS) | | | | 205 011 424 2 |
| 11 Reporting kit for SH150/200/280 (for connexion with FAS) | | | | 205 011 425 2 |
| 11 Reporting kit for SH420/500/700/850 (for connexion with FAS) | | | | 205 050 175 3 |
| 11 Reporting kit for SH1200/2000 (for connexion with FAS) | | | | 205 050 176 3 |



OPEN ENDED WRENCHES

ACCESSORIES INCLUDED

| | SD |
|--------------------------|--------|
| • Suspension bail(s) | 467003 |
| • Exhaust hose | 467073 |
| • Clutch adjustment keys | 29932 |



OPTIONAL ACCESSORIES

| ITEM | SD |
|---|---------------|
| Balancers | |
| 1 Spring suspension balancer | 50542 |
| 2 Hose reel balancer | 50562 |
| 3 Reaction free self-lock balancer | 54442 |
| Suspension Shackle | |
| 4 Suspension shackle | 70082 |
| Bench Stands | |
| 5 D57 Balancing arm, (see pages 116-117) | 408903 |
| • Tool clamp | 615 396 614 0 |
| 5 D57X Balancing arm, (see pages 116-117) | 408913 |
| • Tool clamp | 615 396 614 0 |
| 6 D58 Balancing arm, (see pages 116-117) | 408923 |
| • Tool clamp | 615 396 614 0 |
| Miscellaneous | |
| • Offset exhaust | 205 047 623 3 |
| • Bench mounted swing arm | 66542 |



Accessories

TORQUE CONTROLLED



ACCESSORIES INCLUDED

ITEM

- 1 Muffler
- 2 Straight fitting

SC2 / SD

205 045 792 3
205 044 497 3

OPTIONAL ACCESSORIES

ITEM

- Spring Loaded Shats and Bearings Support (including 3, 4, 5)
- 3 Bit Adaptor
- 4 Spring Loaded Shaf 25mm (1")
- 5 Shaft Support and Nose Mount
- 6 Nose Mounts
- 7 Flange M20
- Offset Head & Spring Loaded shaft (Including 8, 9)
- 8 Offset Head , offset 30mm (1.18")
- 9 Spring Loaded Shaft 25mm (1") stroke
- 10 3/8" Square to 1/4" Hex Power Adaptor

PART NO.

| |
|---------------|
| 103782 |
| 108342 |
| 108412 |
| 205 052 876 3 |
| 205 052 875 3 |
| 384993 |
| 108342 |
| 108322 |

SFP

NJ Screw Dispenser

- 3 Base models, NJ12, NJ23 and NJ45
- Modular rail system to permit screws of 1.4 to 5.0mm diameter to be fed
- Rail can be changed and the unit set up within 5 minutes
- Simple brush and rail combination to prevent jamming
- 30% faster feed rate due to a number of screws being fed into the rail in a single cycle
- Dispenser has built in height adjustment to allow the screw to be presented to the operator at the correct angle

Capacity

NJ12 Thread Diameter 1.4-1.7mm, Screw Length<10mm

NJ23 Thread Diameter 1.8-3.0mm, Screw Length<18mm

NJ45 Thread Diameter 3.1-5.0mm, Screw Length<18mm

Dimensions 130x215x136mm **Weight** 3.2kg

Max Feed Rate 2 screws/second **Bowl Capacity** Approximately 1200pcs (M3)

Power Supply 230/120V **Rated Input** 12V, 500mA



A holding plate will be required for rounded head or countersunk screws to prevent them from climbing on to each other in the rail

How To Order

Base model + 1 Rail assembly & holding plate (if required) + Plug 615 937 002 0



POWER SUPPLY



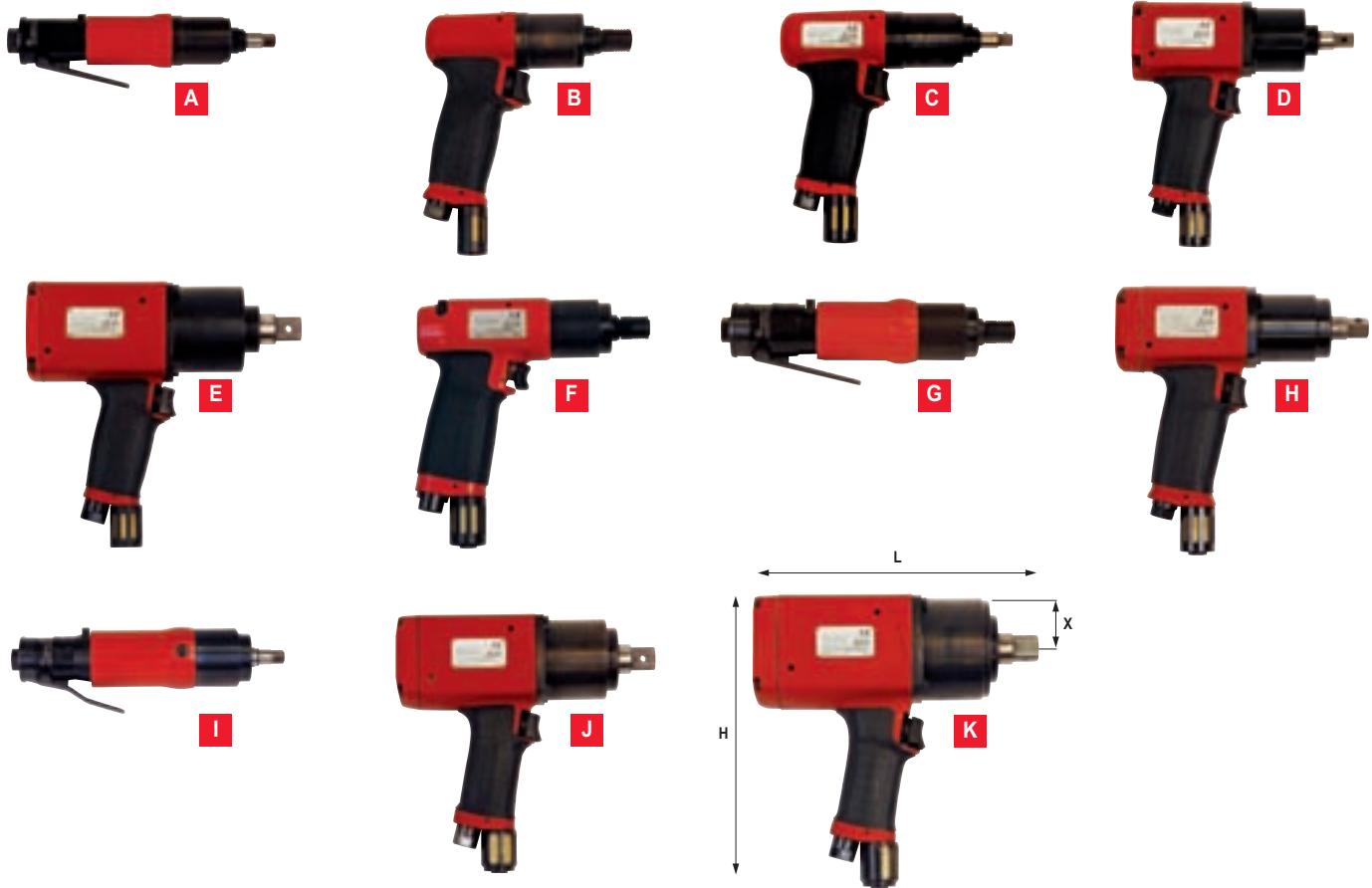
MULTI PLUG ADAPTER

PART NO. 615 937 002 0

| MAX SCREW SIZE (mm) | SCREW DISPENSER MODEL | PART NO. | RAIL ASSEMBLY STANDARD MODEL | PART NO. | HOLDING PLATE SHORT/COUNTERSUNK SCREWS MODEL | PART NO. |
|---------------------|-----------------------|------------|------------------------------|------------|--|------------|
| 1.4 | NJ12 | 2050111772 | R14 | 2050111802 | - | - |
| 1.7 | NJ12 | 2050111772 | R17 | 2050111812 | - | - |
| 2 | NJ23 | 2050111782 | R20 | 2050111822 | R20-23 | 2050111892 |
| 2.3 | NJ23 | 2050111782 | R23 | 2050111832 | R20-23 | 2050111892 |
| 2.6 | NJ23 | 2050111782 | R26 | 2050111842 | R26-30 | 2050111902 |
| 3 | NJ23 | 2050111782 | R30 | 2050111852 | R26-30 | 2050111902 |
| 3.5 | NJ45 | 2050111792 | R35 | 2050111862 | R35-40 | 2050111912 |
| 4 | NJ45 | 2050111792 | R40 | 2050111872 | R35-40 | 2050111912 |
| 5 | NJ45 | 2050111792 | R50 | 2050111882 | R50 | 2050111922 |

Pulse Tools - Shut Off and Non Shut Off range

5 to 450 Nm (4 to 332 ft.lb) - 2800 to 10000 rpm



Air Inlet: All models 1/4" BSP, except PT160/240/250/450: 3/8" BSP – NPT optional

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OUTPUT DRIVE | TORQUE RANGE | DIMENSIONS | | | | WEIGHT | | AIR FLOW | | HOSE INT. Ø | | |
|------------|-------|----------------|---------------|-----------------|-----------------|------------|---|---|----|--------|----|-------------|----|-------------------|-----|-----|
| | | | | | | L | X | H | mm | in. | mm | in. | kg | lb. | l/s | cfm |
| | | | rpm | in. | Nm ft.lb | | | | | | | | | | | |

NON SHUT OFF

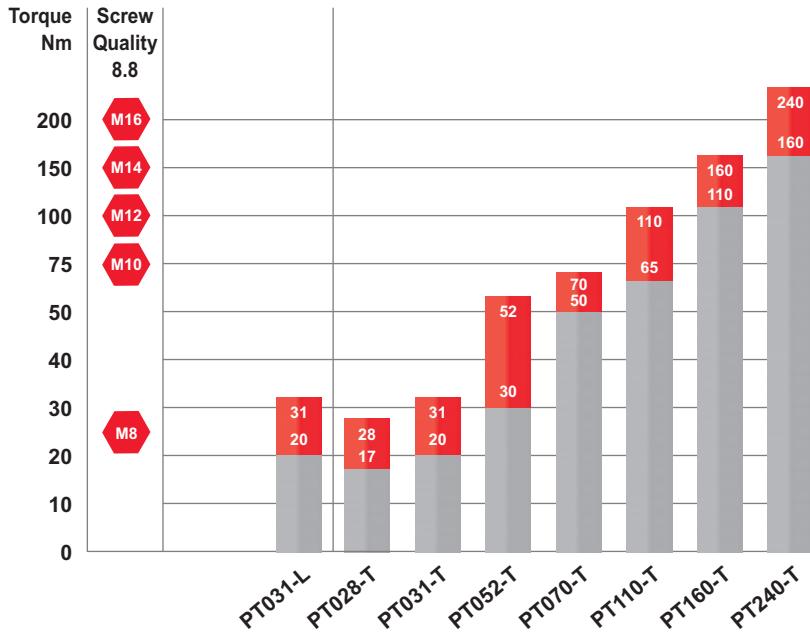
| | | | | | | | | | | | | | | | | | | |
|---|------------------|---------------|-------|---------|---------|---------|-----|-----|----|------|-----|-----|------|-----|----|----|----|------|
| A | PT031-L1000-I10S | 205 147 466 4 | 10000 | 3/8 Sq | 20-31 | 15-23 | 221 | 8.7 | 22 | 0.87 | - | - | 0.70 | 1.5 | 8 | 17 | 8 | 5/16 |
| B | PT028-T9000-I4Q | 205 147 789 4 | 9000 | 1/4 Hex | 17-28 | 13-21 | 150 | 5.9 | 22 | 0.87 | 175 | 6.9 | 0.80 | 1.8 | 8 | 17 | 8 | 5/16 |
| C | PT031-T9000-I10S | 205 147 467 4 | 9000 | 3/8 Sq | 20-31 | 15-23 | 152 | 6.0 | 22 | 0.87 | 175 | 6.9 | 0.80 | 1.8 | 8 | 17 | 8 | 5/16 |
| C | PT052-T7000-I10S | 205 147 468 4 | 7000 | 3/8 Sq | 30-52 | 22-38 | 174 | 6.8 | 23 | 0.90 | 175 | 6.9 | 1.00 | 2.0 | 9 | 19 | 10 | 3/8 |
| D | PT070-T6000-I13S | 205 147 469 4 | 6000 | 1/2 Sq | 50-70 | 37-52 | 168 | 6.6 | 26 | 1.02 | 190 | 7.5 | 1.30 | 2.9 | 11 | 23 | 10 | 3/8 |
| D | PT110-T4500-I13S | 205 147 470 4 | 4500 | 1/2 Sq | 65-110 | 48-81 | 178 | 7.0 | 29 | 1.14 | 198 | 7.8 | 1.60 | 3.5 | 12 | 25 | 10 | 3/8 |
| D | PT160-T3500-I13S | 205 147 471 4 | 3500 | 1/2 Sq | 110-160 | 81-118 | 188 | 7.4 | 34 | 1.34 | 209 | 8.2 | 2.40 | 5.3 | 14 | 30 | 13 | 1/2 |
| E | PT240-T2800-I19S | 205 147 472 4 | 2800 | 3/4 Sq | 160-240 | 118-177 | 205 | 8.1 | 37 | 1.46 | 212 | 8.3 | 3.30 | 7.3 | 15 | 32 | 13 | 1/2 |

SHUT OFF

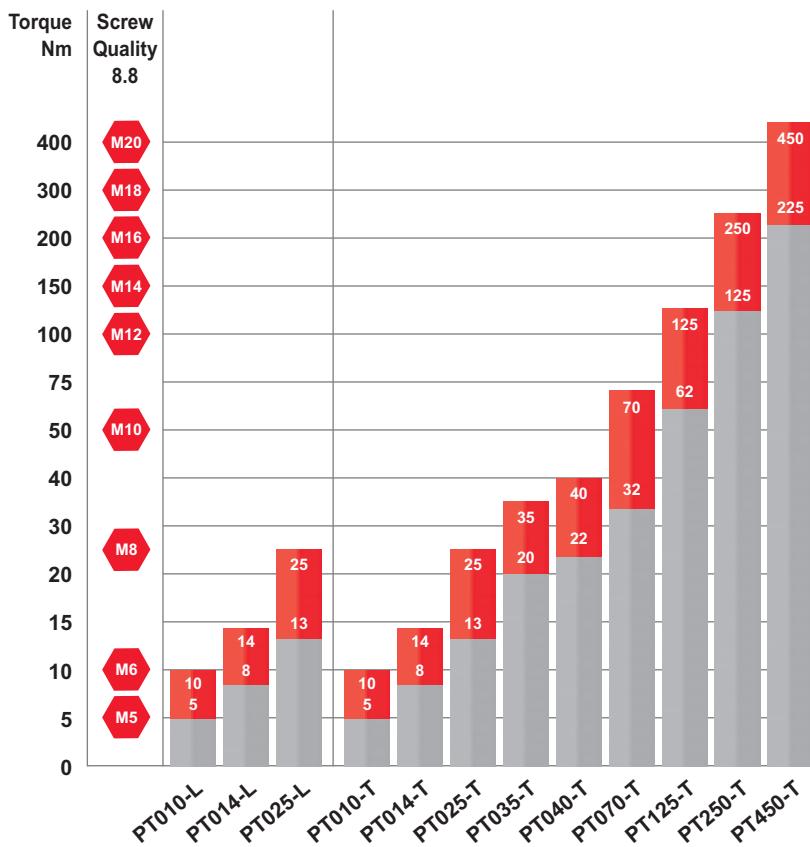
| | | | | | | | | | | | | | | | | | | |
|---|------------------|---------------|------|---------|---------|---------|-----|-----|----|------|-----|-----|------|-----|----|----|----|------|
| F | PT010-T5500-S4Q | 205 146 227 4 | 5500 | 1/4 Hex | 5-10 | 4-7 | 205 | 8.1 | 21 | 0.80 | 178 | 7.0 | 0.95 | 2.1 | 6 | 13 | 8 | 5/16 |
| G | PT010-L5000-S4Q | 205 146 225 4 | 5000 | 1/4 Hex | 5-10 | 4-7 | 212 | 8.3 | 21 | 0.83 | - | - | 0.90 | 1.9 | 6 | 13 | 8 | 5/16 |
| F | PT014-T6000-S4Q | 205 146 228 4 | 6000 | 1/4 Hex | 8-14 | 6-10 | 205 | 8.1 | 21 | 0.83 | 178 | 7.0 | 1.00 | 2.2 | 6 | 13 | 8 | 5/16 |
| G | PT014-L6000-S4Q | 205 146 226 4 | 6000 | 1/4 Hex | 8-14 | 6-10 | 212 | 8.3 | 21 | 0.83 | - | - | 0.90 | 2.0 | 6 | 13 | 8 | 5/16 |
| H | PT025-T4500-S10S | 205 147 462 4 | 4500 | 3/8 Sq | 13-25 | 10-18 | 177 | 7.0 | 26 | 1.02 | 192 | 7.6 | 1.30 | 2.9 | 7 | 15 | 8 | 5/16 |
| I | PT025-L4500-S10S | 205 147 463 4 | 4500 | 3/8 Sq | 13-25 | 10-18 | 236 | 9.3 | 25 | 0.98 | - | - | 1.20 | 2.5 | 7 | 15 | 8 | 5/16 |
| H | PT035-T6000-S4Q | 205 147 790 4 | 6000 | 1/4 Hex | 20-36 | 15-26 | 175 | 6.9 | 26 | 1.02 | 192 | 7.6 | 1.40 | 3.0 | 8 | 17 | 8 | 5/16 |
| H | PT040-T6000-S10S | 205 146 229 4 | 6000 | 3/8 Sq | 22-40 | 16-29 | 177 | 7.0 | 26 | 1.02 | 192 | 7.6 | 1.40 | 3.0 | 8 | 17 | 8 | 5/16 |
| H | PT070-T4000-S13S | 205 146 230 4 | 4000 | 1/2 Sq | 32-70 | 24-51 | 192 | 7.6 | 29 | 1.14 | 200 | 7.9 | 1.80 | 4.0 | 10 | 21 | 10 | 3/8 |
| H | PT125-T3500-S13S | 205 146 231 4 | 3500 | 1/2 Sq | 62-125 | 46-92 | 201 | 7.9 | 34 | 1.34 | 211 | 8.3 | 2.40 | 5.3 | 12 | 25 | 10 | 3/8 |
| J | PT250-T4000-S19S | 205 147 464 4 | 4000 | 3/4 Sq | 125-250 | 92-185 | 216 | 8.5 | 37 | 1.46 | 215 | 8.5 | 3.30 | 7.2 | 20 | 42 | 13 | 1/2 |
| K | PT450-T3000-S19S | 205 147 465 4 | 3000 | 3/4 Sq | 225-450 | 166-332 | 202 | 8.0 | 42 | 1.65 | 229 | 9.0 | 4.30 | 9.5 | 22 | 46 | 13 | 1/2 |

Pulse Tools - Tool Selection

Non Shut Off range



Shut Off range



Accessories

ACCESSORIES INCLUDED

PART NO.

- Air Hose nipple
- Adjustment screwdriver for all models, except PT031/070/110/PT160/240

Pulse Non shut off

- Cover protection for PT031-T9000-I10S
- Cover protection for PT052-T7000-I10S
- Cover protection for PT070-T6000-I13S
- Cover protection for PT110-T4500-I13S
- Cover protection for PT160-T3500-I13S
- Cover protection for PT240-T2800-I19S

Pulse Shut off

- Cover protection for PT014-T6000-S4Q
- Cover protection for PT025-T4500-S10S
- Cover protection for PT040-T6000-S10S
- Cover protection for PT070-T4000-S13S
- Cover protection for PT125-T3500-S13S
- Cover protection for PT250-T4000-S19S
- Cover protection for PT450-T3000-S19S

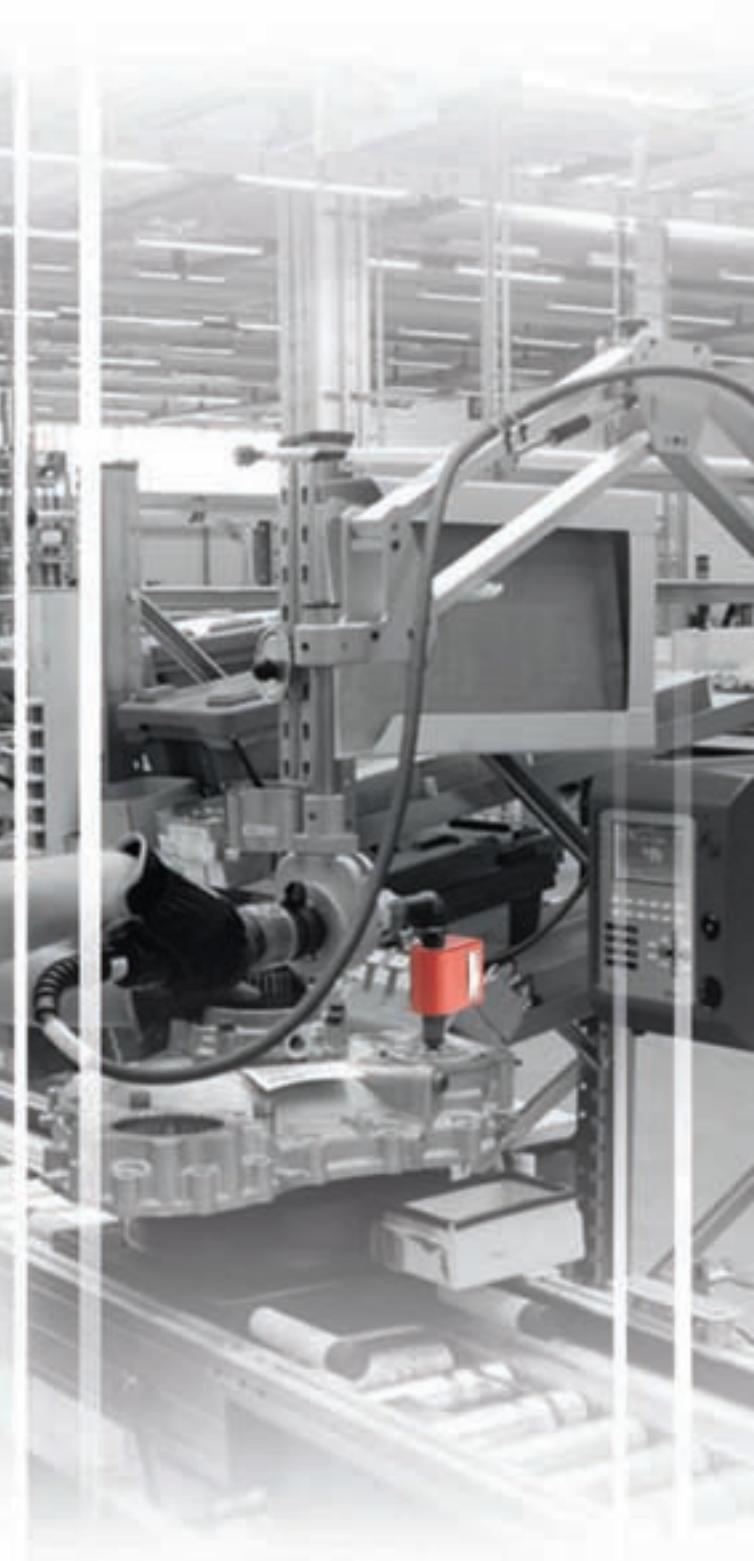
OPTIONAL ACCESSORIES

PART NO.

- Reporting kit for PT010-T/L.. / PT014-T/L.. / PT025-T/L.. / PT040-T.. / PT070-T.. / PT125-T..
- Reporting kit for PT250-T.. / PT450-T..
- Suspension bail for PT031L/010/014/025L
- Suspension bail for PT010/014/031/052
- Suspension bail for PT025/040/070/110/125T
- Suspension bail for PT160/240/250/450T
- Exhaust hose for PT031L
- Exhaust hose for PT010/014/025L

Quality Assurance in Fastening

Sigma 2001/2D / Delta 4000/4D / Delta 5000/5D



Easy-to-use and Versatile

The **SIGMA** and **DELTA** are easy-to-use, versatile systems which allow the measurement of torque values with model **SIGMA 2001/2D**, **DELTA 4000/4D** or torque and angle values with model **DELTA 5000/5D**.

The parameters and features of all the transducers in the range are stored in the **SIGMA** / **DELTA** and are automatically set when selecting the type of transducer:

- Digital rotary transducers
- Static transducers
- Hand held torque wrenches
- Torque & Angle rotary transducers

The **memory** stores up to 1000 results (**SIGMA 2001/2D**), up to 5000 results (**DELTA 4000/4D/5000/5D**).

Lightweight and self-contained, the **SIGMA** & **DELTA** can operate for 14 hours without charge or change of batteries. In addition, there is an easily interchangeable battery block option which doubles this operating time. The data autosave function allows you to perform this operation without the loss of results.

Communication: the **SIGMA** / **DELTA** have the option to connect various parallel printers. They are fitted with an RS232C serial type PC port.

Designed for your Quality Procedure

Checking operation

Sequence of checking operations throughout the assembly line to verify that the tooling is operating to specified torques.

Each operation setting includes all requisite parameters for its performance (type of transducers used, number of required readings, specified torque, tolerances, etc.)

Manual sequencing

Manual selection of the operation corresponding to the tool being verified.

Automatic sequencing

The selection of the various operations can also be carried out automatically, saving the operator the additional time to manually select the operation.

Number of operations

It is possible to program up to 1000 operations. Each operation can include 4 to 5000 reading results depending on the number of operations stored.

DELTAPC Software

The **DELTAPC** software allows you to save, control, modify and select all the operations and to define customised quality procedures. Each procedure can then be performed after being downloaded to the **SIGMA** / **DELTA**.

Torque measurement systems

Sigma 2001/2D / Delta 4000/4D / Delta 5000/5D

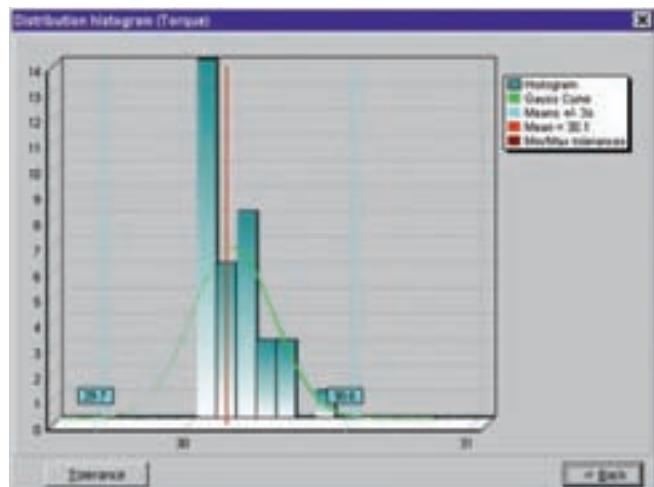
Integrated SPC Calculations

- CAM, CP and CPK calculation and measurement of mean & range on torque or angle values in accordance with ISO, NF, Q544000 and CNOMO standards.
- Calculation of ideal tolerances
- Data screening (date or value interval)
- Tolerance interval selection
- 'Population homogeneity' test
- Normal distribution test
- Exporting the results

The results of the readings can be exported to the **DELTAPC** software in order to:

- store the results and perform statistical calculations
- save and display one or several curves
- display histograms and control charts
- transfer the results and curves to an EXCEL or other type database.

| ↑ STAT. RES. | |
|--------------|---------|
| Nb > Tmax | : 0 |
| Mean | : 50.10 |
| Sigmi | : 0.54 |
| Sigmo | : 0.54 |
| Disp. | : 3.25 |
| Cam | : 3.08 |
| Cpk | : 3.02 |



Two Operations Modes

Acquisition Mode

In this mode, SIGMA / DELTA allows the operator to acquire and store torque values or torque and angle values:

- either automatically, after each tightening operation
- or manually, by pressing the VAL key

In manual mode, 2 types of reading are available:

- peak: displays and stores the maximum torque read
- track: the values displayed follow the evolution of the torque in a continuous process.

Examples of application in track mode

- Hand torque measuring wrenches (AWT / DWT)
- Reading the tension in a joint with a force meter
- Calibration of assembly machines in 'static mode'. In this mode, the values are not stored.

Programming Mode

With its ergonomic design, **SIGMA / DELTA** can be easily programmed by using the 5 browsing and the multifunction alphanumerical keys of the keyboard.

The main parameters that can be programmed are:

- selection of transducer connected to unit
- the torque measuring unit
- the nominal torque
- the nominal torque or torque & angle tolerances
- the number of readings for each operation
- the mode used to start the reading
- the parameters used to save the curves
- etc.

The unit is multilingual: Français, English, Espanol, Deutsch, Italiano, Nederlands, Svenska, Portuguese.

Fields of Application



Car industry



Aeronautics



Medical

Technical features

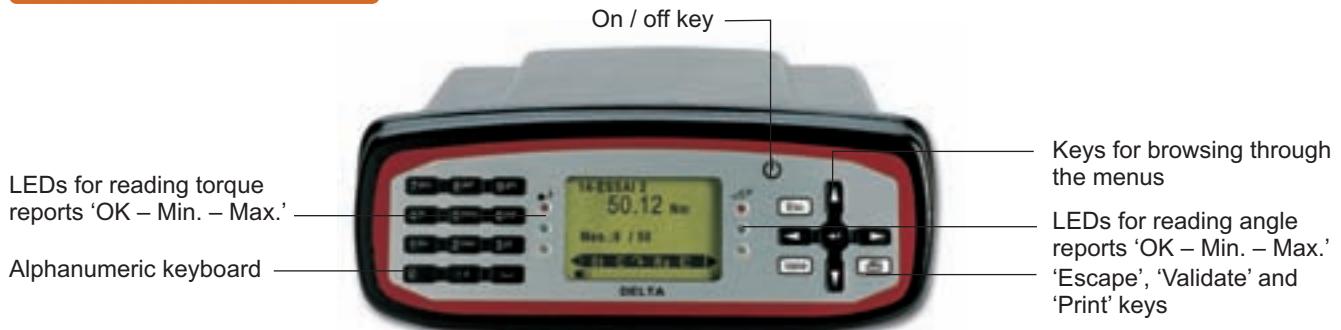
Sigma 2001/2D / Delta 4000/4D / Delta 5000/5D

| MAIN FUNCTIONS | SIGMA 2001/2D | DELTA 4000/4D | DELTA 5000/5D |
|--|------------------|------------------|------------------|
| TORQUE | | | |
| Connection of strain gauge transducers, ART / AWT type or others (for Sigma2001/Delta4000 & 5000 only) | ✓ | ✓ | ✓ |
| Connection of digital transducers DRT4, DRT5, DTW and DST | ✓ | ✓ | ✓ |
| Range changeover: Automatic, depending on the transducer selected | ✓ | ✓ | ✓ |
| Sensitivity: Automatic selection depending on the transducer selected | ✓ | ✓ | ✓ |
| Transducer load: Automatic selection depending on the transducer selected | ✓ | ✓ | ✓ |
| Specific: Torque from 1 to 10 000Nm - up to 20 specific transducers can be defined | | ✓ | ✓ |
| Transducers: Force from 1 to 50 000 daN Sensitivity 0.5 to 2.5 Mv/v | ✓ | ✓ | ✓ |
| Units: Nm - N.cm - kg.cm - kg.m - Ft.lb - In.lb - kg - N - daN - Kn | ✓ | ✓ | ✓ |
| SETTING | | | |
| Joint: Selection of the type of joint and application: Hard - Standard - Soft and filter value (2 to 2048 Hertz) | ✓ | ✓ | ✓ |
| Measuring mode: Standard - Impulse Wrenches | ✓ | ✓ | ✓ |
| Display reset: Manual - External - Automatic (programmable) | ✓ | ✓ | ✓ |
| Operating Mode: Acquisition mode - Programmable mode | ✓ | ✓ | ✓ |
| INTEGRATED STATISTICAL CALCULATIONS | | | |
| CAM, CP and CPK calculation and measurement of mean range on torque or angle values in accordance with ISO, NF, Q544000 and CNOMO standards. | | ✓ | ✓ |
| Calculation of ideal tolerances | ✓ | ✓ | ✓ |
| Data screening (date or value interval) | ✓ | ✓ | ✓ |
| Tolerance interval selection | ✓ | ✓ | ✓ |
| Population homogeneity test | ✓ | ✓ | ✓ |
| Normal distribution test | ✓ | ✓ | ✓ |
| Exporting the results | ✓ | ✓ | ✓ |
| COMMUNICATION | | | |
| LEDs: Tightening reports | ✓ | ✓ | |
| Torque OK - Min. torque - Max torque | ✓ | | |
| Torque OK - Min. torque - Max. torque - Angle OK - Min angle - Max. angle | | | ✓ |
| Inputs: Reset the reading and saving the result - Reset the reading without saving the result | ✓ | ✓ | |
| Outputs: 3 torque reports: OK - Min.- Max. | ✓ | ✓ | |
| Analog torque output (0-10V) | ✓ | ✓ | ✓ |
| Memory: Up to 5000 results including, torque, torque & angle, date & time | | | ✓ |
| Up to 5000 results including, torque, date & time | | ✓ | |
| Up to 1000 results including, torque, date & time | ✓ | | |
| Tightening curves | | ✓ | ✓ |
| Printer: connected to SubD25 point parallel port with printing: either in order of occurrence (print after each reading, automatically) / parameters / statistics / curves or in increments of N readings starting from a given date. | ✓ | ✓ | ✓ |
| Tachometer | | | ✓ |
| POWER REQUIREMENTS | | | |
| Power supply: Removable and rechargeable battery of 6 x 1.2 V (7.2V) NiMH | ✓ | ✓ | ✓ |
| Battery life: 1000 Discharging / Recharging cycles | 14 hours | 14 hours | 14 hours |
| Automatic stop when not used during the selected | ✓ | ✓ | ✓ |
| Battery control: Low battery indication - Power miser - Charge level test | ✓ | ✓ | ✓ |
| Global data backup during battery | ✓ | ✓ | ✓ |
| Charger: Multi-voltage 115/230 Volts with multi-standard mains power cord | ✓ | ✓ | ✓ |

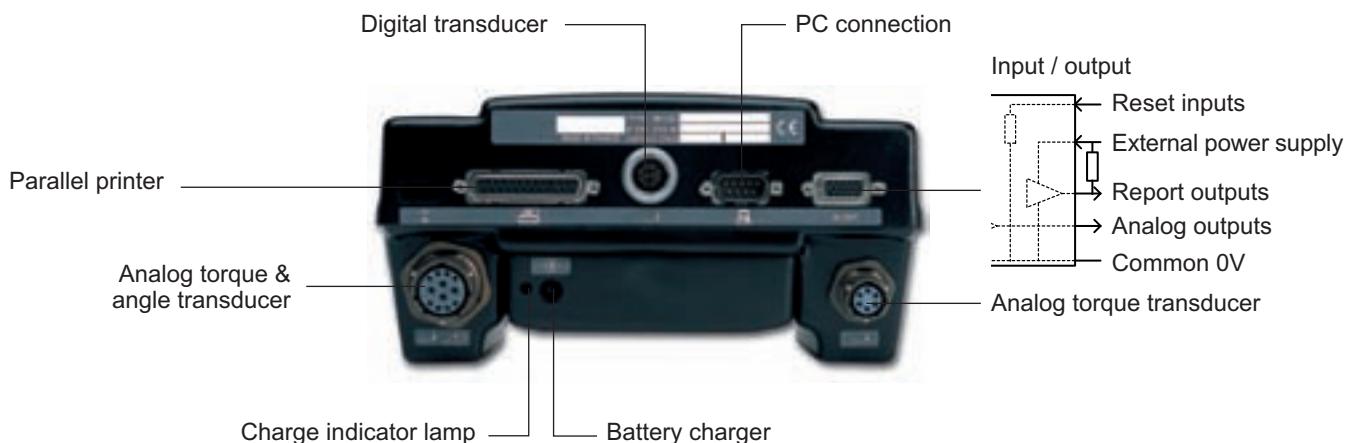
Measuring unit

Sigma 2001/2D / Delta 4000/4D / Delta 5000/5D

OPERATOR INTERFACE



CONNECTIONS



| MODEL | PART NUMBER | POWER REQUIREMENTS | | DEPTH | | DIMENSIONS | | HEIGHT | | WEIGHT | |
|----------------|---------------|--------------------|---------|-------|------|------------|-----|--------|-----|--------|-----|
| | | BATTERY LIFE | CHARGER | mm | in. | mm | in. | mm | in. | kg | lb. |
| SIGMA2001 unit | 615 935 037 0 | hours | Volts | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |
| DELTA4000 unit | 615 935 035 0 | | | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |
| DELTA5000 unit | 615 935 043 0 | | | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |
| SIGMA2D unit | 615 935 051 0 | 14 | 115/230 | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |
| DELTA4D unit | 615 935 052 0 | 14 | 115/230 | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |
| DELTA5D unit | 615 935 053 0 | 14 | 115/230 | 190 | 7.48 | 230 | 9 | 100 | 3.9 | 1.05 | 2.3 |

ACCESSORIES INCLUDED

| | PART NO. |
|---------------------------|---------------|
| • Universal Charger | 615 922 948 0 |
| • Multilingual literature | 615 993 801 0 |

START-UP KIT to be ordered with the unit
Including: Plug + Cable

| PLUG | PART NO. |
|------------|---------------|
| A European | 615 917 201 0 |
| C English | 615 917 202 0 |
| B USA | 615 917 203 0 |



OPTIONAL ACCESSORIES

| PART NO. |
|---|
| • Extra battery block |
| • Unit/PC connection cable, type RS232C |
| • Parallel printer cable |
| • DELTAPC STD 1 Install |
| • DELTAPC STD 5 Install |
| • DELTAPC ADV 1 Install |
| • DELTAPC ADV 5 Install |
| • Demo case Delta (empty) Cable see page 103 |



Digital Rotary Transducers

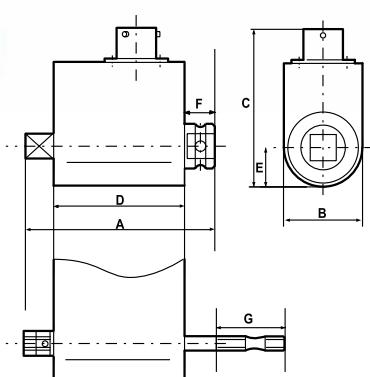
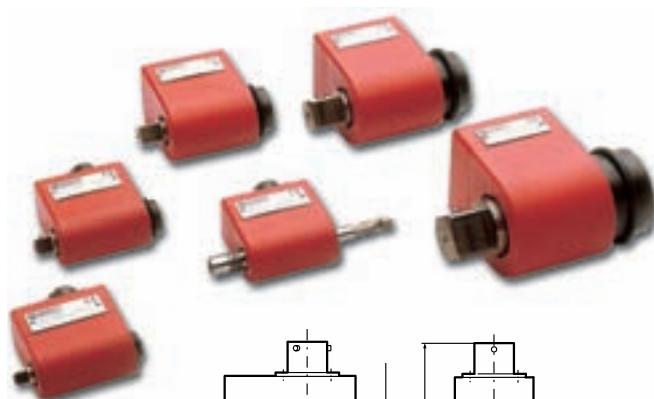
Torque or Torque & Angle

The DRT4 (torque) and DRT5 (torque & angle) transducers cover a torque range from 0.15 to 5000 Nm (0.11 to 3685 ft.lb). DRT5 transducers offer an angle resolution down to 0.5°. The built-in memory provides all transducer calibration data to Sigma or Delta data collector.

Features:

- Torque range from 0.15 to 5000 Nm.....(0.11 to 3685 ft.lb).
- Strain gauges transducer
– sensitivity 2mV/V.
– accuracy +/-0.35% full scale.
- Built-in smart chip memory with:
Calibration features:
type of transducer – sensitivity – nominal load – serial number.
Maintenance information:
date of last calibration – maximum torque applied on transducer.
- Unique contact system preventing the common problem of 'brush bounce'.
- Angle counting system 0.5° resolution
- Same size for torque or torque & angle transducers
- Digital connection between data collectorand transducer.

Torque value converted to a digital signal close to the strain gauges.



Benefits:

- Transducers used in line with screwdrivers – pneumatic tools – impulse tools – electric nutrunners and spindles.
- The most accurate and reliable type of torque transducer.
- No need for transducer selection.
- The data collector automatically recognises the transducer connected.
- Avoids risk of operator error in selecting a wrong type of transducer.
- Transducers can be used in line with impulse tools, but not with impact tools.
- Checks all types of joints, hard and soft.
- No problem of accessibility.
- Insensitive to cable length.
- Reliability of torque values transmitted to the data collector.
- Only one type of transducer cable needed.
- Easy to recalibrate by modifying the sensitivity coefficient.
- No hardware adjustment.

| MODEL | PART NUMBER | TORQUE RANGE | | OUTPUT |
|-------|-------------|--------------|-------|--------|
| | | Nm | ft.lb | |

TORQUE TRANSDUCERS DRT4

| | | | | |
|---------------|---------------|-----------|-----------|-----------|
| DRT 4 H 2 | 615 165 209 0 | 0.15-2 | 0.11-1.5 | Hex 1/4" |
| DRT 4 H 5 | 615 165 210 0 | 0.3-5 | 0.22-3.7 | Hex 1/4" |
| DRT 4 H 20 | 615 165 211 0 | 1.5-20 | 1.11-14.7 | Hex 1/4" |
| DRT 4 Sq 20 | 615 165 212 0 | 1.5-20 | 1.11-14.7 | Sq 3/4" |
| DRT 4 Sq 25 | 615 165 213 0 | 1.8-25 | 1.33-18.4 | Sq 3/8" |
| DRT 4 Sq 75 | 615 165 214 0 | 5.0-75 | 3.69-55.3 | Sq 5/8" |
| DRT 4 Sq 180 | 615 165 215 0 | 12.0-180 | 8.85-132 | Sq 1/2" |
| DRT 4 Sq 500 | 615 165 216 0 | 35.0-500 | 25.8-368 | Sq 3/4" |
| DRT 4 Sq 1400 | 615 165 217 0 | 95.0-1400 | 70.0-1032 | Sq 1" |
| DRT 4 Sq 3000 | 615 165 536 0 | 200-3000 | 147-2211 | Sq 1-1/2" |
| DRT 4 Sq 5000 | 615 165 540 0 | 350-5000 | 258-3685 | Sq 1-1/2" |

TORQUE & ANGLE TRANSDUCERS DRT5

| | | | | |
|---------------|---------------|-----------|-----------|----------|
| DRT 5 H 2 | 615 165 218 0 | 0.15-2 | 0.11-1.5 | Hex 1/4" |
| DRT 5 H 5 | 615 165 219 0 | 0.3-5 | 0.22-3.7 | Hex 1/4" |
| DRT 5 H 20 | 615 165 220 0 | 1.5-20 | 1.11-14.7 | Hex 1/4" |
| DRT 5 Sq 20 | 615 165 221 0 | 1.5-20 | 1.11-14.7 | Sq 1/4" |
| DRT 5 Sq 25 | 615 165 222 0 | 1.8-25 | 1.33-18.4 | Sq 3/8" |
| DRT 5 Sq 75 | 615 165 223 0 | 5.0-75 | 3.69-55.3 | Sq 5/8" |
| DRT 5 Sq 180 | 615 165 224 0 | 12.0-180 | 8.85-132 | Sq 1/2" |
| DRT 5 Sq 500 | 615 165 225 0 | 35.0-500 | 25.8-368 | Sq 3/4" |
| DRT 5 Sq 1400 | 615 165 226 0 | 95.0-1400 | 70.0-1032 | Sq 1" |

OPTIONAL ACCESSORIES

Cables, see page 103

| OUTPUT | A mm | A in. | B mm | B in. | C mm | C in. | D mm | D in. | E mm | E in. | F mm | F in. | G mm | G in. |
|-----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| Hex 1/4" | 116.0 | 4.56 | 30.0 | 1.18 | 68.0 | 2.68 | 56.0 | 2.20 | 13.0 | 0.51 | 39.0 | 1.53 | 25.5 | 1 |
| Sq 1/4" | 71.5 | 2.81 | 30.0 | 1.18 | 71.5 | 2.81 | 56.0 | 2.20 | 13.0 | 0.51 | 6.0 | 0.24 | | |
| Sq 3/8" | 77.0 | 3.03 | 30.0 | 1.18 | 74.0 | 2.91 | 56.0 | 2.20 | 15.0 | 0.59 | 8.0 | 0.31 | | |
| Sq 1/2" | 87.0 | 3.42 | 42.0 | 1.65 | 82.5 | 3.25 | 58.0 | 2.28 | 21.0 | 0.83 | 12.0 | 0.47 | | |
| Sq 3/4" | 106.0 | 4.17 | 52.0 | 2.05 | 93.5 | 3.68 | 60.0 | 2.36 | 26.0 | 1.02 | 21.0 | 0.83 | | |
| Sq 1" | 125.0 | 4.92 | 63.0 | 2.48 | 104.0 | 4.09 | 64.5 | 2.54 | 31.5 | 1.24 | 29.0 | 1.14 | | |
| Sq 1-1/2" | 165.0 | 6.50 | 106.0 | 4.17 | 148.5 | 5.85 | 88.0 | 3.46 | 53.0 | 2.09 | 35.2 | 1.39 | | |

Analog Rotary Transducers

Torque

The ART4 (torque) transducers cover a torque range from 0.3 to 180 Nm (0.22 to 132 ft.lb).

Features:

- Torque range from 0.3 to 180 Nm (0.22 to 132 ft.lb).
- Highly accurate strain gauges transducer
 - sensitivity 2mV/V.
 - accuracy +/-0.35% full scale.
- Unique contact system preventing the common problem of 'brush bounce'.
- Same size for torque or torque & angle transducers
Same as DRT transducers.

Benefits:

- Transducers used in line with screwdrivers – pneumatic tools – impulse tools – electric nutrunners and spindles.
- The most accurate and reliable type of torque transducer.
- Transducers can be used in line with impulse tools, but not with impact tools.
- No problem of accessibility.

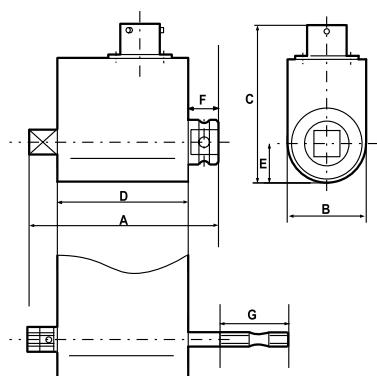
**Compatible with Sigma2001, Delta4000 & Delta5000
not with Sigma2D, Delta4D & Delta5D**



| MODEL | PART NUMBER | TORQUE RANGE | | OUTPUT |
|--------------------------------|---------------|--------------|-----------|----------|
| | | Nm | ft.lb | |
| TORQUE TRANSDUCERS ART4 | | | | |
| ART4 H 5 | 615 165 374 0 | 0.3-5 | 0.22-3.7 | Hex 1/4" |
| ART4 H 20 | 615 165 375 0 | 1.5-20 | 1.11-14.7 | Hex 1/4" |
| ART4 Sq 25 | 615 165 376 0 | 1.8-25 | 1.33-18.4 | Sq 3/8" |
| ART4 Sq 75 | 615 165 377 0 | 5.0-75 | 3.69-55.3 | Sq 3/8" |
| ART4 Sq 180 | 615 165 378 0 | 12.0-180 | 8.85-132 | Sq 1/2" |

OPTIONAL ACCESSORIES

Cables, see page 103



| OUTPUT | A mm | A in. | B mm | B in. | C mm | C in. | D mm | D in. | E mm | E in. | F mm | F in. | G mm | G in. |
|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| Hex 1/4" | 116.0 | 4.56 | 30.0 | 1.18 | 68.0 | 2.68 | 56.0 | 2.20 | 13.0 | 0.51 | 39.0 | 1.53 | 25.5 | 1 |
| Sq 3/8" | 77.0 | 3.03 | 30.0 | 1.18 | 74.0 | 2.91 | 56.0 | 2.20 | 15.0 | 0.59 | 8.0 | 0.31 | | |
| Sq 1/2" | 87.0 | 3.42 | 42.0 | 1.65 | 82.5 | 3.25 | 58.0 | 2.28 | 21.0 | 0.83 | 12.0 | 0.47 | | |

Torque wrenches

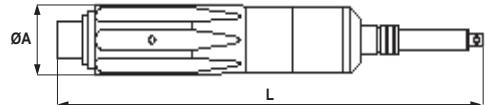
AWT - Analogic Wrench Torque

Torque screwdriver used for Quality control and for precise assembly.

Used with data acquisition unit, Delta4000/5000 & Sigma2001 analogic.

Sliding bush to convert left & right tightening. The very low friction avoids dragging the screws on the return motion.

Precision reversible ratchet consisting of two needle clutches for minimum backlash effect on 15 Nm model.

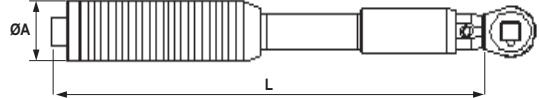


| MODEL | PART NUMBER | TORQUE RANGE | | ACCURACY | | SQUARE DRIVE | DIMENSIONS | | | | WEIGHT | |
|----------------|---------------|--------------|-----------|----------|-------------|--------------|------------|-----|----|------|--------|------|
| | | Nm | ft.lb | +/- 0.5% | +/- 1 digit | | L | ØA | mm | in. | mm | in. |
| AWT 1 Nm - 6S | 615 165 552 0 | 0.1-1 | 0.07-0.74 | +/- 0.5% | +/- 1 digit | 1/4 | 143 | 5.6 | 35 | 1.38 | 0.22 | 0.48 |
| AWT 5 Nm - 6S | 615 165 554 0 | 0.5-5 | 0.37-3.68 | +/- 0.5% | +/- 1 digit | 1/4 | 143 | 5.6 | 35 | 1.38 | 0.22 | 0.48 |
| AWT 15 Nm - 6R | 615 165 556 0 | 1.5-15 | 1.10-11.0 | +/- 0.5% | +/- 1 digit | 1/4 | 190 | 7.5 | 35 | 1.38 | 0.36 | 0.79 |

DWT - Digital Wrench Torque

Digital Torque wrench non length dependent

Used for quality control: residual torque check
Used with data acquisition unit, Delta & Sigma



All models supplied with Reversible ratchet: 615 397 126 0 for DWT30/50 - 615 397 127 0 for DWT70/100 - 615 397 200 0 for DWT150/250 - 615 397 201 0 for DWT400 - 615 397 204 0 for DWT1000

| MODEL | PART NUMBER | TORQUE RANGE | | DRIVE | | RATCHET | DIMENSIONS | | | | WEIGHT | |
|------------------|---------------|--------------|----------|-------|-----------|---------|------------|------|----|------|--------|------|
| | | Nm | ft.lb | mm | in. | | mm | in. | mm | in. | kg | lb. |
| DWT 30 Nm - 10 | 615 165 544 0 | 3-30 | 2.2-22 | 9x12 | 0.35x0.47 | 3/8 | 220 | 8.7 | 40 | 1.57 | 0.43 | 0.95 |
| DWT 50 Nm - 10 | 615 165 545 0 | 5-50 | 3.7-37 | 9x12 | 0.35x0.47 | 3/8 | 220 | 8.7 | 40 | 1.57 | 0.44 | 0.97 |
| DWT 70 Nm - 13 | 615 165 546 0 | 7-70 | 5.2-52 | 9x12 | 0.35x0.47 | 1/2 | 283 | 11.1 | 40 | 1.57 | 0.54 | 1.19 |
| DWT 100 Nm - 13 | 615 165 547 0 | 10-100 | 7.4-74 | 9x12 | 0.35x0.47 | 1/2 | 363 | 14.3 | 40 | 1.57 | 0.63 | 1.39 |
| DWT 150 Nm - 13 | 615 165 548 0 | 15-150 | 11.1-110 | 14x18 | 0.55x0.71 | 1/2 | 475 | 18.7 | 40 | 1.57 | 1.38 | 3.04 |
| DWT 250 Nm - 13 | 615 165 549 0 | 25-250 | 18.4-184 | 14x18 | 0.55x0.71 | 1/2 | 475 | 18.7 | 40 | 1.57 | 1.44 | 3.17 |
| DWT 400 Nm - 20 | 615 165 550 0 | 40-400 | 29.5-294 | 14x18 | 0.55x0.71 | 3/4 | 735 | 28.9 | 40 | 1.57 | 2.01 | 4.43 |
| DWT 1000 Nm - 25 | 615 165 551 0 | 100-1000 | 73.7-737 | ø28 | 1.1 | 1 | 1102 | 43.4 | 56 | 2.20 | 6.48 | 14.3 |

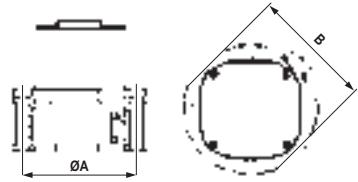
DWA - DIGITAL WRENCH ACCESSORIES

| END FITTING TOOLS | PART NUMBER | DRIVE | | DIMENSIONS | | | | WEIGHT | | | | |
|-------------------|-------------------------|---------------|-------|------------|-----|------|------|--------|------|------|------|-------|
| | | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | |
| A | Open End | | | | | | | | | | | |
| A | Open End 13mm | 615 397 061 0 | 9x12 | 0.03x0.47 | 13 | 0.51 | 30 | 1.18 | 7 | 0.28 | 17.5 | 0.69 |
| A | Open End 17mm | 615 397 065 0 | 9x12 | 0.03x0.47 | 17 | 0.67 | 38 | 1.50 | 8.5 | 0.33 | 17.5 | 0.69 |
| A | Open End 22mm | 615 397 139 0 | 14x18 | 0.55x0.71 | 22 | 0.87 | 50 | 1.97 | 11 | 0.43 | 25 | 0.98 |
| A | Open End 24mm | 615 397 140 0 | 14x18 | 0.55x0.71 | 24 | 0.94 | 53 | 2.09 | 12 | 0.47 | 25 | 0.98 |
| B | Ring End | | | | | | | | | | | |
| B | Ring End 17mm | 615 397 087 0 | 9x12 | 0.03x0.47 | 17 | 0.67 | 27.2 | 1.07 | 13 | 0.51 | 17.5 | 0.69 |
| B | Ring End 22mm | 615 397 091 0 | 9x12 | 0.03x0.47 | 22 | 0.87 | 34.5 | 1.36 | 15 | 0.59 | 17.5 | 0.69 |
| B | Ring End 22mm | 615 397 181 0 | 14x18 | 0.55x0.71 | 22 | 0.87 | 34.5 | 1.36 | 15 | 0.59 | 25 | 0.98 |
| B | Ring End 24mm | 615 397 182 0 | 14x18 | 0.55x0.71 | 24 | 0.94 | 37.5 | 1.48 | 15 | 0.59 | 25 | 0.98 |
| C | Flared End | | | | | | | | | | | |
| C | Flared End 22mm | 615 397 113 0 | 9x12 | 0.03x0.47 | 22 | 0.87 | 39 | 1.54 | 15 | 0.59 | 19 | 0.75 |
| D | Reversible Ratchet | | | | | | | | | | | |
| D | Reversible Ratchet 1/4" | 615 397 125 0 | 9x12 | 0.03x0.47 | 1/4 | 22 | 0.87 | 14.5 | 0.57 | 17.5 | 0.69 | 0.062 |
| D | Reversible Ratchet 3/8" | 615 397 126 0 | 9x12 | 0.03x0.47 | 3/8 | 22 | 0.87 | 14.5 | 0.57 | 17.5 | 0.69 | 0.062 |
| D | Reversible Ratchet 1/2" | 615 397 127 0 | 9x12 | 0.03x0.47 | 1/2 | 22 | 0.87 | 14.5 | 0.57 | 17.5 | 0.69 | 0.062 |
| D | Reversible Ratchet 1/2" | 615 397 200 0 | 14x18 | 0.55x0.71 | 1/2 | 50 | 1.97 | 30.7 | 1.21 | 25 | 0.98 | 0.467 |
| D | Reversible Ratchet 3/4" | 615 397 201 0 | 14x18 | 0.55x0.71 | 3/4 | 50 | 1.97 | 30.7 | 1.21 | 25 | 0.98 | 0.467 |
| D | Reversible Ratchet 1" | 615 397 204 0 | Ø 28 | | 1 | 50 | 1.97 | 30.7 | 1.21 | 25 | 0.98 | 0.467 |

DST - Digital Static Transducers

Used for Torque control & Calibration of electric, pneumatic & impulse tools

These transducers have vertical input axis with a female square drive to hold joint simulators
(not needed to test non shut off impulse tool)
Used with data acquisition unit, Delta & Sigma



| MODEL | PART NUMBER | TORQUE RANGE | | SQUARE DRIVE | DIMENSIONS | | | | WEIGHT | |
|------------------|---------------|--------------|------------|--------------|------------|------|-----|------|--------|------|
| | | Nm | ft.lb | | ØA | B | in. | mm | kg | lb. |
| DST 0.5 Nm - 13 | 615 165 537 0 | 0.05-0.5 | 0.04-0.4 | 1/2 | 81 | 3.19 | 91 | 3.58 | 2.3 | 5.1 |
| DST 2 Nm - 13 | 615 165 532 0 | 0.2-2 | 0.15-1.5 | 1/2 | 81 | 3.19 | 91 | 3.58 | 2.3 | 5.1 |
| DST 5 Nm - 13 | 615 165 533 0 | 0.5-5 | 0.37-3.7 | 1/2 | 81 | 3.19 | 91 | 3.58 | 2.3 | 5.1 |
| DST 10 Nm - 20 | 615 165 534 0 | 1-10 | 0.74-7.4 | 3/4 | 86 | 3.38 | 93 | 3.66 | 3.1 | 6.8 |
| DST 30 Nm - 20 | 615 165 535 0 | 3-30 | 2.21-22 | 3/4 | 89 | 3.50 | 96 | 3.78 | 3.4 | 7.5 |
| DST 80 Nm - 25 | 615 165 538 0 | 8-80 | 5.89-59 | 1 | 108 | 4.25 | 116 | 4.57 | 5.8 | 12.8 |
| DST 200 Nm - 25 | 615 165 539 0 | 20-200 | 14.7-147 | 1 | 108 | 4.25 | 116 | 4.57 | 5.8 | 12.8 |
| DST 500 Nm - 32 | 615 165 541 0 | 50-500 | 36.8-368 | 1 1/4 | 133 | 5.24 | 144 | 5.67 | 11.8 | 26.0 |
| DST 1000 Nm - 32 | 615 165 542 0 | 100-1000 | 73.7-737 | 1 1/4 | 133 | 5.24 | 144 | 5.67 | 11.9 | 26.2 |
| DST 2000 Nm - 32 | 615 165 543 0 | 200-2000 | 147.4-1474 | 1 1/4 | 133 | 5.24 | 144 | 5.67 | 12.0 | 26.4 |

DSA - DELTA STATIC TRANDUCERS ACCESSORIES

| MODEL | PART NO. | MODEL | PART NO. |
|------------------------------|---------------|---------------------------|---------------|
| Adaptor SQ 3/4" M - 1/4" F | 615 397 205 0 | Female 1/4" - Female 1/4" | 615 397 210 0 |
| Adaptor SQ 3/4" M - 3/8" F | 615 397 206 0 | Female 3/8" - Female 3/8" | 615 397 211 0 |
| Adaptor SQ 1" M - 1/2" F | 615 397 207 0 | Female 1/2" - Female 1/2" | 615 165 573 0 |
| Adaptor SQ 1-1/4" M - 1/2" F | 615 397 208 0 | Female 3/4" - Female 3/4" | 615 165 576 0 |
| Adaptor SQ 1-1/4" M - 3/4" F | 615 397 209 0 | | |

Joint simulators



DJS - Digital Joint Simulator

Joint simulators are used to reproduce normal conditions of use of a power tool so that the calibration of the tool is suited to the resilience of the joint where the tool is used on the line.

The choice of Soft or Hard stiffness is needed as the torque developed by most tools varies with joint stiffness. Each joint simulator is identified by two coloured rings for fast, easy recognition by the operator.

| MODEL | PART NUMBER | TORQUE RANGE | | COLOR | | SQUARE DRIVE INSIDE | SQUARE DRIVE OUTSIDE | WEIGHT | |
|----------------|---------------|--------------|-----------|--------|--------|---------------------|----------------------|--------|------|
| | | Nm | ft.lb | | | | | kg | lb. |
| DJS Soft - 2 | 615 165 529 0 | 0.2-1 | 0.15-0.74 | Yellow | Yellow | 1/2 | Hex 1/4 | 0.12 | 0.26 |
| DJS Hard - 2 | 615 165 530 0 | 0.3-2 | 0.22-1.5 | Yellow | Black | 1/2 | Hex 1/4 | 0.12 | 0.26 |
| DJS Soft - 5 | 615 165 531 0 | 0.6-5 | 0.44-3.7 | Green | Yellow | 1/2 | Hex 1/4 | 0.12 | 0.26 |
| DJS Hard - 5 | 615 165 571 0 | 0.6-5 | 0.44-3.7 | Green | Black | 1/2 | Hex 1/4 | 0.12 | 0.26 |
| DJS Soft - 10 | 615 165 574 0 | 1-10 | 0.74-7.4 | Red | Yellow | 3/4 | 1/4 | 0.23 | 0.51 |
| DJS Hard - 10 | 615 165 575 0 | 1-10 | 0.74-7.4 | Red | Black | 3/4 | 3/8 | 0.41 | 0.90 |
| DJS Soft - 30 | 615 165 577 0 | 1-30 | 0.74-22 | Blue | Yellow | 3/4 | 3/8 | 0.41 | 0.90 |
| DJS Hard - 30 | 615 165 579 0 | 1-30 | 0.74-22 | Blue | Black | 3/4 | 3/8 | 0.41 | 0.90 |
| DJS Soft - 80 | 615 165 584 0 | 6-50 | 4.42-37 | Purple | Yellow | 1 | 1/2 | 0.75 | 1.65 |
| DJS Hard - 80 | 615 165 587 0 | 10-80 | 7.37-59 | Purple | Black | 1 | 1/2 | 0.75 | 1.65 |
| DJS Soft - 200 | 615 165 588 0 | 10-100 | 7.37-74 | Grey | Yellow | 1 | 1/2 | 0.75 | 1.65 |
| DJS Hard - 200 | 615 165 589 0 | 20-200 | 14.7-147 | Grey | Black | 1 | 1/2 | 0.75 | 1.65 |
| DJS Soft - 500 | 615 165 590 0 | 20-320 | 14.7-236 | Black | Yellow | 1 1/4 | 1/2 | 1.75 | 3.86 |
| DJS Hard - 500 | 615 165 591 0 | 120-500 | 88.4-368 | Black | Black | 1 1/4 | 3/4 | 3.06 | 6.74 |
| DJS 1000 | 615 165 572 0 | 300-1000 | 221-737 | | | 1 1/4 | 1 | 3.20 | 7.05 |

Alpha Digital Torque Tester

The ALPHA 1, 5 & 11 are designed for measuring and testing of torque controlled equipment such as wrenches, power tools or hand screwdrivers.

Features Overview

- Accuracy $\pm 1\%$ of reading from 20% to 100% of full scale
- Built-in torque transducer
- For all small hand tools & non impacting power tools
- Selection of two operation modes: (Track, Peak)
- Four units of torque measurements: (lbf.in, cN.m, N.m, kgf.cm)
- Four low-pass filter selections (3000, 1500, 1000 and 500 Hz)
- Battery powered with up to 10 hours of operation
- RS-232 interface to download readings in «real time»
- Large screen and easy to use menus (5 languages)



START-UP KIT to be ordered with the unit
Including: **Plug + Cable**

| PLUG | PART NO. |
|------------|---------------|
| A European | 615 917 201 0 |
| C English | 615 917 202 0 |
| B USA | 615 917 203 0 |



ACCESSORIES INCLUDED

| | PART NO |
|-------------------------|---------------|
| • Aluminium case | 615 936 036 0 |
| • Battery charger | 615 936 031 0 |
| • Run down adaptors kit | 615 936 033 0 |
| • RS232 cable | 615 936 035 0 |
| • Battery pack | 615 936 032 0 |

| MODEL | PART NUMBER | TORQUE RANGE | | WIDTH | | DIMENSIONS | | DEPTH | | WEIGHT | |
|----------|---------------|--------------|----------|-------|------|------------|------|-------|------|--------|-----|
| | | Nm | in.lb | mm | in. | mm | in. | mm | in. | kg | lb. |
| ALPHA 1 | 615 935 045 0 | 0.11 - 1.1 | 1 - 10 | 185 | 7.28 | 50 | 1.97 | 110 | 4.33 | 2.0 | 4.4 |
| ALPHA 5 | 615 935 046 0 | 0.56 - 5.65 | 5 - 50 | 185 | 7.28 | 50 | 1.97 | 110 | 4.33 | 2.0 | 4.4 |
| ALPHA 11 | 615 935 047 0 | 1.13 - 11.3 | 10 - 100 | 185 | 7.28 | 50 | 1.97 | 110 | 4.33 | 2.0 | 4.4 |

Measurement Accessories



| MODEL | PART NUMBER | TORQUE RANGE | | INCREMENTS | | OUTPUT | LENGTH | | WEIGHT | |
|-------|-------------|--------------|----------|------------|----------|--------|--------|-----|--------|-----|
| | | metric | imperial | metric | imperial | | mm | in. | kg | lb. |

PRESET TORQUE ADJUSTABLE SCREWDRIVERS - FOR TIGHTENING

| | | | | | | | | |
|---------------------|-------|---------------|----------|----------------|-----|-----|------|------|
| AS-120 | 81892 | 10-120 cNm | 1 cNm | 1/4" fem. hex. | 168 | 6.6 | 0.16 | 0.35 |
| AS-600 ₁ | 81922 | 1-6 Nm | 0.1 Nm | 1/4" fem. hex. | 184 | 7.2 | 0.34 | 0.75 |
| AS-900 ₁ | 81942 | 4-9 Nm | 0.1 Nm | 1/4" fem. hex. | 184 | 7.2 | 0.34 | 0.75 |
| AS-07 | 91902 | 10-120 ozf in | 1 ozf in | 1/4" fem. hex. | 168 | 6.6 | 0.16 | 0.35 |
| AS-50 ₁ | 81932 | 5-50 lbf in | 1 lbf in | 1/4" fem. hex. | 184 | 7.2 | 0.34 | 0.75 |

1) supplied with T bar



| MODEL | PART NUMBER | TORQUE RANGE | | INCREMENTS | | OUTPUT | LENGTH | | WEIGHT | |
|-------|-------------|--------------|----------|------------|----------|--------|--------|-----|--------|-----|
| | | metric | imperial | metric | imperial | | mm | in. | kg | lb. |

DIAL INDICATING TORQUE SCREWDRIVERS - FOR MEASURING + TIGHTENING

| | | | | | | | | | | |
|---------------------|-------|-----------|--------------|--------|-----------|----------------|-----|-----|-----|------|
| TS-050 | 81852 | 0-50 cNm | 0.70 ozf in | 2 cNm | 5 ozf in | 3/8" fem. hex. | 178 | 7.0 | 0.2 | 0.44 |
| TS-100 | 81862 | 0-100 cNm | 0.140 ozf in | 5 cNm | 10 ozf in | 3/8" fem. hex. | 178 | 7.0 | 0.2 | 0.44 |
| TS-250 ₁ | 81872 | 0-250 cNm | 0.20 ozf in | 10 cNm | 1 lbf in | 1/2" fem. hex. | 250 | 9.8 | 0.5 | 1.10 |
| TS-500 ₁ | 81882 | 0-500 cNm | 0.40 ozf in | 20 cNm | 2 lbf in | 1/2" fem. hex. | 250 | 9.8 | 0.5 | 1.10 |

1) supplied with T bar



| MODEL | PART NUMBER | TORQUE RANGE | | INCREMENTS | | OUTPUT | LENGTH | | WEIGHT | |
|-------|-------------|--------------|----------|------------|----------|--------|--------|-----|--------|-----|
| | | metric | imperial | metric | imperial | | mm | in. | kg | lb. |

DIAL INDICATING TORQUE WRENCHES - FOR MEASURING + TIGHTENING

| | | | | | | | | | | |
|--------|-------|-------------|--------------|--------|------------|----------|-----|----|------|------|
| TW-4 | 81962 | 0.3-4 Nm | 3-35 lbf in | 0.1 Nm | 1 lbf in | 1/4" sq. | 255 | 10 | 0.52 | 1.15 |
| TW-13 | 81972 | 0.5-13.5 Nm | 4-120 lbf in | 0.5 Nm | 2 lbf in | 3/8" sq. | 255 | 10 | 0.52 | 1.15 |
| TW-27 | 81982 | 1-27 Nm | 1-20 lbf in | 1 Nm | 0.5 lbf ft | 3/8" sq. | 255 | 10 | 0.52 | 1.15 |
| TW-80 | 81992 | 6-80 Nm | 5-60 lbf ft | 2 Nm | 1 lbf ft | 1/2" sq. | 455 | 18 | 1.36 | 3.0 |
| TW-160 | 82002 | 10-160 Nm | 6-120 lbf ft | 2.5 Nm | 2 lbf ft | 1/2" sq. | 535 | 21 | 1.36 | 3.0 |

Cable for Connecting Measuring Units & Transducers

| CABLE TYPE | DATA COLECT SIDE <> TRANS SIDE | DATA COLLECTOR TYPE | FOR TRANSDUCER | LENGTH | PART NUMBER |
|------------|--------------------------------|----------------------------|-----------------|-------------------------|---------------|
| Analog | 6 pins <> 6 pins | Sigma 2001, Delta 4/5000 | AWT + ART4 | 2m (78.7") long | 615 917 251 0 |
| Analog | 6 pins <> 6 pins | Sigma 2001, Delta 4/5000 | AWT + ART4 | 5m (196.8") long | 615 917 252 0 |
| Analog | 6 pins <> 6 pins | Sigma 2001, Delta 4/5000 | AWT + ART4 | 2m (78.7") long, spiral | 615 917 253 0 |
| Analog | 12 pins <> 6 pins | Delta 5000 | AWT + ART4 | 2m (78.7") long | 615 917 254 0 |
| Analog | 12 pins <> 6 pins | Delta 5000 | AWT + ART4 | 2m (78.7") long, spiral | 615 917 255 0 |
| Digital | Push pull <> 12 pins | All types of Sigma & Delta | DRT / DWT / DST | 2m (78.7") long | 615 917 430 0 |
| Digital | Push pull <> 12 pins | All types of Sigma & Delta | DRT / DWT / DST | 2m (78.7") long, spiral | 615 917 432 0 |
| Digital | Push pull <> 12 pins | All types of Sigma & Delta | DRT / DWT / DST | 5m (196.8") long | 615 917 433 0 |

DeltaPC Software

“to make your monitoring operations easier”

This software, which is compatible with Windows™, enables connection of torque or torque and angle measuring equipment in the Sigma and Delta range.

Its user-friendly design makes it possible to program complete flowcharts of measurement sequences just by copying and pasting or clicking on icons.

Main software functions:



Common to all the Sigma and Delta control boxes

‘Standard’ version of the software

- recovery and display of tightening results
- treatment of results in accordance with ISO, NF, Q544000 and CNOMO standards
- memorising the results and export to databases (ASCII)
- complete recovery of the control box parameters
- multi-language

Specific to Delta control boxes

‘Advanced’ version of the software

- all the functions of the ‘Standard’ version +
- recovery and display of the tightening curves
 - management of the periodical control of fastening tools
 - programming control operations
 - programming control sequences



| DESCRIPTION | PART NUMBER | DESCRIPTION | PART NUMBER |
|------------------|---------------|------------------|---------------|
| Standard version | | Advanced version | |
| 1 installation | 615 927 529 0 | 1 installation | 615 927 520 0 |
| 5 installations | 615 927 530 0 | 5 installations | 615 927 532 0 |

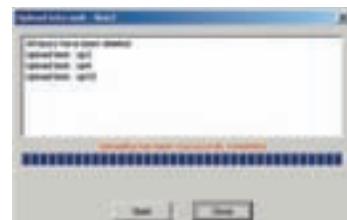
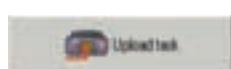
RS232 cable between control box and PC not supplied with the software – Part Number: 615 917 047 0

DOWNLOADING between controller and PC:

Controller => PC

With just one click, you can:

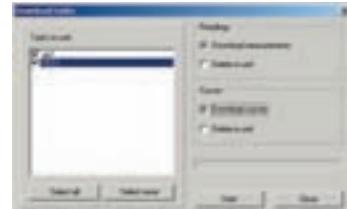
- select one or more operations
- recover the control operations from the control boxes
- recover the results and tightening curves



PC => Controller

You can download to the control boxes

- one or more operations
- a control flowchart



Functions

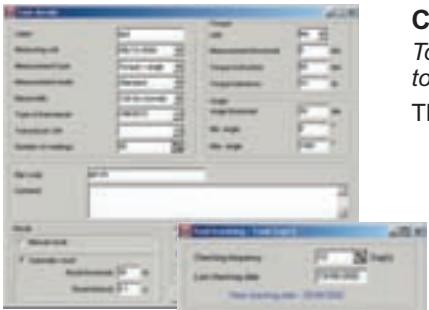


PROGRAMMING

'Torque' or 'torque and angle' transducers for analogue and digital signals

Select the better transducer for your control operation.

- by selecting a standard transducer in the range, you can display all its characteristics
 - you can associate the serial numbers of your transducers with the table of parameters
 - you can also define your own* 'specific' transducers with their own characteristics
- * provided that they are based on a strain gauge technology.



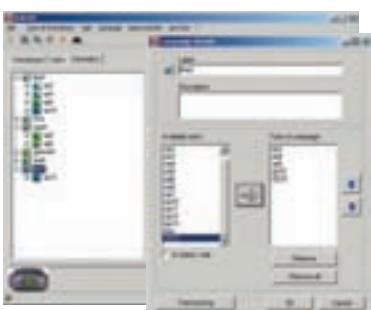
Control operation: 'A checking tool'

To ensure that the fastening tools on the assembly line continue to tighten to the right torque level.

The software makes it easy to programme all the parameters required for the control:

- the type of transducer
- the number of measurements to be made
- the settings and tolerances
- the triggering thresholds for acquisition of the tightening curves
- etc...

With just one click, the operation is downloaded to the control box.

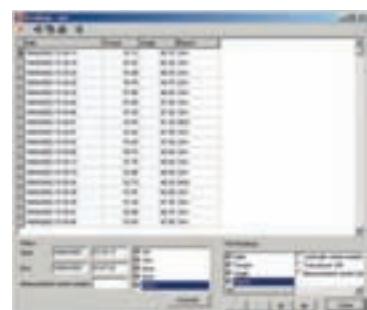


Campaign 'Designed to manage your monitoring operations'

A control campaign is made up of a range of monitoring operations on the assembly line.

With just a click in the list of operations, you can set up your own control campaign. The Delta control box then manages the sequence of operations.

With another click, the range is downloaded to the measurement control box.



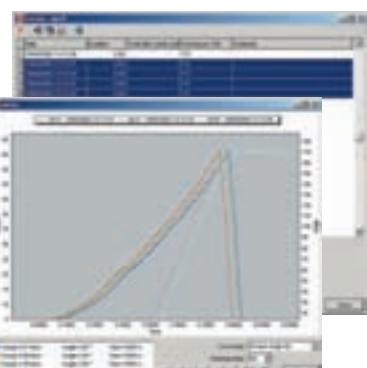
Presentation of RESULTS

Torque or torque and angle results

After each operation or campaign, the operator can transfer all the results.

He or she can display them and select the desired columns, sort them by type of report, and scroll them on the screen.

All the results can be exported to a database; the format is of ASCII type.



Tightening curves

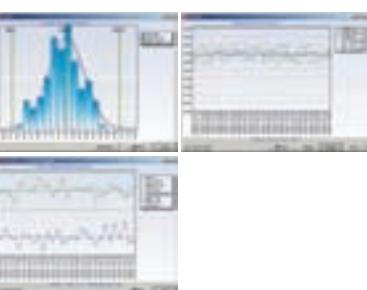
The software can display from ONE to FOUR tightening curves at the same time.

Type of curves:

- torque as a function of time $f(t)$
- torque and angle as a function of time $f(t)$
- torque as a function of angle $f(\text{angle})$

it is possible to:

- zoom in on all or part of one or more curves
- move the curves along the X axis
- calculate a running average for N points ($N=3, 5, 7$ or 9)
- archive them
- print them



Statistic

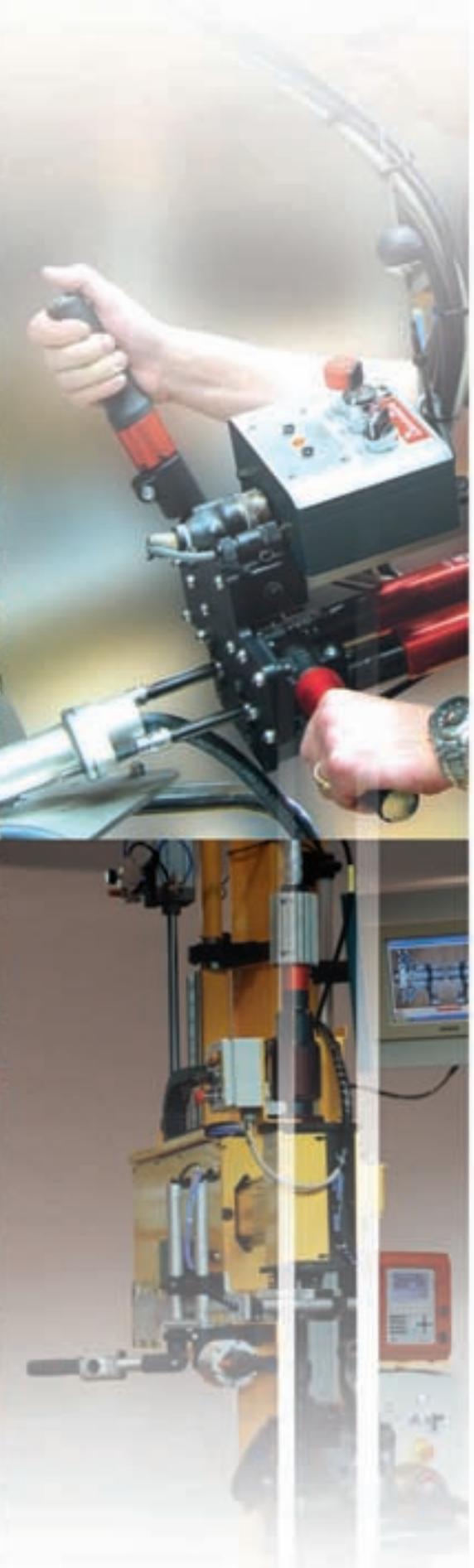
This software could calculate statistics for torque or angle results.

These calculations are carried out under the current standards (ISO, NF, Q544000 and CNOMO).

Results displayed:

- statistical report with CP, CPK, CAM, - ratio of change, average, range deviation...
- display of the scatter diagram
- histogram
- control charts

Printing of the full statistical report.



Screwfeeder Modular Assembly Concept

Our most demanding customers require tightening quality, but also full automated stations.

Our Screwfeeders range is characterised by a modular concept system, easy to integrate in your assembly line and with low maintenance requirement.

Combined with the quality benefits of our CVI and CVIC ranges, we are able to offer a high productivity package.

Ergonomic and handheld solution

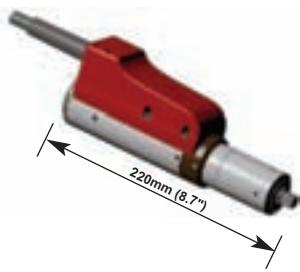


Advanced automated solution

Advanced bowl system



Fixtured electric spindles ERF-ECF



For your assembly applications, Desoutter offers a range of (very short) fixtured electric spindles, transducerized or current controlled and top or in-line cables.

CVI II Range

MODEL

ERF3L

ERF5L

ERF10L

ERF20L

ERF20S

ERF30S

CVIC Range

MODEL

ECF3L

ECF5L

ECF10L

ECF20L

ECF20S

ECF30S

For further information about the technical data see pages 22 and 41



Multiplus



- Standard build components
- Increased customer configuration
- Simplified maintenance
- Proven solutions
- Shorter lead time
- Improved ergonomics





New features

The EME has one integrated power and transducer cable from tool to controller, no longer separated transducer and motor cables.

The new improved connector allows for full flexibility in cable management with the 360° adjustments in two directions.



High torque arms - Basic system



Right program for the job



*180° turning
Flexible operation*



*Customized stroke and
length of arm*

Contact your Desoutter representative for assistance

Arm configuration - options

Tools

- Torque: Low, Medium, High
- Transducerized, Current controlled
- EME fixtured, ERDL, MC spindles

HMI Positioning - without PLC/PC

- CVI2 X-encoder
- CVI2 Y-encoder
- HMI Positionning display

Socket selectors

- Standard non guiding
- Standard guiding
- Custom heavy duty

Networking and process

- Fieldbus
- Ethernet
- Barcode scanner

Software and data collection

- CVIPC2000 (programming)
- CVINet (data collection)
- SFP and HMI SW for positioning

Arm layout

- Degree of rotation
- X-movement (arm stroke)
- Y-movement
- Pneumatic balancer up/down control for zero gravity

Or

- Spring balancer for torque below 300 Nm

High torque arms - Advanced system

Full arm system



Easy configurable HMI



Swiveling tool holder

*Ergonomic folding Arm
Spindles or handheld tools
Option: positioning control*





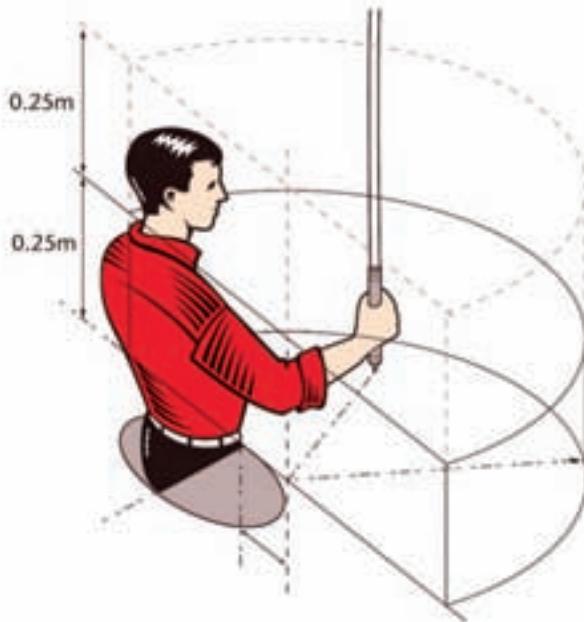
Desoutter



Ergonomic Accessories



Balancing Arms for increased performance ■



FEATURES

- Easy to position and handle
- Heavy duty
- Modular
- Ensures correct orientation of tool to workpiece

BENEFITS

- Relieves operator stress
- Long term operation and reliability
- Use in large variety of applications and tools
- Prevents damage to assembly and improves quality

The range of modular balancing arms provides a wide operating area with a minimal bench requirement.

The D57, D58 and D59 models complement the D53 range of bench stands by providing greater tool carrying capacity in terms of weight and torque reaction.

A range of tool holders allow the tool to be positioned vertically or at 45° of the work piece thereby avoiding damage and off centre assembly. Hole quality when drilling and tapping is also greatly improved. These balancing arms are designed for heavy-duty operation over a long period of time.

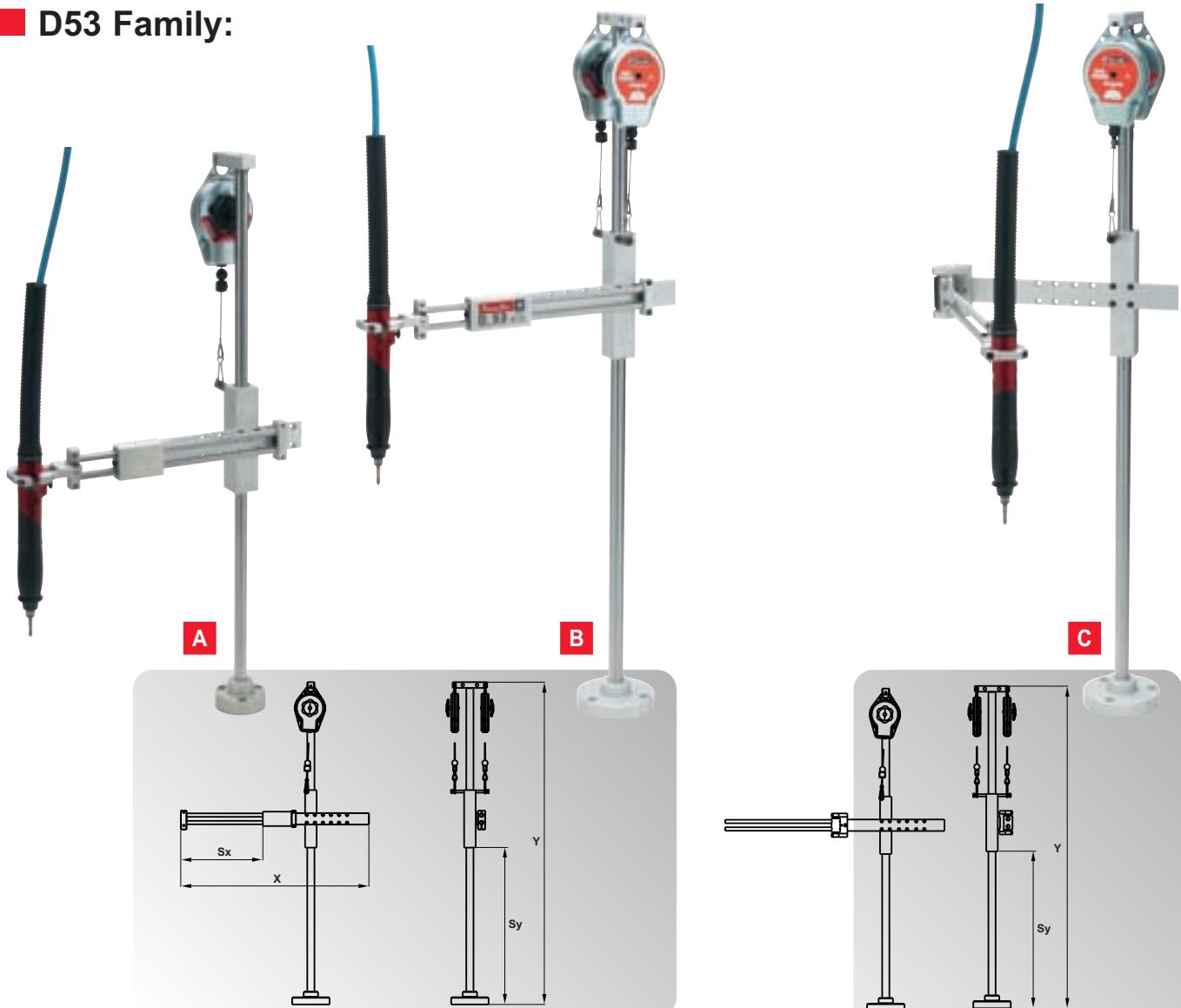
The range of the balancing arm provides assistance to an operator when using hand held tools such as screwdrivers, drills and nutrunners. The operator's arm, wrist and shoulder are relieved of stress from torque, vibration and weight of the tool which means that quality, productivity and operator comfort are greatly improved.





Linear and Swivel Arms

D53 Family:

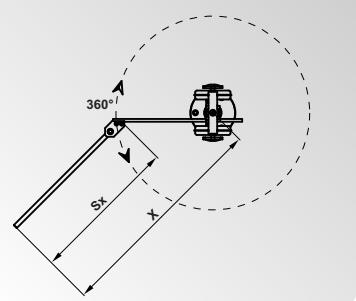


What To Order

- 1 - Basic Stand
- 2 - Tool Holder
- 3 - Clutch Case for Tool
(if required)

D53 Tool Holder Selection

- To select the tool holder:
- 1 - Find the tool type in the left column.
 - 2 - Select the required tool holder from the top row.
 - 3 - Check the comments column.



D53 LINEAR AND SWIVEL STANDS

| PIC REF. | MODEL | PART NO. | MAXIMUM TORQUE | | OVERALL HORIZONTAL (X) | | OVERALL VERTICAL (Y) | | STROKE HORIZONTAL (Sx) | | STROKE VERTICAL (Sy) | | TOOL WEIGHT CAPACITY | |
|----------|-------|----------|----------------|-------|------------------------|-----|----------------------|-----|------------------------|-----|----------------------|-----|----------------------|----|
| | | | N.m | ft.lb | mm | in. | mm | in. | mm | in. | mm | in. | kg | lb |

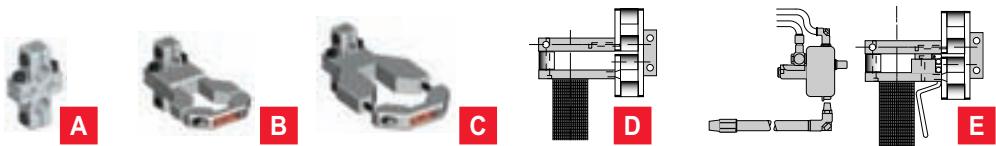
LINEAR STAND

| | | | | | | | | | | | | | | |
|---|--------------------------|--------------|----|-------|-----|------|------|-------|-----|------|-----|------|-----|------|
| A | D53-10 | 615 804 5710 | 10 | 7.37 | 540 | 21.2 | 855 | 33.66 | 260 | 10.2 | 370 | 14.6 | 1.0 | 2.20 |
| B | D53-20 | 388163 | 20 | 17.75 | 570 | 22.4 | 1120 | 44.00 | 285 | 11.2 | 600 | 23.6 | 2.5 | 5.50 |
| | D53-20X (extended reach) | 388173 | 20 | 14.75 | 650 | 25.6 | 1120 | 44.00 | 315 | 12.4 | 600 | 23.6 | 2.2 | 4.85 |

SWIVEL STAND

| | | | | | | | | | | | | | | |
|---|---------|--------------|----|-------|-----|------|------|-------|-----|------|-----|------|-----|------|
| C | D53-20S | 615 804 5720 | 20 | 14.75 | 630 | 24.8 | 1120 | 44.00 | 530 | 20.9 | 600 | 23.6 | 2.5 | 5.50 |
|---|---------|--------------|----|-------|-----|------|------|-------|-----|------|-----|------|-----|------|

Linear and Swivel Arms



OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|--------------|
| A Clamp Adaptor - Interface Adaptor D53 | 615 396 6150 |
| B Standard Tool clamp ø28.5-41mm (1.12-1.6") | 615 396 6160 |
| C Standard Tool clamp ø40-50mm (1.57-1.97") | 615 396 6280 |
| D E2 Comfort Grip for Push Start | 388193 |
| E EL Comfort Grip for Lever Start | 388203 |



D53 SPARES

| PIC REF. | MODEL | DESCRIPTION | PART NO. |
|----------|-------|-------------------------|--------------|
| F | SPARE | D53-20 HORIZONTAL SLIDE | 615 804 5690 |
| G | 5DU | BALANCER 1.4-2.4kg | 50542 |

D53 TOOL CLAMPS Ø28.5-41mm Ø40-50mm E2 Comfort Grip Push Start EL Comfort Grip Lever Start

| PART NO. | 615 396 6160 | 615 396 6280 | 388193 | 388203 | Comments |
|----------|--------------|--------------|--------|--------|----------|
|----------|--------------|--------------|--------|--------|----------|

| | | | | | |
|-------------------------------|---|---|---------------------------------|-----------------------------------|---|
| | | | | | |
| Pneumatic Screwdrivers | | | | | |
| SB | X | | | | |
| SC2 | X | | | | |
| SD | X | | SC2 push start SD push start | SC2 lever start SD lever start | For E2 fit clutch case part# 465463 for 320-1470 rpm For E2 fit clutch case part# 465443 for 2200-3500 rpm |
| Electric Screwdrivers | | | | | |
| SLK 003/007/010 | X | | | | SLK adaptor part# 615 225 0650 |
| SLK 011/015 | X | | | | SLK adaptor part# 615 225 0660 |
| SLK 022/031/047 | X | | | | SLK adaptor part# 438963 |
| SME | X | | | | SME adaptor part# 438963 |
| S4 | X | | | | |
| SLC (nose mount) | X | | | | |
| SLC (top mount) | | X | | | Nose mount only, fit clutch case part# 443843 |
| SLE (nose mount) | | X | | | |
| SLE (top mount) | | | X | | |
| ECS | X | | | | |
| ECD5 | X | | | | |
| ERD5 | X | | | | |
| Drills | | | | | |
| DR 300 | | | | | |
| D16S / 16L | X | X | | | |



Balancing Arms

D57, D58, D59



D57/D57X/D58

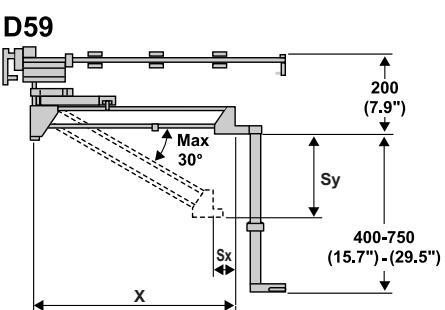
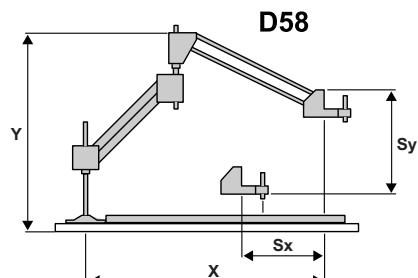
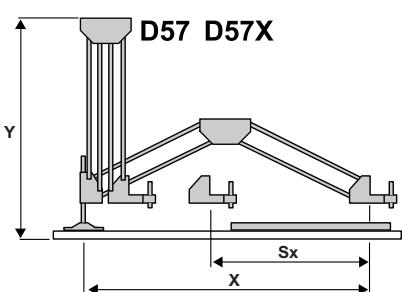
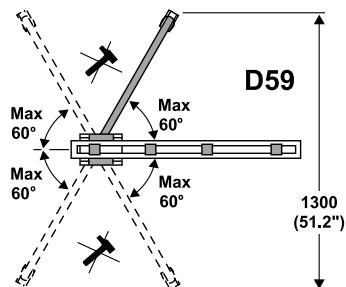
How To Order

1. Basic Stand
2. Tool Holder
3. Optional Accessories

D59

How To Order

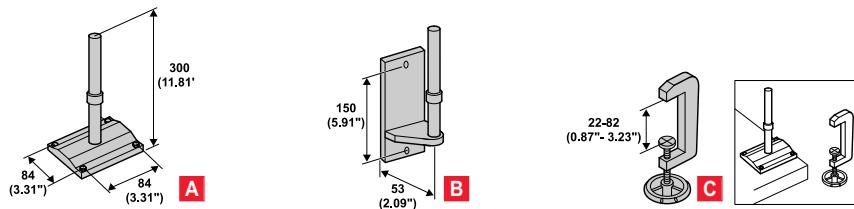
1. Basic Stand
2. Tool Holder
3. Rail (supplied per meter, e.g. for 3m order (3) of PN. 409213)
4. Rail End Stops (2 required per complete rail)
5. Optional Accessories



D57 / 58 / 59 BALANCING ARMS

| PIC REF. | MODEL | PART NO. | MAXIMUM TORQUE | | OVERALL HORIZONTAL (X) | | OVERALL VERTICAL (Y) | | STROKE HORIZONTAL (Sx) | | STROKE VERTICAL (Sy) | | TOOL WEIGHT CAPACITY | ACCESSORIES INCLUDED | |
|----------|-------|----------|----------------|-------|------------------------|-------|----------------------|------|------------------------|------|----------------------|------|----------------------|----------------------|---------------|
| | | | N.m | ft.lb | mm | in. | mm | in. | mm | in. | mm | in. | kg | lb | |
| A | D57 | 408903 | 20 | 14.75 | 700 | 25.55 | 550 | 21.6 | 510 | 20.7 | 95 | 3.74 | 2 | 4.4 | BENCH MOUNT |
| A | D57X | 408913 | 20 | 14.75 | 850 | 33.46 | 550 | 21.6 | 610 | 24.0 | 95 | 3.74 | 2 | 4.4 | BENCH MOUNT |
| B | D58 | 408923 | 20 | 14.75 | 710 | 27.95 | 600 | 23.6 | 600 | 23.6 | 180 | 7.08 | 2 | 4.4 | BENCH MOUNT |
| C | D59 | 408933 | 20 | 14.75 | 650 | 25.60 | 200 | 7.87 | 70 | 2.75 | 250 | 9.84 | 2 | 4.4 | RAIL CARRIAGE |

Balancing Arms

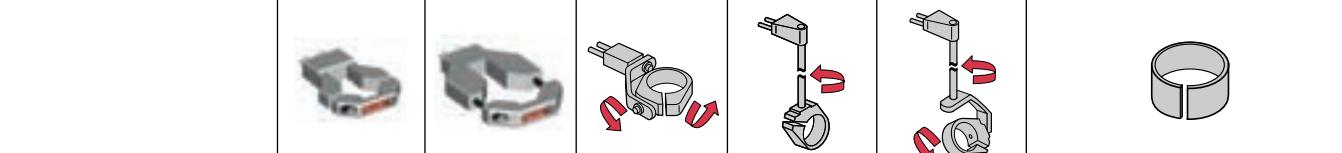


ACCESSORIES

| ITEM | PART NO. | DESCRIPTION | D57 / D57X | D58 | D59 |
|------|----------|---|------------|-----|-----|
| A | 408953 | Bench Mount (Included with the stand) | X | X | |
| B | 408963 | Wall Mount Bracket | X | X | |
| C | 408973 | Table Stand Clamp | X | X | |
| • | 408993 | Heavy Duty Spring 1 - 2,5 kg | X | | |
| D | 409253 | Rail Carriage (Included with the stand) | | | X |
| E | 409213 | Rail Per Meter | | | X |
| F | 409223 | Rail End Stops | | | X |
| G | 409203 | Telescopic Height Adjustments | | | X |
| H | 409233 | Top Arrester / Vertical Lock | | | X |
| H | 409243 | Side Arrester / Horizontal Lock | | | X |

must also order top arrester when using side arrester

| D57/58/59 TOOL CLAMPS | Ø28.5-41mm | Ø40-50mm | Vertical 2 Axis Rotation | Horizontal Single Axis Rotation | Horizontal 2 Axis Rotation | Adaptor Sleeve Blank (supplied as standard with tool holders) to be machined to suit the tool |
|--------------------------|--------------|--------------|--|--|--|--|
| PART NO. | 615 396 6140 | 615 396 6290 | 409083 Ø36mm (1.42") 409093 Ø46mm (1.8") 409103 Ø56mm (2.2") | 409113 Ø36mm (1.42") 409123 Ø46mm (1.8") 409133 Ø56mm (2.2") | 409173 Ø36mm (1.42") 409183 Ø46mm (1.8") 409193 Ø56mm (2.2") | 409273 Ø46mm (1.8") (outside) Ø30mm (1.18") (inside) 409023 Ø56mm (2.2") (outside) Ø40mm (1.57") (inside) |



Pneumatic Screwdrivers

| | | | | | | |
|-----|---|--|--------|--------|--------|---------------------------|
| | | | | | | |
| SB | X | | 409083 | 409113 | 409173 | |
| SC2 | X | | 409083 | 409113 | 409173 | |
| SD | X | | 409093 | 409123 | 409183 | Ring adaptor part# 409273 |

Electric Screwdrivers

| | | | | | | |
|------------------|---|---|--------|--------|--------|---|
| | X | | 409093 | 409123 | 409183 | SLK adaptor part# 615 225 0650 Ring adaptor part# 409273 |
| SLK 011/015 | X | | 409083 | 409113 | 409173 | SLK adaptor part# 615 225 0660 |
| SLK 022/031/047 | X | | 409083 | 409113 | 409173 | SLK adaptor part# 438963 |
| SME | X | | 409083 | 409113 | 409173 | SME adaptor part# 438963 |
| S4 | X | | 409083 | 409113 | 409173 | |
| SLC (nose mount) | X | X | 409083 | 409113 | 409173 | |
| SLC (top mount) | | | 409093 | 409123 | 409183 | |
| SLE | | X | 409093 | 409123 | 409183 | Ring adaptor part# 409273 |
| ECS | X | | 409083 | 409113 | 409173 | |
| ECD5 | X | | 409083 | 409113 | 409173 | |
| ERD5 | X | | 409083 | 409113 | 409173 | |

Drills

| | | | | | | |
|--------|---|--|--------|--------|--------|---------------------------|
| | X | | 409083 | 409113 | 409173 | |
| DR 350 | | | 409113 | 409173 | 409183 | |
| DR 750 | | | 409123 | 409183 | 409183 | Ring adaptor part# 409273 |



Telescopic Reaction Arms



Telescopic and extreme lightweight arm for a maximum flexibility of use

- With its aluminium bracket, the telescopic reaction arm can be fitted to all flat surfaces. For fixation on tubes, a circular adaptor is available on request.
- Fitted on a bench mounted swinging arm with a balancer, the telescopic reaction arm offers an innovative and efficient solution to minimise operator fatigue and improve productivity.



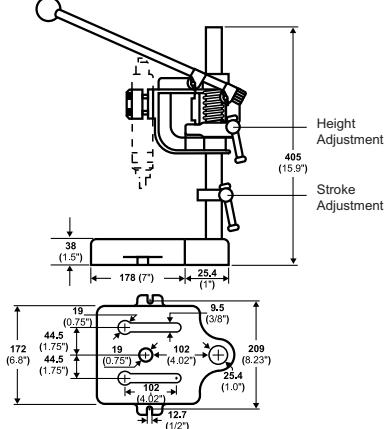
| MODEL | PART NO. | MAXIMUM TORQUE | | TOOL CLAMP Ø MIN - MAX | | WEIGHT | | STROKE MIN-MAX | |
|--------|--------------|----------------|-------|------------------------|-----------|--------|------|----------------|--------------|
| | | N.m | ft.lb | mm | in. | kg | lb. | mm. | in. |
| TRA 12 | 615 396 5320 | 12 | 8.8 | 25-42 | 0.98-1.65 | 0.57 | 1.25 | 550-1139 | 21.6 - 44.8 |
| TRA 25 | 615 396 5330 | 25 | 18.4 | 25-42 | 0.98-1.65 | 0.80 | 1.76 | 570-1165 | 22.4 - 45.9 |
| TRA 40 | 615 804 5700 | 40 | 29.5 | 30-50 | 1.19-1.96 | 0.95 | 2.08 | 661-1346 | 25.98 - 52.9 |

OPTIONAL ACCESSORIES

ITEM

PART NO.

| | | |
|---|--------------------------------|--------------|
| A | Adaptor for SLK003 / 007 / 010 | 615 225 0650 |
| A | Adaptor for SLK011 / 015 | 615 225 0660 |
| A | Adaptor for SLK022 / 031 / 047 | 438963 |
| B | Circular Adaptor for Stand | 615 595 3800 |
| C | Bench Mounted Swinging Arm | 66542 |



D54

Tool Types

SC-AB/AR Screwdrivers
SD-1AM Torque Motor
SD-2RM Torque Motor
DM Air Motors

R55S

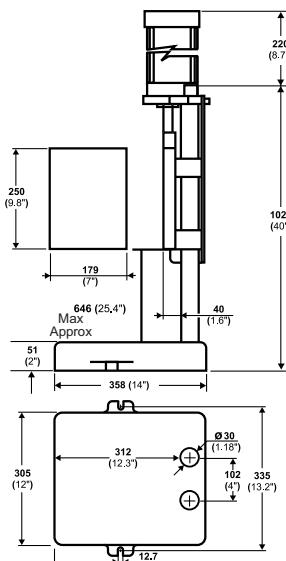
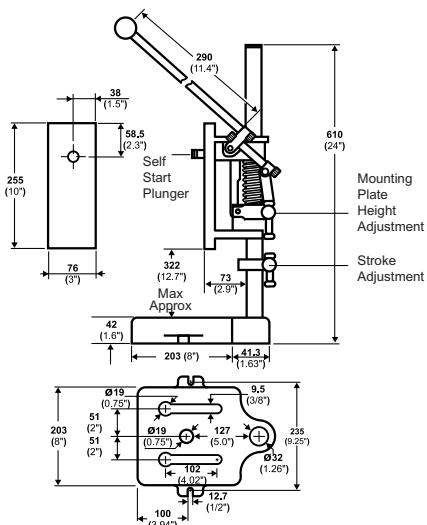
Tool Types

All types with maximum torque of 16Nm
Mounting bracket required

MC55

Tool Types

All types with maximum torque of 51Nm
Mounting bracket required
Pneumatic circuit required



STANDS - D54 / R55S / MC55

| MODEL | PART NO. | MAXIMUM TORQUE | | MAXIMUM STROKE | | MAXIMUM MOUNTED PLATE LOAD | | MAXIMUM WEIGHT | |
|-------|----------|----------------|-------|----------------|------|----------------------------|------|----------------|------|
| | | N.m | ft.lb | mm | in. | kg | lb | kg | lb |
| D54 | 901944 | 16 | 11.8 | 45 | 1.77 | | | 7 | 3.2 |
| R55S | 903644 | 16 | 11.8 | 57 | 2.24 | 6 | 2.7 | 11.3 | 5.1 |
| MC55 | 902914 | 51 | 37.6 | 100 | 3.93 | 68 | 30.4 | 32 | 14.5 |



Bench Tidy Kit

& Bench Mounted Swinging Arm

- Three complete Bench Tidy Kits to suit 1.5m, 2m and 2.5m bench widths with flexibility of mounting in height and spacing of upright supports.
- Everything included to set up a simple system within minutes, which can be enhanced with the accessories shown on the accessories page, adding to the versatility.
- Supplied in 2 packs, needing only 10/13/17mm A/F wrenches and standard screwdrivers to assemble.

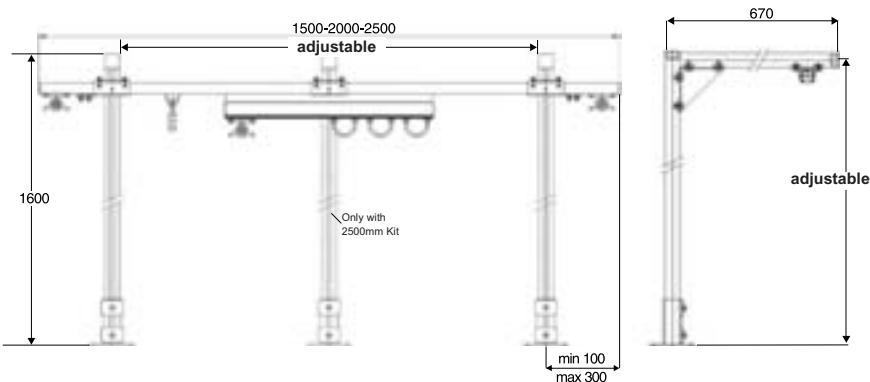


COMPLETE BENCH TIDY KIT - READY TO ASSEMBLE

Each kit consists of:

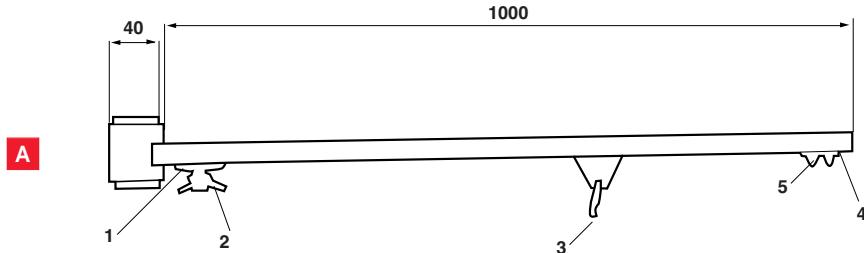
- Tool Suspension Track of specified length
- Hose trolley
- Horizontal outrigger arms
- Hose clamp
- Vertical C-rail uprights with base for benchtop mounting
(2 uprights with 1.5m and 2m kits,
3 with 2.5m kits)
- All necessary brackets, fittings and end stops/clamps
- Simple, step by step assembly instructions
- Tool Suspension trolley with 3 suspension rings and hoseclamp

EXAMPLE OF INSTALLATION



| PIC REF | PART NO. | LENGTH OF SUSPENSION TRACK | | HEIGHT | | HORIZONTAL STROKE | | WEIGHT LOAD | |
|-----------------------------------|----------|----------------------------|------|--------|-----|-------------------|------|-------------|------|
| | | mm | in. | mm | in. | mm | in. | kg | lb |
| BENCH TIDY | | | | | | | | | |
| A | 111672 | 1500 | 59.0 | 1600 | 63 | | | 22 | 48.5 |
| A | 111682 | 2000 | 78.7 | 1600 | 63 | | | 24 | 53.0 |
| A | 111692 | 2500 | 98.4 | 1600 | 63 | | | 26 | 57.0 |
| BENCH MOUNTED SWINGING ARM | | | | | | | | | |
| B | 66542 | | | 1600 | 63 | 630 | 24.8 | 10 | 22.0 |

Accessories



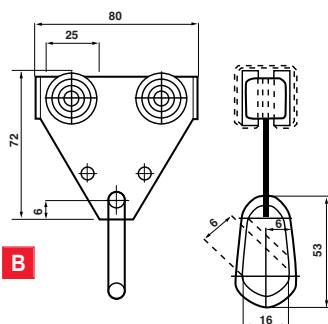
Bench Tidy Components

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|------|----------|
|------|----------|

Swivel Arm

| | |
|--|-------|
| A Suitable for suspending equipment Max. load at 1000mm = 16kg Weight: 3kg Supplied complete with: 1 End Clamp 2 Hose Clip 3 Suspension Trolley 4 End Cap 5 End Stop | 66462 |
|--|-------|



Suspension Trolley

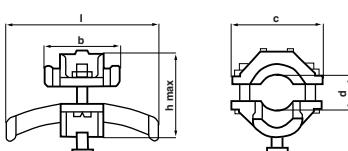
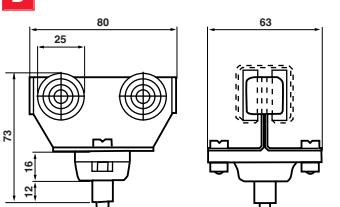
| | |
|---|-------|
| B Suspension trolley Use for suspending tool balancers, or coiled hoses To run in 32 x 30 'C' Rail Track Weight: 0.3kg Max. load: 20kg Materials: Chassis: Galvanised steel, plastic / Axles: Galvanised steel / Spring safety hook: Galvanised steel | 66352 |
|---|-------|

Hose Trolley

| | |
|--|-------|
| C Hose Trolley Used in conjunction with Hose Clip to run in 32 x 30 'C' Rail Track Weight: 0.26kg Max. load: 20kg Materials: Bearing part: Steel plate, plastic covered / Rollers (ball bearings): Galvanised steel Ball & Socket Joint: Nylon / Small parts: Galvanised steel | 66282 |
|--|-------|

Hose Clip

| | |
|--|--|
| D Hose Clip Used to support coils of air hose or electric cable | |
|--|--|

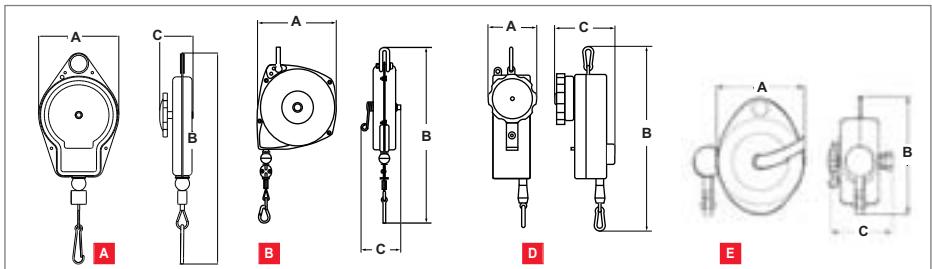


| d | r | l | h max | b | c | b | PART NO. | | | | | | | |
|-------|-----------|-----|-------|-----|------|----|----------|----|------|----|------|------|------|-------|
| mm | in. | mm | in. | mm | in. | mm | | | | | | | | |
| 10-16 | 0.39-0.63 | 80 | 3.15 | 70 | 2.75 | 38 | 1.50 | 35 | 1.38 | 42 | 1.65 | 0.04 | 0.09 | 66292 |
| 17-25 | 0.67-0.98 | 125 | 4.92 | 100 | 3.94 | 47 | 1.85 | 50 | 1.97 | 50 | 1.97 | 0.06 | 0.13 | 66302 |
| 26-36 | 1.02-1.42 | 180 | 7.08 | 140 | 5.51 | 58 | 2.58 | 70 | 2.75 | 64 | 2.52 | 0.12 | 0.30 | 66322 |



Balancers

Light & Medium



| PIC REF. | MODEL | PART NO. | MIN. CAPACITY | | MAX. CAPACITY | | CABLE TRAVEL | | WEIGHT | | DIMENSIONS | | |
|----------|-------|----------|---------------|----|---------------|----|--------------|----|--------|----|------------|------------|------------|
| | | | kg | lb | kg | lb | m | ft | kg | lb | A mm (in.) | B mm (in.) | C mm (in.) |

Balancers

| | | | | | | | | | | | | | |
|----------|------|-------|-----|------|-----|------|-----|-----|-----|-----|-----------|------------|----------|
| A | 1DU | 52542 | 0 | 0 | 0.5 | 1.1 | 1.5 | 4.9 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| | 2DU | 50522 | 0.5 | 1.1 | 1 | 2.2 | 1.5 | 4.9 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| B | 2DUS | 54532 | 0.5 | 1.1 | 1 | 2.2 | 3 | 9.8 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| | 3DU | 52862 | 1 | 2.2 | 1.5 | 3.1 | 1.5 | 4.9 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| B | 4DU | 50532 | 1 | 2.2 | 2 | 4.4 | 1.5 | 4.9 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| | 5DU | 50542 | 1.4 | 3.1 | 2.4 | 5.3 | 1.5 | 4.9 | 0.6 | 1.3 | 106 (4.2) | 230 (9.1) | 43 (1.7) |
| B | 10D | 50052 | 2 | 4.4 | 5 | 11 | 2.4 | 7.8 | 2.7 | 6 | 190 (7.5) | 369 (14.5) | 77 (3.0) |
| | 15D | 50062 | 5 | 11 | 7 | 15.4 | 2.4 | 7.8 | 3.2 | 7.1 | 190 (7.5) | 369 (14.5) | 77 (3.0) |
| | 22D | 50072 | 6 | 13.2 | 10 | 22 | 2.4 | 7.8 | 3.2 | 7.1 | 190 (7.5) | 369 (14.5) | 77 (3.0) |

Balancers with drum lock features

| | | | | | | | | | | | | | |
|----------|-----|-------|---|------|----|------|-----|-----|-----|-----|-----------|------------|----------|
| B | 10S | 50572 | 2 | 4.4 | 5 | 11 | 2.4 | 7.8 | 2.7 | 6 | 190 (7.5) | 370 (14.6) | 77 (3.0) |
| | 15S | 50582 | 5 | 11 | 7 | 15.4 | 2.4 | 7.8 | 3.2 | 7.1 | 190 (7.5) | 370 (14.6) | 77 (3.0) |
| | 22S | 50592 | 6 | 13.2 | 10 | 22 | 2.4 | 7.8 | 3.2 | 7.1 | 190 (7.5) | 370 (14.6) | 77 (3.0) |

Reaction Free Self-Lock Balancers

| | | | | | | | | | | | | | |
|----------|-----|-------|-----|-----|-----|------|-----|-----|-----|-----|-----------|------------|-----------|
| C | 2R | 54422 | 0.7 | 1.5 | 1.3 | 2.9 | 1.7 | 5.5 | 0.5 | 1.1 | 72 (2.8) | 245 (9.6) | 108 (4.3) |
| | 4R | 54432 | 1 | 2.2 | 2 | 4.4 | 1.7 | 5.5 | 0.5 | 1.1 | 72 (2.8) | 245 (9.6) | 108 (4.3) |
| D | 5R | 54442 | 1.7 | 3.7 | 3.5 | 7.7 | 2.4 | 7.8 | 2.3 | 5.1 | 116 (4.6) | 427 (16.8) | 155 (6.1) |
| | 10R | 54452 | 3 | 6.6 | 6 | 13.2 | 2.4 | 7.8 | 2.3 | 5.1 | 116 (4.6) | 427 (16.8) | 155 (6.1) |

| PIC REF. | MODEL | PART NO. | MIN. CAPACITY | | MAX. CAPACITY | | FLOW RATE | | HOSE TRAVEL | | WEIGHT | | DIMENSIONS | | | HOSE ID |
|----------|-------|----------|---------------|----|---------------|----|-----------|-----|-------------|----|--------|----|------------|------------|------------|---------|
| | | | kg | lb | kg | lb | l/s | cfm | m | ft | kg | lb | A mm (in.) | B mm (in.) | C mm (in.) | mm in. |

Hose Reel Balancers

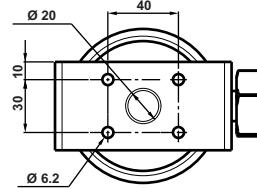
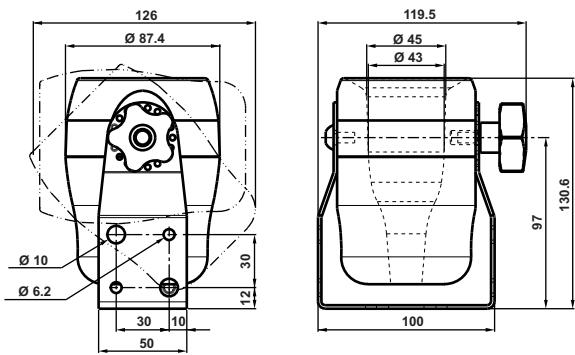
| | | | | | | | | | | | | | | | | |
|----------|-----|-------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----------|-----------|----------|---------|
| E | 1HU | 52552 | 0 | 0 | 0.5 | 1.1 | 7.1 | 15 | 1.5 | 4.9 | 1.2 | 2.6 | 132 (5.2) | 173 (6.8) | 92 (3.6) | 6.5 1/4 |
| | 3HU | 50552 | 0.5 | 1.1 | 1.4 | 3.1 | 7.1 | 15 | 1 | 3.3 | 1.2 | 2.6 | 132 (5.2) | 173 (6.8) | 92 (3.6) | 6.5 1/4 |
| | 4HU | 50562 | 0.7 | 1.5 | 2 | 4.4 | 7.1 | 15 | 1 | 3.3 | 1.4 | 3.1 | 132 (5.2) | 173 (6.8) | 92 (3.6) | 6.5 1/4 |

Tool Holster

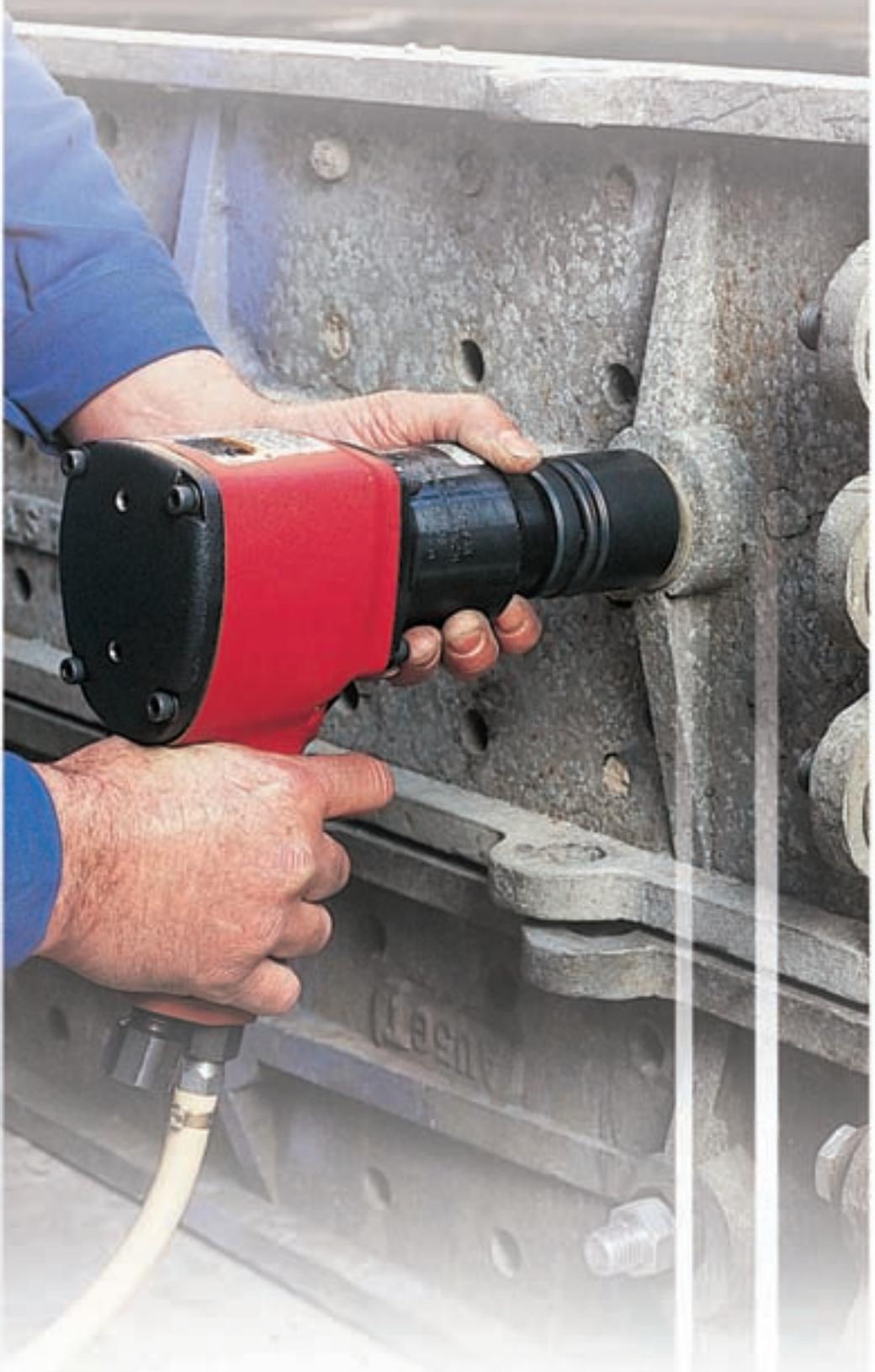


■ Adapted for all straight or pistol grip tools with an outside diameter of maximum 42mm.

The mounting plate can be fastened in several positions and the plastic ring angle can be set at different angles.



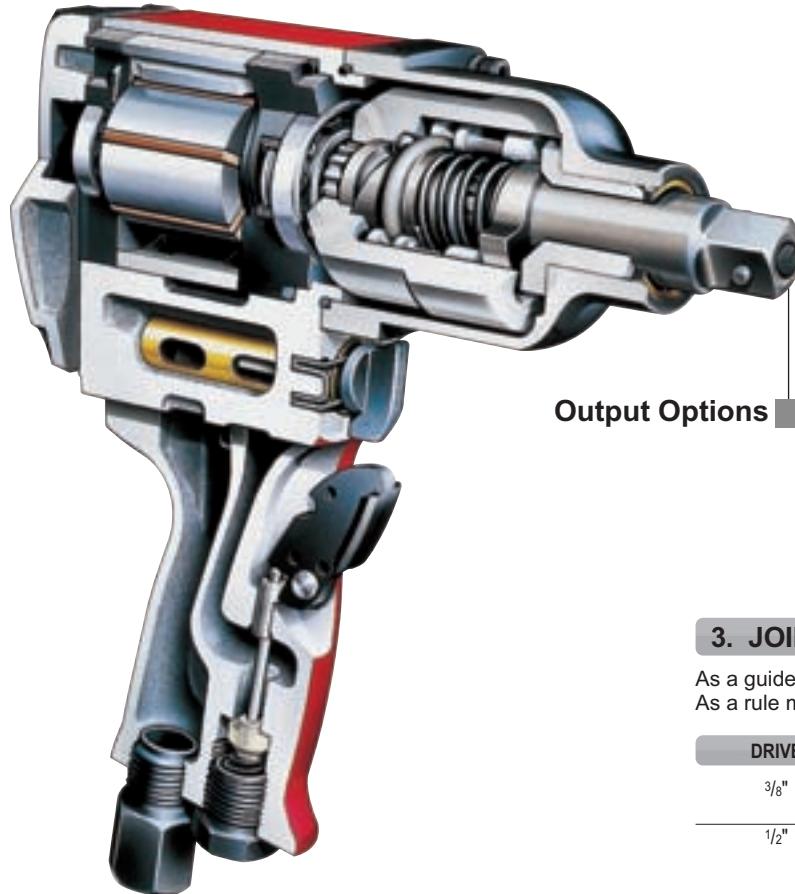
| PART NO. | DESCRIPTION | MAX. DIAMETER |
|----------|-------------|---------------|
| | | mm in. |
| 107.892 | DTH-42 | 42 1.65 |



Desoutter



Impact Wrench Features



Output Options

Ease of service

Simple 3 piece construction for ease and speed of servicing.

Durable steel clutch housings (zinc option on some models).

Clutch Options

Desoutter have developed a range of 7 clutch types to meet the differing demands of our customers applications. No single clutch is perfect for every type of joint.

2 or 3-Jaw - Good on soft or hard joints with high ultimate torques.

Rocking Dog - Good on very soft joints providing high speed rundown.

Single or Double Dog - For soft and hard joints. High power/weight ratio.

Twin Lobe - All round clutch with a high ultimate torque and high power to weight ratio.

3. JOINT TYPE

As a guide use the table to specify a tool for a certain joint. As a rule most joints are 'soft'.

| DRIVE | VERY SOFT | SOFT | HARD |
|--------|-----------|--------|--------|
| 3/8" | CP6300 | CP6031 | CP6031 |
| | | CP6300 | CP6300 |
| 1/2" | CP6540 | CP6041 | CP6041 |
| | | CP6500 | CP6500 |
| 3/4" | CP6540 | CP6540 | CP6540 |
| | | CP6060 | CP6060 |
| 1" | CP0610 | CP6110 | CP6110 |
| | | CP0610 | CP0610 |
| 1 1/2" | CP0614 | CP0611 | CP0611 |
| | | CP0614 | CP0614 |
| | | CP6120 | CP6120 |

Tool Selection

1. APPLICATION TYPE

These tools are Heavy Duty and suitable for high production rates such as those on production/assembly lines, where high durability is used and the tools are used frequently.

2. BOLT SIZE/TORQUE

The table below lists the maximum torques for bolt sizes and different grade fasteners. These torque figures are for guidance only. Always confirm values with the bolt supplier/manufacturer.

| BOLT SIZE | METRIC ISO 8.8 | METRIC ISO 10.9 | METRIC ISO 12.9 | BOLT SIZE | SAE GRADE 1 & GRADE 2 | SAE GRADE 5 | ASTM-UNC GRADE 8/A490 |
|-----------|----------------|-----------------|-----------------|-----------|-----------------------|-------------|-----------------------|
| mm | N.m | N.m | N.m | in. | ft lb | ft lb | ft lb |
| 6 | 10.5 | 15 | 17 | 1/4 | 3 | 8 | 11 |
| 8 | 25 | 36 | 43 | 5/16 | 6 | 16 | 22 |
| 10 | 51 | 71 | 86 | 3/8 | 11 | 28 | 38 |
| 12 | 87 | 122 | 146 | 7/16 | 18 | 46 | 61 |
| 14 | 138 | 195 | 234 | 1/2 | 28 | 70 | 94 |
| 16 | 213 | 299 | 359 | 9/16 | 43 | 110 | 135 |
| 18 | 293 | 413 | 495 | 5/8 | 55 | 140 | 188 |
| 20 | 416 | 585 | 702 | 3/4 | 97 | 250 | 336 |
| 22 | 563 | 792 | 950 | 7/8 | 155 | 405 | 541 |
| 24 | 718 | 1011 | 1213 | 1 | 230 | 600 | 812 |
| 27 | 1060 | 1491 | 1789 | 1 1/8 | 340 | 770 | 1151 |
| 30 | 1440 | 2025 | 2430 | 1 1/4 | 480 | 1080 | 1626 |
| 33 | 1956 | 2751 | 3301 | 1 3/8 | 660 | 1470 | 2130 |
| 36 | 2517 | 3540 | 4248 | 1 1/2 | 860 | 1950 | 2830 |

4. HANDLE TYPE



Pistol

D Handle Outside Trigger



D Handle Inside Trigger

5. SOCKET RETENTION



Pin Retainer
for infrequent socket change



Integral Spline
with integral push button retainer



Friction Ring
for rapid socket change

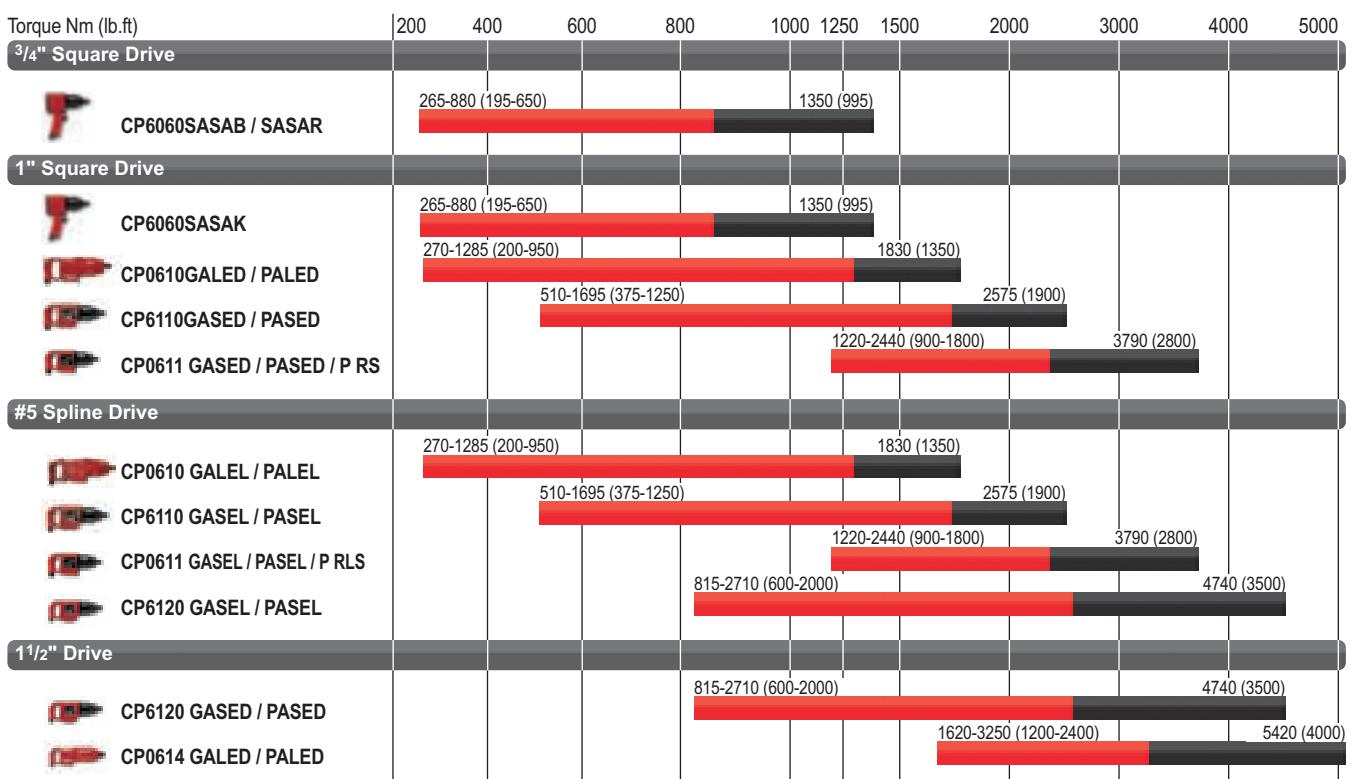
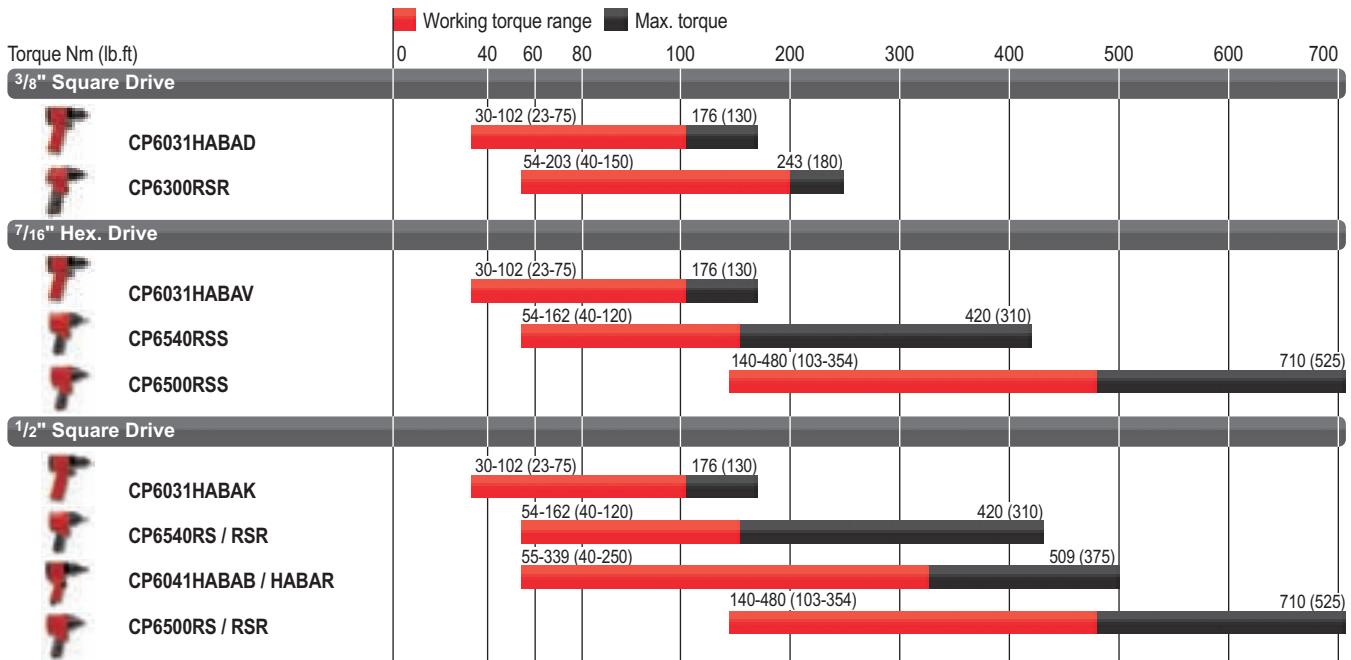


Quick Change
for screwdriver bits or torsion bars



Hole
for pin o-ring type retention

Impact Wrench Torque Ranges

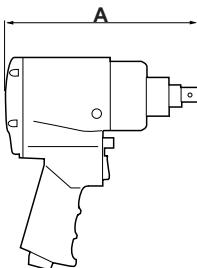


Impact Wrench

30 to 480 Nm (23 to 354 ft.lb)



| Model | A | | Side to centre | |
|---------------|-----|-----|-------------------|------|
| | mm | in. | mm | in. |
| CP6031 HABAD | 143 | 5.6 | 25.4 | 1 |
| CP6031 HABA K | 143 | 5.6 | 25.4 | 1 |
| CP6031 HABA V | 146 | 5.7 | 25.4 | 1 |
| CP6300 RSR | 152 | 6.0 | 31.8 | 1.25 |
| CP6041 HABA B | 173 | 6.8 | 31.8 | 1.25 |
| CP6041 HABA R | 173 | 6.8 | 31.8 | 1.25 |
| CP6500 RS | 178 | 7.0 | 35.8 | 1.41 |
| CP6500 RSR | 178 | 7.0 | 35.8 | 1.41 |
| CP6500 RSS | 178 | 7.0 | 35.8 | 1.41 |
| CP6540 RS | 188 | 7.4 | 35.1 | 1.38 |
| CP6540 RSR | 188 | 7.4 | 35.1 | 1.38 |
| CP6540 RSS | 188 | 7.4 | 35.1 | 1.38 |



OPTIONAL ACCESSORIES

CP6500

1/2" square drive with 50mm (2") extension, friction ring retainer

CA148629

Air inlet: 1/4" NPT

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

| PIC REF | MODEL | PART NUMBER | DRIVE | CLUTCH TYPE | HANDLE STYLE | BLOWS PER MINUTE | TORQUE WORKING | | TORQUE MAX. | | WEIGHT | | AIR CONSUMPTION | |
|------------|------------------|----------------|-----------|----------------|-----------------|------------------------|-------------------|---------|----------------|-------|--------|-----|--------------------|-----|
| | | | | | | | N.m | ft lb | N.m | ft lb | kg | lb | l/s | cfm |
| A | CP6031 HABAD* | T021887 | 3/8" | 2-Jaw | Pistol | 2200 | 30-102 | 23-75 | 176 | 130 | 1.5 | 3.3 | 12.0 | 25 |
| A | CP6031 HABA K* | T021884 | 1/2" | 2-Jaw | Pistol | 2200 | 30-102 | 23-75 | 176 | 130 | 1.5 | 3.3 | 12.0 | 25 |
| A | CP6031 HABA V** | T021885 | 7/16" hex | 2-Jaw | Pistol | 2200 | 30-102 | 23-75 | 176 | 130 | 1.5 | 3.3 | 12.0 | 25 |
| B | CP6300 RSR*** | T025285 | 3/8" | Single-Dog | Pistol | 1800 | 54-203 | 40-150 | 243 | 180 | 1.6 | 3.5 | 6.6 | 14 |
| C | CP6041 HABA B** | T021888 | 1/2" | 2-Jaw | Pistol | 1700 | 55-339 | 40-250 | 509 | 375 | 2.80 | 6.2 | 18.9 | 40 |
| C | CP6041 HABA R*** | T022331 | 1/2" | 2-Jaw | Pistol | 1700 | 55-339 | 40-250 | 509 | 375 | 2.80 | 6.2 | 18.9 | 40 |
| D | CP6500 RS* | T025214 | 1/2" | Double-Dog | Pistol | 1320 | 140-480 | 103-354 | 710 | 525 | 2.65 | 5.8 | 11.8 | 25 |
| D | CP6500 RSR*** | T025216 | 1/2" | Double-Dog | Pistol | 1320 | 140-480 | 103-354 | 710 | 525 | 2.65 | 5.8 | 11.8 | 25 |
| D | CP6500 RSS** | T025215 | 7/16" hex | Double-Dog | Pistol | 1320 | 140-480 | 103-354 | 710 | 525 | 2.65 | 5.8 | 11.8 | 25 |
| E | CP6540 RS* | T025312 | 1/2" | Rocking-Dog | Pistol | 1320 | 54-162 | 40-120 | 420 | 310 | 2.80 | 6.2 | 10.4 | 22 |
| E | CP6540 RSR*** | T025313 | 1/2" | Rocking-Dog | Pistol | 1320 | 54-162 | 40-120 | 420 | 310 | 2.80 | 6.2 | 10.4 | 22 |
| E | CP6540 RSS** | T025314 | 7/16" hex | Rocking-Dog | Pistol | 1320 | 54-162 | 40-120 | 420 | 310 | 2.80 | 6.2 | 10.4 | 22 |

Socket Retainer: * Pin - ** Quick Change - *** Friction Ring

CP6500 - reverse torque 845Nm (625ft.lb)

Impact Wrench

265 to 1695 Nm (195 to 1250 ft.lb)



A

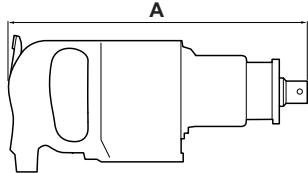
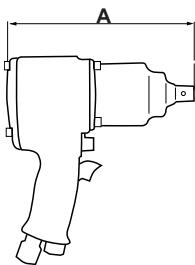


B



C

| Model | A | | Side to centre | |
|--------------|-----|------|----------------|------|
| | mm | in. | mm | in. |
| CP6060 SASAB | 194 | 7.6 | 45.2 | 1.78 |
| CP6060 SASAK | 194 | 7.6 | 45.2 | 1.78 |
| CP6060 SASAR | 194 | 7.6 | 45.2 | 1.78 |
| CP6110 GASED | 330 | 13.0 | 44.5 | 1.75 |
| CP6110 GASEL | 330 | 13.0 | 44.5 | 1.75 |
| CP6110 PASED | 330 | 13.0 | 44.5 | 1.75 |
| CP6110 GALED | 343 | 13.5 | 54.1 | 2.13 |



ACCESSORIES INCLUDED

CP0610 CP6110

- Support handle C039423 C145892
- Support handle mount C116388
- Support handle screws (4 off) C127944
- Retainer ring (see page 142)

Air Inlet: 3/8" NPT for A & B - 1/2" NPT for C & D

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

| PIC REF | MODEL | PART NUMBER | DRIVE | CLUTCH TYPE | HANDLE STYLE | BLOWS PER MINUTE | TORQUE WORKING | | TORQUE MAX. | | WEIGHT | | AIR CONSUMPTION | |
|---------|-----------------|-------------|-----------|-------------|-------------------|------------------|----------------|----------|-------------|-------|--------|------|-----------------|-----|
| | | | | | | | N.m | ft lb | N.m | ft lb | kg | lb | l/s | cfm |
| A | CP6060 SASAB* | T024059 | 3/4" | 2-Jaw | Pistol | 1000 | 265-880 | 195-650 | 1350 | 995 | 5.3 | 11.7 | 19.8 | 42 |
| A | CP6060 SASAK* | T024060 | 3/4" | 2-Jaw | Pistol | 1000 | 265-880 | 195-650 | 1350 | 995 | 5.4 | 11.9 | 19.8 | 42 |
| A | CP6060 SASAR** | T024058 | 3/4" | 2-Jaw | Pistol | 1000 | 265-880 | 195-650 | 1350 | 995 | 5.4 | 11.9 | 19.8 | 42 |
| B | CP6110 GASED* | T024425 | 1" | Twin Lobe | D Outside Trigger | 960 | 510-1695 | 375-1250 | 2575 | 1900 | 9.75 | 21.5 | 25.0 | 53 |
| B | CP6110 GASEL*** | T024426 | #5 Spline | Twin Lobe | D Outside Trigger | 960 | 510-1695 | 375-1250 | 2575 | 1900 | 9.75 | 21.5 | 25.0 | 53 |
| B | CP6110 PASED* | T025100 | 1" | Twin Lobe | D Inside Trigger | 960 | 510-1695 | 375-1250 | 2575 | 1900 | 9.75 | 21.5 | 25.0 | 53 |
| B | CP6110 PASEL*** | T025101 | #5 Spline | Twin Lobe | D Inside Trigger | 960 | 510-1695 | 375-1250 | 2575 | 1900 | 9.75 | 21.5 | 25.0 | 53 |
| C | CP0610 GALED* | T018046 | 1" | 3-Jaw | D Outside Trigger | 825 | 270-1285 | 200-950 | 1830 | 1350 | 9.30 | 20.5 | 22.6 | 48 |
| C | CP0610 GALEL*** | T018041 | #5 Spline | 3-Jaw | D Outside Trigger | 825 | 270-1285 | 200-950 | 1830 | 1350 | 9.30 | 20.5 | 22.6 | 48 |
| C | CP0610 PALED* | T018253 | 1" | 3-Jaw | D Inside Trigger | 825 | 270-1285 | 200-950 | 1830 | 1350 | 9.30 | 20.5 | 22.6 | 48 |
| C | CP0610 PALEL*** | T018042 | #5 Spline | 3-Jaw | D Inside Trigger | 825 | 270-1285 | 200-950 | 1830 | 1350 | 9.30 | 20.5 | 22.6 | 48 |

Socket Retainer: * Hole - ** Friction Ring - *** Integral

Impact Wrench

815 to 3250 (600 to 2400 ft.lb)



A



B

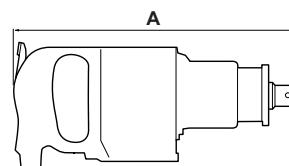
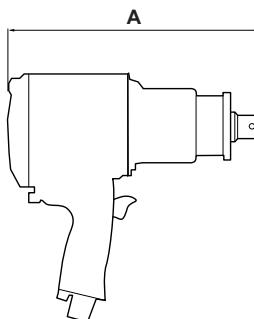


C



D

| Model | A | | Side to centre | |
|--------------|-----|------|----------------|------|
| | mm | in. | mm | in. |
| CP0611 GASED | 318 | 12.5 | 57.2 | 2.25 |
| CP0611 GASEL | 318 | 12.5 | 57.2 | 2.25 |
| CP0611 PASED | 318 | 12.5 | 57.2 | 2.25 |
| CP0611 PASEL | 318 | 12.5 | 57.2 | 2.25 |
| CP6120 GASED | 375 | 14.8 | 58.7 | 2.31 |
| CP6120 GASEL | 375 | 14.8 | 58.7 | 2.31 |
| CP6120 PASED | 375 | 14.8 | 58.7 | 2.31 |
| CP6120 PASEL | 375 | 14.8 | 58.7 | 2.31 |
| CP0614 GALED | 417 | 16.4 | 61.0 | 2.4 |
| CP0614 PALED | 417 | 16.4 | 61.0 | 2.4 |
| CP0611P RS | 272 | 10.7 | 55.0 | 2.13 |
| CP0611P RLS | 272 | 10.7 | 55.0 | 2.13 |



ACCESSORIES INCLUDED

| CP0611 | CP0614 | CP6120 |
|---------------------------------|----------|---------|
| • Support handle | CA048548 | |
| • Support handle mount | C116388 | C119061 |
| • Support handle screws (4 off) | C064806 | P073025 |
| • Retainer ring (see page 142) | | |

Air inlet: 1/2" NPT

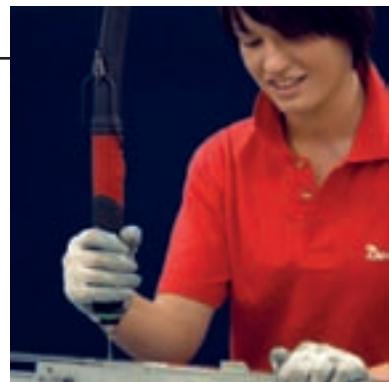
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

| PIC REF | MODEL | PART NUMBER | DRIVE | CLUTCH TYPE | HANDLE STYLE | BLOWS PER MINUTE | TORQUE WORKING | | TORQUE MAX. | | WEIGHT | | AIR CONSUMPTION | |
|---------|----------------|-------------|-----------|-------------|-------------------|------------------|----------------|-----------|-------------|-------|--------|------|-----------------|-----|
| | | | | | | | N.m | ft lb | N.m | ft lb | kg | lb | l/s | cfm |
| A | CP0611 GASED* | T022580 | 1" | 2-Jaw | D OutsideTrigger | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.2 | 22.5 | 22.6 | 48 |
| A | CP0611 GASEL** | T022581 | #5 Spline | 2-Jaw | D OutsideTrigger | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.2 | 22.5 | 22.6 | 48 |
| A | CP0611 PASED* | T022578 | 1" | 2-Jaw | D Inside Trigger | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.2 | 22.5 | 22.6 | 48 |
| A | CP0611 PASEL** | T022579 | #5 Spline | 2-Jaw | D Inside Trigger | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.2 | 22.5 | 22.6 | 48 |
| B | CP6120 GASED* | T018237 | 1 1/2" | 2-Jaw | D Outside Trigger | 960 | 815-2710 | 600-2000 | 4740 | 3500 | 15.4 | 33.9 | 28.3 | 60 |
| B | CP6120 GASEL** | T017755 | #5 Spline | 2-Jaw | D Outside Trigger | 960 | 815-2710 | 600-2000 | 4740 | 3500 | 15.4 | 33.9 | 28.3 | 60 |
| B | CP6120 PASED* | T018841 | 1 1/2" | 2-Jaw | D Inside Trigger | 960 | 815-2710 | 600-2000 | 4740 | 3500 | 15.4 | 33.9 | 28.3 | 60 |
| B | CP6120 PASEL** | T018235 | #5 Spline | 2-Jaw | D Inside Trigger | 960 | 815-2710 | 600-2000 | 4740 | 3500 | 15.4 | 33.9 | 28.3 | 60 |
| C | CP0614 GALED* | T020021 | 1 1/2" | 2-Jaw | D Outside Trigger | 500 | 1620-3250 | 1200-2400 | 5420 | 4000 | 14.3 | 31.5 | 27.4 | 58 |
| C | CP0614 PALED* | T020022 | 1 1/2" | 2-Jaw | D Inside Trigger | 500 | 1620-3250 | 1200-2400 | 5420 | 4000 | 14.3 | 31.5 | 27.4 | 58 |
| D | CP0611P RS* | T025413 | 1" | 2-Jaw | Pistol | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.5 | 23.1 | 22.6 | 48 |
| D | CP0611P RLS** | T025414 | #5 Spline | 2-Jaw | Pistol | 1020 | 1220-2440 | 900-1800 | 3790 | 2800 | 10.5 | 23.1 | 22.6 | 48 |

Socket Retainer: * Hole - ** Integral



Fastening accessories



Symbols

The following symbols are used in this catalogue:

- Hexagon Across Flat Size
- ID Internal Diameter
- Ø Diameter
- H Hard
- XH Extra Hard
- Ⓜ Magnetic
- Male Square Drive Size
- Female Square Drive Size
- L Length
- Q/R Quick Release
- Thread Size

Fastener Head Type

- Pozidriv/Supadriv
- Phillips
- Torx
- Torx Tamper Proof
- Torx Plus
- Internal Hex
- External Hex
- Slot

Drives

- 1/4" Hex* Insert (C6.3)
(ISO1173/
DIN3126)
- 1/4" Hex Power Drive (E6.3)
(ISO1173/
DIN3126)
- 5/16" Hex Power Drive
- 3mm Hex Power Drive (A3)
(ISO1173)
- Thread Drive
- Square Drive

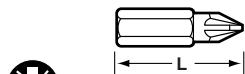


* Note: to be used with a bit holder

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ACR®, Pozidriv®, Torq-Set®, Tri-Wing® are registered trademarks of Phillips Screw Co.

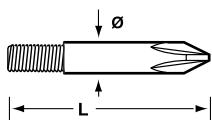


Screwdriver Bits



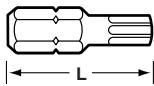
1/4" HEX INSERT (C6.3)

| POINT SIZE | L | PART NO. H | PART NO. XH |
|------------|-----------------------------------|------------|-------------|
| | mm in. | | |
| 0 | 25 1 | 108082 | |
| 1 | 25 1 | 6158046790 | 110752 |
| 2 | 25 1 | 6158046800 | 110762 |
| 3 | 25 1 | 6158046810 | 110772 |
| 1 | 50 2 | 6158046820 | |
| 2 | 50 2 | 6158046830 | |
| 4 | 30 1 ³ / ₁₆ | | 110182 |



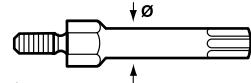
THREAD DRIVE

| POINT SIZE | L | Ø | THREAD | PART NO. XH |
|------------|----|-------|--------|-------------|
| | mm | in. | mm | |
| 1 | 33 | 15/16 | 6 | M4 |
| 2 | 33 | 15/16 | 6 | M4 |
| 2 | 33 | 15/16 | 7 | M5 |
| 2 | 33 | 15/16 | 8 | M6 |
| 3 | 33 | 15/16 | 8 | M6 |



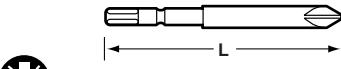
1/4" HEX INSERT (C6.3)

| POINT SIZE | L | PART NO. H |
|------------|----|------------|
| | mm | in. |
| T6 | 25 | 1 |
| T7 | 25 | 1 |
| T8 | 25 | 1 |
| T9 | 25 | 1 |
| T10 | 25 | 1 |
| T15 | 25 | 1 |
| T20 | 25 | 1 |
| T25 | 25 | 1 |
| T27 | 25 | 1 |
| T30 | 25 | 1 |
| T40 | 25 | 1 |



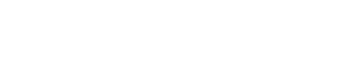
THREAD DRIVE

| POINT SIZE | L | Ø | THREAD | PART NO. XH |
|------------|----|-------|--------|-------------|
| | mm | in. | mm | |
| T8 | 33 | 15/16 | 6 | M4 |
| T10 | 33 | 15/16 | 6 | M4 |
| T20 | 33 | 15/16 | 6 | M4 |
| T10 | 33 | 15/16 | 7 | M5 |
| T15 | 33 | 15/16 | 7 | M5 |
| T20 | 33 | 15/16 | 7 | M5 |
| T25 | 33 | 15/16 | 7 | M5 |
| T30 | 33 | 15/16 | 7 | M5 |



3mm HEX POWER (A3)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| 0 | 50 | 2 |
| 1 | 50 | 2 |



4mm HEX INSERT (C4)

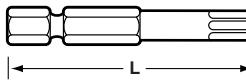
| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| 0 | 28 | 1 1/8 |
| 1 | 28 | 1 1/8 |



1/4" HEX POWER (E6.3)

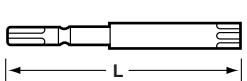
| POINT SIZE | L | PART NO. H | PART NO. XH |
|------------|-----|------------|-------------|
| | mm | in. | |
| 1 | 50 | 2 | 6158046840 |
| 2 | 50 | 2 | 6158046850 |
| 3 | 50 | 2 | 6158046860 |
| 1 | 70 | 2 3/4 | 6158046870 |
| 2 | 70 | 2 3/4 | 6158046880 |
| 3 | 70 | 2 3/4 | 6158046890 |
| 1 | 89 | 3 1/2 | 6158046900 |
| 2 | 89 | 3 1/2 | 6158046910 |
| 3 | 89 | 3 1/2 | 6158046920 |
| 1 | 150 | 6 | 110292 |
| 2 | 150 | 6 | 110302 |

Torx



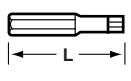
1/4" HEX POWER (E6.3)

| POINT SIZE | L | PART NO. H |
|------------|----|------------|
| | mm | in. |
| T8 | 50 | 2 |
| T9 | 50 | 2 |
| T10 | 50 | 2 |
| T15 | 50 | 2 |
| T20 | 50 | 2 |
| T25 | 50 | 2 |
| T27 | 50 | 2 |
| T30 | 50 | 2 |
| T40 | 50 | 2 |
| T40 | 70 | 2 3/4 |
| T20 | 89 | 3 1/2 |



3mm HEX POWER (A3)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| T6 | 50 | 2 |
| T8 | 50 | 2 |
| T10 | 50 | 2 |



4mm HEX INSERT (C4)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| T6 | 28 | 1 1/8 |

Torx Plus



1/4" HEX POWER (E6.3)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| IP10 | 89 | 3 1/2 |
| IP15 | 89 | 3 1/2 |



1/4" HEX INSERT (C6.3)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| TP10 | 25 | 1 |
| TP20 | 25 | 1 |
| TP30 | 25 | 1 |



Screwdriver Bits



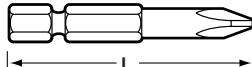
■ Phillips



1/4" HEX POWER (E6.3)

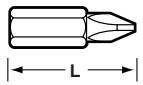
| POINT SIZE | L | PART NO. H | PART NO. XH | PART NO. ACR |
|------------|-----|------------|-------------|--------------|
| | mm | in. | | |
| 0 | 50 | 2 | 110232 | |
| 1 | 50 | 2 | 6158047120 | 111082 |
| 2 | 50 | 2 | 6158047130 | 111092 |
| 3 | 50 | 2 | 6158047140 | 111102 |
| 1 | 70 | 2 3/4 | 110242 | |
| 2 | 70 | 2 3/4 | 110252 | |
| 3 | 70 | 2 3/4 | 110262 | |
| 1 | 89 | 3 1/2 | 6158047150 | 111122 |
| 2 | 89 | 3 1/2 | 6158047160 | 111132 |
| 3 | 89 | 3 1/2 | 6158047170 | |
| 2 | 150 | 6 | | 111152 |

ACR® = Anti-Cam-out Ribs



1/4" HEX INSERT (C6.3)

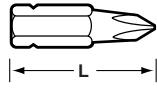
| POINT SIZE | L | PART NO. H | PART NO. XH |
|------------|----|------------|-------------|
| | mm | in. | |
| 0 | 25 | 1 | 110682 |
| 1 | 25 | 1 | 6158047060 |
| 2 | 25 | 1 | 6158047070 |
| 3 | 25 | 1 | 6158047080 |
| 4 | 32 | 1 1/4 | 110732 |
| 1 | 50 | 2 | 6158047090 |
| 2 | 50 | 2 | 6158047100 |
| 3 | 50 | 2 | 6158047110 |
| 2 | 70 | 2 3/4 | 110172 |



REDUCED NOSE DIAMETER

1/4" HEX INSERT (C6.3)

| POINT SIZE | L | PART NO. H | PART NO. XH |
|------------|----|------------|-------------|
| | mm | in. | |
| 1 | 25 | 1 | 6158047180 |
| 2 | 25 | 1 | 6158047190 |



3mm HEX POWER (A3)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| 00 | 50 | 2 |
| 0 | 50 | 2 |
| 1 | 50 | 2 |



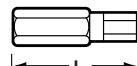
4mm HEX INSERT (C4)

| POINT SIZE | L | PART NO. XH |
|------------|----|-------------|
| | mm | in. |
| 0 | 28 | 1 1/8 |
| 1 | 28 | 1 1/8 |



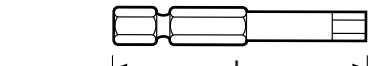
For 5/16" Hex Power Accessories see pages 137/138

■ Internal Hex



1/4" HEX INSERT (C6.3)

| HEX | L | PART NO. XH |
|-------|----|-------------|
| | mm | in. |
| 2.0mm | 25 | 1 |
| 3/32" | 25 | 1 |
| 2.5mm | 25 | 1 |
| 3.0mm | 25 | 1 |
| 1/8" | 25 | 1 |
| 9/64" | 25 | 1 |
| 4.0mm | 25 | 1 |
| 3/16" | 25 | 1 |
| 5.0mm | 25 | 1 |
| 7/32" | 25 | 1 |
| 6.0mm | 25 | 1 |
| 1/4" | 25 | 1 |
| 7.0mm | 25 | 1 |
| 8.0mm | 25 | 1 |



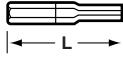
1/4" HEX POWER (E6.3)

| HEX | L | PART NO. XH |
|--------|----|-------------|
| | mm | in. |
| 2.0mm | 50 | 2 |
| 2.5mm | 50 | 2 |
| 3.0mm | 50 | 2 |
| 4.0mm | 50 | 2 |
| 5.0mm | 50 | 2 |
| 6.0mm | 50 | 2 |
| 8.0mm | 50 | 2 |
| 10.0mm | 50 | 2 |



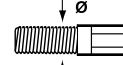
4mm HEX INSERT (C4)

| HEX | L | PART NO. XH |
|-------|----|-------------|
| | mm | in. |
| 1.5mm | 28 | 1 1/8 |
| 2.0mm | 28 | 1 1/8 |
| 2.5mm | 28 | 1 1/8 |
| 3.0mm | 28 | 1 1/8 |



THREAD DRIVE

| HEX | L | Ø | THREAD | PART NO. XH |
|-------|----|--------|--------|-------------|
| | mm | in. | mm | |
| 3.0mm | 33 | 1 5/16 | 7 | M5 |
| 4.0mm | 33 | 1 5/16 | 7 | M5 |
| 5.0mm | 33 | 1 5/16 | 8 | M6 |

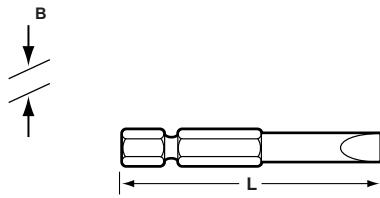
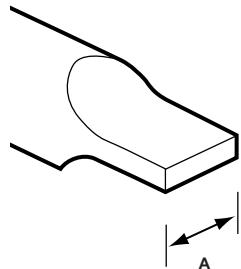




Screwdriver Bits

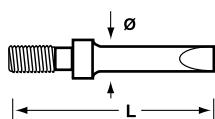


Slot



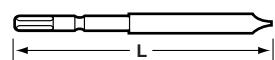
1/4" HEX INSERT (C6.3)

| A | B | L | PART NO. H | PART NO. XH |
|-----|------|-----|---------------|----------------------------|
| mm | in. | mm | in. | mm |
| 3.5 | 0.14 | 0.7 | 0.026 | 25 1 6158047220 6158047240 |
| 4.0 | 0.15 | 0.8 | 0.030 | 25 1 6158047250 |
| 4.7 | 0.17 | 0.9 | 0.034 | 25 1 110662 |
| 5.0 | 0.20 | 0.8 | 0.031 | 25 1 6158047230 |
| 6.3 | 0.25 | 1.0 | 0.042 | 25 1 6158047260 |



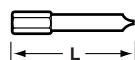
THREAD DRIVE

| A | B | L | Ø | THREAD | PART NO. XH |
|-----|------|-----|----|--------|----------------|
| mm | in. | mm | mm | mm | |
| 4.8 | 0.19 | 0.6 | 33 | 5.5 | M4 105962 |
| 6.0 | 0.24 | 0.7 | 33 | 6.0 | M4 105982 |
| 7.0 | 0.28 | 0.9 | 33 | 7.0 | M5 106002 |
| 7.0 | 0.28 | 1.0 | 33 | 7.0 | M5 106022 |
| 8.0 | 0.32 | 1.0 | 33 | 8.0 | M6 106032 |



3mm HEX POWER (A3)

| A | B | L | PART NO. XH |
|-----|------|-----|----------------|
| mm | in. | mm | in. |
| 2.0 | 0.08 | 0.3 | 0.012 |
| 2.5 | 0.10 | 0.4 | 0.016 |
| 3.0 | 0.12 | 0.5 | 0.020 |
| 4.0 | 0.16 | 0.6 | 0.024 |
| 5.0 | 0.20 | 0.8 | 0.031 |

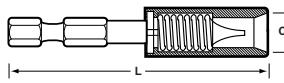


4mm HEX INSERT (C4)

| A | B | L | PART NO. XH |
|-----|------|-----|----------------|
| mm | in. | mm | in. |
| 3.0 | 0.12 | 0.5 | 0.020 |
| 4.5 | 0.18 | 0.6 | 0.024 |
| 5.5 | 0.22 | 0.8 | 0.031 |

1/4" HEX POWER (E6.3)

| A | B | L | PART NO. H | PART NO. XH |
|-----|------|-----|---------------|-------------------------|
| mm | in. | mm | in. | mm |
| 3.2 | 0.12 | 0.7 | 0.026 | 50 2 6158047270 110642 |
| 3.9 | 0.15 | 0.8 | 0.032 | 50 2 6158047280 110942 |
| 4.7 | 0.19 | 0.9 | 0.034 | 50 2 6158047290 110952 |
| 5.4 | 0.22 | 0.8 | 0.032 | 50 2 6158047300 110962 |
| 6.3 | 0.25 | 1.0 | 0.038 | 50 2 6158047310 110972 |
| 6.5 | 0.26 | 1.2 | 0.047 | 50 2 6158047320 111002 |
| 7.2 | 0.28 | 1.1 | 0.042 | 50 2 6158047340 111022 |
| 7.9 | 0.31 | 1.2 | 0.046 | 50 2 6158047350 111052 |
| 8.0 | 0.31 | 1.6 | 0.063 | 50 2 6158047360 111082 |
| 9.1 | 0.36 | 1.3 | 0.050 | 50 2 6158047370 111092 |
| 3.2 | 0.12 | 0.7 | 0.026 | 76 3 6158047380 111022 |
| 3.9 | 0.15 | 0.8 | 0.032 | 76 3 6158047390 111052 |
| 6.3 | 0.25 | 1.0 | 0.038 | 76 3 6158047410 111082 |
| 8.0 | 0.31 | 1.2 | 0.046 | 76 3 6158047420 111092 |
| 9.1 | 0.36 | 1.3 | 0.050 | 76 3 6158047430 111062 |
| 3.2 | 0.12 | 0.7 | 0.026 | 101 4 6158047440 111072 |
| 3.9 | 0.15 | 0.8 | 0.032 | 101 4 6158047450 111082 |
| 4.7 | 0.19 | 0.9 | 0.034 | 101 4 6158047460 111092 |
| 6.3 | 0.25 | 1.0 | 0.038 | 101 4 6158047470 111102 |
| 7.2 | 0.28 | 1.1 | 0.042 | 101 4 6158047480 111102 |
| 7.9 | 0.31 | 1.2 | 0.046 | 101 4 6158047490 111102 |
| 9.1 | 0.36 | 1.3 | 0.050 | 101 4 6158047500 111102 |



COMBINED BIT AND FINDER SLEEVES 1/4" HEX POWER (E6.3)

| A | B | L | C | PART NO. XH |
|------|------|------|------|---|
| mm | in. | mm | in. | mm |
| 4.9 | 0.20 | 0.91 | 0.04 | 95 3 ¹³ / ₁₆ 8.0 0.32 111062 |
| 6.1 | 0.24 | 1.07 | 0.04 | 95 3 ¹³ / ₁₆ 9.4 0.38 111072 |
| 7.3 | 0.29 | 1.07 | 0.04 | 95 3 ¹³ / ₁₆ 10.8 0.43 6158047410 |
| 8.9 | 0.36 | 1.17 | 0.05 | 95 3 ¹³ / ₁₆ 11.3 0.45 6158047420 |
| 10.0 | 0.40 | 1.27 | 0.05 | 98 3 ⁵⁹ / ₆₄ 12.6 0.50 6158047430 |
| 3.91 | 0.16 | 0.6 | 0.02 | 53 2 ¹ / ₈ 4.0 0.17 108032 |
| 3.91 | 0.16 | 0.7 | 0.03 | 53 2 ¹ / ₈ 4.0 0.17 108042 |
| 7.0 | 0.28 | 1.2 | 0.05 | 95 3 ¹³ / ₁₆ 9.3 0.37 110222 |
| 9.0 | 0.36 | 1.6 | 0.06 | 95 3 ¹³ / ₁₆ 12.0 0.48 110122 |
| 10.0 | 0.40 | 1.6 | 0.06 | 95 3 ¹³ / ₁₆ 15.0 0.60 110132 |



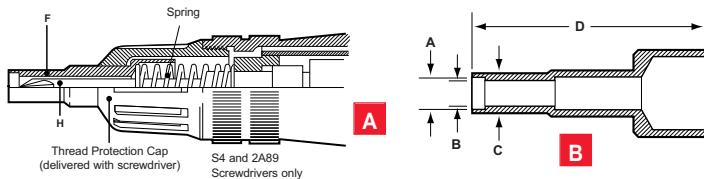
4mm HEX INSERT (C4)

| A | B | L | PART NO. XH |
|-----|------|-----|----------------|
| mm | in. | mm | in. |
| 3.0 | 0.12 | 0.5 | 0.020 |
| 4.5 | 0.18 | 0.6 | 0.024 |
| 5.5 | 0.22 | 0.8 | 0.031 |



Consumables

Screwdriver Bits, Vacuum Systems & Finder Sleeves

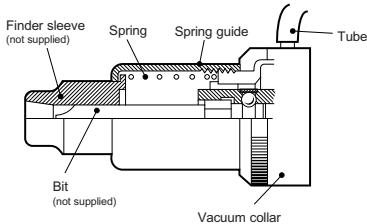


FINDER SLEEVES & BITS FOR 3mm HEX POWER (A3) SCREWDRIVERS BITS

To use 3mm Hex Power Bits (A3) with Non Rotating Finder Sleeves spring Part No. 280443 will be required.

| PIC REF | | ØA | | ØB | | ØC | | D | | PART NO. F | PART NO. H | PART NO. H | POINT SIZE | PART NO. H | POINT SIZE | |
|------------|---------------------|------|------|------|-----|-------|------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|----------|
| | | mm | in. | mm | in. | mm | in. | mm | in. | | | | | | | |
| A & B | 3.0 | 0.12 | 3.10 | 0.12 | 2.4 | 0.09 | 3.80 | 0.15 | 34 | 1 3/8 | 81042 | 80722 | 80782 | 0 | 82102/80762 | 000/00/0 |
| A & B | 3.8 | 0.15 | 3.85 | 0.15 | 3.1 | 0.125 | 4.75 | 0.19 | 34 | 1 3/8 | 81052 | 80732 | 80782 | 0 | 80762 | 0 |
| A & B | 4.3 | 0.17 | 4.60 | 0.18 | 4.1 | 0.16 | 5.45 | 0.21 | 34 | 1 3/8 | 81062 | 80742 | 80792 | 1 | 80772 | 1 |
| A & B | 4.7 | 0.19 | 4.85 | 0.19 | 4.1 | 0.16 | 5.70 | 0.22 | 34 | 1 3/8 | 81072 | 80742 | 80792 | 1 | 80772 | 1 |
| A & B | 5.6 | 0.22 | 5.65 | 0.22 | 5.1 | 0.20 | 6.60 | 0.26 | 34 | 1 3/8 | 81082 | 80752 | 80792 | 1 | 80772 | |
| B | Finder Sleeve Blank | | | | | | 6.60 | | 0.26 | 100 | 4 | 88992 | | | | |

Can be used with suction screw pick-up



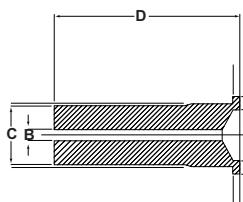
VACUUM CREW PICK-UP KIT FOR SB, SC2, SD & ECS SCREWDRIVERS

| DESCRIPTION | PART NO. |
|--|----------|
| Ø mm | |
| Kit (SB) including: | 108892 |
| Spring Guide | 464213 |
| Spring | 464223 |
| Vacuum collar | 464233 |
| Vacuum tube (2.3m long) | 111223 |
| Blank finder sleeve machining instructions | 464183 |
| Kit (SC) 5/16" Hex | 74762 |

NON-ROTATING FINDER SLEEVE KIT FOR SB, SC2, SD & ECS SCREWDRIVERS

| DESCRIPTION | PART NO. |
|--|----------|
| Ø mm | |
| Kit including: | 108902 |
| Spring | 464223 |
| Blank finder sleeve machining instructions | 464183 |

Note: Finder sleeves to suit screw/screwdriver bit must be machined from plastic or steel blanks (see below)



| DESCRIPTION | ØB | | ØC | | D | | PART NO. |
|-----------------------------------|------|------|------|-----|-----|-----|----------|
| | mm | in. | mm | in. | mm | in. | |
| Finder Sleeve Blank – Delrin (SB) | 3.0 | 0.12 | 14.2 | 0.6 | 105 | 4.1 | 464103 |
| Finder Sleeve Blank – Steel (SB) | 3.0 | 0.12 | 14.2 | 0.6 | 105 | 4.1 | 464093 |
| Finder Sleeve Blank – Steel (SC) | 3.35 | 0.13 | 15.6 | 0.6 | 26 | 1.0 | 464753 |

AIR-POWERED VACUUM ATTACHMENTS FOR BALANCERS

DU Cable Balancers can be simply converted into a vacuum source by fitting a Vacuum Attachment. Vacuum is adjustable and switches off automatically when screwdriver is released.



| BALANCER TYPE | VACUUM WATER GAUGE (1mm w.g. = 81.1 mbar) | | | | | | HOSE LENGTH | HOSE BORE | | |
|---------------|---|-----|------|-----|-------|----------|-------------|-----------|---|------|
| | mm | in. | l/s | cfm | dB(A) | part no. | | | | |
| DU | 4570 | 13 | 0.47 | 1 | 64 | 51482 | 1.6 | 5 1/2 | 4 | 0.16 |

AIR-POWERED AV201 VACUUM UNIT

The AV201 is installed into the air line system by screwing into the gauge port of a combination filter/regulator or into a tee piece between a regulator and lubricator.



| VACUUM MERCURY GAUGE | | | | | | AIR INLET | HOSE LENGTH | | HOSE BORE | |
|----------------------|-----|-----|-----|-------|----------|-----------|-------------|-------|-----------|------|
| mm | in. | l/s | cfm | dB(A) | part no. | | m | ft. | mm | in. |
| 4570 | 13 | 0.7 | 1.5 | 54 | 112063 | 1/8 | 2.3 | 7 1/2 | 4 | 0.16 |

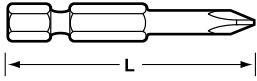


Consumables



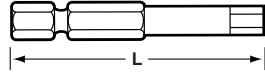
Impulse/Impact Bits ■

Designed for use with impact and impulse tools to absorb shock loading



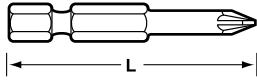
1/4" HEX POWER (E6.3)

| POINT OR HEX | L | | PART NO. |
|-----------------|----|-----|------------|
| | mm | in. | |
| 2 | 49 | 2 | 9092012111 |
| 3 | 49 | 2 | 9092012141 |



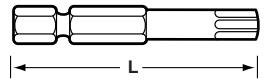
1/4" HEX POWER (E6.3)

| POINT OR HEX | L | | PART NO. |
|-----------------|----|-----|------------|
| | mm | in. | |
| 4 | 49 | 2 | 9092012291 |
| 5 | 49 | 2 | 9092012321 |



1/4" HEX POWER (E6.3)

| POINT OR HEX | L | | PART NO. |
|-----------------|----|-----|------------|
| | mm | in. | |
| 2 | 49 | 2 | 9092012051 |
| 3 | 49 | 2 | 9092012081 |



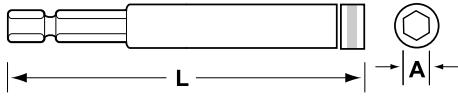
1/4" HEX POWER (E6.3)

| POINT OR HEX | L | | PART NO. |
|-----------------|----|-----|------------|
| | mm | in. | |
| T25 | 49 | 2 | 9092012201 |
| T30 | 49 | 2 | 9092012231 |



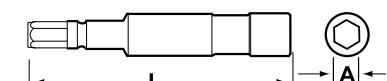
1/4" HEX INSERT (C6.3)

| L | A | ∅ | Q/R | PART NO. |
|----|-----|------------------------|-----|----------|
| mm | in. | | | |
| 43 | 1.7 | 1/4" Hex Insert (D6.3) | X | 22322 |



1/4" HEX POWER (E6.3)

| L | A | ∅ | Q/R | PART NO. |
|-----|-----|------------------------|-----|------------------------|
| mm | in. | | | |
| 50 | 2.0 | 1/4" Hex Power (E6.3) | X | ✓ 75782 ³⁾ |
| 50 | 2.0 | 5/16" Hex Power | X | X 110622 |
| 45 | 1.8 | 4mm Hex Insert (D4) | ✓ | X 97632 |
| 50 | 2.0 | 1/4" Hex Insert (D6.3) | ✓ | X 107952 |
| 73 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | X 99752 ¹⁾ |
| 75 | 3.0 | 1/4" Hex Insert (D6.3) | X | ✓ 111262 ³⁾ |
| 74 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | X 101252 ²⁾ |
| 42 | 1.6 | 1/4" Hex Insert (D6.3) | X | X 101282 |
| 74 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | ✓ 100162 |
| 80 | 3.1 | 1/4" Hex Insert (D6.3) | ✓ | X 110362 ³⁾ |
| 100 | 3.9 | 1/4" Hex Insert (D6.3) | X | X 110342 |
| 150 | 5.9 | 1/4" Hex Insert (D6.3) | ✓ | X 110102 |
| 150 | 5.9 | 1/4" Hex Insert (D6.3) | X | X 110352 |



3mm HEX POWER (A3)

| L | A | ∅ | Q/R | PART NO. |
|----|------|------------------------|-----|----------|
| mm | in. | | | |
| 57 | 2.25 | 4mm Hex Insert (D4) | ✓ | 80892 |
| 57 | 2.25 | 4mm Hex Insert (D4) | X | 80902 |
| 50 | 2.0 | 1/4" Hex Insert (D6.3) | X | 82322 |

For 5/16" Hex. Power Accessories see page 133

¹⁾ Reduced external diameter 9.5mm (3/8"), no retention clip

²⁾ Copper beryllium

³⁾ With retaining screw

Bit Holders ■



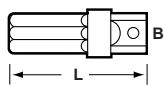
1/4" HEX POWER (E6.3)

| L | A | ∅ | Q/R | PART NO. |
|-----|-----|------------------------|-----|------------------------|
| mm | in. | | | |
| 50 | 2.0 | 1/4" Hex Power (E6.3) | X | ✓ 75782 ³⁾ |
| 50 | 2.0 | 5/16" Hex Power | X | X 110622 |
| 45 | 1.8 | 4mm Hex Insert (D4) | ✓ | X 97632 |
| 50 | 2.0 | 1/4" Hex Insert (D6.3) | ✓ | X 107952 |
| 73 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | X 99752 ¹⁾ |
| 75 | 3.0 | 1/4" Hex Insert (D6.3) | X | ✓ 111262 ³⁾ |
| 74 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | X 101252 ²⁾ |
| 42 | 1.6 | 1/4" Hex Insert (D6.3) | X | X 101282 |
| 74 | 2.9 | 1/4" Hex Insert (D6.3) | ✓ | ✓ 100162 |
| 80 | 3.1 | 1/4" Hex Insert (D6.3) | ✓ | X 110362 ³⁾ |
| 100 | 3.9 | 1/4" Hex Insert (D6.3) | X | X 110342 |
| 150 | 5.9 | 1/4" Hex Insert (D6.3) | ✓ | X 110102 |
| 150 | 5.9 | 1/4" Hex Insert (D6.3) | X | X 110352 |



Consumables

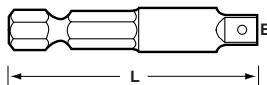
Adaptors



SQUARE DRIVE ADAPTORS

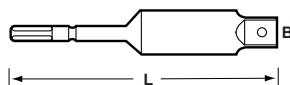
1/4" HEX INSERT (C6.3)

| B | L | PART NO. |
|-------------------|----|--------------|
| □ | mm | in. |
| 1/4" Square Drive | 39 | 1.5 |
| | | 14372 |



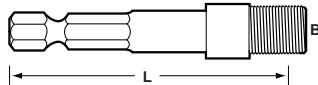
1/4" HEX POWER (E6.3)

| B | L | PART NO. |
|-------------------|----|--------------|
| □ | mm | in. |
| 1/4" Square Drive | 35 | 1.4 |
| 1/4" Square Drive | 50 | 2.0 |
| 3/8" Square Drive | 41 | 1.6 |
| | | 95352 |
| | | 97132 |
| | | 95362 |



3mm HEX POWER (A3)

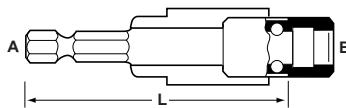
| B | L | PART NO. |
|-------------------|----|--------------|
| □ | mm | in. |
| 1/4" Square Drive | 50 | 2.0 |
| | | 82732 |



THREAD ADAPTOR

1/4" HEX POWER (E6.3)

| B | L | PART NO. |
|---------------|----|--------------|
| □ | mm | in. |
| 3/8" x 24 UNF | 45 | 1.7 |
| | | 96743 |



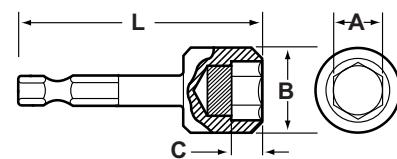
TELESCOPIC SPINDLE EXTENSION ADAPTORS

| A | B | L | STROKE | PART NO. |
|---------------------|---------------------|-----|--------|--------------|
| □ | mm | in. | mm | in. |
| 5/16" Hex Power | 3/8" Square Drive | 67 | 2.6 | 9.5 0.81 |
| 1/4" Hex Power E6.3 | 1/4" Hex Power E6.3 | 84 | 4.2 | 9.5 0.81 |
| 3/8" Square Drive | 1/4" Hex Power E6.3 | 73 | 3.8 | 9.5 0.81 |
| | | | | 71593 |
| | | | | 96713 |
| | | | | 96723 |



1/4" HEX INSERT (C6.3)

| □ | A | B | C | L | PART NO. |
|-----|-------|------|------|----|-------------------|
| ISO | UNF/C | mm | in. | mm | in. |
| M4 | | 7.0 | 0.27 | 11 | 0.43 |
| M5 | | 8.0 | 0.31 | 13 | 0.51 |
| M6 | | 10.0 | 0.39 | 14 | 0.56 |
| | | | | | 9092011961 |
| | | | | | 9092011991 |
| | | | | | 9092012021 |



1/4" HEX POWER (E6.3)

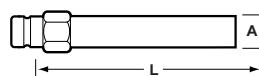
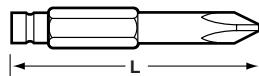
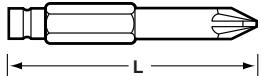
| □ | A | B | C | L | PART NO. |
|------|-------|------|------|-----|-------------------|
| ISO | UNF/C | mm | in. | mm | in. |
| M3 | | 5.5 | 0.21 | 11 | 0.43 |
| M3.5 | | 6.0 | 0.23 | 11 | 0.43 |
| 4 | | 1/4 | 0.43 | 4.4 | 0.17 |
| M4 | | 7.0 | 0.27 | 12 | 0.47 |
| M5 | | 8.0 | 0.31 | 13 | 0.51 |
| M6 | | 10.0 | 0.39 | 14 | 0.56 |
| | | 5/16 | 0.31 | 5.6 | 0.22 |
| | | | | 65 | 2.5 |
| | | | | | 9092011811 |
| | | | | | 9092011481 |
| | | | | | 9092011541 |
| | | | | | 9092011781 |
| | | | | | 9092011601 |
| | | | | | 9092011661 |
| | | | | | 9092011721 |
| | | | | | 9092011931 |



Consumables



5/16" Hex Power Bits



SCREWDRIVER BITS 5/16" HEX POWER

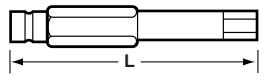
| POINT SIZE | L | PART NO. XH | |
|------------|----|-------------|-------|
| | mm | in. | |
| 1 | 32 | 1.3 | 11642 |
| 2 | 32 | 1.3 | 11652 |
| 1 | 52 | 2.0 | 11672 |
| 2 | 52 | 2.0 | 11682 |
| 3 | 52 | 2.0 | 11692 |
| 1 | 92 | 3.6 | 11702 |
| 2 | 92 | 3.6 | 11722 |
| 3 | 92 | 3.6 | 11732 |

SCREWDRIVER BITS 5/16" HEX POWER

| POINT SIZE | L | PART NO. XH | |
|------------|----|-------------|-------|
| | mm | in. | |
| 1 | 32 | 1.3 | 11532 |
| 2 | 32 | 1.3 | 11542 |
| 1 | 44 | 1.7 | 13362 |
| 1 | 52 | 2.0 | 11562 |
| 2 | 52 | 2.0 | 11572 |
| 3 | 52 | 2.0 | 11582 |
| 1 | 92 | 3.6 | 11602 |
| 2 | 92 | 3.6 | 11622 |
| 3 | 92 | 3.6 | 11632 |

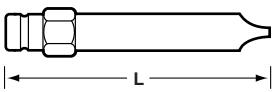
SCREWDRIVER BIT BLANK 5/16" HEX POWER

| A | L | PART NO. XH | | |
|------|------|-------------|-----|-------|
| mm | in. | mm | in. | |
| 10.2 | 0.40 | 52 | 2 | 10522 |
| 10.2 | 0.40 | 154 | 6 | 10692 |



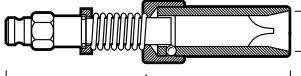
SCREWDRIVER BITS 5/16" HEX POWER

| HEX | L | PART NO. XH | | |
|-----|------|-------------|-----|-------|
| mm | in. | mm | in. | |
| 3 | 0.12 | 50 | 2.0 | 99842 |
| 4 | 0.16 | 50 | 2.0 | 99852 |
| 5 | 0.19 | 50 | 2.0 | 99862 |
| 6 | 0.23 | 50 | 2.0 | 99872 |
| 8 | 0.31 | 50 | 2.0 | 99882 |



SCREWDRIVER BITS 5/16" HEX POWER

| A | B | L | PART NO. XH | | | |
|------|------|-----|-------------|-----|------|-------|
| mm | in. | mm | in. | mm | in. | |
| 3.1 | 0.12 | 0.6 | 0.023 | 52 | 2.04 | 10082 |
| 3.7 | 0.14 | 0.8 | 0.031 | 52 | 2.04 | 10092 |
| 5.0 | 0.19 | 1.0 | 0.038 | 52 | 2.04 | 10102 |
| 6.2 | 0.24 | 1.0 | 0.038 | 52 | 2.04 | 10122 |
| 7.5 | 0.29 | 1.2 | 0.047 | 52 | 2.04 | 10132 |
| 8.8 | 0.34 | 1.3 | 0.051 | 52 | 2.04 | 10142 |
| 10.2 | 0.40 | 1.5 | 0.059 | 52 | 2.04 | 10152 |
| 3.1 | 0.12 | 0.6 | 0.023 | 78 | 3.07 | 10162 |
| 3.7 | 0.14 | 0.8 | 0.032 | 78 | 3.07 | 10172 |
| 5.0 | 0.19 | 1.0 | 0.038 | 78 | 3.07 | 10182 |
| 6.2 | 0.24 | 1.0 | 0.038 | 78 | 3.07 | 10192 |
| 7.5 | 0.29 | 1.2 | 0.047 | 78 | 3.07 | 10202 |
| 8.8 | 0.34 | 1.3 | 0.051 | 78 | 3.07 | 10222 |
| 10.2 | 0.40 | 1.5 | 0.059 | 78 | 3.07 | 10232 |
| 3.1 | 0.12 | 0.6 | 0.023 | 103 | 4.05 | 10242 |
| 3.7 | 0.14 | 0.8 | 0.032 | 103 | 4.05 | 10252 |
| 5.0 | 0.19 | 1.0 | 0.038 | 103 | 4.05 | 10262 |
| 6.2 | 0.24 | 1.0 | 0.038 | 103 | 4.05 | 10272 |
| 7.5 | 0.29 | 1.2 | 0.047 | 103 | 4.05 | 10282 |
| 10.2 | 0.40 | 1.5 | 0.059 | 103 | 4.05 | 10302 |
| 5.0 | 0.19 | 1.0 | 0.0308 | 154 | 6.06 | 10422 |



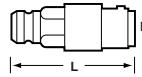
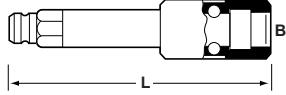
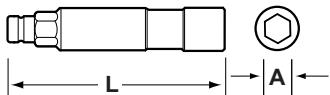
SCREWDRIVER BITS – COMBINED BIT AND FINDER SLEEVES 5/16" HEX POWER

| A | B | L | C | PART NO. XH | | | | |
|------|------|-----|-------|-------------|-----|------|------|-------|
| mm | in. | mm | in. | mm | in. | | | |
| 3.2 | 0.12 | 0.6 | 0.023 | 84 | 3.3 | 4.2 | 0.16 | 10822 |
| 3.9 | 0.15 | 0.8 | 0.031 | 84 | 3.3 | 5.7 | 0.22 | 10832 |
| 5.1 | 0.20 | 1.0 | 0.038 | 84 | 3.3 | 7.2 | 0.28 | 10842 |
| 6.4 | 0.25 | 1.1 | 0.043 | 84 | 3.3 | 8.6 | 0.34 | 10852 |
| 7.7 | 0.30 | 1.2 | 0.047 | 84 | 3.3 | 10.1 | 0.39 | 10862 |
| 8.8 | 0.34 | 1.4 | 0.055 | 84 | 3.3 | 11.6 | 0.45 | 10872 |
| 11.0 | 0.42 | 1.6 | 0.062 | 84 | 3.3 | 13.0 | 0.51 | 10882 |
| 3.9 | 0.15 | 0.8 | 0.031 | 110 | 4.3 | 5.7 | 0.22 | 10902 |
| 5.1 | 0.20 | 1.0 | 0.038 | 110 | 4.3 | 7.2 | 0.28 | 10922 |
| 6.4 | 0.25 | 1.1 | 0.043 | 110 | 4.3 | 8.6 | 0.34 | 10932 |
| 7.7 | 0.30 | 1.2 | 0.047 | 110 | 4.3 | 10.1 | 0.39 | 10942 |



Consumables

5/16" Hex Power Accessories



BIT HOLDERS 5/16" HEX POWER

| L | A | Q/R | PART NO. |
|--|------|------------------------|------------|
| mm | in. | | |
| 45 | 1.77 | 1/4" Hex Power (F6.3) | X ✓ 78882 |
| 46 | 1.81 | 1/4" Hex Insert (D6.3) | X X 11522 |
| 62 | 2.44 | 1/4" Hex Insert (D6.3) | ✓ X 11502 |
| Replacement Spring Ring for 11522, 11502 | | | 260613 |
| 70 | 2.75 | 1/4" Hex Insert (D6.3) | ✓ ✓ 100172 |
| 55 | 2.16 | 1/4" Hex Insert (D6.3) | ✓ X 98682 |
| Cap and O Ring for 98682 | | | X X 100132 |

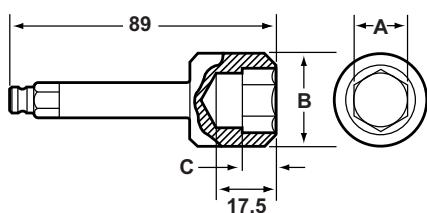
EXTENTION ADAPTORS 5/16" HEX POWER

| B | L | PART NO. |
|-----------------|-----|-----------|
| mm | in. | |
| 5/16" Hex Power | 51 | 2.0 10762 |
| 5/16" Hex Power | 76 | 2.9 10772 |
| 5/16" Hex Power | 101 | 3.9 10782 |
| 5/16" Hex Power | 126 | 4.9 10792 |
| 5/16" Hex Power | 151 | 5.9 10802 |

SQUARE DRIVE ADAPTORS 5/16" HEX POWER

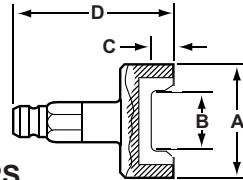
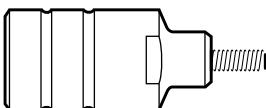
| B | L | PART NO. |
|-------------------|-----|-----------|
| mm | in. | |
| 1/4" Square Drive | 34 | 1.3 32962 |
| 1/4" Square Drive | 75 | 2.9 23592 |
| 1/4" Square Drive | 100 | 3.9 23602 |
| 3/8" Square Drive | 37 | 1.4 91772 |

NUTRUNNERS 5/16" HEX POWER



| ISO | UNF/C | A | B | C | PART NO. |
|-------|---------|------|------|------|----------------|
| mm | in. | mm | in. | mm | in. |
| M2.5 | 5.1 | 0.20 | 8.9 | 0.35 | 2.3 0.09 7342 |
| M3 | 5.5 | 0.21 | 9.5 | 0.37 | 2.4 0.09 61332 |
| M3.5 | 6.1 | 0.24 | 10.4 | 0.41 | 3.2 0.12 7372 |
| 4 | 6.5 | 0.25 | 11.4 | 0.44 | 3.3 0.13 7392 |
| M4 | 7.2 | 0.28 | 11.9 | 0.46 | 3.3 0.13 61342 |
| M5 | 8.1 | 0.31 | 13.7 | 0.54 | 4.1 0.16 7412 |
| | 8.3 | 0.32 | 13.7 | 0.54 | 4.1 0.16 7422 |
| M6 | 10.1 | 0.39 | 16.0 | 0.63 | 4.8 0.18 7462 |
| | 12 1/4" | 0.44 | 17.5 | 0.68 | 5.6 0.22 7482 |
| 5/16" | 13.0 | 0.51 | 19.6 | 0.77 | 6.4 0.25 7512 |
| M8 | 13.2 | 0.52 | 19.8 | 0.78 | 6.4 0.25 752 |
| | 14.5 | 0.57 | 21.3 | 0.83 | 7.9 0.31 7552 |
| M10 | 17.3 | 0.68 | 24.6 | 0.96 | 9.7 0.38 7582 |

Bottle Cap Drivers/Nose Attachment Kits



NOSE ATTACHMENT KITS FOR THE ASSEMBLY OF THREADED CAPTIVE FASTENERS, RIVET NUTS, ETC USE WITH TOOLS SB, SC2, SD & ECS

| THREAD SIZE | PART NO. ASSEMBLY KIT | THREAD SIZE | PART NO. ASSEMBLY KIT |
|-------------|-----------------------|-------------|-----------------------|
| M3 x 0.5 | 76552 | 6 x 32 UNC | 77602 |
| M4 x 0.7 | 76562 | 8 x 32 UNC | AS50109-04 |
| M5 x 0.8 | 76572 | 10 x 24 UNC | AS50109-03 |
| M6 x 1.0 | 76582 | 10 x 32 UNF | AS50109-06 |
| M8 x 1.25 | 76592 | 1/4"-20 UNC | AS50109-01 |
| | | 1/4"-28 UNF | AS50109-02 |
| | | 5/16" UNC | 76672 |
| | | 5/16" UNF | 76682 |

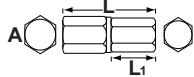
BOTTLE CAP DRIVERS 5/16" HEX POWER

| ØA | ØB | C | D | PART NO. |
|------|------|------|------|--------------------------|
| mm | in. | mm | in. | |
| 25.4 | 1.0 | 14.3 | 0.56 | 6.4 0.25 38.1 1.50 11832 |
| 28.6 | 1.12 | 17.5 | 0.68 | 6.4 0.25 38.1 1.50 11842 |
| 31.7 | 1.24 | 22.2 | 0.87 | 6.4 0.25 38.1 1.50 11852 |
| 34.9 | 1.37 | 23.8 | 0.93 | 6.4 0.25 38.1 1.50 11862 |
| 39.7 | 1.56 | 27.0 | 1.06 | 6.4 0.25 38.9 1.53 11872 |
| 42.9 | 1.68 | 30.2 | 1.18 | 6.4 0.25 38.9 1.53 11882 |
| 49.2 | 1.93 | 36.5 | 1.43 | 7.9 0.31 40.4 1.59 11892 |
| 55.6 | 2.18 | 42.9 | 1.68 | 7.9 0.31 40.4 1.59 11902 |



| THREAD SIZE | PART NO. A | PART NO. B | PART NO. C | LENGTH D | PART NO. | E A/F SIZE | PART NO. | PART NO. F | PART NO. G |
|-------------|------------|------------|------------|----------|----------|------------|----------|------------|--------------|
| | | | | mm | | mm | in. | | |
| M3 x 0.5 | 273513 | 273603 | 273423 | 35 | 1.37 | 279683 | 2.5 0.09 | 72362 | 273613 16313 |
| M4 x 0.7 | 273533 | 273603 | 273443 | 35 | 1.37 | 273643 | 3.0 0.12 | 72172 | |
| M5 x 0.8 | 273563 | 273603 | 273473 | 35 | 1.37 | 273653 | 4.0 0.15 | 72192 | |
| M6 x 1.0 | 273573 | 273603 | 273483 | 35 | 1.37 | 237893 | 5.0 0.19 | 72222 | |
| M8 x 1.25 | 273593 | 300383 | | 45 | 1.77 | 300393 | 6.0 0.23 | 72242 | |

Sockets

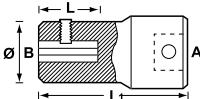
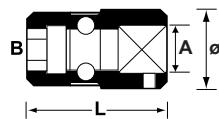


HEXAGONAL BITS 7/16"

| SIZE ON FLATS A | | L | | HEX LENGTH L ₁ | | PART NO. |
|--------------------|-----|------|-----|------------------------------|------------|----------|
| mm | in. | mm | in. | mm | in. | |
| 8 | 28 | 1.10 | 12 | 0.47 | 6158041080 | |
| 10 | 28 | 1.10 | 12 | 0.47 | 6158041090 | |
| 12 | 28 | 1.10 | 12 | 0.47 | 6158041100 | |



Square Drive Adaptors ■



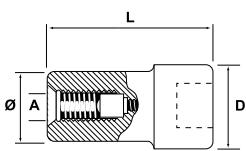
POSITIVE RETENTION

| A | B | L | Ø | L ₁ | PART NO. |
|-----|-----------|----|------|----------------|----------|
| in. | | mm | mm | in. | |
| 3/8 | 1/4" Hex | 14 | 0.55 | 14 | 0.55 |
| 3/8 | 7/16" Hex | 14 | 0.55 | 14 | 0.49 |



SQUARE DRIVE TO SCREWDRIVER BIT ADAPTORS QUICK RELEASE AND CLIP/BALL RETENTION

| A | B | L | Ø MAX | Q/R | PART NO. |
|-----|------------------------|----|-------|-----|----------|
| in. | | mm | in. | mm | in. |
| 3/8 | 1/4" Hex Insert (D6.3) | 32 | 1.26 | 16 | 0.62 |
| 3/8 | 1/4" Hex Power (F6.3) | 46 | 1.81 | 22 | 0.86 |
| 3/8 | 5/16" Hex Power | 68 | 2.67 | 21 | 0.82 |
| 1/2 | 1/4" Hex Insert (D6.3) | 45 | 1.77 | 22 | 0.86 |
| 1/4 | 5/16" Hex Power | 25 | 1.0 | | 26892 |



STUD RUNNER

| THREAD A | SQUARE DRIVE | Ø | D | L | PART NO. |
|-------------|-----------------|----|------|----|----------|
| | in. | mm | in. | mm | in. |
| M5 x 80 | 3/8 | 15 | 0.59 | 19 | 0.74 |
| M6 x 100 | 3/8 | 15 | 0.59 | 19 | 0.74 |
| M8 x 125 | 3/8 | 17 | 0.66 | 19 | 0.74 |
| M10 x 150 | 3/8 | 19 | 0.74 | 24 | 0.94 |
| M6 x 100 | 1/2 | 22 | 0.86 | 24 | 0.94 |
| M8 x 125 | 1/2 | 24 | 0.94 | 24 | 0.94 |
| M10 x 150 | 1/2 | 24 | 0.94 | 24 | 0.94 |
| M12 x 175 | 1/2 | 24 | 0.94 | 24 | 0.94 |
| M14 x 200 | 1/2 | 24 | 0.94 | 24 | 0.94 |
| M16 x 200 | 1/2 | 24 | 0.94 | 24 | 0.94 |



HEXAGONAL DRIVES WITH PIN AND O-RING RETENTION

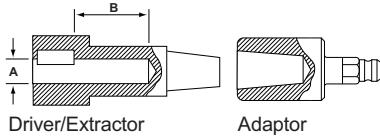
| A | SQUARE DRIVE | L | L ₁ | ØD | PART NO. |
|----|-----------------|-----|----------------|------|----------|
| mm | in. | mm | in. | mm | in. |
| 4 | 0.15 | 3/8 | 50 | 1.96 | 16 |
| 5 | 0.19 | 3/8 | 50 | 1.96 | 16 |
| 6 | 0.23 | 3/8 | 50 | 1.96 | 16 |
| 8 | 0.31 | 3/8 | 50 | 1.96 | 16 |
| 10 | 0.39 | 3/8 | 50 | 1.96 | 16 |
| 8 | 0.31 | 1/2 | 75 | 2.95 | 16 |
| 10 | 0.39 | 1/2 | 75 | 2.95 | 16 |
| 14 | 0.55 | 1/2 | 75 | 2.95 | 20 |

SOCKET 1/2" DRIVE WITH MALE HEX

| HEX | L | L ₁ | PART NO. |
|------|------|----------------|----------|
| mm | in. | mm | in. |
| 4 | 0.15 | 44 | 1.73 |
| 5 | 0.19 | 44 | 1.73 |
| 6 | 0.23 | 44 | 1.73 |
| 8 | 0.31 | 44 | 1.73 |
| 10 | 0.39 | 47 | 1.85 |
| 14 | 0.55 | 50 | 1.96 |
| 17 | 0.67 | 50 | 1.96 |
| 19 | 0.74 | 50 | 1.96 |
| 5/16 | 44 | 1.73 | 12 |
| 3/8 | 47 | 1.85 | 16 |
| 1/2 | 50 | 1.96 | 19 |

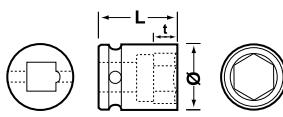


Sockets



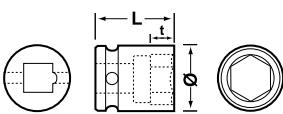
EXTENSIONS

| FEMALE SQ. | SQ. DRIVE | L | Ø | PART NO. | |
|------------|-----------|------------|------|------------|------|
| in. | in. | mm | in. | mm | in. |
| 1/4 | 1/4 | 51 | 2.0 | 13 | 0.51 |
| 1/4 | 1/4 | 75 | 2.9 | 13 | 0.51 |
| 1/4 | 1/4 | 100 | 3.9 | 13 | 0.51 |
| 1/4 | 1/4 | 150 | 5.9 | 13 | 0.51 |
| 3/8 | 3/8 | 76 | 3.0 | 19 | 0.74 |
| 3/8 | 3/8 | 152 | 5.9 | 19 | 0.74 |
| 1/2 | 1/2 | 51 | 2.0 | 30 | 1.18 |
| 1/2 | 1/2 | 127 | 5.0 | 30 | 1.18 |
| 1/2 | 1/2 | 254 | 10.0 | 30 | 1.18 |
| 3/4 | 3/4 | 102 | 4.0 | 44 | 1.73 |
| 3/4 | 3/4 | 178 | 7.0 | 44 | 1.73 |
| 1 | 1 | 178 | 7.0 | 54 | 2.12 |
| #5 | #5 | 203 | 7.9 | 54 | 2.12 |
| | | 6158071050 | | 6158071070 | |
| | | 6158071100 | | 6158071150 | |
| | | 6158072070 | | 6158072150 | |
| | | 6158073050 | | 6158073130 | |
| | | 6158073250 | | 6158075100 | |
| | | 6158075170 | | 6158076180 | |
| | | 6158040340 | | | |



MAGNETIC 1/4" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | Ø | DEPTH t | PART NO. | | |
|---------------|------------|-----|------------|----------|------------|------|
| | mm | in. | mm | in. | mm | in. |
| 7 | 25 | 1 | 19 | 0.75 | 3 | 0.12 |
| 8 | 25 | 1 | 19 | 0.75 | 4 | 0.16 |
| 10 | 25 | 1 | 19 | 0.75 | 5 | 0.20 |
| | 6158040050 | | 6158040060 | | 6158040070 | |

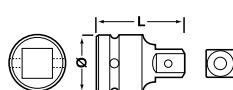


EXTENDED 3/8" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | Ø | DEPTH t | PART NO. | | |
|---------------|------------|------|------------|----------|------------|------|
| | mm | in. | mm | in. | mm | in. |
| 8 | 57 | 2.24 | 12.5 | 0.49 | 8 | 0.31 |
| 10 | 57 | 2.24 | 15.5 | 0.61 | 10 | 0.39 |
| 11 | 57 | 2.24 | 17.0 | 0.67 | 11 | 0.43 |
| 12 | 57 | 2.24 | 18.0 | 0.71 | 12 | 0.47 |
| 13 | 57 | 2.24 | 19.5 | 0.77 | 13 | 0.51 |
| 15 | 57 | 2.24 | 22.0 | 0.87 | 15 | 0.59 |
| 16 | 57 | 2.24 | 23.0 | 0.91 | 16 | 0.63 |
| 17 | 57 | 2.24 | 24.5 | 0.96 | 17 | 0.67 |
| 18 | 57 | 2.24 | 25.5 | 1.00 | 18 | 0.71 |
| 19 | 57 | 2.24 | 27.0 | 1.06 | 19 | 0.75 |
| | 6158062080 | | 6158062100 | | 6158062110 | |
| | 6158062120 | | 6158062130 | | 6158062150 | |
| | 6158062160 | | 6158062170 | | 6158062180 | |
| | 6158062190 | | | | | |

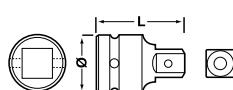
STUD DRIVER/EXTRACTORS 5/16" HEX POWER

| A | B | PART NO. | | |
|----|------|----------|---------|------------------|
| | mm | in. | ADAPTOR | DRIVER/EXTRACTOR |
| M4 | 18.2 | 0.71 | | 15262 |
| M5 | 19.8 | 0.78 | | 15302 |
| M6 | 12.7 | 0.50 | 15502 | 15332 |
| | 14.3 | 0.56 | 15502 | 15342 |
| M7 | 19.0 | 0.74 | 15502 | 15362 |
| M8 | 19.0 | 0.74 | 15502 | 15372 |

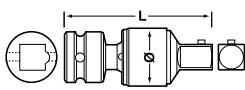


ADAPTORS

| FEMALE SQ. | SQ. DRIVE | L | Ø | PART NO. | |
|------------|------------|----|------------|----------|------------|
| in. | in. | mm | in. | mm | in. |
| 1/4 | 3/8 | 32 | 1.3 | 12.5 | 0.49 |
| 3/8 | 1/4 | 31 | 1.2 | 22 | 0.86 |
| 3/8 | 1/2 | 35 | 1.4 | 22 | 0.86 |
| 1/2 | 3/8 | 35 | 1.4 | 25 | 0.98 |
| 1/2 | 3/4 | 43 | 1.7 | 30 | 1.18 |
| 3/4 | 1/2 | 52 | 2.0 | 44 | 1.73 |
| 3/4 | 1 | 60 | 2.4 | 44 | 1.73 |
| 1 | 3/4 | 67 | 2.6 | 54 | 2.12 |
| #5 | 1 | 90 | 3.5 | 60 | 2.36 |
| | 6158091200 | | 6158092300 | | 6158093200 |
| | 6158092100 | | 6158093500 | | 6158095300 |
| | 6158095600 | | 6158096500 | | 6158040130 |
| | 6158040130 | | | | |



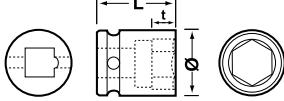
Extensions ■ Universal Joints ■ Adaptors



UNIVERSAL JOINTS

| FEMALE SQ. | SQ. DRIVE | L | Ø | PART NO. | |
|------------|------------|-----|------------|----------|------------|
| in. | in. | mm | in. | mm | in. |
| 1/4 | 1/4 | 42 | 1.6 | 17 | 0.66 |
| 3/8 | 3/8 | 60 | 2.3 | 20 | 0.78 |
| 1/2 | 1/2 | 76 | 3.0 | 32 | 1.26 |
| 3/4 | 3/4 | 89 | 3.5 | 44 | 1.73 |
| 1 | 1 | 112 | 4.4 | 54 | 2.12 |
| #4 | #4 | 132 | 5.2 | 86 | 3.38 |
| #5 | #5 | 143 | 5.6 | 86 | 3.38 |
| | 6158081010 | | 6158082010 | | 6158083010 |
| | 6158085010 | | 6158086010 | | 6158040320 |
| | 6158040330 | | | | |

Sockets 1/4" - 3/8" ■ Square Drive



STANDARD 1/4" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | Ø | DEPTH t | PART NO. | | |
|---------------|------------|-----|------------|----------|------------|------|
| | mm | in. | mm | in. | mm | in. |
| 4.0 | 25 | 1 | 7.5 | 0.30 | 4 | 0.16 |
| 4.5 | 25 | 1 | 8.0 | 0.31 | 4 | 0.16 |
| 5.0 | 25 | 1 | 8.5 | 0.33 | 4 | 0.16 |
| 5.5 | 25 | 1 | 9.0 | 0.35 | 4 | 0.16 |
| 6.0 | 25 | 1 | 9.5 | 0.37 | 5 | 0.20 |
| 7.0 | 25 | 1 | 11.0 | 0.43 | 5 | 0.20 |
| 8.0 | 25 | 1 | 12.0 | 0.47 | 6 | 0.24 |
| 9.0 | 25 | 1 | 13.0 | 0.51 | 7 | 0.28 |
| 10.0 | 25 | 1 | 14.5 | 0.57 | 7 | 0.28 |
| 11.0 | 25 | 1 | 16.0 | 0.63 | 8 | 0.31 |
| 12.0 | 25 | 1 | 17.0 | 0.67 | 8 | 0.31 |
| 13.0 | 25 | 1 | 18.0 | 0.71 | 9 | 0.35 |
| 14.0 | 25 | 1 | 19.0 | 0.75 | 9 | 0.35 |
| | 6158051040 | | 6158051450 | | 6158051550 | |
| | 6158051050 | | 6158051060 | | 6158051100 | |
| | 6158051110 | | 6158051120 | | 6158051130 | |
| | 6158051140 | | | | | |

STANDARD 3/8" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | Ø | DEPTH t | PART NO. | | |
|---------------|------------|------|------------|----------|------------|------|
| | mm | in. | mm | in. | mm | in. |
| 6 | 34 | 1.34 | 10.0 | 0.39 | 5.0 | 0.20 |
| 7 | 34 | 1.34 | 11.0 | 0.43 | 6.5 | 0.26 |
| 10 | 34 | 1.34 | 15.0 | 0.59 | 8.0 | 0.31 |
| 11 | 34 | 1.34 | 16.5 | 0.65 | 9.0 | 0.35 |
| 12 | 34 | 1.34 | 18.0 | 0.71 | 9.0 | 0.35 |
| 13 | 34 | 1.34 | 19.5 | 0.77 | 10.0 | 0.39 |
| 14 | 34 | 1.34 | 20.5 | 0.81 | 10.0 | 0.39 |
| 15 | 34 | 1.34 | 22.0 | 0.87 | 10.0 | 0.39 |
| 16 | 34 | 1.34 | 23.0 | 0.91 | 10.0 | 0.39 |
| 17 | 34 | 1.34 | 24.5 | 0.96 | 10.0 | 0.39 |
| 18 | 34 | 1.34 | 25.5 | 1.00 | 10.0 | 0.39 |
| 19 | 34 | 1.34 | 27.0 | 1.06 | 11.0 | 0.43 |
| 3/8" | 30 | 1.18 | 14.5 | 0.57 | 4.0 | 0.16 |
| 1/2" | 30 | 1.18 | 19.0 | 0.75 | 6.0 | 0.24 |
| 9/16" | 30 | 1.18 | 20.0 | 0.79 | 7.0 | 0.28 |
| 5/8" | 30 | 1.18 | 24.0 | 0.94 | 10.0 | 0.39 |
| | 6158052060 | | 6158052170 | | 6158052180 | |
| | 6158052190 | | 6158042660 | | 6158042680 | |
| | 6158042690 | | 6158042690 | | 4026091900 | |

Sockets



Sockets 1/2" - 3/4" Square Drive



STANDARD 1/2" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|---------------|----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 10 | 38 | 1.50 | 16.0 | 0.63 | 8.0 | 0.31 | 6158053100 |
| 11 | 38 | 1.50 | 17.5 | 0.69 | 9.0 | 0.35 | 6158053110 |
| 12 | 38 | 1.50 | 19.0 | 0.75 | 9.0 | 0.35 | 6158053120 |
| 13 | 38 | 1.50 | 20.5 | 0.81 | 10.0 | 0.39 | 6158053130 |
| 14 | 38 | 1.50 | 22.0 | 0.87 | 10.0 | 0.39 | 6158053140 |
| 15 | 38 | 1.50 | 23.5 | 0.93 | 10.0 | 0.39 | 6158053150 |
| 16 | 38 | 1.50 | 24.5 | 0.96 | 10.0 | 0.39 | 6158053160 |
| 17 | 38 | 1.50 | 26.0 | 1.02 | 10.0 | 0.39 | 6158053170 |
| 18 | 38 | 1.50 | 27.5 | 1.08 | 10.0 | 0.39 | 6158053180 |
| 19 | 38 | 1.50 | 29.0 | 1.14 | 11.0 | 0.43 | 6158053190 |
| 20 | 38 | 1.50 | 30.0 | 1.18 | 12.0 | 0.47 | 6158053200 |
| 21 | 38 | 1.50 | 31.0 | 1.22 | 13.0 | 0.51 | 6158053210 |
| 22 | 38 | 1.50 | 32.5 | 1.28 | 13.0 | 0.51 | 6158053220 |
| 23 | 38 | 1.50 | 34.0 | 1.34 | 15.0 | 0.59 | 6158053230 |
| 24 | 45 | 1.77 | 35.0 | 1.38 | 15.0 | 0.59 | 6158053240 |
| 26 | 45 | 1.77 | 38.0 | 1.50 | 15.0 | 0.59 | 6158053260 |
| 27 | 50 | 1.97 | 39.0 | 1.54 | 16.0 | 0.63 | 6158053270 |
| 29 | 50 | 1.97 | 41.0 | 1.61 | 17.0 | 0.67 | 6158053290 |
| 30 | 50 | 1.97 | 42.5 | 1.67 | 18.0 | 0.71 | 6158053300 |
| 3/8" | 38 | 1.50 | 16.0 | 0.63 | 4.0 | 0.16 | 6158042780 |
| 9/16" | 38 | 1.50 | 22.0 | 0.87 | 7.0 | 0.28 | 6158042810 |
| 3/4" | 38 | 1.50 | 28.7 | 1.13 | 9.5 | 0.37 | 6158053190 |
| 13/16" | 38 | 1.50 | 30.0 | 1.18 | 11.0 | 0.43 | 6158042840 |
| 15/16" | 38 | 1.50 | 34.0 | 1.34 | 13.0 | 0.51 | 6158042860 |
| 11/16" | 38 | 1.50 | 38.7 | 1.52 | 13.0 | 0.51 | 6158053270 |
| 13/16" | 40 | 1.57 | 42.0 | 1.65 | 16.5 | 0.65 | 6158053300 |



STANDARD 3/4" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|---------------|----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 19 | 50 | 1.97 | 32 | 1.26 | 13 | 0.51 | 6158055190 |
| 21 | 50 | 1.97 | 35 | 1.38 | 13 | 0.51 | 6158055210 |
| 22 | 50 | 1.97 | 35 | 1.38 | 13 | 0.51 | 6158055220 |
| 24 | 50 | 1.97 | 39 | 1.54 | 15 | 0.59 | 6158055240 |
| 27 | 54 | 2.13 | 42 | 1.65 | 16 | 0.63 | 6158055270 |
| 30 | 54 | 2.13 | 46 | 1.81 | 18 | 0.71 | 6158055300 |
| 32 | 56 | 2.20 | 49 | 1.93 | 18 | 0.71 | 6158055320 |
| 36 | 56 | 2.20 | 54 | 2.13 | 20 | 0.79 | 6158055360 |
| 41 | 58 | 2.28 | 61 | 2.40 | 22 | 0.87 | 6158055410 |
| 3/4" | 45 | 1.77 | 36 | 1.42 | 9.5 | 0.37 | 6158055190 |
| 11/16" | 48 | 1.89 | 46 | 1.81 | 13.0 | 0.51 | 6158055270 |



EXTENDED 1/2" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|---------------|----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 10 | 78 | 3.07 | 17.0 | 0.67 | 10.0 | 0.39 | 6158063100 |
| 11 | 78 | 3.07 | 18.5 | 0.73 | 11.0 | 0.43 | 6158063110 |
| 13 | 78 | 3.07 | 21.5 | 0.85 | 13.0 | 0.51 | 6158063130 |
| 14 | 78 | 3.07 | 23.0 | 0.91 | 14.0 | 0.55 | 6158063140 |
| 15 | 78 | 3.07 | 23.5 | 0.93 | 15.0 | 0.59 | 6158063150 |
| 16 | 78 | 3.07 | 24.5 | 0.96 | 16.0 | 0.63 | 6158063160 |
| 17 | 78 | 3.07 | 26.0 | 1.02 | 17.0 | 0.67 | 6158063170 |
| 18 | 78 | 3.07 | 27.5 | 1.08 | 18.0 | 0.71 | 6158063180 |
| 19 | 78 | 3.07 | 29.0 | 1.14 | 19.0 | 0.75 | 6158063190 |
| 20 | 78 | 3.07 | 30.0 | 1.18 | 20.0 | 0.79 | 6158063200 |
| 22 | 78 | 3.07 | 32.5 | 1.28 | 23.0 | 0.91 | 6158063220 |
| 24 | 78 | 3.07 | 35.0 | 1.38 | 25.0 | 0.98 | 6158063240 |
| 27 | 78 | 3.07 | 39.0 | 1.54 | 26.0 | 1.02 | 6158063270 |
| 30 | 78 | 3.07 | 43.0 | 1.69 | 30.0 | 1.18 | 6158063300 |
| 3/4" | 78 | 3.07 | 28.7 | 1.13 | 9.5 | 0.37 | 6158063190 |
| 11/16" | 78 | 3.07 | 38.7 | 1.52 | 13.0 | 0.51 | 6158063270 |



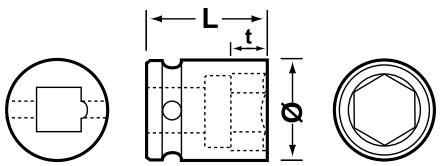
EXTENDED 3/4" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|---------------|-----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 24 | 100 | 3.94 | 40 | 1.57 | 24 | 0.94 | 6158065240 |
| 32 | 100 | 3.94 | 49 | 1.93 | 32 | 1.26 | 6158065320 |
| 36 | 100 | 3.94 | 54 | 2.13 | 32 | 1.26 | 6158065360 |



Sockets

Sockets 1" Square Drive



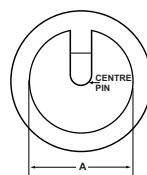
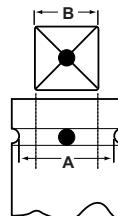
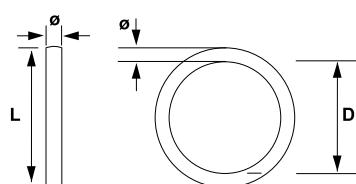
STANDARD 1" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|---------------|----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 24 | 59 | 2.32 | 38 | 1.50 | 15.0 | 0.59 | 6158056240 |
| 27 | 59 | 2.32 | 44 | 1.73 | 16.0 | 0.63 | 6158056270 |
| 30 | 61 | 2.40 | 50 | 1.97 | 18.0 | 0.71 | 6158056300 |
| 32 | 61 | 2.40 | 52 | 2.05 | 19.0 | 0.75 | 6158056320 |
| 33 | 61 | 2.40 | 54 | 2.13 | 19.0 | 0.75 | 6158056330 |
| 36 | 65 | 2.56 | 57 | 2.24 | 23.0 | 0.91 | 6158056360 |
| 41 | 70 | 2.76 | 63 | 2.48 | 25.0 | 0.98 | 6158056410 |
| 42 | 70 | 2.76 | 64 | 2.52 | 25.0 | 0.98 | 6158056420 |
| 46 | 75 | 2.95 | 69 | 2.72 | 30.0 | 1.18 | 6158056460 |
| 55 | 83 | 3.27 | 81 | 3.19 | 33.0 | 1.30 | 6158056550 |
| 65 | 86 | 3.39 | 94 | 3.70 | 38.0 | 1.50 | 6158056650 |
| $15/16"$ | 55 | 2.17 | 41 | 1.61 | 13.0 | 0.51 | 6158043180 |

EXTENDED 1" SQUARE DRIVE IMPACT SOCKETS

| SIZE ON FLATS | L | | \emptyset | | DEPTH t | | PART NO. |
|-----------------|-----|------|-------------|------|---------|------|------------|
| | mm | in. | mm | in. | mm | in. | |
| 24 | 100 | 3.94 | 39 | 1.54 | 24.0 | 0.94 | 6158066240 |
| 30 | 100 | 3.94 | 51 | 2.01 | 30.0 | 1.18 | 6158066300 |
| 32 | 100 | 3.94 | 53 | 2.09 | 30.0 | 1.18 | 6158066320 |
| 33 | 100 | 3.94 | 54 | 2.13 | 30.0 | 1.18 | 6158066330 |
| 38 | 100 | 3.94 | 59 | 2.32 | 33.0 | 1.30 | 6158066380 |
| 41 | 100 | 3.94 | 63 | 2.48 | 35.0 | 1.38 | 6158066410 |
| 46 | 115 | 4.53 | 69 | 2.72 | 35.0 | 1.38 | 6158066460 |
| 50 | 125 | 4.92 | 75 | 2.95 | 38.0 | 1.50 | 6158066500 |
| 60 | 125 | 4.92 | 87 | 3.43 | 40.0 | 1.57 | 6158066600 |
| $2\frac{3}{4}"$ | 110 | 4.33 | 96 | 3.78 | 38.0 | 1.50 | 6158043400 |

Socket Retention



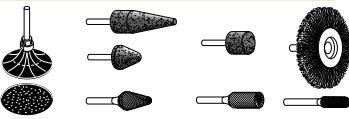
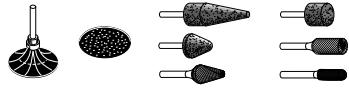
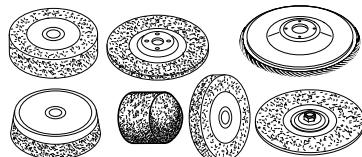
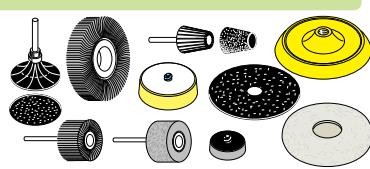
PIN AND O-RING RETENTION

| HEX SIZE | \square | L | \emptyset | PIN | D | \emptyset | O RING | | | | |
|----------|----------------|-----|-------------|-----|------|-------------|----------|------|------|------------|------------|
| | mm | in. | mm | in. | mm | in. | PART NO. | | | | |
| 6-12 | $3/8$ | 16 | 0.64 | 3 | 0.12 | 6158043880 | 13 | 0.52 | 3.5 | 0.14 | 6158044020 |
| 13-19 | $3/8$ | 16 | 0.64 | 3 | 0.12 | 6158043880 | 16 | 0.64 | 3.5 | 0.14 | 6158044030 |
| 10-14 | $1/2$ | 20 | 0.78 | 3 | 0.12 | 6158043900 | 19 | 0.76 | 4.0 | 0.16 | 6158044040 |
| 15-30 | $1/2$ | 25 | 0.98 | 3 | 0.12 | 6158043910 | 24 | 0.96 | 4.0 | 0.16 | 6158044050 |
| 18-41 | $3/4$ | 35 | 1.37 | 4 | 0.16 | 6158043920 | 36 | 1.44 | 5.0 | 0.19 | 6158044060 |
| 24-65 | 1 | 45 | 1.77 | 5 | 0.19 | 6158043930 | 45 | 1.77 | 7.0 | 0.28 | 6158044070 |
| 50-90 | $1\frac{1}{2}$ | | | | | 75 | 2.95 | 10.0 | 0.39 | 6158044080 | |

SOCKET RETAINERS FOR IMPACT WRENCHES

| RET. RING PART NO. | INSIDE Ø OF RET. RING | FOR USE ON SQUARE DRIVE |
|--------------------|-----------------------|-------------------------|
| C-155467 | $1\frac{1}{4}"$ | $3/4"$ |
| C-155468 | $1\frac{7}{16}"$ | $3/4"$ |
| C-134690 | $1\frac{5}{8}"$ | $3/4"$ |
| C-134691 | $1\frac{3}{4}"$ | $3/4"$ |
| C-155585 | 2" | $3/4"$ |
| C-155470 | $1\frac{3}{4}"$ | 1" |
| C-155471 | 2" | 1" |
| C-155472 | $2\frac{1}{8}"$ | 1" |
| C-134692 | $2\frac{1}{4}"$ | 1" |
| C-155473 | $2\frac{1}{2}"$ | 1" |
| C-134693 | $2\frac{7}{8}"$ | $1\frac{1}{2}"$ |
| C-134694 | $3\frac{3}{8}"$ | $1\frac{1}{2}"$ |
| C-134695 | $3\frac{7}{8}"$ | $1\frac{1}{2}"$ |
| C-134696 | $4\frac{3}{8}"$ | $1\frac{1}{2}"$ |

Removal Tools - Selection Guide

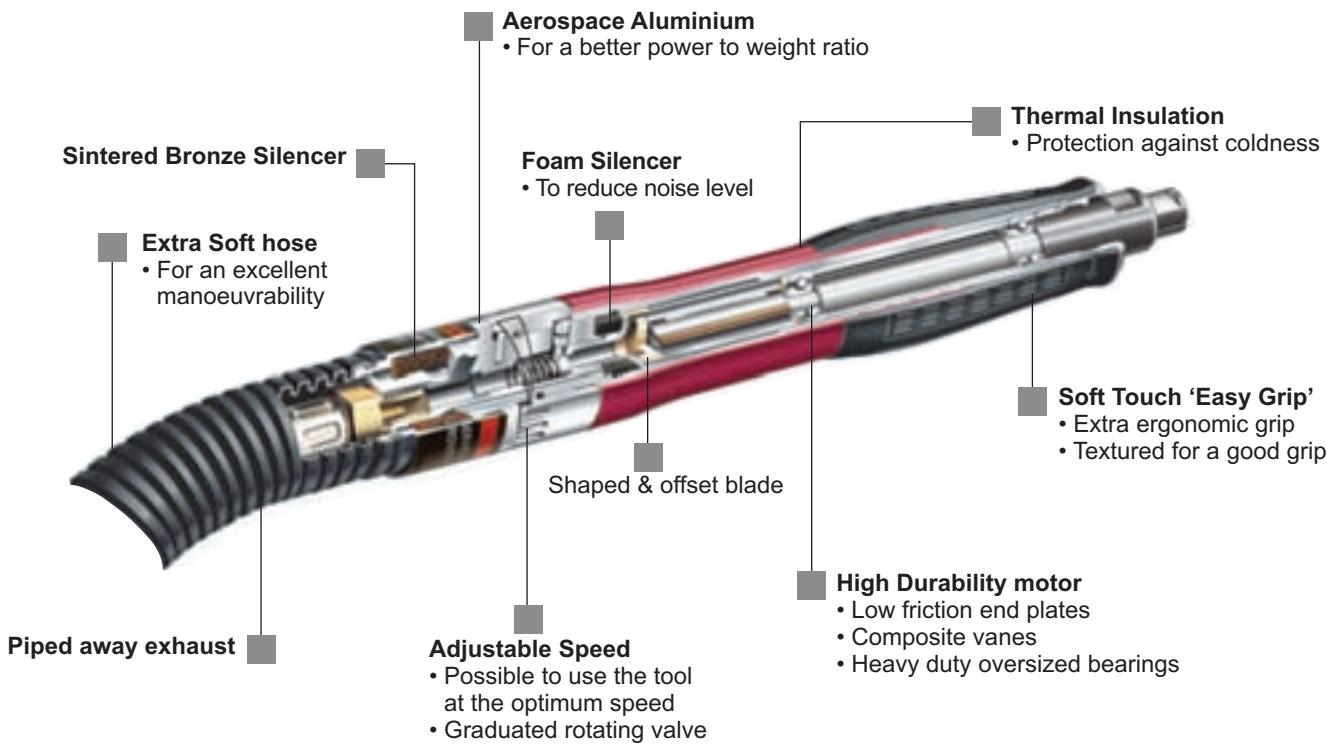
| TOOL TYPE | ACCESSORIES | PAGE |
|--|---|---------|
| GRINDERS: for carbide burrs, mounted points & sanding discs |  | 144-157 |
| ROUTERS |  | 158 |
| COLLET GRINDER ACCESSORIES |  | 159 |
| GRINDERS: for cone wheels, type 1 wheels, depressed centre wheels, cup wheels, cut-off wheels, diamond discs, flap wheels |  | 160-181 |
| SANDERS: for expandable wheels, flap wheels, brushes, abrasive discs, sheepskin, water sanding |  | 182-195 |
| BRUSHING MACHINES: for cup brushes, radial brushes |  | 196-197 |
| DUST EXTRACTION SYSTEMS: for straight and angle grinders ORBITAL SANDERS: for angle and vertical sanders |  | 198-205 |
| RANDOM ORBITAL SANDERS AND POLISHERS: for abrasive discs and polishing accessories ORBITAL SANDERS: for abrasive sheets |  | 206-219 |
| BELT SANDERS |  | 220-221 |
| AIR SCRIBE, CHIPPERS, CHISEL SCALERS, NEEDLE SCALERS |  | 222-231 |



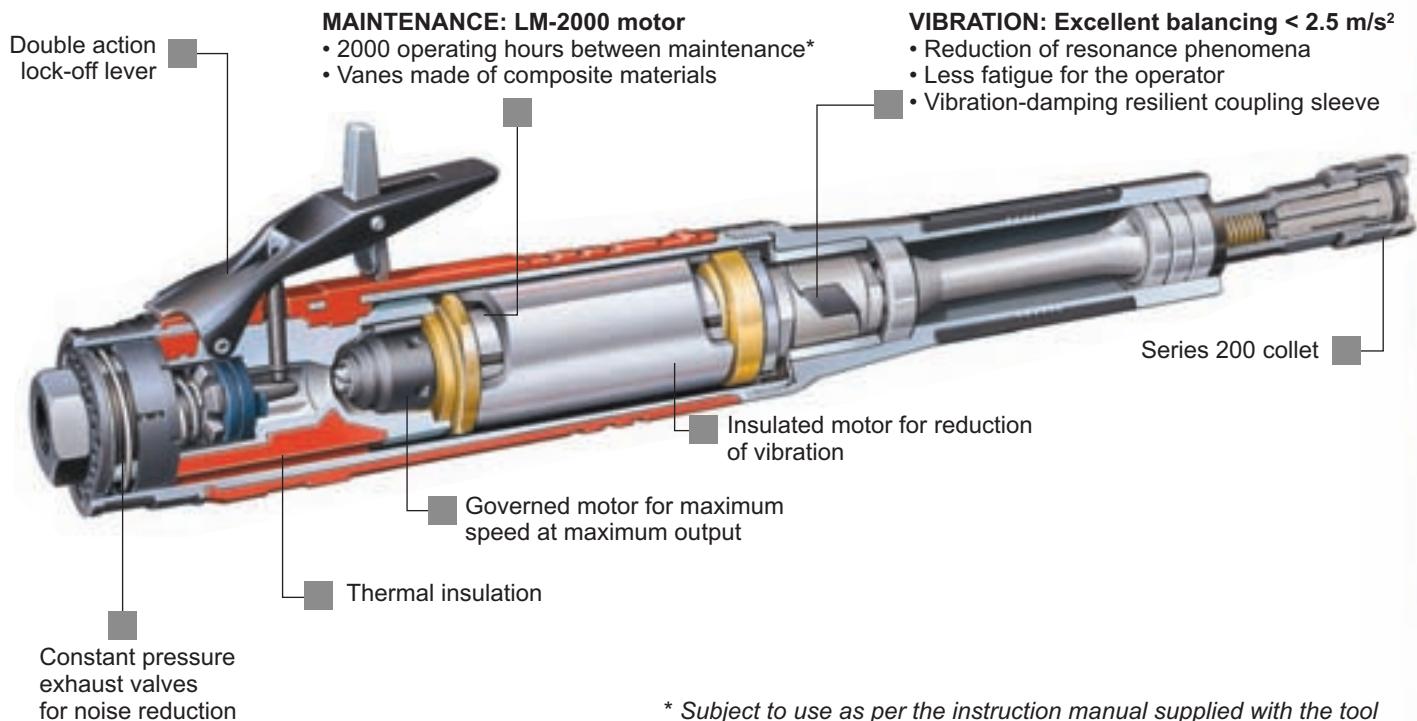
Desoutter



Grinders for carbide burrs, mounted points and sanding discs

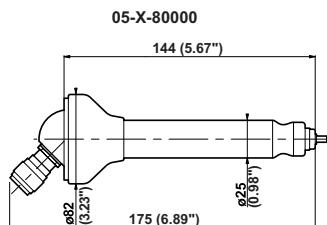
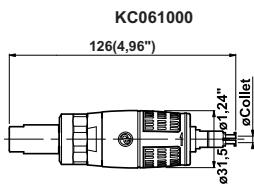
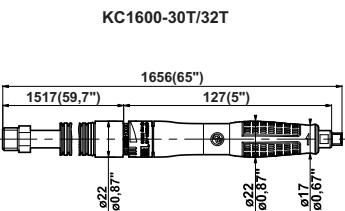
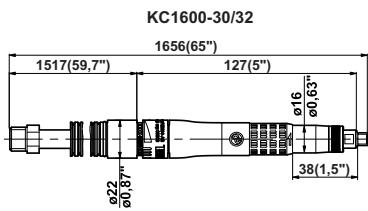


44 to 1600 Watts (0.06 to 2.15 hp) range

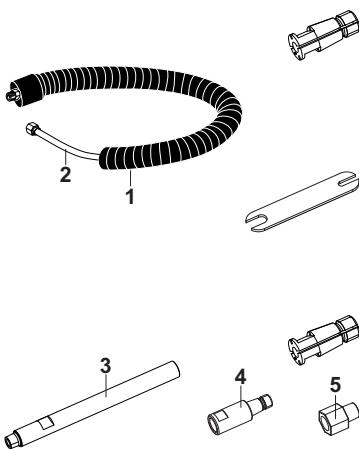


* Subject to use as per the instruction manual supplied with the tool

Accessories



KC1600-30 / KC1600-30T / KC1600-32 / KC1600-32T



ACCESSORIES INCLUDED

ITEM

- Collet ø 3mm
- Collet ø 3.17mm (1/8")
- 1 Exhaust kit - L = 1m (39.4")
- 2 Mounted inlet hose 1/4" BSP - ø 6mm (1/4") - L = 1.5m (59")
- 2 Mounted inlet hose 1/4" NPT - ø 6mm (1/4") - L = 1.5m (59")
- Spanner (Qty 2)
- Carrying case (for T version only)

KC1600-30 KC1600-32

KC1600-30T KC1600-32T

205 047 961 3 205 047 962 3

615 396 405 0 615 396 405 0

615 875 119 0 615 875 118 0

205 047 965 3 205 047 965 3

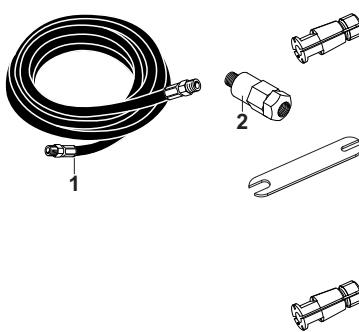
P137979 P137979

OPTIONAL ACCESSORIES

ITEM

- | | PART NO. |
|--|---------------|
| • Collet ø 2.38mm (3/32") | 205 048 059 3 |
| 3 Machine extension - L = 150mm (5.9") | 615 595 330 0 |
| 4 Collet extension - L = 20mm (0.79") | 615 595 329 0 |
| 5 Adaptor 1/4" BSP - 1/4" NPT female | 181523 |

KC061000-30 / KC061000-32 / 05-X-80000



ACCESSORIES INCLUDED

ITEM

- | | KC061000-30 | KC061000-32 | 05-X-80000 |
|--|---------------|---------------|------------|
| • Collet ø 3mm | 205 047 961 3 | | 9812 |
| • Collet ø 3.17mm (1/8") | | 205 047 962 3 | 9782 |
| 1 Complete inlet hose 1/8" M - 1/4" M, ø 5mm (3/16") L = 2.40m (94.5") | P043886 | P043886 | |
| 2 Filter 1/4" F-1/4" M. NPT | P056381 | P056381 | |
| • Spanner (Qty 2) | 205 047 965 3 | 205 047 965 3 | |

OPTIONAL ACCESSORIES

- | | KC016000... | 05-X-80000 |
|---------------------------|---------------|------------|
| • Collet ø 2.38mm (3/32") | 205 048 059 3 | 9792 |

Grinders for carbide burrs and mounted points

44 to 100 Watts (0.06 to 0.13 hp) - 60000 to 100000 rpm



A



B



C



D



E

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION | | AIR INLET. THREAD | HOSE INT Ø |
|---------|-------|-------------|------------|---------------------|-------|----|--------|---------|-----------------|-----|-------------------|------------|
| | | | rpm | mm in. | W | hp | kg lb. | l/s cfm | | in. | mm | in. |

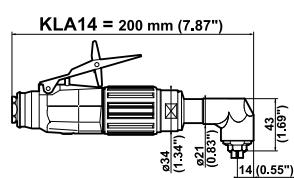
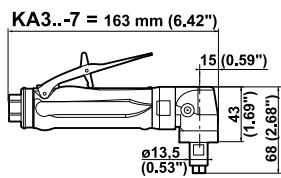
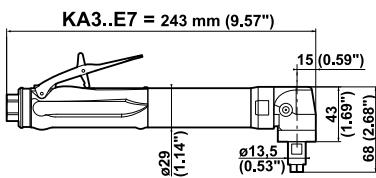
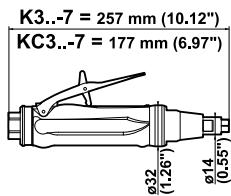
PENCIL DIE GRINDERS

| | | | | | | | | | | | | | |
|---|------------|---------------|-------|----------|-----|------|------|------|-----|------|---------|---|-----|
| A | KC1600-30T | 615 170 313 0 | 60000 | 3.00 | 100 | 0.13 | 0.15 | 0.33 | 4.9 | 10.4 | 1/4 BSP | 6 | 1/4 |
| A | KC1600-32T | 615 170 314 0 | 60000 | 3.17 1/8 | 100 | 0.13 | 0.15 | 0.33 | 4.9 | 10.4 | 1/4 NPT | 6 | 1/4 |
| B | KC1600-30 | 615 170 315 0 | 60000 | 3.00 | 100 | 0.13 | 0.15 | 0.33 | 4.9 | 10.4 | 1/4 BSP | 6 | 1/4 |
| B | KC1600-32 | 615 170 316 0 | 60000 | 3.17 1/8 | 100 | 0.13 | 0.15 | 0.33 | 4.9 | 10.4 | 1/4 NPT | 6 | 1/4 |

TURBINE GRINDERS

| | | | | | | | | | | | | | |
|---|-------------|---------------|--------|----------|----|------|------|------|-----|------|-----|---|------|
| C | KC061000-30 | 205 146 638 4 | 100000 | 3.00 | 44 | 0.06 | 0.24 | 0.53 | 8.5 | 18.0 | 1/4 | 5 | 3/16 |
| C | KC061000-32 | 205 146 707 4 | 100000 | 3.17 1/8 | 44 | 0.06 | 0.24 | 0.53 | 8.5 | 18.0 | 1/4 | 5 | 3/16 |
| D | 05-X-80000 | 258984 | 80000 | 3.17 1/8 | 75 | 0.1 | 0.3 | 0.66 | 2.8 | 5.9 | 1/8 | 5 | 3/16 |
| E | 05-X-80000 | 258564 | 80000 | 3.17 1/8 | 75 | 0.1 | 0.3 | 0.66 | 2.8 | 5.9 | 1/8 | 5 | 3/16 |

Accessories



K3..-7 / KC3..-7 / KA3..E7 / KA3..-7 / KLA14

ACCESSORIES INCLUDED

K3.. / KC3..
KA3..

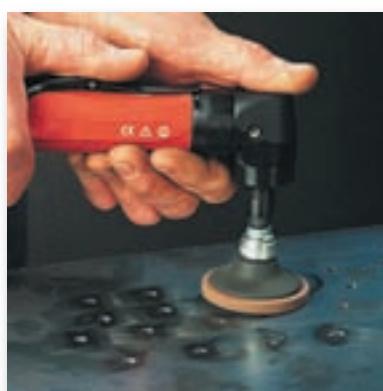
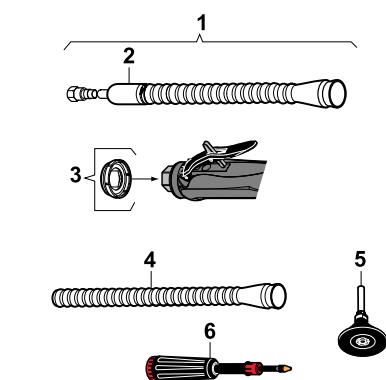
| | | |
|--|---|--|
| <ul style="list-style-type: none"> CNOMO collet Ø 6mm Exhaust hose L = 0.8m (31") 1/4" air hose nipple for 8mm (5/16") ID hose 1/4" air hose nipple for 6mm (1/4") ID hose Flat wrench, 10mm (25/64") Flat wrench, 11mm (7/16") Flat wrench, 14mm | 615 526 046 0 615 875 106 0 615 704 019 0 615 705 009 0 615 801 002 0 615 801 003 0 615 801 005 0 | 615 526 079 0 615 526 100 0 615 705 009 0 615 801 002 0 615 801 003 0 615 801 005 0 |
|--|---|--|

OPTIONAL ACCESSORIES

A
K3.. / KC3..
KA3..

B
KLA14

| ITEM | A K3.. / KC3.. KA3.. | B KLA14 |
|---------------------------------------|----------------------------|---------------|
| • Collet Ø 2mm | | 615 526 066 0 |
| • CNOMO collet Ø 2.5mm | 615 526 089 0 | 615 526 068 0 |
| • CNOMO collet Ø 3mm | 615 526 044 0 | 615 526 069 0 |
| • CNOMO collet Ø 3.2mm (1/8") | 615 526 045 0 | |
| • Collet Ø 3.5mm | | 615 526 070 0 |
| • CNOMO collet Ø 4mm (5/32") | 615 526 090 0 | 615 526 071 0 |
| • CNOMO collet Ø 4.5mm | | 615 526 073 0 |
| • CNOMO collet Ø 5mm | 615 526 092 0 | 615 526 075 0 |
| • Collet Ø 5.5mm | | 615 526 077 0 |
| • CNOMO collet Ø 6.4mm (1/4") | 615 526 047 0 | |
| • Collet Ø 6.5mm | | 615 526 081 0 |
| • Collet Ø 7mm | | 615 526 083 0 |
| • Collet Ø 7.5mm | | 615 526 084 0 |
| • Collet Ø 8mm (5/16") | | 615 526 088 0 |
| 1 Complete silencer kit | 615 396 101 0 | 615 399 423 0 |
| 2 Silencer | 615 574 028 0 | |
| 3 Clippable silencer | 615 396 124 0 | |
| 4 Exhaust hose L = 0.8m (31") | | 615 875 106 0 |
| 5 Backing pad Ø 50mm | | 615 804 098 0 |
| 6 Grease gun (capacity 24g - 0.8 oz.) | 615 990 149 0 | |
| • Grease for bevel gear (1kg - 2.2lb) | 615 990 148 0 | |



Grinders for carbide burrs, mounted points and sanding discs

300 - 375 Watts (0.4 - 0.5 hp) - 12000 to 40000 rpm

Supplied with CNOMO collet, ø 6mm



A



B



C



D



E

K3..-7 / KC3..-7 / KA3..E7 / KA3..-7
CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET. THREAD | HOSE INT Ø |
|------------|-------|----------------|---------------|------------------------|-------|----|--------|---|-------------------------------------|----|-------------------------------------|-----|-------------------------|------------------|
| | | | | | rpm | mm | in. | W | hp | kg | lb. | l/s | cfm | l/s |

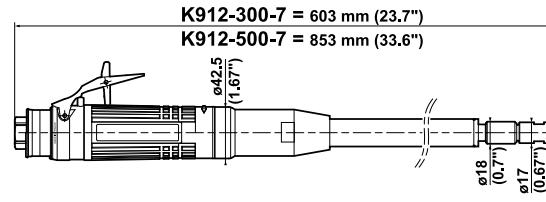
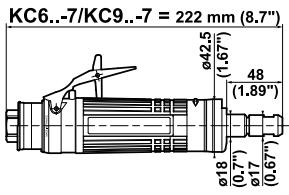
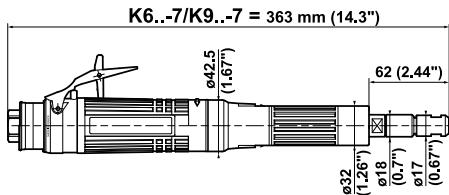
STRAIGHT GRINDERS

| | | | | | | | | | | | | | | | | |
|---|---------|---------------|-------|-----|-----|-----|-----|------|------|-----|------|------|----|-----|---|------|
| A | K340-7 | 615 170 036 0 | 40000 | 6.4 | 1/4 | 375 | 0.5 | 0.58 | 1.28 | 7.5 | 16.0 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| A | K331-7 | 615 170 035 0 | 31000 | 6.4 | 1/4 | 375 | 0.5 | 0.58 | 1.28 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| A | K325-7 | 615 170 034 0 | 25000 | 6.4 | 1/4 | 375 | 0.5 | 0.58 | 1.28 | 3.5 | 7.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| A | K320-7 | 615 170 033 0 | 20000 | 6.4 | 1/4 | 375 | 0.5 | 0.58 | 1.28 | 2.5 | 5.0 | 8.0 | 17 | 1/4 | 8 | 5/16 |
| B | KC340-7 | 615 170 032 0 | 40000 | 6.4 | 1/4 | 375 | 0.5 | 0.40 | 0.88 | 7.5 | 16.0 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| B | KC331-7 | 615 170 031 0 | 31000 | 6.4 | 1/4 | 375 | 0.5 | 0.40 | 0.88 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| B | KC325-7 | 615 170 030 0 | 25000 | 6.4 | 1/4 | 375 | 0.5 | 0.40 | 0.88 | 3.5 | 7.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| B | KC320-7 | 615 170 029 0 | 20000 | 6.4 | 1/4 | 375 | 0.5 | 0.40 | 0.88 | 2.5 | 5.0 | 8.0 | 17 | 1/4 | 8 | 5/16 |

ANGLE GRINDERS

| | | | | | | | | | | | | | | | | |
|---|---------|---------------|-------|-----|-----|-----|-----|------|------|-----|------|------|----|-----|---|------|
| C | KA320E7 | 615 170 047 0 | 20000 | 6.4 | 1/4 | 375 | 0.5 | 0.60 | 1.32 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| C | KA312E7 | 615 170 039 0 | 12000 | 6.4 | 1/4 | 375 | 0.5 | 0.60 | 1.32 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 | 5/16 |
| D | KA320-7 | 615 170 043 0 | 20000 | 6.4 | 1/4 | 375 | 0.5 | 0.50 | 1.10 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| D | KA312-7 | 615 170 037 0 | 12000 | 6.4 | 1/4 | 375 | 0.5 | 0.50 | 1.10 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 | 5/16 |

Accessories



K6..-7 / K9..-7 / KC6..-7 / KC9..-7

ACCESSORIES INCLUDED

PART NO.

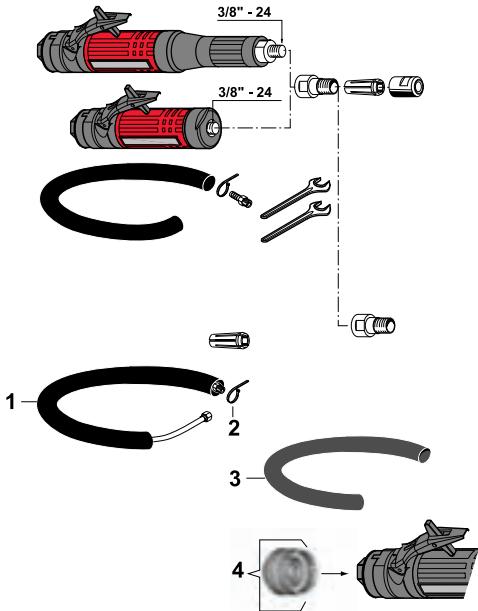
- Collet-holder extension L = 28mm (1.1") 615 523 019 0
- CNOMO collet ø 6mm 615 526 049 0
- Exhaust hose L = 1.5m (60") 615 875 113 0
- Clamp 615 873 415 0
- 3/8" air hose nipple for 10mm (3/8") ID hose 615 704 017 0
- Flat wrench, 14mm (Qty 2) 615 801 005 0

OPTIONAL ACCESSORIES

ITEM

PART NO.

- Collet-holder extension L = 28mm (1.1") 615 523 019 0
- CNOMO collet ø 3mm 615 526 048 0
- CNOMO collet ø 6.35mm (1/4") 615 526 050 0
- CNOMO collet ø 8mm 615 526 051 0
- 1 Complete silencer kit 615 396 166 0
- 2 Clamp 615 873 115 0
- 3 Reinforced cloth-lined exhaust hose L = 0.75m (30") 615 875 116 0
- 4 Clippable silencer 615 396 655 0



Grinders for carbide burrs and mounted points

600 - 900 Watts (0.8 - 1.21 hp) - 12000 to 28000 rpm

Supplied with CNOMO collet, ø 6mm



A



B



C



D

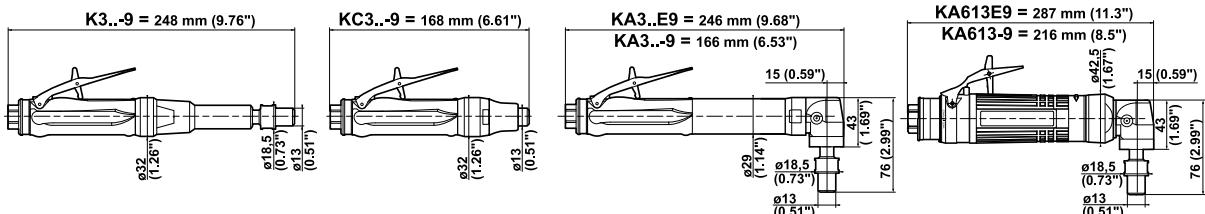
K6..-7 / KC6..-7 / K9..-7 / KC9..-7
CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET. THREAD | HOSE INT Ø | |
|------------|------------|----------------|---------------|------------------------|------|-------|------|--------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------|------------------|-----|
| | | | | rpm | mm | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm |
| A | K628-7 | 615 170 107 0 | 28000 | 8 | 5/16 | 600 | 0.80 | 1.3 | 2.9 | 16 | 34 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K624-7 | 615 170 106 0 | 24000 | 8 | 5/16 | 600 | 0.80 | 1.3 | 2.9 | 10 | 21 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K922-7 | 615 170 119 0 | 22000 | 8 | 5/16 | 900 | 1.21 | 1.4 | 3.1 | 13 | 28 | 18 | 38 | 3/8 | 10 | 3/8 |
| A | K619-7 | 615 170 105 0 | 19000 | 8 | 5/16 | 600 | 0.80 | 1.3 | 2.9 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K918-7 | 615 170 117 0 | 18000 | 8 | 5/16 | 900 | 1.21 | 1.4 | 3.1 | 10 | 21 | 18 | 38 | 3/8 | 10 | 3/8 |
| A | K615-7 | 615 170 104 0 | 15000 | 8 | 5/16 | 600 | 0.80 | 1.3 | 2.9 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K915-7 | 615 170 114 0 | 15000 | 8 | 5/16 | 900 | 1.21 | 1.4 | 3.1 | 8 | 17 | 17 | 36 | 3/8 | 10 | 3/8 |
| A | K912-7 | 615 170 110 0 | 12000 | 8 | 5/16 | 900 | 1.21 | 1.4 | 3.1 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| B | KC628-7 | 615 170 126 0 | 28000 | 8 | 5/16 | 600 | 0.80 | 0.9 | 2.0 | 16 | 34 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC624-7 | 615 170 125 0 | 24000 | 8 | 5/16 | 600 | 0.80 | 0.9 | 2.0 | 10 | 21 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC922-7 | 615 170 130 0 | 22000 | 8 | 5/16 | 900 | 1.21 | 1.0 | 2.2 | 13 | 28 | 18 | 38 | 3/8 | 10 | 3/8 |
| B | KC619-7 | 615 170 124 0 | 19000 | 8 | 5/16 | 600 | 0.80 | 0.9 | 2.0 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC918-7 | 615 170 129 0 | 18000 | 8 | 5/16 | 900 | 1.21 | 1.0 | 2.2 | 10 | 21 | 18 | 38 | 3/8 | 10 | 3/8 |
| B | KC615-7 | 615 170 123 0 | 15000 | 8 | 5/16 | 600 | 0.80 | 0.9 | 2.0 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC915-7 | 615 170 128 0 | 15000 | 8 | 5/16 | 900 | 1.21 | 1.0 | 2.2 | 8 | 17 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KC912-7 | 615 170 127 0 | 12000 | 8 | 5/16 | 900 | 1.21 | 1.0 | 2.2 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| C | K912-300-7 | 615 170 108 0 | 12000 | 8 | 5/16 | 900 | 1.21 | 2.1 | 4.6 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| D | K912-500-7 | 615 170 109 0 | 12000 | 8 | 5/16 | 900 | 1.21 | 2.7 | 5.9 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |

Accessories



K3..-9 / KC3..-9 / KA3..E9 / KA3..-9 / KA613E9 / KA613-9

ACCESSORIES INCLUDED

| | |
|----------------------------------|--------------------|
| K3..-/KC3..-9 KA3..E9/KA3..-9 | KA613E9 KA613-9 |
|----------------------------------|--------------------|

- Series 300 resilient collet, Ø 0.4 to 1.2mm
- Exhaust hose L = 0.8m (31")
- Exhaust hose L = 1.5m (60")
- Clamp
- 1/4" air hose nipple for 8mm (5/16") ID hose
- 3/8" air hose nipple for 10mm (3/8") ID hose
- Flat wrench, 11mm (7/16")
- Flat wrench, 17mm (11/16")

615 526 059 0 615 526 059 0

615 875 106 0 615 875 113 0

615 873 415 0 615 873 415 0

615 704 019 0 615 704 017 0

615 801 003 0 615 801 003 0

615 801 032 0 615 801 032 0

OPTIONAL ACCESSORIES

| | |
|----------------------------------|--------------------|
| K3..-/KC3..-9 KA3..E9/KA3..-9 | KA613E9 KA613-9 |
|----------------------------------|--------------------|

- Series 300 resilient collet, Ø 0.4 to 1.2mm
- Series 300 resilient collet, Ø 1.2 to 2mm
- Series 300 resilient collet, Ø 1.7 to 2.5mm
- Series 300 resilient collet, Ø 2.4 to 3.2mm (1/8")
- Series 300 resilient collet, Ø 3.16 to 3.96mm
- Series 300 resilient collet, Ø 3.95 to 4.75mm
- Series 300 resilient collet, Ø 4.75 to 5.55mm
- 1 Complete silencer kit
- 2 Clamp
- 3 Silencer
- 4 Clippable silencer
- 5 Reinforced cloth-lined exhaust hose L = 0.75m (30")
- 6 Grease gun (capacity 24g - 0.8 oz.)
- Grease for bevel gear (1kg - 2.2 lb.)

615 526 052 0 615 526 052 0

615 526 053 0 615 526 053 0

615 526 054 0 615 526 054 0

615 526 055 0 615 526 055 0

615 526 056 0 615 526 056 0

615 526 057 0 615 526 057 0

615 526 058 0 615 526 058 0

615 396 101 0 615 396 166 0

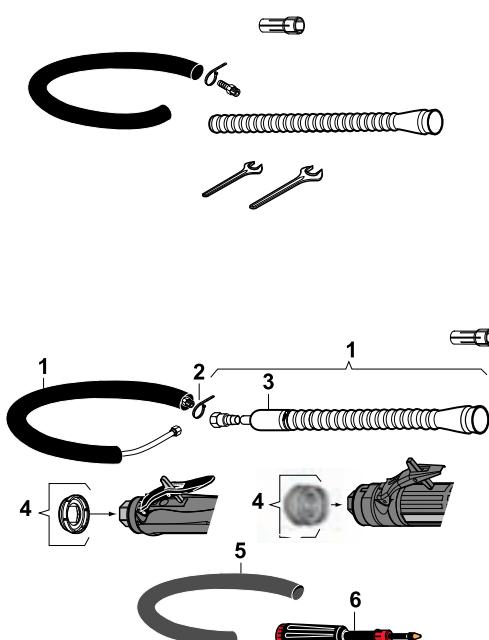
615 574 028 0 615 873 115 0

615 396 124 0 615 396 655 0

615 875 116 0 615 875 116 0

615 990 149 0 615 990 149 0

615 990 148 0 615 990 148 0



PLANING A WELD



SEMI-FINISHING/FINISHING



TRIMMING



CLEANING



TRIMMING - MACHINE



GRINDING

Grinders for carbide burrs, mounted points and sanding discs

375 - 600 Watts (0.5 - 0.8 hp) - 9000 to 40000 rpm

Supplied with series 300 resilient collet, ø 5.55 to 6.35mm (1/4")



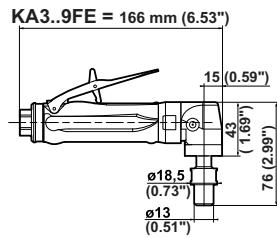
K3..-9 / KC3..-9 / KA3..(E)9 / KA613(E)9
Series 300 collet



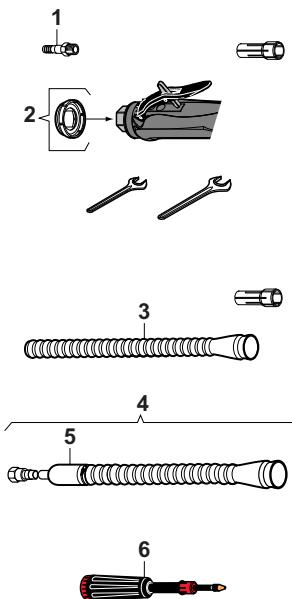
Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET. THREAD | HOSE INT Ø | |
|--------------------------|---------|----------------|---------------|------------------------|-------|-----|--------|------|-------------------------------------|------|-------------------------------------|------|-------------------------|------------------|--------|
| | | | | | rpm | mm | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm |
| STRAIGHT GRINDERS | | | | | | | | | | | | | | | |
| A | K340-9 | 615 170 139 0 | 40000 | 6.35 | 1/4 | 375 | 0.5 | 0.57 | 1.26 | 7.5 | 16.0 | 10.0 | 21 | 1/4 | 8 5/16 |
| A | K331-9 | 615 170 140 0 | 31000 | 6.35 | 1/4 | 375 | 0.5 | 0.57 | 1.26 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 5/16 |
| A | K325-9 | 615 170 141 0 | 25000 | 6.35 | 1/4 | 375 | 0.5 | 0.57 | 1.26 | 3.5 | 7.5 | 9.5 | 20 | 1/4 | 8 5/16 |
| A | K320-9 | 615 170 142 0 | 20000 | 6.35 | 1/4 | 375 | 0.5 | 0.57 | 1.26 | 2.5 | 5.0 | 8.0 | 17 | 1/4 | 8 5/16 |
| B | KC340-9 | 615 170 143 0 | 40000 | 6.35 | 1/4 | 375 | 0.5 | 0.38 | 0.84 | 7.5 | 16.0 | 10.0 | 21 | 1/4 | 8 5/16 |
| B | KC331-9 | 615 170 144 0 | 31000 | 6.35 | 1/4 | 375 | 0.5 | 0.38 | 0.84 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 5/16 |
| B | KC325-9 | 615 170 145 0 | 25000 | 6.35 | 1/4 | 375 | 0.5 | 0.38 | 0.84 | 3.5 | 7.5 | 9.5 | 20 | 1/4 | 8 5/16 |
| B | KC320-9 | 615 170 146 0 | 20000 | 6.35 | 1/4 | 375 | 0.5 | 0.38 | 0.84 | 2.5 | 5.0 | 8.0 | 17 | 1/4 | 8 5/16 |
| B | KC318-9 | 615 170 196 0 | 18000 | 6.35 | 1/4 | 375 | 0.5 | 0.38 | 0.84 | 2.5 | 5.0 | 8.0 | 17 | 1/4 | 8 5/16 |
| ANGLE GRINDERS | | | | | | | | | | | | | | | |
| C | KA320E9 | 615 170 146 0 | 20000 | 6.35 | 1/4 | 375 | 0.5 | 0.61 | 1.35 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 5/16 |
| C | KA312E9 | 615 170 147 0 | 12000 | 6.35 | 1/4 | 375 | 0.5 | 0.61 | 1.35 | 3.0 | 6.5 | 9.0 | 9 | 1/4 | 8 5/16 |
| D | KA320-9 | 615 170 148 0 | 20000 | 6.35 | 1/4 | 375 | 0.5 | 0.51 | 1.13 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 5/16 |
| D | KA318-9 | 615 170 461 0 | 18000 | 6.35 | 1/4 | 375 | 0.5 | 0.51 | 1.13 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 5/16 |
| D | KA312-9 | 615 170 149 0 | 12000 | 6.35 | 1/4 | 375 | 0.5 | 0.51 | 1.13 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 5/16 |
| D | KA309-9 | 615 170 266 0 | 9000 | 6.35 | 1/4 | 375 | 0.5 | 0.50 | 1.10 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 5/16 |
| E | KA613E9 | 615 170 136 0 | 13000 | 6.35 | 1/4 | 600 | 0.8 | 1.40 | 3.10 | 10.0 | 21.0 | 15.0 | 32 | 3/8 | 10 3/8 |
| F | KA613-9 | 615 170 135 0 | 13000 | 6.35 | 1/4 | 600 | 0.8 | 1.10 | 2.40 | 10.0 | 21.0 | 15.0 | 32 | 3/8 | 10 3/8 |

Accessories



KA320-9FE / KA312-9FE



ACCESSORIES INCLUDED

| ITEM | PART NO. |
|--|---------------|
| • Series 300 resilient collet, ø 5.55 to 6.35mm (1/4") | 615 526 059 0 |
| 1 1/4" air hose nipple for 8mm (5/16") ID hose | 615 704 019 0 |
| 2 Clippable silencer | 615 396 124 0 |
| • Flat wrench, 11mm (7/16") | 615 801 003 0 |
| • Flat wrench, 17mm (11/16") | 615 801 032 0 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|---------------|
| • Series 300 resilient collet, ø 0.4 to 1.2 mm (3/64") | 615 526 052 0 |
| • Series 300 resilient collet, ø 1.2 to 2 mm (5/64") | 615 526 053 0 |
| • Series 300 resilient collet, ø 1.7 to 2.5 mm (3/32") | 615 526 054 0 |
| • Series 300 resilient collet, ø 2.4 to 3.2 mm (1/8") | 615 526 055 0 |
| • Series 300 resilient collet, ø 3.16 to 3.96 mm (5/32") | 615 526 056 0 |
| • Series 300 resilient collet, ø 3.95 to 4.75 mm (3/16") | 615 526 057 0 |
| • Series 300 resilient collet, ø 4.75 to 5.55 mm (7/32") | 615 526 058 0 |
| 3 Exhaust hose L = 0.8 m (31") | 615 875 106 0 |
| 4 Complete silencer kit | 615 396 101 0 |
| 5 Silencer | 615 574 028 0 |
| 6 Grease gun (capacity 24g - 0.8 oz.) | 615 990 149 0 |
| • Grease for bevel gear (1 kg - 2.2 lb.) | 615 990 148 0 |

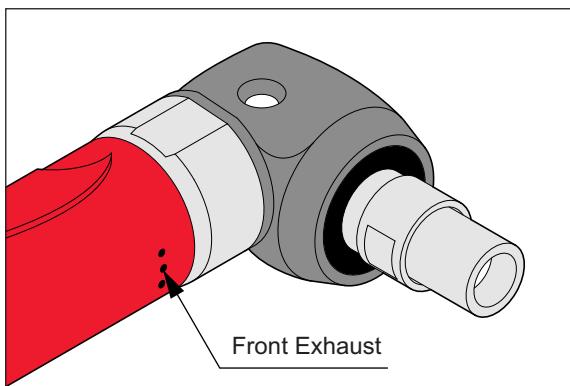
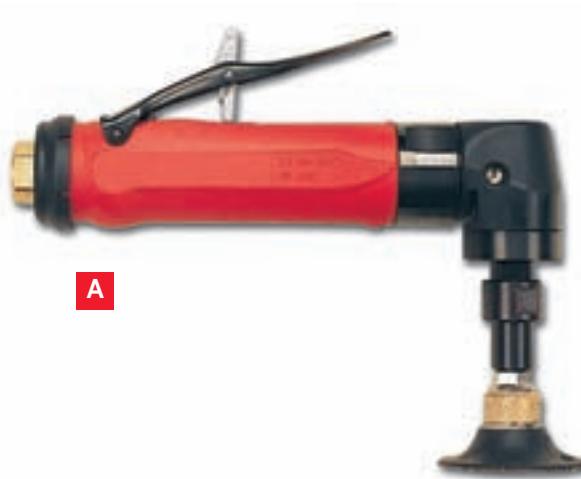


Grinders for carbide burrs, mounted points and sanding discs

375 Watts (0.5 hp) - 12000 - 20000 rpm

Supplied with series 300 resilient collet, ø 5.55 to 6.35 mm (1/4")

Front Exhaust



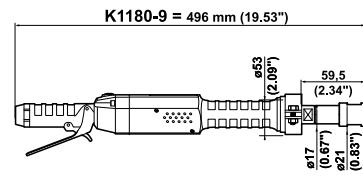
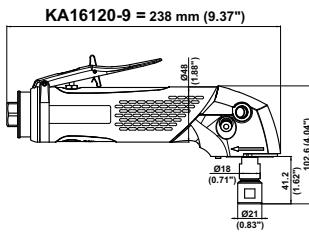
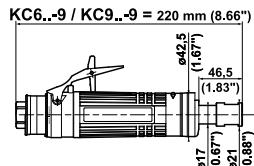
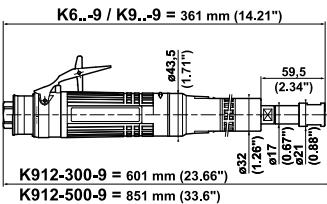
K312-9FE / KA320-9FE
Series 300 collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET. THREAD | HOSE INT Ø | | |
|---------|-----------|---------------|------------|---------------------|-------|-----|--------|------|-------------------------------|-----|-------------------------------|------|-------------------|------------|----|------|
| | | | rpm | mm | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KA320-9FE | 615 170 206 0 | 20000 | 6.35 | 1/4 | 375 | 0.5 | 0.51 | 1.13 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| A | KA312-9FE | 615 170 205 0 | 12000 | 6.35 | 1/4 | 375 | 0.5 | 0.51 | 1.13 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 | 5/16 |

Accessories



K6..-9 / K9..-9 / KC6..-9 / KC9..-9 / KA16120-9 / K1180-9

ACCESSORIES INCLUDED

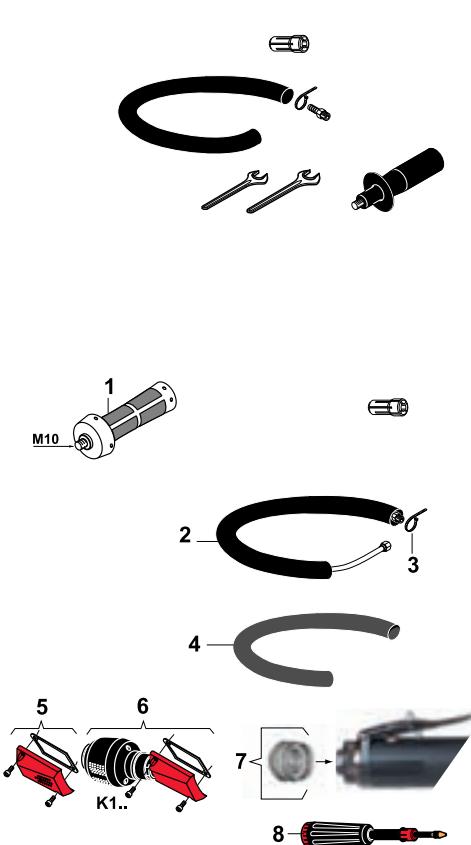
| K/KC6 / K/KC9 KA16120-9 | K1180-9 |
|----------------------------|---------|
|----------------------------|---------|

- Series 200 resilient collet, collet ø 5.55 to 6.35mm (1/4") 615 526 063 0 615 526 063 0
- Series 200 resilient collet, collet ø 8.7 to 9.5mm (3/8") 615 875 113 0 615 526 065 0
- Exhaust hose L = 1.5m (60") 615 704 017 0
- Clamp 615 873 415 0
- 3/8" air hose nipple for 10mm (3/8") ID hose 615 704 027 0
- 3/8" air hose nipple for 13mm (1/2") ID hose for KA16120-9 615 704 014 0
- 1/2" air hose nipple for 16mm (5/8") ID hose 615 801 005 0 615 801 005 0
- Flat wrench, 14mm 615 801 076 0 615 801 076 0
- Flat wrench, 19mm (3/4") 615 801 076 0 615 801 076 0
- Side handle for KA16120-9 615 576 038 0

OPTIONAL ACCESSORIES

| ITEM | K/KC6 / K/KC9 KA16120-9 | K1180-9 |
|------|----------------------------|---------|
|------|----------------------------|---------|

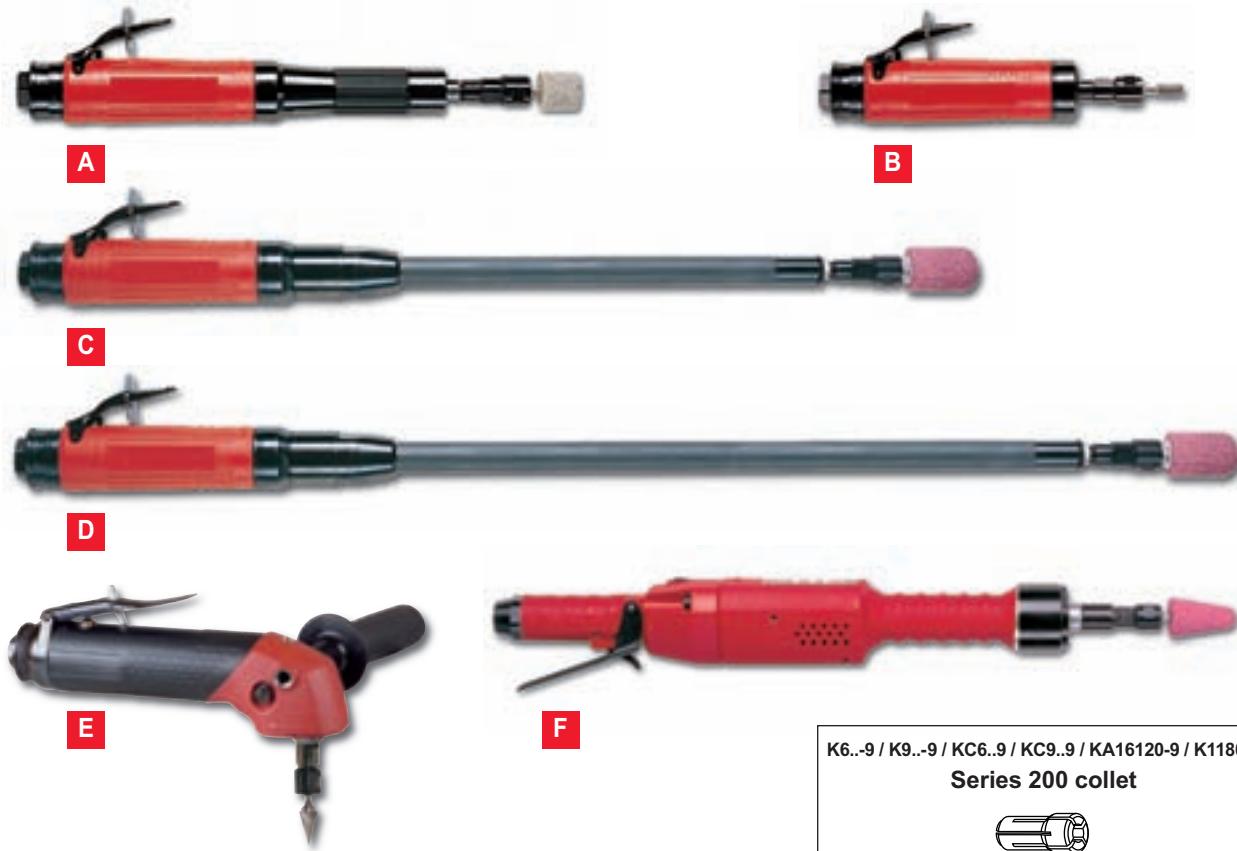
- Series 200 resilient collet, collet ø 2.4 to 3.2mm (1/8") 615 526 061 0 615 526 061 0
- Series 200 resilient collet, collet ø 5.2 to 6mm 615 526 062 0 615 526 062 0
- Series 200 resilient collet, collet ø 7.2 to 8mm 615 526 064 0 615 526 064 0
- Series 200 resilient collet, collet ø 8.7 to 9.5mm (3/8") 615 526 065 0
- 1 Vibration-damping handle for KA16120-9 615 576 066 0
- 2 Complete silencer kit 615 396 166 0
- 3 Clamp 615 873 115 0
- 4 Reinforced cloth-lined exhaust hose L = 0.75m (30") 615 875 116 0
- 5 Silencer kit 615 399 298 0
- 6 Silencer kit 615 399 459 0
- 7 Clippable silencer 615 396 655 0
- 7 Clippable silencer for KA16120-9 615 396 957 0
- 8 Grease gun (capacity 24g - 0.8oz) for KA16120-9 615 990 149 0
- Grease for bevel gear (1kg - 2.2lb) for KA16120-9 615 990 148 0



Grinders for carbide burrs, mounted points and sanding discs

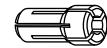
600 to 1600 Watts (0.8 to 2.15 hp) - 12000 to 28000 rpm

Supplied with series 200 resilient collet, ø 5.55 to 6.35mm (1/4") & ø 8.7 to 9.5mm (3/8")



K6..-9 / K9..-9 / KC6..9 / KC9..9 / KA16120-9 / K1180-9

Series 200 collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET. THREAD | HOSE INT Ø | | |
|------------|------------|----------------|---------------|------------------------|-------|------|--------|-----|-------------------------------------|----|-------------------------------------|-----|-------------------------|------------------|----|-----|
| | | | | | rpm | mm | in. | W | hp | kg | lb. | l/s | cfm | in. | mm | in. |
| A | K628-9 | 615 170 150 0 | 28000 | 9.5 | 3/8 | 600 | 0.80 | 1.3 | 2.9 | 16 | 34 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K624-9 | 615 170 151 0 | 24000 | 9.5 | 3/8 | 600 | 0.80 | 1.3 | 2.9 | 10 | 21 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K922-9 | 615 170 152 0 | 22000 | 9.5 | 3/8 | 900 | 1.21 | 1.4 | 3.1 | 13 | 28 | 18 | 38 | 3/8 | 10 | 3/8 |
| A | K619-9 | 615 170 153 0 | 19000 | 9.5 | 3/8 | 600 | 0.80 | 1.3 | 2.9 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K918-9 | 615 170 154 0 | 18000 | 9.5 | 3/8 | 900 | 1.21 | 1.4 | 3.1 | 10 | 21 | 18 | 38 | 3/8 | 10 | 3/8 |
| A | K615-9 | 615 170 155 0 | 15000 | 9.5 | 3/8 | 600 | 0.80 | 1.3 | 2.9 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| A | K915-9 | 615 170 156 0 | 15000 | 9.5 | 3/8 | 900 | 1.21 | 1.4 | 3.1 | 8 | 17 | 17 | 36 | 3/8 | 10 | 3/8 |
| A | K912-9 | 615 170 157 0 | 12000 | 9.5 | 3/8 | 900 | 1.21 | 1.4 | 3.1 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| B | KC628-9 | 615 170 158 0 | 28000 | 9.5 | 3/8 | 600 | 0.80 | 0.9 | 2.0 | 16 | 34 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC624-9 | 615 170 159 0 | 24000 | 9.5 | 3/8 | 600 | 0.80 | 0.9 | 2.0 | 10 | 21 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC922-9 | 615 170 160 0 | 22000 | 9.5 | 3/8 | 900 | 1.21 | 1.0 | 2.2 | 13 | 28 | 18 | 38 | 3/8 | 10 | 3/8 |
| B | KC619-9 | 615 170 161 0 | 19000 | 9.5 | 3/8 | 600 | 0.80 | 0.9 | 2.0 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC918-9 | 615 170 162 0 | 18000 | 9.5 | 3/8 | 900 | 1.21 | 1.0 | 2.2 | 10 | 21 | 18 | 38 | 3/8 | 10 | 3/8 |
| B | KC615-9 | 615 170 163 0 | 15000 | 9.5 | 3/8 | 600 | 0.80 | 0.9 | 2.0 | 6 | 13 | 15 | 32 | 3/8 | 10 | 3/8 |
| B | KC915-9 | 615 170 164 0 | 15000 | 9.5 | 3/8 | 900 | 1.21 | 1.0 | 2.2 | 8 | 17 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KC912-9 | 615 170 165 0 | 12000 | 9.5 | 3/8 | 900 | 1.21 | 1.0 | 2.2 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| C | K912-300-9 | 615 170 169 0 | 12000 | 9.5 | 3/8 | 900 | 1.21 | 2.1 | 4.6 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| D | K912-500-9 | 615 170 170 0 | 12000 | 9.5 | 3/8 | 900 | 1.21 | 2.7 | 5.9 | 6 | 13 | 16 | 34 | 3/8 | 10 | 3/8 |
| E | KA16120-9 | 615 170 443 0 | 12000 | 9.5 | 3/8 | 1600 | 2.15 | 1.4 | 3.2 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| F | K1180-9 | 615 170 246 0 | 18000 | 9.5 | 3/8 | 1200 | 1.61 | 2.5 | 5.9 | 9 | 19 | 27 | 57 | 1/2 | 15 | 5/8 |

Routers

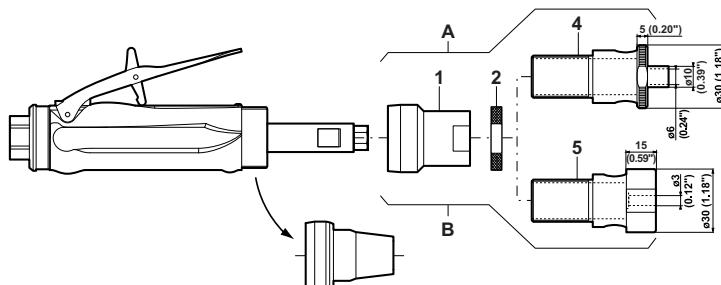
375 to 900 Watts (0.5 to 1.21 hp) - 12000 to 40000 rpm

375 W (0.5hp) - 20000 to 40000 rpm

CNOMO type collet



A



615 396 069 0: Machined routing kit for burr, max Ø 6.4mm (1/4")

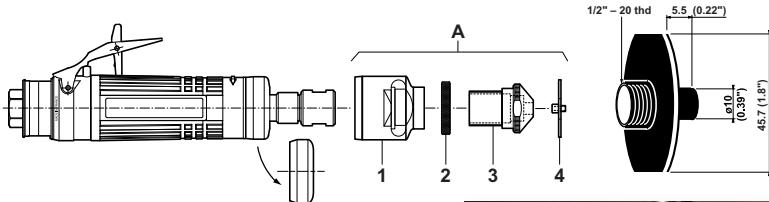
615 396 070 0: Blank routing kit allowing you to adapt the blank to fit the application

600 - 900 W (0.8 - 1.21hp) - 12000 to 28000 rpm

CNOMO type or Series 200 collet



B



615 396 289 0: Machined routing kit for burr, max Ø 6.4mm (1/4")

OPTIONAL ACCESSORIES

| ITEM | KC3.. | KC6.. / KC9.. |
|---|---------------|---------------|
| A Machined routing kit | 615 396 069 0 | 615 396 289 0 |
| B Blank routing kit (item 1, 2, 5) | 615 396 070 0 | |
| 1 Flange | 615 595 231 0 | 615 595 245 0 |
| 2 Adjusting nut | 615 607 140 0 | 615 607 145 0 |
| • Circlip | | 615 687 056 0 |
| • Bearing | | 615 758 127 0 |
| 3 Router nose (including: circlips & bearing) | | 615 542 132 2 |
| 4 Machined routing guide | 615 542 125 0 | 615 542 131 0 |
| 5 Blank routing guide | 615 542 125 2 | |



If you need a complete tool use the KC624-9RT (24000 rpm) Part No. 615 170 290 0

If you need a specific speed or a higher power:

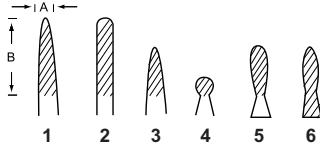
Select the motor, the speed of your choice below then add the routing kit.

For example: Tool with Series 200 collet - 900 W -22000 rpm (KC922-9) + routing kit Order 615 170 160 0 + 615 396 289 0

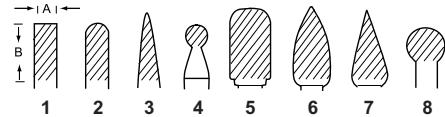
Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | FREE SPEED | POWER | | PART NO. CNOMO COLLET (-7) | PART NO. SERIES 200 COLLET (-9) | ROUTING KIT | BLANK |
|--|---------|---------------|-------|------|----------------------------------|---------------------------------------|-----------------|---------------|
| | | | rpm | W | | | | |
| 375 Watts (0.5 hp) - CNOMO type collet | | | | | | | | |
| A | KC340-7 | 40000 | 375 | 0.5 | 615 170 032 0 | | + 615 396 069 0 | 615 396 070 0 |
| A | KC331-7 | 31000 | 375 | 0.5 | 615 170 031 0 | | + 615 396 069 0 | 615 396 070 0 |
| A | KC325-7 | 25000 | 375 | 0.5 | 615 170 030 0 | | + 615 396 069 0 | 615 396 070 0 |
| A | KC320-7 | 20000 | 375 | 0.5 | 615 170 029 0 | | + 615 396 069 0 | 615 396 070 0 |
| 600 - 900 Watts (0.8 - 1.21 hp) - CNOMO type or Series 200 collet | | | | | | | | |
| B | KC628- | 28000 | 600 | 0.80 | 615 170 126 0 | 615 170 158 0 | + 615 396 289 0 | |
| B | KC624- | 24000 | 600 | 0.80 | 615 170 125 0 | 615 170 159 0 | + 615 396 289 0 | |
| B | KC922- | 22000 | 900 | 1.21 | 615 170 130 0 | 615 170 160 0 | + 615 396 289 0 | |
| B | KC619- | 19000 | 600 | 0.80 | 615 170 124 0 | 615 170 161 0 | + 615 396 289 0 | |
| B | KC918- | 18000 | 900 | 1.21 | 615 170 129 0 | 615 170 162 0 | + 615 396 289 0 | |
| B | KC615- | 15000 | 600 | 0.80 | 615 170 123 0 | 615 170 163 0 | + 615 396 289 0 | |
| B | KC915- | 15000 | 900 | 1.21 | 615 170 128 0 | 615 170 164 0 | + 615 396 289 0 | |
| B | KC912- | 12000 | 900 | 1.21 | 615 170 127 0 | 615 170 165 0 | + 615 396 289 0 | |

Collet Grinder Accessories



Tungsten Carbide Burrs are suitable for cutting unhardened and hardened steels, stainless, weld seams, steel castings, light and non-ferrous metals, plastics.



TUNGSTEN CARBIDE BURRS 3mm Ø SHANK

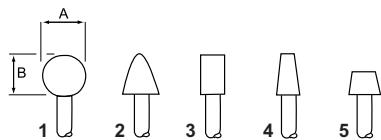
Can also be used with collet type CNOMO or 200 & 300 Series (1/8")

| PIC REF | A | | B | | PART NO. |
|------------|----|-----|----|------|----------|
| | mm | in. | mm | in. | |
| 1 | 3 | 1/8 | 13 | 1/2 | 38122 |
| 2 | 3 | 1/8 | 13 | 1/2 | 38132 |
| 3 | 3 | 1/8 | 8 | 5/16 | 38142 |
| 4 | 3 | 1/8 | 3 | 1/8 | 38152 |
| 5 | 3 | 1/8 | 8 | 5/16 | 38162 |
| 6 | 3 | 1/8 | 8 | 5/16 | 38172 |

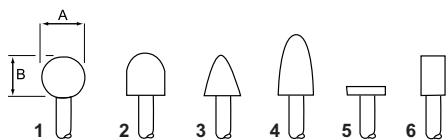
TUNGSTEN CARBIDE BURRS 6mm Ø SHANK

Can also be used with collet type CNOMO or 200 & 300 Series (1/4")

| PIC REF | A | | B | | PART NO. |
|------------|----|-----|----|-----|----------|
| | mm | in. | mm | in. | |
| 1 | 6 | 1/4 | 13 | 1/2 | 38182 |
| 2 | 6 | 1/4 | 16 | 5/8 | 38192 |
| 3 | 6 | 1/4 | 19 | 3/4 | 38202 |
| 4 | 6 | 1/4 | 6 | 1/4 | 38222 |
| 5 | 10 | 3/8 | 19 | 3/4 | 36122 |
| 6 | 10 | 3/8 | 19 | 3/4 | 36132 |
| 7 | 10 | 3/8 | 19 | 3/4 | 36142 |
| 8 | 10 | 3/8 | 10 | 3/8 | 38232 |



Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.



MOUNTED POINTS 3mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/8")

| PIC REF | MAX SPEED | A | | B | | PART NO. |
|------------|--------------|-----|------|-----|------|----------|
| | | rpm | mm | in. | mm | |
| 1 | 104000 | 5 | 0.19 | 5 | 0.19 | 38582 |
| 2 | 104000 | 5 | 0.19 | 8 | 0.31 | 38522 |
| 3 | 81000 | 6 | 0.25 | 6 | 0.25 | 38632 |
| 4 | 105000 | 4 | 0.16 | 4 | 0.16 | 38562 |
| 5 | 81000 | 6 | 0.25 | 6 | 0.25 | 38542 |

MOUNTED POINTS 6mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/4")

| PIC REF | MAX SPEED | A | | B | | PART NO. |
|------------|--------------|-----|------|-----|------|----------|
| | | rpm | mm | in. | mm | |
| 1 | 59000 | 16 | 0.62 | 16 | 0.62 | 435983 |
| 2 | 50000 | 20 | 0.79 | 16 | 0.62 | 435993 |
| 3 | 45000 | 20 | 0.79 | 28 | 1.10 | 436003 |
| 4 | 48000 | 20 | 0.79 | 32 | 1.26 | 436013 |
| 5 | 53000 | 20 | 0.79 | 22 | 0.87 | 436023 |
| 6 | 40000 | 13 | 0.51 | 25 | 1.00 | 436033 |
| 6 | 38000 | 25 | 1.00 | 3 | 0.11 | 436043 |

RECOMMENDED SPEEDS FOR TUNGSTEN CARBIDE BURRS - rpm x 1000

| MATERIAL | HEAD DIAMETER | | | | |
|--|---------------|------------|-------------|-------------|-------------|
| | 3mm (1/8") | 6mm (1/4") | 10mm (3/8") | 13mm (1/2") | 16mm (5/8") |
| Alum, Zinc Base, Plastics | 30-90 | 15-70 | 10-50 | 17-38 | 6-30 |
| Cast Iron, Brass, Copper, Bronze | 45-90 | 23-60 | 15-40 | 11-30 | 9-24 |
| Mild Steel | 60-90 | 45-60 | 30-40 | 22-30 | 18-24 |
| Titanium, Stainless, Hardened Steels, Ceramics | 60-90 | 30-45 | 19-30 | 15-22 | 12-18 |

BACKING PAD WITH 6mm Ø SHANK

| SPEED | Ø | PART NO. |
|-------|----|---------------|
| rpm | mm | in. |
| 25000 | 50 | 1.97 |
| | | 615 804 098 0 |

ABRASIVE DISCS

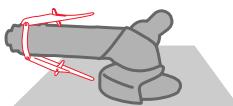
| SPEED | GRIT | PART NO. |
|-------|------|---------------|
| rpm | | |
| 25000 | P40 | 615 804 099 0 |
| 25000 | P60 | 615 804 100 0 |
| 25000 | P80 | 615 804 101 0 |
| 25000 | P120 | 615 804 102 0 |



Desoutter



Grinders for type 1 wheels, cone wheels, depressed center wheels, cut-off wheels and flap wheels



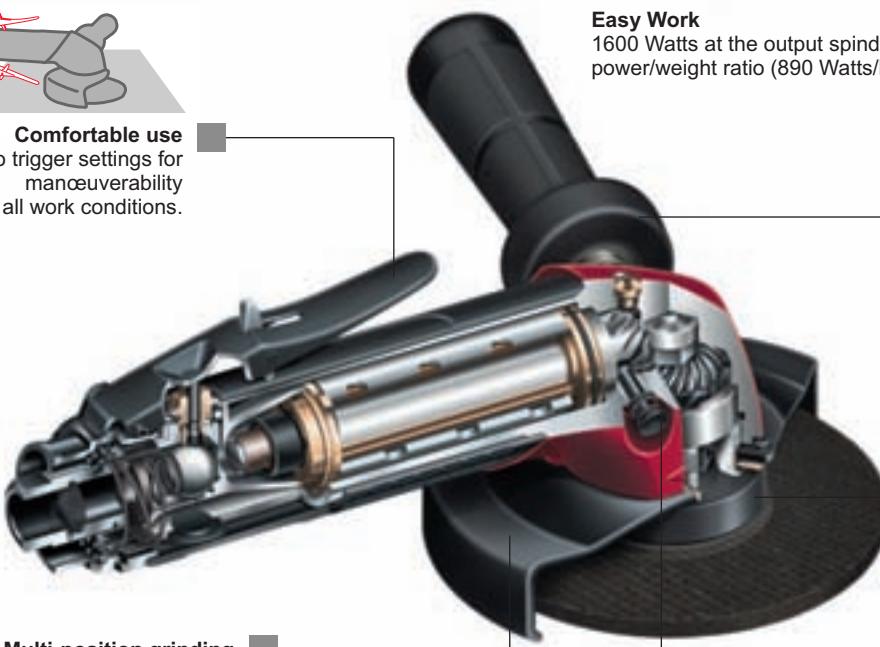
Comfortable use
Two trigger settings for
manoeuvrability
in all work conditions.

Easy Work

1600 Watts at the output spindle giving the best power/weight ratio (890 Watts/kg) in its class.



Minimum Strain
Low vibration models with
Autobalancer device and
vibration damping side
handle set at a 10° angle
for comfort on all jobs.



Industrial Strength

With exclusive lubricating technology,
Desoutter can provide a maximum
uptime with our (MTBM)
2,000 hours Guarantee*.

Meantime between Maintenance (MTBM).
* Subject to use following the instruction
manual supplied with the tool.

Fast disc change
One-key disc
changing with
spindle lock button.



Multi-position grinding
The 270° Multi-Position Guard
provides maximum
protection and comfort.



Specific alloy casing with
excellent impact strength

MAINTENANCE: LM-2000 motor

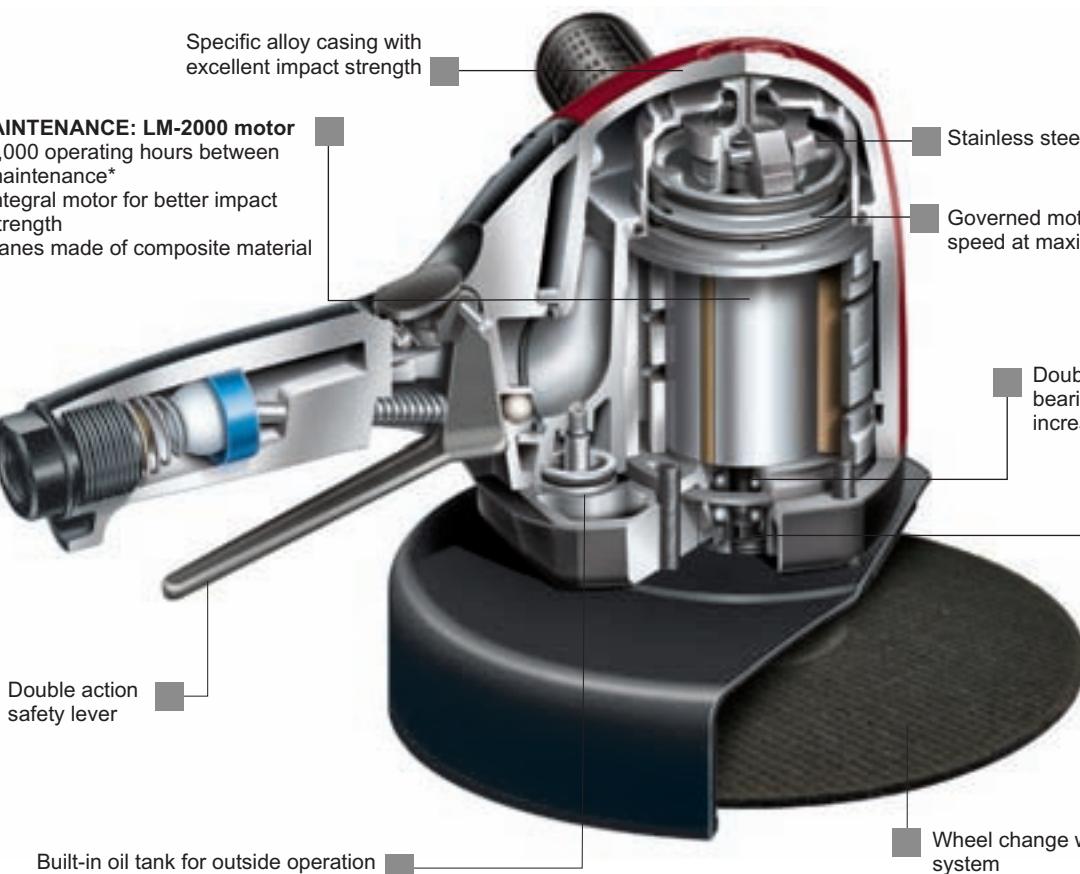
- 2,000 operating hours between maintenance*
- Integral motor for better impact strength
- Vanes made of composite material

Stainless steel governor

Governed motor for maximum
speed at maximum output

Double row ball
bearing for
increased life

Vibration
reducer



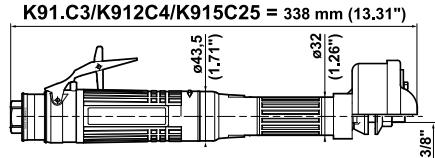
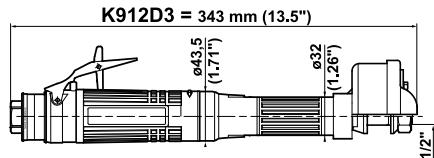
Double action
safety lever

Built-in oil tank for outside operation

Wheel change with safety
system

* Subject to use following the instruction manual supplied with the tool.

Accessories



K9..

ACCESSORIES INCLUDED

ITEM

- Exhaust hose L = 1.5m (60")
- Clamp
- $\frac{3}{8}$ " air hose nipple for 10mm ID hose
- 1** Wheel guard
- 2** Rear flange
- 3** Front flange
- 4** Locknut
- Flat wrench 17mm ($\frac{11}{16}$)
- Flat wrench 14.3mm ($\frac{9}{16}$)
- Flat wrench 19mm ($\frac{3}{4}$)

K912D3 K915C25

| ITEM | K912D3 | K915C25 |
|----------------------------|---------------|---------------|
| Ø 80mm (3") | 615 875 113 0 | 615 875 113 0 |
| Ø 63mm (2 $\frac{1}{2}$ ") | 615 873 415 0 | 615 873 415 0 |
| | 615 704 017 0 | 615 704 017 0 |
| | 615 504 151 0 | 615 504 150 0 |
| | 615 503 127 0 | 615 503 126 0 |
| | 615 502 044 0 | 615 502 043 0 |
| | 615 608 045 0 | 615 608 044 0 |
| | | 615 801 032 0 |
| | | 615 801 074 0 |
| | 615 801 076 0 | |

ITEM

- 5** Wheel guard
- 6** Rear flange
- 7** Front flange
- 8** Locknut
- Flat wrench. 14.3mm ($\frac{9}{16}$)
- Flat wrench. 19mm ($\frac{3}{4}$)

K91.C3 K912C4

| ITEM | K91.C3 | K912C4 |
|--------------|---------------|---------------|
| Ø 80mm (3") | 615 504 151 0 | 615 504 152 0 |
| Ø 100mm (4") | 615 503 125 0 | 615 503 131 0 |
| | 615 502 013 0 | 615 502 063 0 |
| | 615 608 044 0 | 615 608 044 0 |
| | 615 801 074 0 | 615 801 074 0 |
| | 615 801 076 0 | 615 801 076 0 |

OPTIONAL ACCESSORIES

ITEM

- 9** Spacer for collet-holder
- 10** Series 200 collet-holder
- 11** Series 200 collet nut
- 12** Series 200 Erickson collet
- 13** Spacer for threaded cone wheel $\frac{3}{8}$ "
• Rear flange supplied with tool 615 503 125 0 or 615 503 126 0
- 14** Complete silencer kit
- 15** Clamp
- 16** Reinforced cloth-lined exhaust hose L = 0.75 m (30")
- 17** Clippable silencer

PART NO.

| |
|----------------|
| 615 666 149 0 |
| 615 523 023 0 |
| 615 607 144 0 |
| (see page 156) |
| 615 503 516 0 |
| 615 396 166 0 |
| 615 873 115 0 |
| 615 875 116 0 |
| 615 396 655 0 |



Grinders for cone wheels and type 1 wheels

Ø 63mm (2 $\frac{1}{2}$ ") - Ø 80mm (3") - Ø 100mm (4")
900 Watts (1.21 hp) - 12000 to 18000 rpm



A



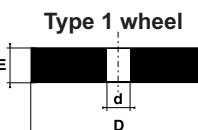
B



C

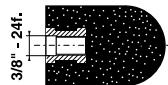


D



Type 1 wheel

Wheel type 16 - 18 - 18R and 19



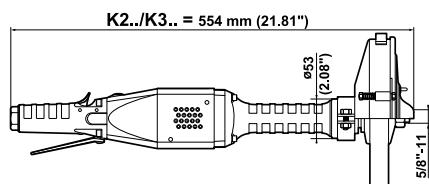
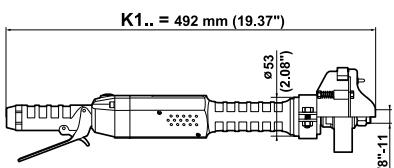
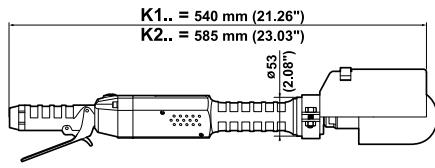
* Reinforced resinoid wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

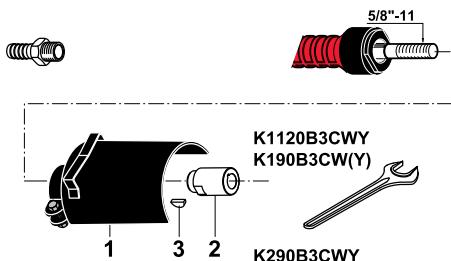
| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET THREAD | HOSE INT. Ø |
|---------|---------|---------------|------------|--------------------------|------------------|------------|-----------|-------------------------------|-----|-------------------------------|-----|------------------|-------------|
| | | | rpm | mm in. | in. | W hp | kg lb. | l/s | cfm | l/s | cfm | in. | mm in |
| A | K918C3 | 615 170 118 0 | 18000 | *80x13x9.52 | 3x1/2x3/8 | 900 1.21 | 1.7 3.7 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |
| B | K915C25 | 615 170 115 0 | 15000 | 63x13x9.52 | 2 1/2x1/2x3/8 | 900 1.21 | 1.6 3.5 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |
| C | K912D3 | 615 170 113 0 | 12000 | 80x20x12.7 | 3x2 5/32x1 1/2 | 900 1.21 | 1.7 3.7 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |
| A | K915C3 | 615 170 116 0 | 15000 | *80x13x9.52 | 3x1/2x3/8 | 900 1.21 | 1.7 3.7 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |
| A | K912C3 | 615 170 111 0 | 12000 | *80x13x9.52 | 3x1/2x3/8 | 900 1.21 | 1.7 3.7 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |
| D | K912C4 | 615 170 112 0 | 12000 | *100x13x9.52 | 4x1/2x3/8 | 900 1.21 | 1.8 4.0 | 7 | 15 | 16 | 34 | 3/8 | 10 3/8 |

3/8"-24 UNF - 1/2"-13 UNC

Accessories



K1120B3CWY / K.90B3CW(CWY) - ø 80mm (3")



ACCESSORIES INCLUDED

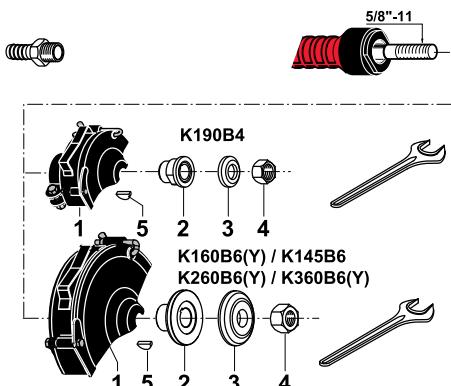
ITEM

PART NO.

- 1/2" air hose nipple for 16mm (5/8") ID hose
- 1 Wheel guard
- 2 Rear flange
- 3 Woodruff key
- Flat wrench, 27mm (11/16")

| |
|---------------|
| 615 704 014 0 |
| 615 504 080 0 |
| 615 503 095 0 |
| 615 630 019 0 |
| 615 801 077 0 |

K190B4 / K.60B6(B6Y) / K145B6



ACCESSORIES INCLUDED

ITEM

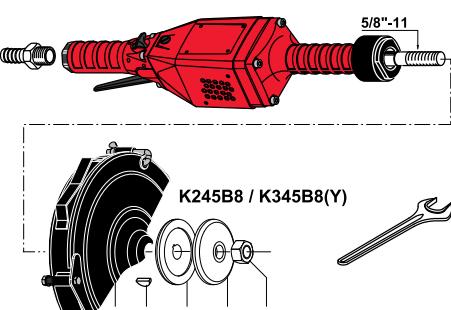
K.60B6 (B6Y) K190B4 ø 100mm (4")

K145B6 ø 150mm (6")

- 1/2" air hose nipple for 16mm (5/8") ID hose
- 1 Wheel guard
- 2 Rear flange
- 3 Front flange
- 4 Nut
- 5 Woodruff key
- Flat wrench, 27mm (11/16")

| | |
|---------------|---------------|
| 615 704 014 0 | 615 704 014 0 |
| 615 504 154 0 | 615 504 079 0 |
| 615 503 094 0 | 615 503 028 0 |
| 615 502 046 0 | 615 502 027 0 |
| 615 608 006 0 | 615 608 006 0 |
| 615 630 019 0 | 615 630 019 0 |
| 615 801 077 0 | 615 801 077 0 |

K245B8 / K345B8(B8Y) - ø 200mm (8")



ACCESSORIES INCLUDED

ITEM

K245B8 K345B8 (B8Y) ø 200mm (8")

- 1/2" air hose nipple for 16mm (5/8") ID hose
- 1 Wheel guard
- 2 Rear flange
- 3 Front flange
- 4 Nut
- 5 Woodruff key
- Flat wrench, 27mm (11/16")

| |
|---------------|
| 615 704 014 0 |
| 615 504 078 0 |
| 615 503 004 0 |
| 615 502 007 0 |
| 615 608 006 0 |
| 615 630 019 0 |
| 615 801 077 0 |

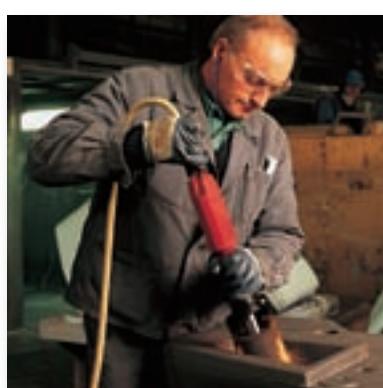
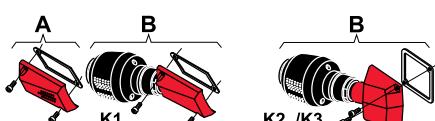
OPTIONAL ACCESSORIES

ITEM

K1.. K2.. / K3..

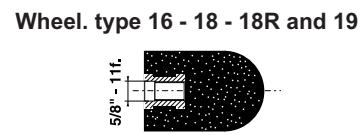
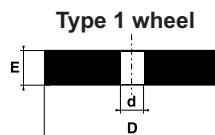
| | |
|----------------|---------------|
| A Silencer kit | 615 399 298 0 |
| B Silencer kit | 615 399 459 0 |

615 399 460 0



Grinders for cone wheels and type 1 wheels

Ø 80mm (3") - Ø 100mm (4") - Ø 150mm (6") - Ø 200mm (8")
1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 12000 rpm

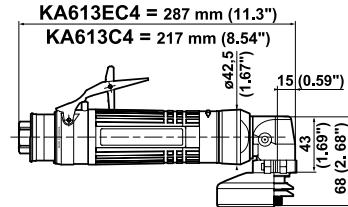
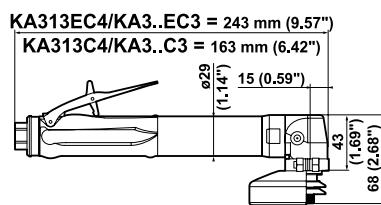
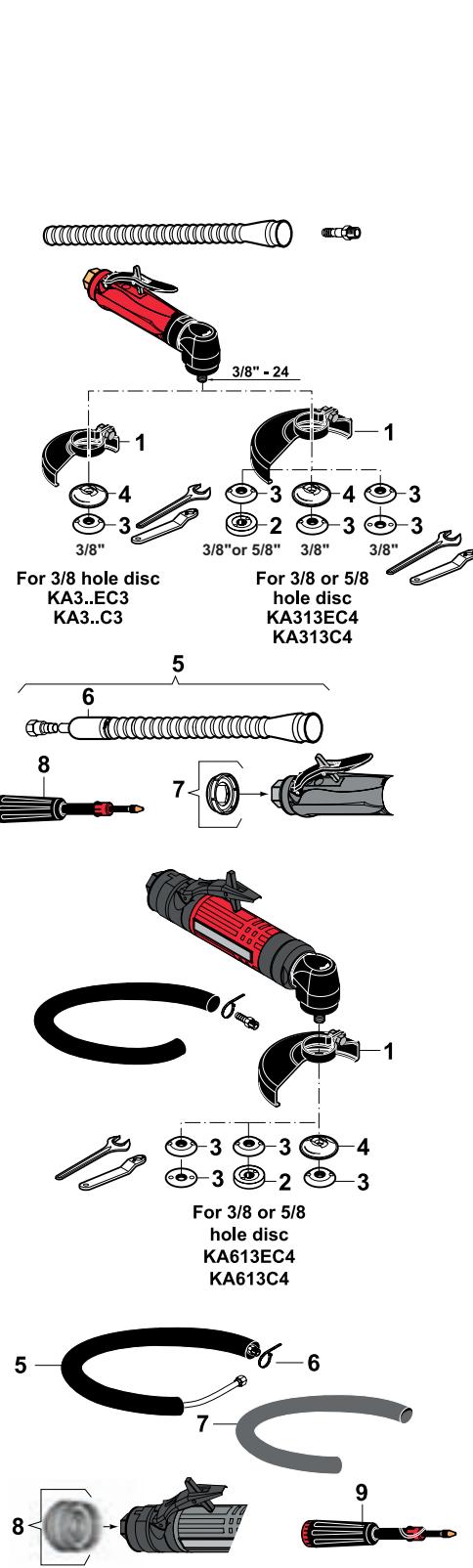


Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø |
|---|------------|---------------|------------|--------------------------|------------------|-----------|----------|-------------------------------|-------------------------------|------------------|-------------|
| | | | rpm | mm in. | in. | W hp | kg lb. | l/s cfm | l/s cfm | in. | mm in |
| A | K190B3CW | 615 170 005 0 | 9000 | 80 3 | 5/8-11 | 1200 1.61 | 3.5 7.7 | 9 19 | 27 57 | 1/2 | 15 5/8 |
| B | K190B4 | 615 170 004 0 | 9000 | 100x25x15.9 | 4x1x5/8 | 1200 1.61 | 3.2 7.0 | 9 19 | 27 57 | 1/2 | 15 5/8 |
| C | K160B6 | 615 170 003 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 1200 1.61 | 3.5 7.7 | 6 12 | 23 48 | 1/2 | 15 5/8 |
| C | K145B6 | 615 170 002 0 | 4500 | 150x25x15.9 | 6x1x5/8 | 1000 1.34 | 3.5 7.7 | 5 10 | 20 42 | 1/2 | 15 5/8 |
| E | K260B6 | 615 170 008 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 2000 2.70 | 5.1 11.2 | 10 21 | 38 80 | 1/2 | 15 5/8 |
| E | K360B6 | 615 170 010 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 2700 3.62 | 5.6 12.3 | 13 27 | 41 86 | 1/2 | 15 5/8 |
| F | K245B8 | 615 170 006 0 | 4500 | 200x25x15.9 | 8x1x5/8 | 1800 2.41 | 5.8 12.7 | 8 17 | 32 67 | 1/2 | 15 5/8 |
| F | K345B8 | 615 170 009 0 | 4500 | 200x25x15.9 | 8x1x5/8 | 2400 3.22 | 6.3 13.9 | 8 17 | 33 70 | 1/2 | 15 5/8 |
| For USA Market only (to ANSI B186.1) | | | | | | | | | | | |
| A | K1120B3CWY | 615 170 171 0 | 12000 | 80 3 | 5/8-11 | 1300 1.74 | 3.0 6.6 | 16 34 | 30 64 | 1/2 | 15 5/8 |
| A | K190B3CWY | 615 170 172 0 | 9000 | 80 3 | 5/8-11 | 1200 1.61 | 3.0 6.6 | 9 19 | 27 57 | 1/2 | 15 5/8 |
| D | K290B3CWY | 615 170 174 0 | 9000 | 80 3 | 5/8-11 | 2400 3.22 | 4.5 9.9 | 18 38 | 46 97 | 1/2 | 15 5/8 |
| C | K160B6Y | 615 170 173 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 1200 1.61 | 3.5 7.7 | 6 12 | 23 48 | 1/2 | 15 5/8 |
| E | K260B6Y | 615 170 175 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 2000 2.70 | 5.1 11.2 | 10 21 | 38 80 | 1/2 | 15 5/8 |
| E | K360B6Y | 615 170 177 0 | 6000 | 150x25x15.9 | 6x1x5/8 | 2700 3.62 | 5.6 12.3 | 13 27 | 41 86 | 1/2 | 15 5/8 |
| F | K345B8Y | 615 170 178 0 | 4500 | 200x25x15.9 | 8x1x5/8 | 2400 3.22 | 6.3 13.9 | 8 17 | 33 70 | 1/2 | 15 5/8 |

5/8-11 UNC

Accessories



KA3..EC3 / KA3..C3 / KA313EC4 / KA313C4

ACCESSORIES INCLUDED

ITEM

- Exhaust hose L = 0.8m (31")
- 1/4" air hose nipple for 8mm ID hose
- 1 Wheel guard
- 2 Flange
- 3 Flange
- 4 Flange
- Pin wrench, 20-3mm
- Flat wrench, 11mm (7/16")

| KA3..EC3 | KA313EC4 |
|---------------|---------------|
| KA3..C3 | KA313C4 |
| ø 76mm (3") | ø 100mm (4") |
| 615 875 106 0 | 615 875 106 0 |
| 615 704 019 0 | 615 704 019 0 |
| 615 504 155 0 | 615 504 160 0 |
| 615 606 515 0 | 615 606 515 0 |
| 615 502 064 0 | 615 502 064 0 |
| 615 503 144 0 | 615 503 144 0 |
| 615 802 008 0 | 615 802 008 0 |
| 615 801 003 0 | 615 801 003 0 |

OPTIONAL ACCESSORIES

ITEM

- 5 Complete silencer kit
- 6 Silencer
- 7 Clippable silencer
- 8 Grease gun includes (24g - 0.8oz)
- Grease for bevel gear (1kg - 2.2lb)

PART NO.

| |
|---------------|
| 615 396 101 0 |
| 615 574 028 0 |
| 615 396 124 0 |
| 615 990 149 0 |
| 615 990 148 0 |

KA613EC4 / KA613C4 - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM

- Exhaust hose L = 1.5m (60")
- Clamp
- 3/8" air hose nipple for 10mm ID hose
- 1 Wheel guard
- 2 Flange
- 3 Flange
- 4 Flange
- Pin wrench, 20-3mm
- Flat wrench, 11mm (7/16")

| KA613EC4 |
|----------|
| KA613C4 |

OPTIONAL ACCESSORIES

ITEM

- 5 Complete silencer kit
- 6 Clamp
- 7 Reinforced cloth-lined exhaust hose L = 0.75m (30")
- 8 Clippable silencer
- 9 Grease gun includes (24g - 0.8oz)
- Grease for bevel gear (1kg - 2.2lb)

PART NO.

| |
|---------------|
| 615 396 166 0 |
| 615 873 115 0 |
| 615 875 116 0 |
| 615 396 655 0 |
| 615 990 149 0 |
| 615 990 148 0 |



Grinders for depressed center wheels and cut-off wheels

Ø 76mm (3") - Ø 100mm (4")

375 - 600 Watts (0.5 - 0.8 hp) - 13000 to 20000 rpm



A



B



C



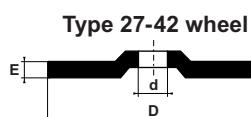
D



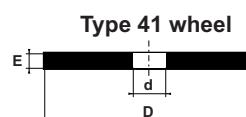
E



F



Type 27-42 wheel



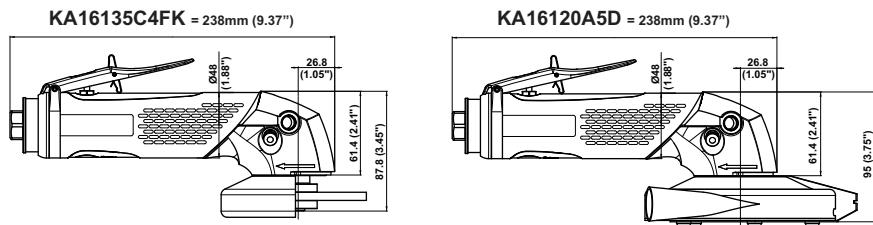
Type 41 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | | | | |
|---------|----------|---------------|------------|--------------------------|--|---------------------------------|--------|-------------------------------|-------------------------------|------------------|-------------|------|------|-----|-----|----|------|
| | | | rpm | mm | in. | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KA320EC3 | 615 170 046 0 | 20000 | 76 x7x9.52 | 3x ¹ / ₄ x ³ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.81 | 1.78 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| A | KA318EC3 | 615 170 045 0 | 18000 | 76 x7x9.52 | 3x ¹ / ₄ x ³ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.81 | 1.78 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| B | KA313EC4 | 615 170 050 0 | 13000 | 100 x7x9.52 & 15.9 | 4x ¹ / ₄ x ³ / ₈ & ⁵ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.83 | 1.83 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 | 5/16 |
| C | KA320C3 | 615 170 042 0 | 20000 | 76 x7x9.52 | 3x ¹ / ₄ x ³ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.64 | 1.41 | 6.5 | 13.5 | 10.0 | 21 | 1/4 | 8 | 5/16 |
| C | KA318C3 | 615 170 041 0 | 18000 | 76 x7x9.52 | 3x ¹ / ₄ x ³ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.64 | 1.41 | 4.5 | 9.5 | 9.5 | 20 | 1/4 | 8 | 5/16 |
| D | KA313C4 | 615 170 049 0 | 13000 | 100 x7x9.52 & 15.9 | 4x ¹ / ₄ x ³ / ₈ & ⁵ / ₈ | ³ / ₈ -24 | 375 | 0.5 | 0.66 | 1.45 | 3.0 | 6.5 | 9.0 | 19 | 1/4 | 8 | 5/16 |
| E | KA613EC4 | 615 170 138 0 | 13000 | 100 x7x9.52 & 15.9 | 4x ¹ / ₄ x ³ / ₈ & ⁵ / ₈ | ³ / ₈ -24 | 600 | 0.8 | 1.50 | 3.30 | 10.0 | 21.0 | 15.0 | 32 | 3/8 | 10 | 3/8 |
| F | KA613C4 | 615 170 137 0 | 13000 | 100 x7x9.52 & 15.9 | 4x ¹ / ₄ x ³ / ₈ & ⁵ / ₈ | ³ / ₈ -24 | 600 | 0.8 | 1.20 | 2.60 | 10.0 | 21.0 | 15.0 | 32 | 3/8 | 10 | 3/8 |

³/₈"-24 UNF

Accessories



KA16135C4FK - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM

KA16135C4FK
3/8" - 24

- Complete silencer kit
- Clamp
- Vibration-damping side handle
- Case
- 1 Wheel guard
- 2 Flange (Qty 2)
- 3 Rear flange
- Pin wrench 20-3mm
- Flat wrench, 16mm ($\frac{5}{8}$ "")

615 396 166 0
615 263 024 0
615 576 066 0
615 995 107 0
615 504 196 0
615 606 515 0
615 503 515 0
615 802 008 0
615 802 512 0

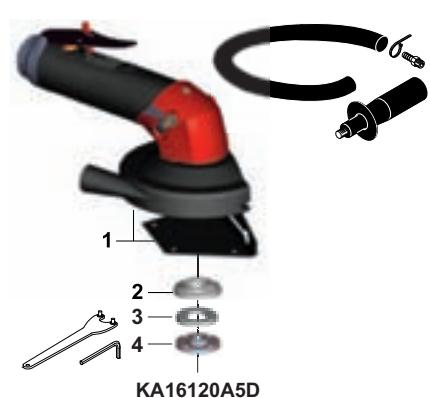
OPTIONAL ACCESSORIES

ITEM

PART NO.

- 4 Clippable silencer
- 5 Grease gun includes 24g (0.8oz)
- Grease for bevel gear (1 kg - 2.2 lb)

615 396 957 0
615 990 149 0
615 990 148 0



KA16120A5D - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM

KA16120A5D
M14x2

- Exhaust hose L = 1.5m (60")
- Clamp
- $\frac{3}{8}$ " air hose nipple for 13mm ($\frac{1}{2}$ ") ID hose
- Side handle
- 1 Wheel guard
- 2 Rear flange
- 3 Spacer
- 4 Front flange
- Pin wrench, 35mm ($1\frac{3}{8}$ ")
- Hex. key 8mm ($\frac{5}{16}$ ")

615 875 113 0
615 263 024 0
615 704 027 0
615 576 038 0
615 396 076 0
615 503 134 0
615 643 074 0
615 502 066 0
615 802 010 0
615 802 061 0

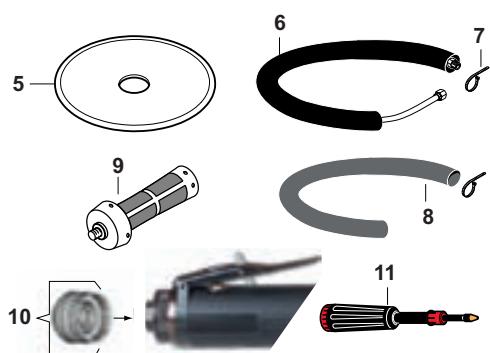
OPTIONAL ACCESSORIES

ITEM

PART NO.

- 5 Diamond disc ø 127mm (5")
- 6 Complete silencer kit
- 7 Clamp
- 8 Reinforced cloth-lined exhaust hose L = 0.75m (30")
- 9 Vibration-damping side handle
- 10 Clippable silencer
- 11 Grease gun includes 24g (0.8oz)
- Grease for bevel gear (1 kg - 2.2 lb)

615 804 915 0
615 396 166 0
615 263 024 0
615 875 116 0
615 576 066 0
615 396 957 0
615 990 149 0
615 990 148 0



Grinders for depressed center wheels, cut-off wheels and diamond disc

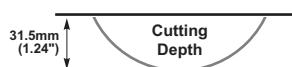
ø 100mm (4") - ø 127mm (5")
1600 Watts (2.15 hp) - 12000 - 13500 rpm



A



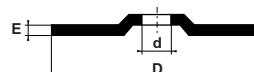
B



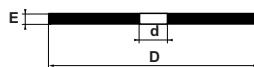
31.5mm
(1.24")

Supplied with dust extraction casing
for diamond disc ø 127mm (5").
Vacuum hose ID 25mm (1")

Type 27-42 wheel



Type 41 wheel



Diamond disc

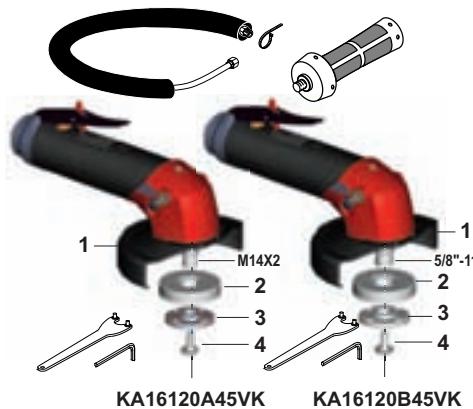


Caution: comply with the speeds recommended by component and abrasive manufacturers.

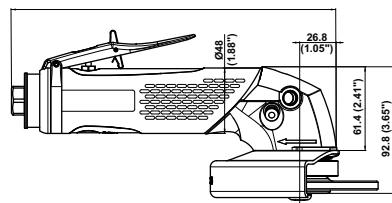
| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | | |
|---------|-------------|---------------|------------|--------------------------|------------------|--------|--------|-------------------------------|-------------------------------|------------------|-------------|-----|-----|----|-----|
| | | | rpm | mm | in. | in. | W | hp | kg | lb. | l/s | cfm | in. | mm | in. |
| A | KA16135C4FK | 615 170 441 0 | 13500 | 100x6.4x16 | 4x1/4x5/8 | 3/8-24 | 1600 | 2.15 | 1.53 | 3.4 | 25 | 53 | 35 | 74 | 3/8 |
| B | KA16120A5D | 615 170 442 0 | 12000 | 127x3.2x22.2 | 5x1/8x7/8 | M14x2 | 1600 | 2.15 | 1.98 | 4.4 | 20 | 42 | 32 | 68 | 3/8 |

3/8"-24 UNF

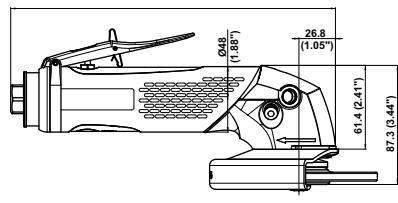
Accessories



KA16120A45VK / B45VK = 238mm (9.37")



KA16120A45 / B45 = 238mm (9.37")



KA16120A45VK - KA16120B45VK - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM

| KA16120A45VK M14x2 | KA16120B45VK 5/8"-11 |
|-----------------------|-------------------------|
|-----------------------|-------------------------|

- Complete silencer kit
- Clamp
- Vibration-damping side handle
- Case
- 1 Multi-position guard
- 2 Auto-balancer
- 3 Front flange
- 4 Safety screw
- Pin wrench, 35mm (1 3/8")
- Hex. key 6.35mm (1/4")

| | |
|---------------|---------------|
| 615 396 166 0 | 615 396 166 0 |
| 615 263 024 0 | 615 263 024 0 |
| 615 576 066 0 | 615 576 066 0 |
| 615 995 107 0 | 615 995 107 0 |
| 615 504 195 0 | 615 504 195 0 |
| 615 990 181 0 | 615 990 181 0 |
| 615 502 066 0 | 615 502 067 0 |
| 615 614 076 0 | 615 614 076 0 |
| 615 802 010 0 | 615 802 010 0 |
| 615 802 057 0 | 615 802 057 0 |



KA16120A45 - KA16120B45 - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM

| KA16120A45 M14x2 | KA16120B45 5/8"-11 |
|---------------------|-----------------------|
|---------------------|-----------------------|

- Exhaust hose L = 1.5m (60")
- Clamp
- 3/8" air hose nipple for 13mm (1/2") ID hose
- Side handle
- 1 Multi-position guard
- 2 Rear flange
- 3 Front flange
- 4 Safety screw
- Pin wrench, 35mm (1 3/8")
- Hex. key 6.35mm (1/4")

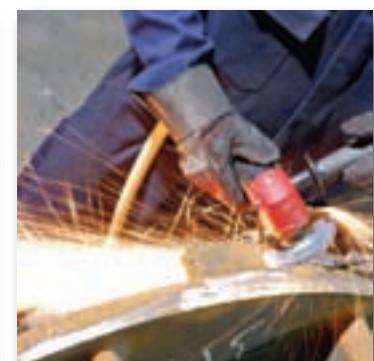
| | |
|---------------|---------------|
| 615 875 113 0 | 615 875 113 0 |
| 615 263 024 0 | 615 263 024 0 |
| 615 704 027 0 | 615 704 027 0 |
| 615 576 038 0 | 615 576 038 0 |
| 615 504 198 0 | 615 504 198 0 |
| 615 503 134 0 | 615 503 141 0 |
| 615 502 066 0 | 615 502 067 0 |
| 615 614 076 0 | 615 614 076 0 |
| 615 802 010 0 | 615 802 010 0 |
| 615 802 057 0 | 615 802 057 0 |

OPTIONAL ACCESSORIES

ITEM

PART NO.

- | | |
|--|---------------|
| 5 Complete silencer kit | 615 396 166 0 |
| 6 Clamp | 615 263 024 0 |
| 7 Reinforced cloth-lined exhaust hose L= 0.75m (30") | 615 875 116 0 |
| 8 Vibration-damping side handle | 615 576 066 0 |
| 9 Clippable silencer | 615 396 957 0 |
| 10 Grease gun includes 24g (0.8oz) | 615 990 149 0 |
| • Grease for bevel gear (1 kg - 2.2lb) | 615 990 148 0 |



Grinders for depressed center wheels, cut-off wheels and flap wheels

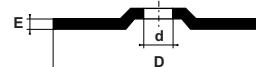
ø 115mm (4.5")
1600 Watts (2.15 hp) - 12000 rpm



Multi-position guard



Type 27-42 wheel



Type 41 wheel



Depressed centre flap wheels



FLAT



CURVED

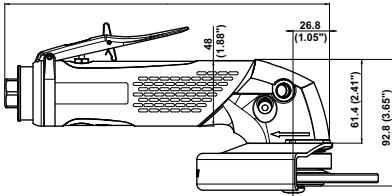
Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | | | | |
|---------|--------------|---------------|------------|-----------------------------|------------------|--------|--------|-------------------------------|-------------------------------|------------------|-------------|-----|-----|-----|-----|----|-----|
| | | | rpm | mm | in. | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KA16120A45VK | 615 170 456 0 | 12000 | 115x6.4x22.2 | 4.5x1/4x7/8 | M14x2 | 1600 | 2.15 | 1.87 | 4.1 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| A | KA16120B45VK | 615 170 458 0 | 12000 | 115x6.4x22.2 | 4.5x1/4x7/8 | 5/8-11 | 1600 | 2.15 | 1.87 | 4.1 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| B | KA16120A45 | 615 170 455 0 | 12000 | 115x6.4x22.2 | 4.5x1/4x7/8 | M14x2 | 1600 | 2.15 | 1.75 | 3.9 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| B | KA16120B45 | 615 170 457 0 | 12000 | 115x6.4x22.2 | 4.5x1/4x7/8 | 5/8-11 | 1600 | 2.15 | 1.75 | 3.9 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |

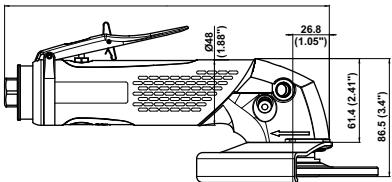
5/8"-11 UNC

Accessories

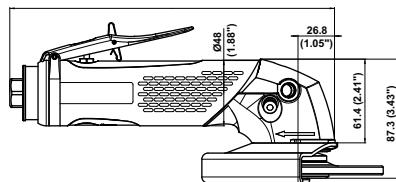
KA16120A5VK / B5VK = 238mm (9.37")



KA16120H5K / H5 = 238mm (9.37")



KA16120A5 / B5 = 238mm (9.37")



KA16120A5VK / B5VK / H5K - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM

KA16120A5VK

M14x2

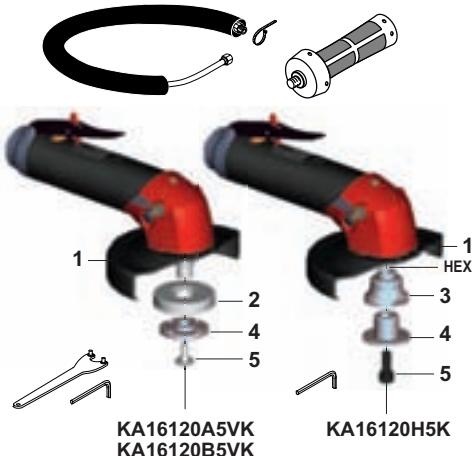
KA16120B5VK

5/8-11

KA16120H5K

Hex.

| | | | |
|---------------------------------|---------------|---------------|---------------|
| • Complete silencer kit | 615 396 166 0 | 615 396 166 0 | 615 396 166 0 |
| • Clamp | 615 263 024 0 | 615 263 024 0 | 615 263 024 0 |
| • Vibration-damping side handle | 615 576 066 0 | 615 576 066 0 | 615 576 066 0 |
| • Case | 615 995 107 0 | 615 995 107 0 | 615 995 107 0 |
| 1 Multi-position guard | 615 504 193 0 | 615 504 193 0 | 615 504 197 0 |
| 2 Auto-balancer | 615 990 181 0 | 615 990 181 0 | |
| 3 Rear flange | | | 615 503 124 0 |
| 4 Front flange | 615 502 066 0 | 615 502 067 0 | 615 502 062 0 |
| 5 Safety screw | 615 614 076 0 | 615 614 076 0 | 615 616 101 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | |
| • Hex. key 6mm | | | 615 802 056 0 |
| • Hex. key 6.35mm (1/4") | 615 802 057 0 | 615 802 057 0 | |



KA16120A5 / B5 / H5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM

KA16120A5

M14x2

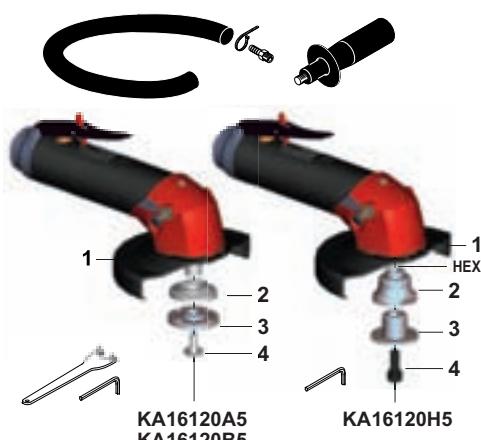
KA16120B5

5/8"-11

KA16120H5

Hex.

| | | | |
|--|---------------|---------------|---------------|
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 | 615 875 113 0 | 615 875 113 0 |
| • Clamp | 615 263 024 0 | 615 263 024 0 | 615 263 024 0 |
| • 3/8" air hose nipple for 13mm (1/2") ID hose | 615 704 027 0 | 615 704 027 0 | 615 704 027 0 |
| • Side handle | 615 576 038 0 | 615 576 038 0 | 615 576 038 0 |
| 1 Multi-position guard | 615 504 197 0 | 615 504 197 0 | 615 504 197 0 |
| 2 Rear flange | 615 503 134 0 | 615 503 141 0 | 615 503 124 0 |
| 3 Front flange | 615 502 066 0 | 615 502 067 0 | 615 502 062 0 |
| 4 Safety screw | 615 614 076 0 | 615 614 076 0 | 615 616 101 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | |
| • Hex. key 6mm | | | 615 802 056 0 |
| • Hex. key 6.35mm (1/4") | 615 802 057 0 | 615 802 057 0 | |



OPTIONAL ACCESSORIES

ITEM

PART NO.

| | |
|--|---------------|
| 5 Complete silencer kit | 615 396 166 0 |
| 6 Clamp | 615 263 024 0 |
| 7 Reinforced cloth-lined exhaust hose L = 0.75 m (30") | 615 875 116 0 |
| 8 Vibration-damping side handle | 615 576 066 0 |
| 9 Clippable silencer | 615 396 957 0 |
| 10 Grease gun includes 24g (0.8oz) | 615 990 149 0 |
| • Grease for bevel gear (1kg - 2.2lb) | 615 990 148 0 |



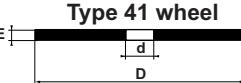
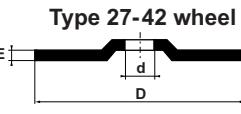
Grinders for depressed center wheels, cut-off wheels and flap wheels

ø 127mm (5")
1600 Watts (2.15 hp) - 12000 rpm



Quick wheel change

Multi-position guard



Depressed centre flap wheels



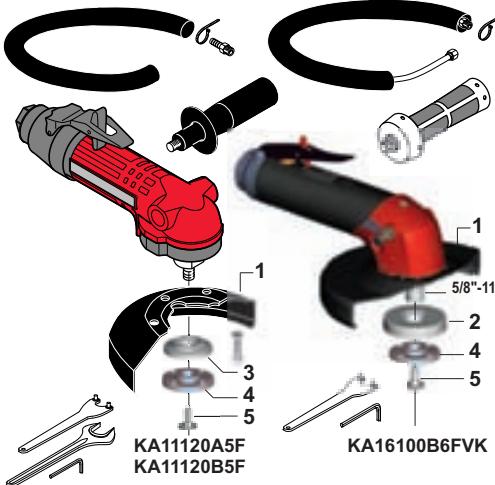
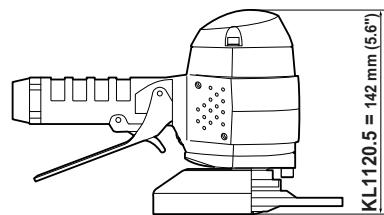
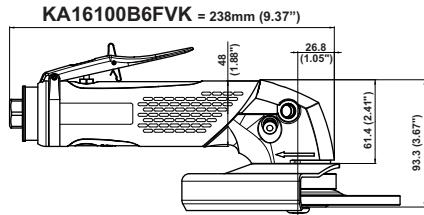
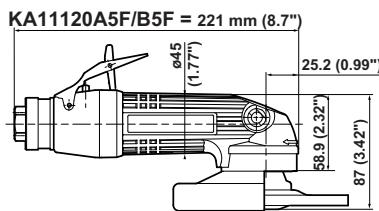
CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø |
|---------|-------------|---------------|------------|--------------------------|------------------|--------|-----------|-------------------------------|-------------------------------|------------------|-------------|
| | | | rpm | mm in. | in. | W hp | kg lb. | l/s cfm | l/s cfm | in. mm | in. |
| A | KA16120A5VK | 615 170 438 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | M14x2 | 1600 2.15 | 1.90 4.2 | 20 42 | 32 68 | 3/8 13 1/2 |
| A | KA16120B5VK | 615 170 454 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | 5/8-11 | 1600 2.15 | 1.90 4.2 | 20 42 | 32 68 | 3/8 13 1/2 |
| A | KA16120H5K | 615 170 434 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | HEX | 1600 2.15 | 1.77 3.9 | 20 42 | 32 68 | 3/8 13 1/2 |
| B | KA16120A5 | 615 170 437 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | M14x2 | 1600 2.15 | 1.77 3.9 | 20 42 | 32 68 | 3/8 13 1/2 |
| B | KA16120B5 | 615 170 439 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | 5/8-11 | 1600 2.15 | 1.77 3.9 | 20 42 | 32 68 | 3/8 13 1/2 |
| B | KA16120H5 | 615 170 444 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | HEX | 1600 2.15 | 1.77 3.9 | 20 42 | 32 68 | 3/8 13 1/2 |

5/8"-11 UNC

Accessories

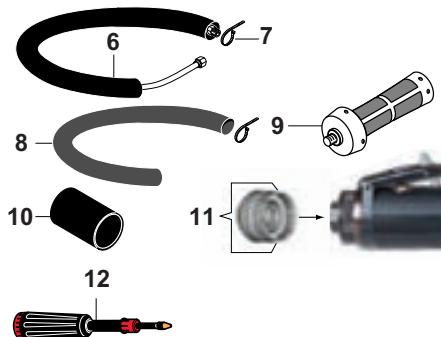


KA11120A5F / B5F - ø 127mm (5") / KA16100B6FVK - ø 150mm (6")

ACCESSORIES INCLUDED

ITEM

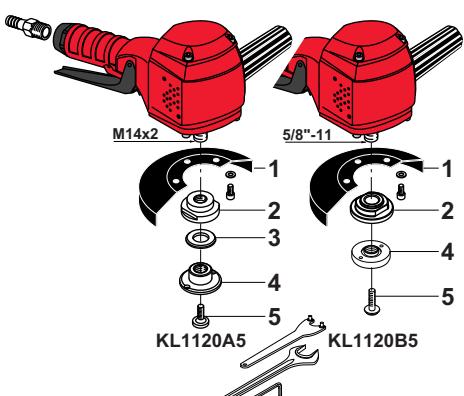
| | KA11120A5F M14x2 | KA11120B5F 5/8"-11 | KA16100B6FVK 5/8"-11 |
|---|---------------------|-----------------------|-------------------------|
| • Complete silencer kit | | | 615 396 166 0 |
| • Vibration-damping side handle | | | 615 576 066 0 |
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 | 615 875 113 0 | |
| • Clamp | 615 263 024 0 | 615 263 024 0 | 615 263 024 0 |
| • 3/8" air hose nipple for 13mm ID hose | 615 704 027 0 | 615 704 027 0 | |
| • Side handle | 615 576 038 0 | 615 576 038 0 | |
| 1 Wheel guard | 615 504 142 0 | 615 504 142 0 | 615 504 202 0 |
| 2 Auto-balancer | | | 615 990 181 0 |
| 3 Rear flange | 615 503 134 0 | 615 503 141 0 | |
| 4 Front flange | 615 502 066 0 | 615 502 067 0 | 615 502 067 0 |
| 5 Safety screw | 615 614 076 0 | 615 614 076 0 | 615 614 076 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | 615 802 010 0 |
| • Flat wrench, 17mm (1 1/16") | 615 801 079 0 | 615 801 079 0 | |
| • Hex. key 6.35mm (1/4") | 615 802 057 0 | 615 802 057 0 | 615 802 057 0 |



OPTIONAL ACCESSORIES

ITEM

| | KA11120A5/B5 | KA16100B6FVK |
|---|--------------------------------|--------------------------------|
| 6 Complete silencer kit | 615 396 166 0 | |
| 7 Clamp | 615 263 024 0 | |
| 8 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 | |
| 9 Vibration-damping side handle | 615 576 066 0 | |
| 10 Thermal insulating sleeve | 615 570 412 0 | |
| 11 Clippable silencer | 615 396 655 0 | 615 396 957 0 |
| 12 Grease gun includes 24g (0.8oz) • Grease for bevel gear (1kg - 2.2lb) | 615 990 149 0 615 990 148 0 | 615 990 149 0 615 990 148 0 |

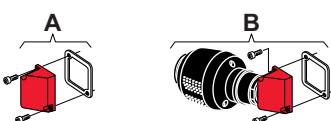


KL1120A5 / KL1120B5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM

| | KL1120A5 M14x2 | KL1120B5 5/8"-11 |
|--|-------------------|---------------------|
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 | 615 704 017 0 |
| 1 Wheel guard | 615 504 086 0 | 615 504 086 0 |
| 2 Rear flange | 615 503 096 0 | 615 503 143 0 |
| 3 Washer for wheels thickness <2mm | 615 642 052 0 | - |
| 4 Nut | 615 606 032 0 | 615 502 067 0 |
| 5 Safety screw | 615 614 033 0 | 615 614 076 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 |
| • Flat wrench, 27mm (1 1/16") | 615 801 077 0 | 615 801 077 0 |
| • Hex. key 6mm | 615 802 056 0 | |
| • Hex. key 6.35mm (1/4") | | 615 802 057 0 |



OPTIONAL ACCESSORIES

ITEM

| | PART NO. |
|----------------|---------------|
| A Silencer kit | 615 396 117 0 |
| B Silencer kit | 615 399 462 0 |

Grinders for depressed center wheels, cut-off wheels and flap wheels

ø 127mm (5") - ø 150mm (6")

750 to 1500 Watts (1.0 to 2.0 hp) - 10000 - 12000 rpm

Fixed wheel guard



A

Adjustable lever position



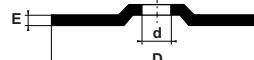
B



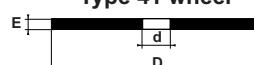
C



Type 27-42 wheel



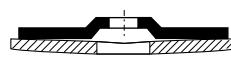
Type 41 wheel



Depressed centre flap wheels



FLAT



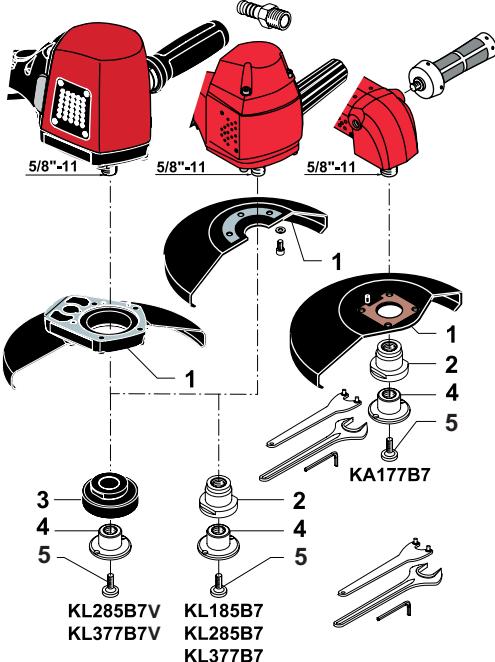
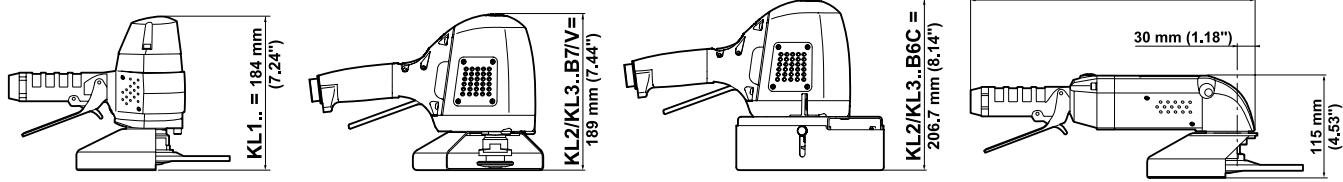
CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED rpm | WHEEL MAX CAPACITY DxDxL | | THREADED SPINDLE | POWER W | WEIGHT kg | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX OUTPUT | | AIR INLET THREAD | HOSE INT. Ø | |
|---------|--------------|---------------|-------------------|--------------------------------|-----------|------------------|------------|--------------|----------------------------------|-----|----------------------------------|-----|------------------|-------------|-----|
| | | | mm | in. | in. | | hp | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KA11120A5F | 615 170 052 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | M14x2 | 1100 | 1.5 | 1.7 | 3.7 | 10 | 21 | 20 | 42 | 3/8 |
| A | KA11120B5F | 615 170 055 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | 5/8-11 | 1100 | 1.5 | 1.7 | 3.7 | 10 | 21 | 20 | 42 | 3/8 |
| B | KL1120A5 | 615 170 013 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | M14x2 | 750 | 1.0 | 2.3 | 5.0 | 16 | 34 | 16 | 34 | 3/8 |
| B | KL1120B5 | 615 170 181 0 | 12000 | 127x6.4x22.2 | 5x1/4x7/8 | 5/8-11 | 750 | 1.0 | 2.3 | 5.0 | 16 | 34 | 16 | 34 | 3/8 |
| C | KA16100B6FVK | 615 170 470 0 | 10000 | 150x7.0x22.2 | 6x1/4x7/8 | 5/8-11 | 1500 | 2.0 | 1.9 | 4.2 | 20 | 42 | 32 | 68 | 3/8 |

5/8"-11 UNC

Accessories



KL185B7 / KL285B7 / KL285B7V / KL377B7 / KL377B7V / KA177B7 - ø 180mm (7")

ACCESSORIES INCLUDED

| ITEM | KL185B7 | KL285B7 / V ø 180mm (7") | KL377B7 / V ø 180mm (7") | KA177B7 ø 180mm (7") |
|--|---------------|-----------------------------|-----------------------------|-------------------------|
| • Vibration-damping side handle | | | | 615 576 066 0 |
| • 1/2" air hose nipple for 16mm (5/8") ID hose | 615 704 016 0 | 615 704 014 0 | 615 704 014 0 | 615 704 014 0 |
| • 1/2" air hose nipple for 13mm (1/2") ID hose | | | | |
| 1 Wheel guard | 615 504 095 0 | 615 504 182 0 | 615 504 133 0 | |
| 2 Rear flange for model B7 | 615 503 103 0 | 615 503 103 0 | 615 503 103 0 | |
| 3 Auto-balancer for model B7V | | 615 503 146 0 | | |
| 4 Nut | 615 542 104 0 | 615 542 104 0 | 615 542 104 0 | |
| 5 Safety screw | 615 614 034 0 | 615 614 034 0 | 615 614 034 0 | |
| • Pin wrench, 35mm (13/8") | 615 802 010 0 | 615 802 010 0 | 615 802 010 0 | |
| • Flat wrench, 27mm (1 1/16") | 615 801 077 0 | 615 801 077 0 | 615 801 077 0 | |
| • Hex. key 6mm | 615 802 056 0 | 615 802 056 0 | 615 802 056 0 | |

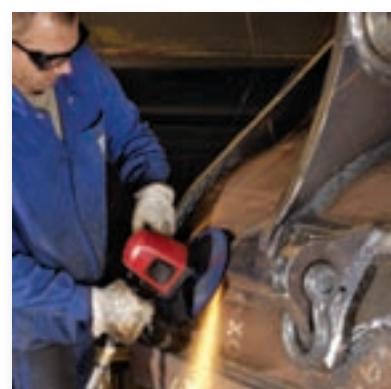
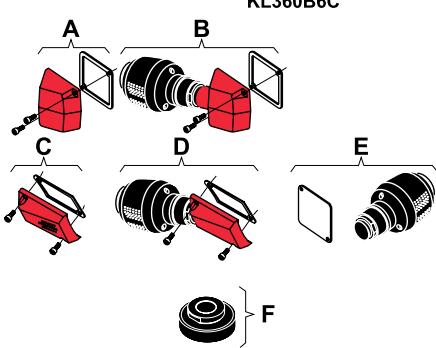
KL260B6C / KL360B6C - ø 150mm (6")

ACCESSORIES INCLUDED

| ITEM | PART NO. |
|--|---------------|
| • 1/2" air hose nipple for 16mm (5/8") ID hose | 615 704 014 0 |
| 1 Wheel guard | 615 504 181 0 |
| 2 Rear flange | 615 503 116 0 |
| 3 Safety screw | 615 614 034 0 |
| • Flat wrench, 27mm (1 1/16") | 615 801 077 0 |
| • Hex. key 6mm | 615 802 056 0 |

OPTIONAL ACCESSORIES

| ITEM | KL2.. / KL3.. | KL185B7 | KA177B7 |
|---------------------------------------|---------------|---------------|---------------|
| A Silencer kit | | 615 396 117 0 | |
| B Silencer kit | | 615 399 462 0 | |
| C Silencer kit | | | 615 399 298 0 |
| D Silencer kit | | | 615 399 459 0 |
| E Silencer kit | 615 399 463 0 | | |
| F Auto-balancer (except KL260/360B6C) | | 615 503 146 0 | 615 503 146 0 |



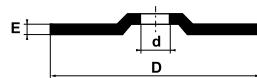
Grinders for depressed center wheels, cup wheels and flap wheels

ø 150mm (6") - ø 180mm (7")

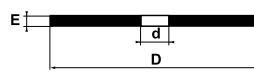
1200 to 3000 Watts (1.61 to 4.02 hp) - 6000 to 8500 rpm



Type 27-42 wheel



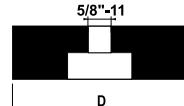
Type 41 wheel



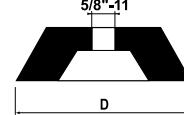
Depressed centre flap wheels



TYPE 6 wheel



TYPE 11 wheel



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø |
|---------|-------|-------------|------------|--------------------------|------------------|-------|--------|-------------------------------|-------------------------------|------------------|-------------|
| | | | rpm | mm in. | in. | W hp | kg lb. | l/s cfm | l/s cfm | in. | mm in. |

VERTICAL GRINDERS

| | | | | | | | | | | | | | | | | | |
|---|---------|---------------|------|--------------|--|---------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| A | KL185B7 | 615 170 012 0 | 8500 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 1200 | 1.61 | 2.8 | 6.1 | 16 | 34 | 27 | 57 | 1/2 | 13 | 1/2 |
| B | KL285B7 | 615 170 336 0 | 8500 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 2700 | 3.62 | 4.0 | 8.8 | 15 | 31 | 44 | 93 | 1/2 | 15 | 5/8 |
| B | KL377B7 | 615 170 341 0 | 7700 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 3000 | 4.02 | 4.2 | 9.2 | 19 | 40 | 46 | 97 | 1/2 | 15 | 5/8 |

LOW VIBRATION - VERTICAL GRINDERS

| | | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------------|--|---------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| B | KL285B7V | 615 170 471 0 | 8500 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 2700 | 3.62 | 4.1 | 9.0 | 15 | 31 | 44 | 93 | 1/2 | 15 | 5/8 |
| B | KL377B7V | 615 170 472 0 | 7700 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 3000 | 4.02 | 4.3 | 9.4 | 19 | 40 | 46 | 97 | 1/2 | 15 | 5/8 |

ANGLE GRINDER

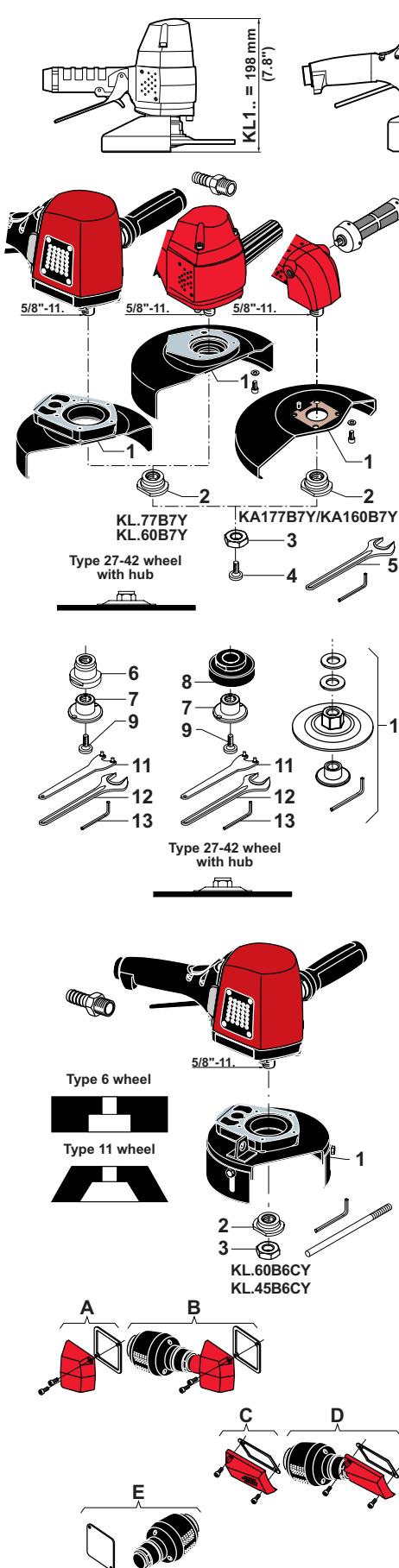
| | | | | | | | | | | | | | | | | | |
|---|---------|---------------|------|--------------|--|---------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| C | KA177B7 | 615 170 021 0 | 7700 | 180x9.5x22.2 | 7x ³ / ₈ x ⁷ / ₈ | 5/8"-11 | 1200 | 1.61 | 2.9 | 6.3 | 14 | 30 | 27 | 57 | 1/2 | 15 | 5/8 |
|---|---------|---------------|------|--------------|--|---------|------|------|-----|-----|----|----|----|----|-----|----|-----|

VERTICAL GRINDERS for cup wheels

| | | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|-----|---|---------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| D | KL260B6C | 615 170 334 0 | 6000 | 150 | 6 | 5/8"-11 | 2400 | 3.22 | 4.2 | 9.2 | 9 | 19 | 39 | 82 | 1/2 | 15 | 5/8 |
| D | KL360B6C | 615 170 337 0 | 6000 | 150 | 6 | 5/8"-11 | 2900 | 3.89 | 4.4 | 9.7 | 12 | 25 | 43 | 91 | 1/2 | 15 | 5/8 |

5/8"-11 UNC

Accessories



KL.77B7Y / KL.60B7Y / KA1..B7Y - ø 180mm (7")

| ACCESSORIES INCLUDED | | KL2..B7Y | KA177B7Y KA160B7Y |
|--|---------------|---------------|----------------------|
| ITEM | | KL1..B7Y | KL3..B7Y |
| • Vibration-damping side handle | | | 615 576 066 0 |
| • 1/2" air hose nipple for 16mm (5/8") ID hose | 615 704 014 0 | 615 704 014 0 | 615 704 014 0 |
| • 1/2" air hose nipple for 13mm (1/2") ID hose | 615 504 169 0 | 615 504 179 0 | 615 504 167 0 |
| 1 Wheel guard | 615 503 150 0 | 615 503 150 0 | 615 503 107 0 |
| 2 Rear flange | 615 608 049 0 | 615 608 049 0 | 615 608 049 0 |
| 3 Nut | 615 614 034 0 | 615 614 034 0 | 615 614 034 0 |
| 4 Safety screw | 615 801 077 0 | 615 801 077 0 | 615 801 077 0 |
| 5 Flat wrench, 27mm (1 1/16") | 615 802 056 0 | 615 802 056 0 | 615 802 056 0 |
| • Hex. key 6mm | | | |

OPTIONAL ACCESSORIES

| ITEM | KL.77B7Y KL.60B7Y KA177B7Y |
|--------------------------------|----------------------------------|
| 6 Rear flange | 615 503 103 0 |
| 7 Nut | 615 542 104 0 |
| 8 Auto-balancer | 615 503 146 0 |
| 9 Safety screw | 615 614 034 0 |
| 10 Wheel adaptor | C087920 |
| 11 Pin wrench, 35mm (1 3/8") | 615 802 010 0 |
| 12 Flat wrench, 27mm (1 1/16") | 615 801 077 0 |
| 13 Hex. key 6mm | 615 802 056 0 |

KL.60B6CY / KL245B6CY - ø 150mm (6")

| ACCESSORIES INCLUDED | | PART NO. |
|--|---------------|----------|
| ITEM | | |
| • 1/2" air hose nipple for 16mm (5/8") ID hose | 615 704 014 0 | |
| 1 Wheel guard | 615 504 178 0 | |
| 2 Rear flange | 615 503 150 0 | |
| 3 Nut | 615 608 049 0 | |
| • Lever | 615 595 202 0 | |
| • Hex. key 8mm (5/16") | 615 802 061 0 | |

OTHER OPTIONAL ACCESSORIES

| ITEM | KL1..B7Y | KL3..B.Y | KA177B7Y |
|----------------|---------------|---------------|----------|
| A Silencer kit | 615 396 117 0 | | |
| B Silencer kit | 615 399 462 0 | | |
| C Silencer kit | | 615 399 298 0 | |
| D Silencer kit | | 615 399 459 0 | |
| E Silencer kit | | 615 399 463 0 | |



Grinders for depressed center wheels, cup wheels and flap wheels

ø 150mm (6") - ø 180mm (7")

1100 to 2900 Watts (1.47 to 3.89 hp) - 4500 to 7700 rpm



A



B



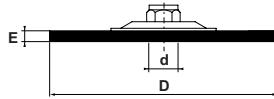
C



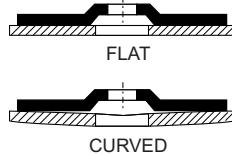
D

USA
Market
Only

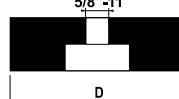
Type 27-42 wheel
with hub



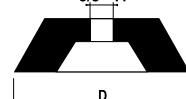
Depressed centre flap wheels



TYPE 6 wheel



TYPE 11 wheel



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | | | | |
|---------|-------|-------------|------------|--------------------------|------------------|-------|--------|-------------------------------|-------------------------------|------------------|-------------|-----|-----|-----|-----|----|-----|
| | | | rpm | mm | in. | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |

VERTICAL GRINDERS

For USA Market only (to ANSI B186.1)

| | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------------|-----------|--------|------|------|-----|-----|----|----|----|----|-----|--------|
| A | KL177B7Y | 615 170 182 0 | 7700 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 1200 | 1.61 | 2.8 | 6.1 | 8 | 17 | 25 | 53 | 1/2 | 13 1/2 |
| B | KL277B7Y | 615 170 342 0 | 7700 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 2600 | 3.48 | 4.0 | 8.8 | 14 | 29 | 42 | 89 | 1/2 | 15 5/8 |
| B | KL377B7Y | 615 170 348 0 | 7700 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 3000 | 4.02 | 4.2 | 9.2 | 19 | 40 | 46 | 97 | 1/2 | 15 5/8 |
| A | KL160B7Y | 615 170 183 0 | 6000 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 1100 | 1.47 | 2.8 | 6.1 | 6 | 13 | 24 | 51 | 1/2 | 13 1/2 |
| B | KL260B7Y | 615 170 343 0 | 6000 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 2400 | 3.22 | 4.0 | 8.8 | 10 | 21 | 39 | 82 | 1/2 | 15 5/8 |
| B | KL360B7Y | 615 170 349 0 | 6000 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 2900 | 3.89 | 4.2 | 9.2 | 12 | 25 | 43 | 91 | 1/2 | 15 5/8 |

ANGLE GRINDERS

For USA Market only (to ANSI B186.1)

| | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------------|-----------|--------|------|------|-----|-----|----|----|----|----|-----|--------|
| C | KA177B7Y | 615 170 179 0 | 7700 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 1200 | 1.61 | 2.9 | 6.3 | 14 | 30 | 27 | 57 | 1/2 | 15 5/8 |
| C | KA160B7Y | 615 170 247 0 | 6000 | 180x9.5x22.2 | 7x3/8x7/8 | 5/8-11 | 1200 | 1.61 | 2.9 | 6.3 | 9 | 19 | 24 | 50 | 1/2 | 15 5/8 |

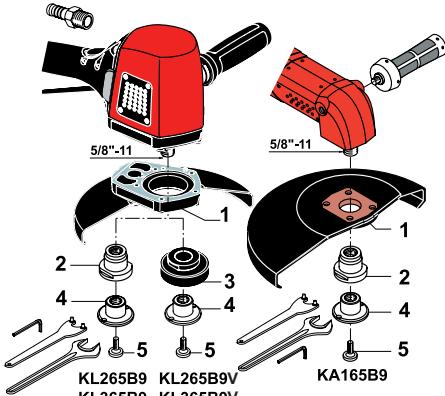
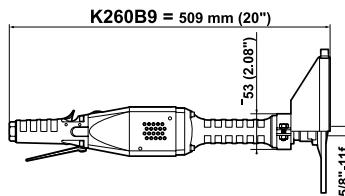
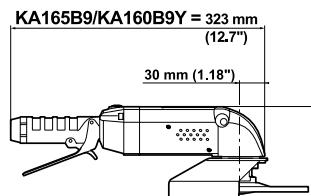
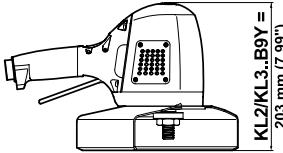
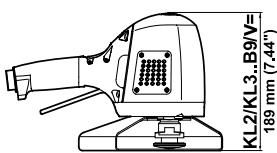
VERTICAL GRINDERS for cup wheels

For USA Market only (to ANSI B186.1)

| | | | | | | | | | | | | | | | | |
|---|-----------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|--------|
| D | KL260B6CY | 615 170 345 0 | 6000 | 150 | 6 | 5/8-11 | 2400 | 3.22 | 4.2 | 9.2 | 10 | 21 | 39 | 82 | 1/2 | 15 5/8 |
| D | KL360B6CY | 615 170 351 0 | 6000 | 150 | 6 | 5/8-11 | 2900 | 3.89 | 4.4 | 9.7 | 12 | 25 | 43 | 91 | 1/2 | 15 5/8 |
| D | KL245B6CY | 615 170 346 0 | 4500 | 150 | 6 | 5/8-11 | 1700 | 2.28 | 4.2 | 9.2 | 7 | 15 | 32 | 68 | 1/2 | 15 5/8 |

5/8-11 UNC

Accessories



KL.65B9 / KL.65B9V / KL.60B9Y / KL245B9Y / KA16.B9(Y) - ø 230mm (9")

ACCESSORIES INCLUDED

| ITEM | KL265B9 / V KL365B9 / V | KL.60B9Y KL245B9Y | KA165B9 | KA160B9Y |
|--|----------------------------|----------------------|---------------|---------------|
| • Vibration-damping side handle | | | 615 576 066 0 | 615 576 066 0 |
| • 1/2" air hose nipple for 16 mm (5/8") ID hose | 615 704 014 0 | 615 704 014 0 | 615 704 014 0 | 615 704 014 0 |
| 1 Wheel guard | 615 504 183 0 | 615 504 180 0 | 615 504 136 0 | 615 504 168 0 |
| 2 Rear flange for model B9 | 615 503 103 0 | | 615 503 103 0 | |
| 3 Auto-balancer for model B9V | 615 503 146 0 | | | |
| 4 Nut | 615 542 104 0 | | 615 542 104 0 | |
| 5 Safety screw | 615 614 034 0 | 615 614 034 0 | 615 614 034 0 | 615 608 049 0 |
| 6 Nut | | 615 608 049 0 | | 615 608 049 0 |
| • Flat wrench, 27mm (1 1/16") | 615 801 077 0 | 615 801 077 0 | 615 801 077 0 | 615 801 077 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | | 615 802 010 0 | |
| • Hex. Key 6mm | 615 802 056 0 | 615 802 056 0 | 615 802 056 0 | 615 802 056 0 |

OPTIONAL ACCESSORIES

KL.60B9Y
KL245B9Y
KA160B9Y

| ITEM | 2 Rear flange | 615 503 103 0 |
|-------------------------------|-----------------|---------------|
| | 3 Auto-balancer | 615 503 146 0 |
| | 4 Nut | 615 542 104 0 |
| | 5 Safety screw | 615 614 034 0 |
| | 6 Wheel adaptor | C087920 |
| • Pin wrench, 35mm (1 3/8") | | 615 802 010 0 |
| • Flat wrench, 27mm (1 1/16") | | 615 801 077 0 |
| • Hex. Key 6mm | | 615 802 056 0 |

K260B9 - ø 230mm (9")

ACCESSORIES INCLUDED

| ITEM | K260B9 |
|---|---------------|
| • 1/2" air hose nipple for 16 mm (5/8") ID hose | 615 704 014 0 |
| 1 Wheel guard | 615 504 161 0 |
| 2 Rear flange | 615 503 103 0 |
| 3 Nut | 615 542 104 0 |
| 4 Safety screw | 615 614 034 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 |
| • Flat wrench, 27mm (1 1/16") | 615 801 077 0 |
| • Hex. Key 6mm | 615 802 056 0 |

OTHER OPTIONAL ACCESSORIES

KL.65B9
KL.60B9Y
KL245B9Y

| ITEM | K260B9 | KA165B9 | KA160B9Y |
|-----------------|---------------|---------------|---------------|
| A Silencer kit | 615 399 460 0 | | |
| B Silencer kit | | 615 399 298 0 | 615 399 298 0 |
| C Silencer kit | | 615 399 459 0 | 615 399 459 0 |
| D Silencer kit | | 615 399 463 0 | |
| E Auto-balancer | 615 503 146 0 | 615 503 146 0 | |

Grinders for depressed center wheels

Ø 230mm (9")

1000 to 2900 Watts (1.34 to 3.89 hp) - 4500 to 6500 rpm



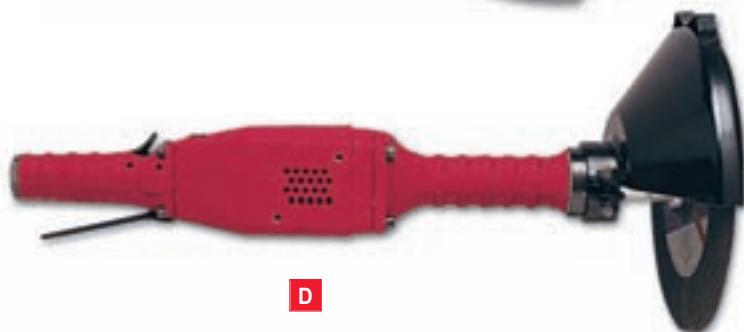
A



C

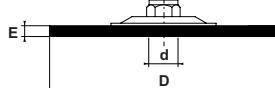


B

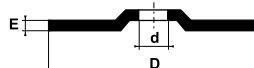


D

Type 27-42 wheel
with hub



Type 27-42 wheel



Type 41 wheel



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | WHEEL MAX CAPACITY DxExd | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX OUTPUT | AIR INLET THREAD | HOSE INT. Ø |
|---------|-------|-------------|------------|--------------------------|------------------|-------|-------------|-------------------------------|-------------------------------|------------------|-------------|
| | | | rpm | mm | in. | in. | W hp kg lb. | l/s cfm | l/s cfm | in. | mm in |

VERTICAL GRINDERS

| | | | | | | | | | | | | | | | | |
|---|---------|---------------|------|--------------|-----------|--------|-----------|-----|-----|----|----|----|----|-----|----|-----|
| A | KL265B9 | 615 170 335 0 | 6500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2400 3.22 | 4.2 | 9.2 | 10 | 21 | 40 | 84 | 1/2 | 15 | 5/8 |
| A | KL365B9 | 615 170 338 0 | 6500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2900 3.89 | 4.4 | 9.7 | 13 | 27 | 44 | 93 | 1/2 | 15 | 5/8 |

For USA Market only (to ANSI B186.1)

| | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------------|-----------|--------|-----------|-----|-----|----|----|----|----|-----|----|-----|
| B | KL260B9Y | 615 170 344 0 | 6000 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2400 3.22 | 4.2 | 9.2 | 10 | 21 | 39 | 82 | 1/2 | 15 | 5/8 |
| B | KL360B9Y | 615 170 350 0 | 6000 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2900 3.89 | 4.4 | 9.7 | 12 | 25 | 43 | 91 | 1/2 | 15 | 5/8 |
| B | KL245B9Y | 615 170 347 0 | 4500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 1700 2.28 | 4.2 | 9.2 | 7 | 15 | 32 | 68 | 1/2 | 15 | 5/8 |

LOW VIBRATION - VERTICAL GRINDERS

| | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------------|-----------|--------|-----------|-----|-----|----|----|----|----|-----|----|-----|
| A | KL265B9V | 615 170 473 0 | 6500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2400 3.22 | 4.3 | 9.4 | 10 | 21 | 40 | 84 | 1/2 | 15 | 5/8 |
| A | KL365B9V | 615 170 474 0 | 6500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2900 3.89 | 4.5 | 9.9 | 13 | 27 | 44 | 93 | 1/2 | 15 | 5/8 |

ANGLE GRINDERS

| | | | | | | | | | | | | | | | | |
|----------|-----------------|----------------------|-------------|---------------------|------------------|---------------|------------------|------------|------------|----------|-----------|-----------|-----------|------------|-----------|------------|
| C | KA165B9 | 615 170 020 0 | 6500 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 1200 1.61 | 3.0 | 6.6 | 11 | 23 | 25 | 53 | 1/2 | 15 | 5/8 |
| C | KA160B9Y | 615 170 180 0 | 6000 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 1000 1.34 | 3.0 | 6.6 | 9 | 19 | 24 | 50 | 1/2 | 15 | 5/8 |

STRAIGHT GRINDERS

| | | | | | | | | | | | | | | | | |
|---|--------|---------------|------|--------------|-----------|--------|-----------|-----|------|----|----|----|----|-----|----|-----|
| D | K260B9 | 615 170 007 0 | 6000 | 230x6.4x22.2 | 9x1/4x7/8 | 5/8-11 | 2200 2.95 | 5.0 | 11.0 | 10 | 21 | 38 | 80 | 1/2 | 15 | 5/8 |
|---|--------|---------------|------|--------------|-----------|--------|-----------|-----|------|----|----|----|----|-----|----|-----|

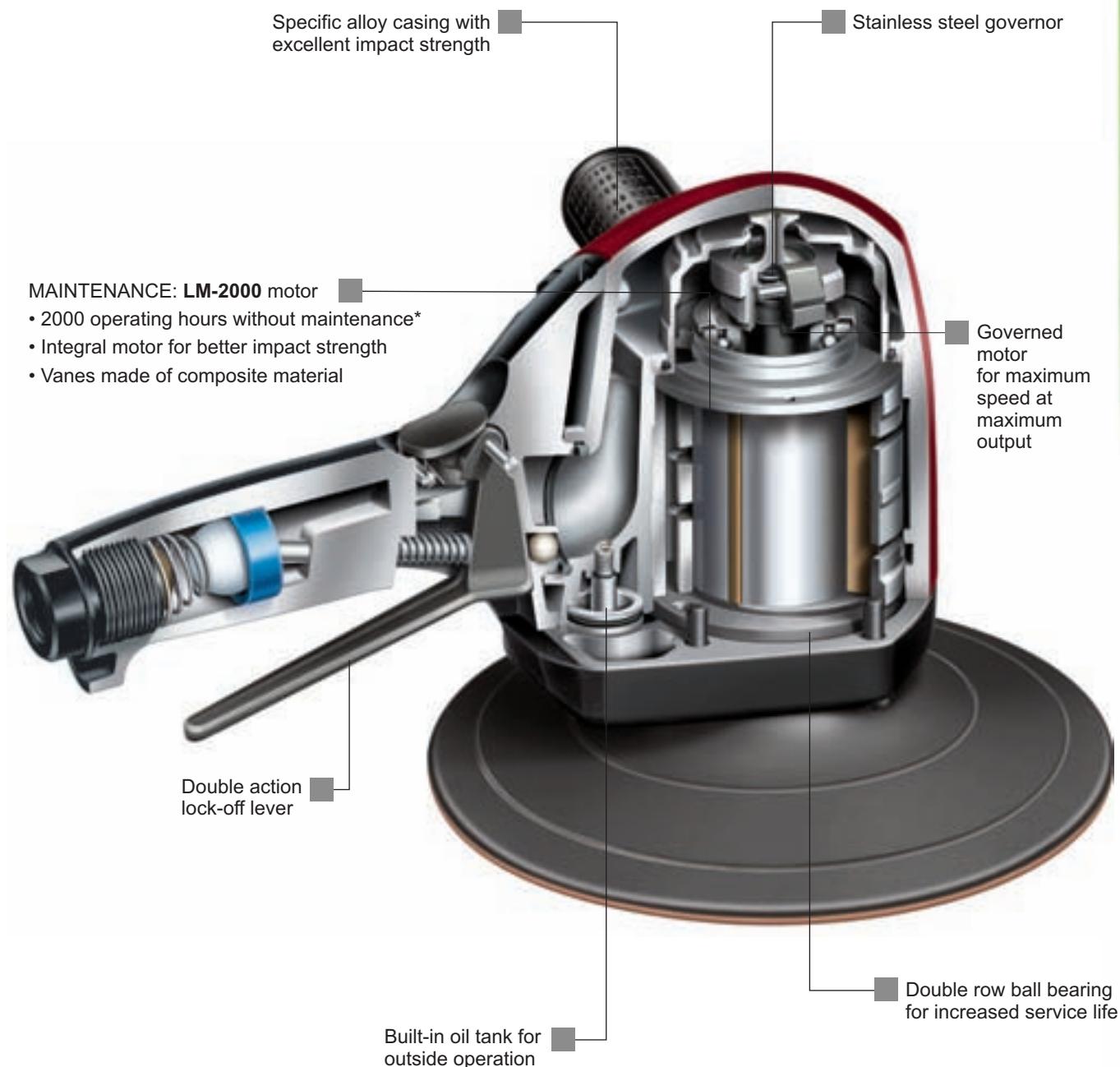
5/8"-11 UNC



Desoutter

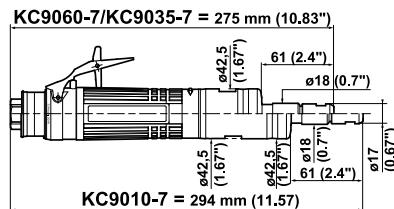
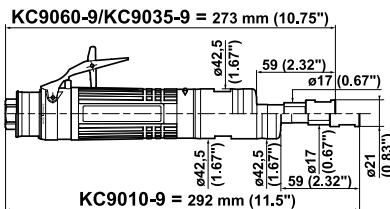


Sanders for abrasive discs, flap wheels & polishing accessories



* Subject to use as per the instruction manual supplied with the tool

Accessories



KC9060-9 / KC9035-9 / KC9010-9

ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • Series 200 resilient collet, ø 5.55 to 6.35mm (1/4") | 615 526 063 0 |
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 |
| • Clamp | 615 873 415 0 |
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 |
| • Flat wrench, 14mm | 615 801 005 0 |
| • Flat wrench, 19mm (3/4") | 615 801 076 0 |
| • Side handle | 615 576 068 0 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|---|---------------|
| • Series 200 resilient collet, ø 2.4 to 3.2mm (1/8") | 615 526 061 0 |
| • Series 200 resilient collet, ø 5.2 to 6mm | 615 526 062 0 |
| • Series 200 resilient collet, ø 7.2 to 8mm (5/16") | 615 526 064 0 |
| • Series 200 resilient collet, ø 8.7 to 9.5mm (3/8") | 615 526 065 0 |
| 1 Nut 3/8" - 24 | 615 608 044 0 |
| 2 Complete silencer kit | 615 396 166 0 |
| 3 Clamp | 615 873 115 0 |
| 4 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 5 Clippable silencer | 615 396 655 0 |

KC9060-7 / KC9035-7 / KC9010-7

ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • CNOMO collet ø 6mm | 615 526 049 0 |
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 |
| • Clamp | 615 873 415 0 |
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 |
| • Flat wrench, 14mm (Qty 2) | 615 801 005 0 |
| • Side handle | 615 576 068 0 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|---|---------------|
| • CNOMO collet ø 3mm | 615 526 048 0 |
| • CNOMO collet ø 6.35mm (1/4") | 615 526 050 0 |
| • CNOMO collet ø 8mm (5/16") | 615 526 051 0 |
| 1 Nut 3/8" - 24 | 615 608 044 0 |
| 2 Complete silencer kit | 615 396 166 0 |
| 3 Clamp | 615 873 115 0 |
| 4 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 5 Clippable silencer | 615 396 655 0 |



Sanders for expandable wheels, flap wheels, brushes...

900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with series 200 Erickson collet, ø 5.55 to 6.35mm (1/4")

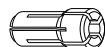


A



B

Series 200 Erickson collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX. POWER | | AIR INLET THREAD | HOSE INT. Ø | |
|---------|----------|---------------|------------|---------------------|-------|------|--------|-----|-------------------------------|-----|-------------------------------|-----|------------------|-------------|-----|
| | | | rpm | mm in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KC9060-9 | 615 170 166 0 | 5500 | 9.5 3/8 | 900 | 1.21 | 1.38 | 3.0 | 10 | 21 | 16 | 34 | 3/8 | 10 | 3/8 |
| A | KC9035-9 | 615 170 167 0 | 3500 | 9.5 3/8 | 900 | 1.21 | 1.38 | 3.0 | 6 | 13 | 14 | 30 | 3/8 | 10 | 3/8 |
| B | KC9010-9 | 615 170 168 0 | 1000 | 9.5 3/8 | 900 | 1.21 | 1.45 | 3.2 | 10 | 21 | 16 | 34 | 3/8 | 10 | 3/8 |

Sanders for expandable wheels, flap wheels, brushes...

900 Watts (1.21 hp) - 1000 to 5500 rpm

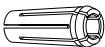


A



B

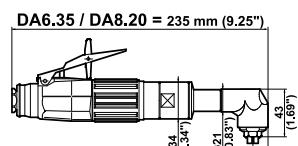
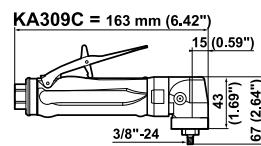
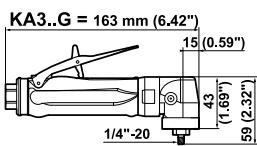
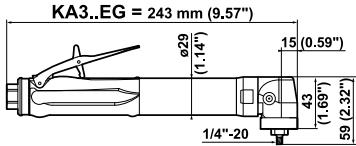
CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET MAX CAPACITY | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX. POWER | | AIR INLET THREAD | HOSE INT. Ø | |
|---------|----------|---------------|------------|---------------------|-------|------|--------|-----|-------------------------------|-----|-------------------------------|-----|------------------|-------------|-----|
| | | | rpm | mm in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |
| A | KC9060-7 | 615 170 122 0 | 5500 | 8 5/16 | 900 | 1.21 | 1.38 | 3.0 | 10 | 21 | 16 | 34 | 3/8 | 10 | 3/8 |
| A | KC9035-7 | 615 170 121 0 | 3500 | 8 5/16 | 900 | 1.21 | 1.38 | 3.0 | 6 | 13 | 14 | 30 | 3/8 | 10 | 3/8 |
| B | KC9010-7 | 615 170 120 0 | 1000 | 8 5/16 | 900 | 1.21 | 1.45 | 3.2 | 10 | 21 | 16 | 34 | 3/8 | 10 | 3/8 |

Accessories



KA3..EG / KA3..G / KA309C

ACCESSORIES INCLUDED

PART NO.

- Exhaust hose L = 0.8m (31") 615 875 106 0
- 1/4" air hose nipple for 8mm (5/16") ID hose 615 704 019 0
- Flat wrench, 11mm (7/16") 615 801 003 0

KA309C
3/8"-24

- ITEM 1 Excentric sanding head for 1" pad

615 396 251 0

OTHER OPTIONAL ACCESSORIES

PART NO.

- | | |
|---------------------------------------|---------------|
| ITEM | PART NO. |
| 2 Complete silencer kit | 615 396 101 0 |
| 3 Silencer | 615 574 028 0 |
| 4 Clippable silencer | 615 396 124 0 |
| 5 Grease gun (capacity 24g - 0.8oz) | 615 990 149 0 |
| • Grease for bevel gear (1kg - 2.2lb) | 615 990 148 0 |

DA6.35 / DA8.20

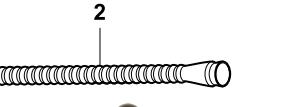
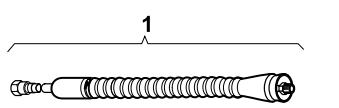
ACCESSORIES INCLUDED

PART NO.

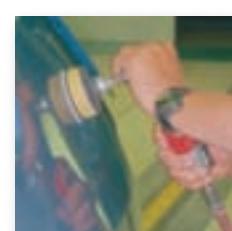
- Collet Ø 6mm 615 526 079 0
- 1/4" air hose nipple for 6mm (1/4") ID hose 615 705 009 0
- Flat wrench, 10mm (3/8") 615 801 002 0
- Flat wrench, 14mm 615 801 005 0

PART NO.

- | | |
|--------------------------------|---------------|
| ITEM | PART NO. |
| 1 Complete silencer kit | 615 399 423 0 |
| 2 Exhaust hose L = 0.8m (31") | 615 875 106 0 |
| 3 Backing pad Ø 50mm (3 1/32") | 615 804 098 0 |
| • Collet Ø 2mm | 615 526 066 0 |
| • Collet Ø 2.5mm | 615 526 068 0 |
| • Collet Ø 3mm | 615 526 069 0 |
| • Collet Ø 3.5mm | 615 526 070 0 |
| • Collet Ø 4mm (5/32") | 615 526 071 0 |
| • Collet Ø 4.5mm | 615 526 073 0 |
| • Collet Ø 5mm | 615 526 075 0 |
| • Collet Ø 5.5mm | 615 526 077 0 |
| • Collet Ø 6mm | 615 526 079 0 |
| • Collet Ø 6.5mm (1/4") | 615 526 081 0 |
| • Collet Ø 7mm | 615 526 083 0 |
| • Collet Ø 7.5mm | 615 526 084 0 |
| • Collet Ø 8mm (5/16") | 615 526 088 0 |



See page 159



Sanders for abrasive discs

220 to 375 Watts (0.3 to 0.5 hp) - 2100 to 20000 rpm

Supplied with 1/4" or 3/8" threaded spindle only



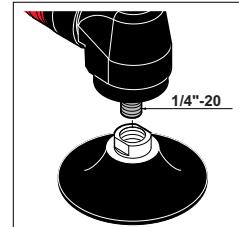
A



B



C



CNOMO collet, Ø 6mm

D

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | ABRASIVE MAX CAPACITY | | THREADED SPINDLE | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX SPEED | | AIR INLET THREAD | HOSE INT. Ø | | |
|------------|---------|----------------|---------------|-----------------------------|------|---------------------|-------|-----|--------|------|-------------------------------------|-----|------------------------------------|-----|------------------------|-------------------|----|------|
| | | | | rpm | ø mm | | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | |
| A | KA320EG | 615 170 048 0 | 20000 | 76 | 3 | 1/4-20 | | 375 | 0.5 | 0.67 | 1.47 | 6.5 | 13.5 | 10 | 21 | 1/4 | 8 | 5/16 |
| A | KA312EG | 615 170 040 0 | 12000 | 76 | 3 | 1/4-20 | | 375 | 0.5 | 0.67 | 1.47 | 3.0 | 6.5 | 9 | 19 | 1/4 | 8 | 5/16 |
| B | KA320G | 615 170 044 0 | 20000 | 76 | 3 | 1/4-20 | | 375 | 0.5 | 0.50 | 1.10 | 6.5 | 13.5 | 10 | 21 | 1/4 | 8 | 5/16 |
| B | KA318G | 615 170 310 0 | 18000 | 76 | 3 | 1/4-20 | | 375 | 0.5 | 0.50 | 1.10 | 3.0 | 6.5 | 9 | 19 | 1/4 | 8 | 5/16 |
| B | KA312G | 615 170 038 0 | 12000 | 76 | 3 | 1/4-20 | | 375 | 0.5 | 0.50 | 1.10 | 3.0 | 6.5 | 9 | 19 | 1/4 | 8 | 5/16 |
| B | KA309G | 615 170 204 0 | 9000 | 76 | 3 | 1/4-20 | | 220 | 0.3 | 0.50 | 1.10 | 2.2 | 4.7 | 8 | 17 | 1/4 | 8 | 5/16 |
| C | KA309C | 615 170 203 0 | 9000 | 76 | 3 | 3/8-24 | | 220 | 0.3 | 0.50 | 1.10 | 2.2 | 4.7 | 8 | 17 | 1/4 | 8 | 5/16 |

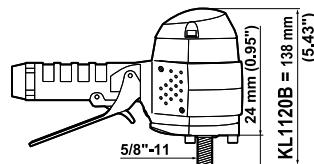
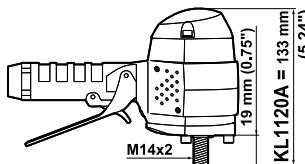
LOW SPEED SANDERS

Collet Max

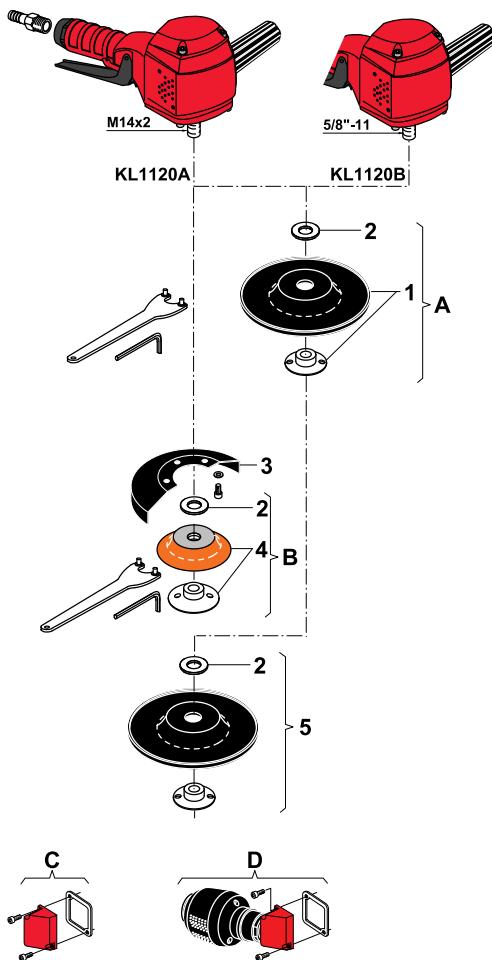
| | | | | | | | | | | | | | | | | |
|---|--------|---------------|------|------------------|--|-----|-----|-----|-----|-----|------|---|---|-----|---|-----|
| D | DA6.35 | 615 176 019 0 | 3500 | cap. 8mm (5/16") | | 300 | 0.4 | 0.9 | 2.0 | 8.0 | 17.0 | - | - | 1/4 | 6 | 1/4 |
| D | DA8.20 | 615 176 030 0 | 2100 | cap. 8mm (5/16") | | 300 | 0.4 | 0.9 | 2.0 | 8.0 | 17.0 | - | - | 1/4 | 6 | 1/4 |

1/4"-20 UNC - 3/8"-24 UNF

Accessories



KL1120A / KL1120B



ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 |

OPTIONAL ACCESSORIES

| Sanding with standard abrasive disc ø 127mm (5") | ITEM | KL1120A M14x2 | KL1120B 5/8"-11 |
|---|---|------------------|--------------------|
| A Soft sanding kit for abrasive disc (including item 1-2) | 1 Ventilated backing pad with nut M14 & 5/8" (max. 12000 rpm) | 615 399 251 0 | 615 399 251 0 |
| | • Pin wrench, 35mm (1 3/8") | 615 990 127 0 | 615 990 127 0 |
| | • Hex key 8mm (5/16") | 615 802 010 0 | 615 802 010 0 |
| 2 M14 Spacer | 615 802 061 0 | 615 802 061 0 | |
| 2 5/8" Spacer | 615 641 027 0 | | 615 642 050 0 |

Sanding with semirigid disc ø 127mm (5")

| Sanding with semirigid disc ø 127mm (5") | ITEM | KL1120A M14x2 | KL1120B 5/8"-11 |
|---|---|------------------|--------------------|
| 3 Wheel guard | | 615 504 086 0 | |
| B Sanding kit for semirigid disc (including item 4-2) | 4 Backing pad with nut M14 (max. 12000 rpm) | 615 399 203 0 | 615 990 129 0 |
| | 2 M14 Spacer | 615 641 027 0 | |
| | • Hex key 8mm (5/16") | 615 802 061 0 | |
| | • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | |

Sanding with standard abrasive disc ø 127mm (5")

| Sanding with standard abrasive disc ø 127mm (5") | ITEM | KL1120A M14x2 | KL1120B 5/8"-11 |
|--|---------------|------------------|--------------------|
| 5 Semi-hard backing pad with nut M14 & 5/8" (max. 12000 rpm) | 2 M14 Spacer | 615 804 074 0 | 615 804 074 0 |
| | 2 5/8" Spacer | 615 641 027 0 | |
| | | | 615 642 050 0 |

OTHER OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|----------------|---------------|
| C Silencer kit | 615 396 117 0 |
| D Silencer kit | 615 399 462 0 |



Sanders for abrasive discs

Ø 127mm (5")

750 Watts (1.02 hp) - 12000 rpm

Supplied with M14 or 5/8" threaded spindle only



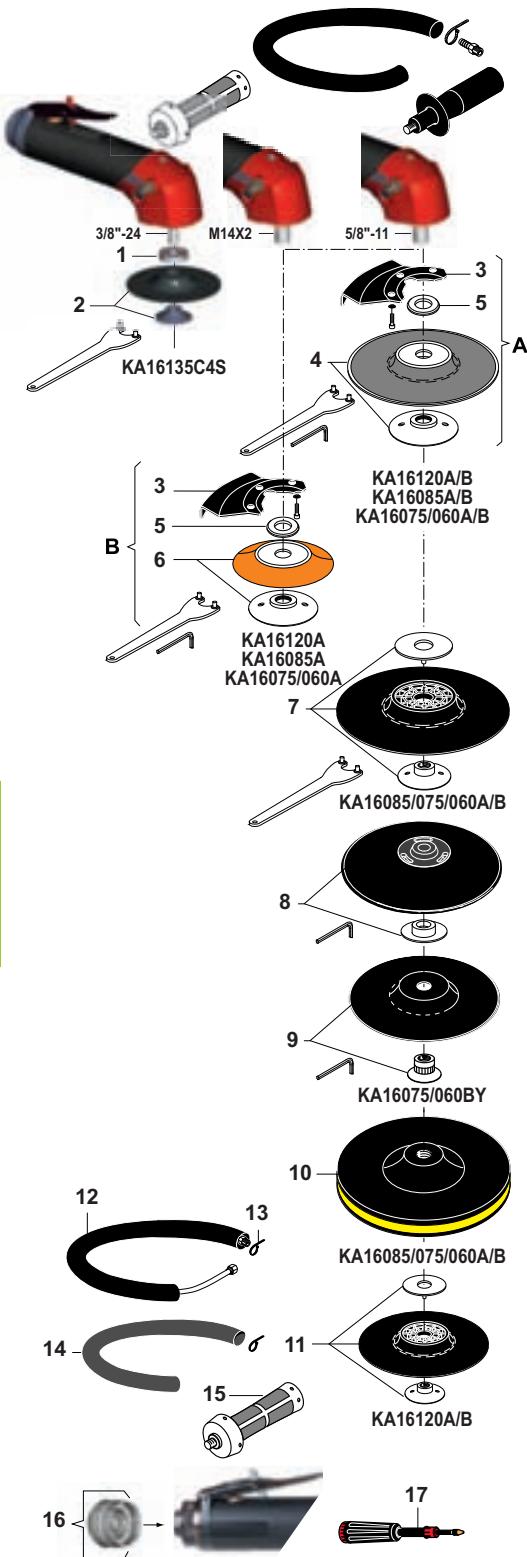
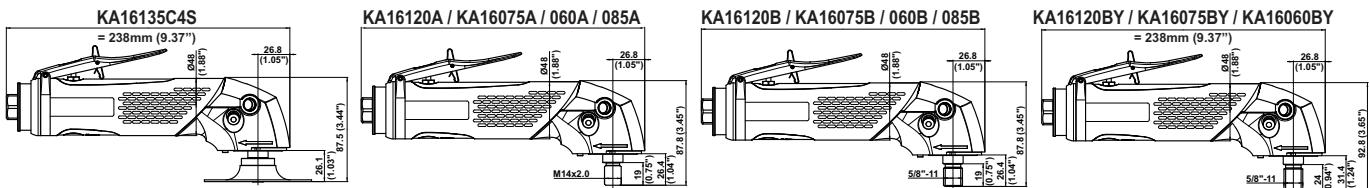
A

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | ABRASIVE MAX CAPACITY | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR INLET THREAD | HOSE INT. Ø |
|------------|---------|----------------|---------------|-----------------------------|---------------------|-------------|------------|----------------------------------|------------------------|-------------------|
| | | | rpm | ø mm ø in. | in. | W hp | kg lb. | l/s cfm | in. | mm in. |
| A | KL1120A | 615 170 022 0 | 12000 | 127 5 | M14x2 5/8-11 | 750 1.02 | 2.2 4.8 | 16 34 | 3/8 10 | 3/8 10 |
| A | KL1120B | 615 170 207 0 | 12000 | 127 5 | | 750 1.02 | 2.2 4.8 | 16 34 | 3/8 10 | 3/8 10 |

5/8"-11 UNC

Accessories



KA16135C4S / KA16120/075/060A-B-BY / KA16085A-B

ACCESSORIES INCLUDED

ITEM

| | KA16135C4S 3/8"-24 | KA16120 | KA16085 KA16075/060 |
|---|-----------------------|---------------|------------------------|
| • Exhaust hose L= 1.5m (60") | 615 875 113 0 | 615 875 113 0 | 615 875 113 0 |
| • Clamp | 615 263 024 0 | 615 263 024 0 | 615 263 024 0 |
| • 3/8" air hose nipple for 13mm ID hose | 615 704 027 0 | 615 704 027 0 | 615 704 027 0 |
| • Side handle | | | 615 576 038 0 |
| • Flat wrench, 17mm (11/16") | 615 801 032 0 | 615 801 032 0 | 615 801 032 0 |
| • Vibration-damping side handle | 615 576 066 0 | 615 576 066 0 | |
| 1 Flange | 615 606 515 0 | | |
| 2 Backing with nut | 615 990 167 0 | | |
| • Pin wrench, 20-3mm | 615 802 008 0 | | |

OPTIONAL ACCESSORIES

| | KA16120A | KA16120B |
|--|---------------------------|-----------------------------|
| Sanding with standard abrasive disc ø 127mm (5") | KA16085/075/060A M14x2 | KA16085/075/060B 5/8"-11 |

ITEM

| | | |
|--|---------------|---------------|
| A Sanding kit for abrasive disc (including items 4-5) | 615 396 072 0 | 615 396 072 0 |
| 3 Finger guard | 615 504 145 0 | 615 504 145 0 |
| 4 Ventilated backing pad with nut M14 & 5/8" (max. 12.000 rpm) | 615 990 127 0 | 615 990 127 0 |
| • Pin wrench, 35mm (1-3/8") | 615 802 010 0 | 615 802 010 0 |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 |
| 5 M14 Spacer | 615 641 027 0 | |
| 5 5/8" Spacer | | 615 642 050 0 |

Sanding with semirigid disc ø 127mm (5")

| | KA16120A | KA16085/075/060A |
|------|----------|------------------|
| ITEM | M14x2 | M14x2 |

ITEM

| | | |
|--|----------------|----------------|
| B Sanding kit for semirigid disc (including items 4-7) | 615 396 075 0 | 615 396 075 0 |
| 3 Finger guard | 615 504 145 0 | 615 504 145 0 |
| 6 Backing pad with nut M14 (max. 12.000 rpm) | 615 990 129 0* | 615 990 129 0* |
| • Pin wrench, 35mm (1-3/8") | 615 802 010 0 | 615 802 010 0 |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 |
| 5 M14 Spacer | 615 641 027 0 | |

Sanding

| | KA16085/075/060A M14x2 | KA16085/075/060B 5/8"-11 | KA16075/060BY 5/8"-11 |
|--|---------------------------|-----------------------------|--------------------------|
|--|---------------------------|-----------------------------|--------------------------|

ITEM

| | | |
|---|----------------|----------------|
| 7 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm) | 615 990 133 0* | 615 990 133 0* |
| 7 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8.500 rpm) | 615 990 134 0* | 615 990 134 0* |
| • Pin wrench 35mm (1-3/8") | 615 802 010 0 | 615 802 010 0 |
| 8 Spiracool pad whit nut ø 180mm (7") (max.8500 rpm) | | S091836 |
| 9 Complete kit ø 180mm (7") (max.7000 rpm) for KA16060BY | | K129587 |
| • Hex key 8mm (5/16") | | 615 802 061 0 |
| 10 Rigid velcro-backed backing pad ø 180mm (7") (max.8700 rpm) | 615 990 145 0 | 615 990 146 0 |
| 10 Rigid velcro-backed backing pad ø 150mm (6") (max.10000 rpm) | 615 990 137 0 | 615 990 138 0 |

* Spare part: Nut 6156060220 for M14 model and 6156060290 for 5/8"-11

OTHER OPTIONAL ACCESSORIES

| | PART NO. |
|--|----------|
|--|----------|

| | |
|---|---------------|
| 11 Semi-hard backing pad with nut M14 & 5/8" - ø 127mm (5") (max. 12.000 rpm) | 615 804 074 0 |
| 12 Complete silencer kit | 615 396 166 0 |
| 13 Clamp | 615 263 024 0 |
| 14 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 15 Vibration-damping side handle | 615 576 066 0 |
| 16 Clippable silencer | 615 396 957 0 |
| 17 Grease gun includes 24g (0.8 oz) | 615 990 149 0 |
| • Grease for bevel gear (1 kg -2.2 lb) | 615 990 148 0 |

Sanders for abrasive discs

Ø100mm (4") - Ø127mm (5") - Ø150mm (6") - Ø180mm (7")
1250 to 1600 Watts (1.69 to 2.15 hp) - 6000 to 13500 rpm

Supplied with M14 or 5/8" threaded spindle only



A



B



C D



C D

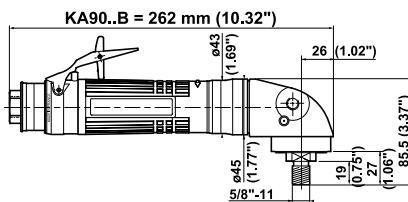
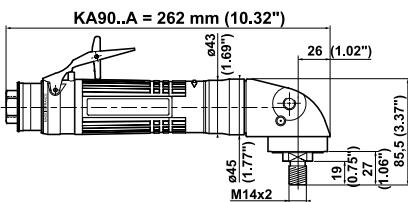
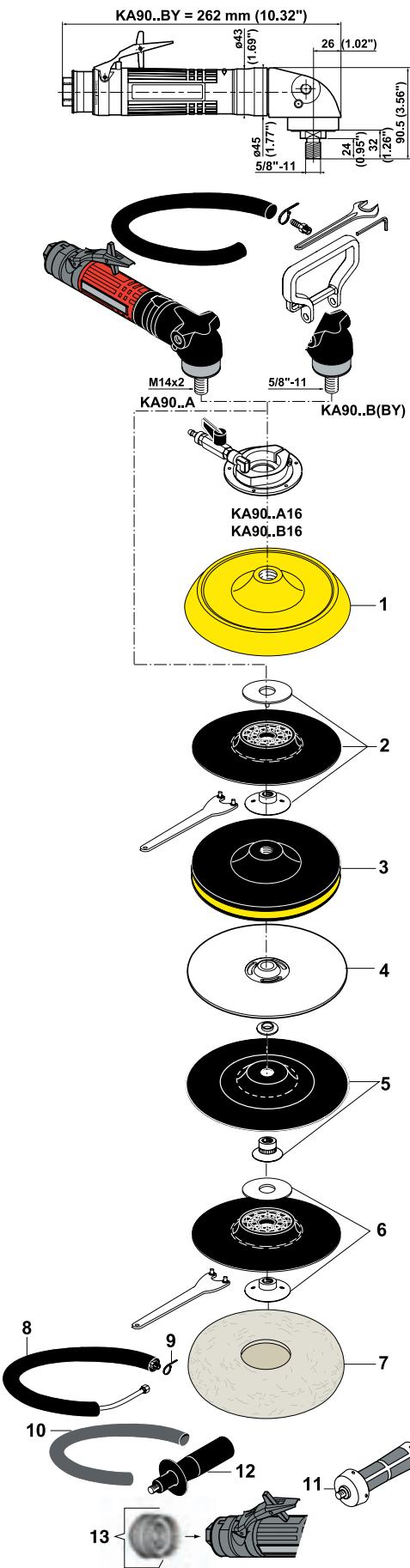


Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | THREADED SPINDLE | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX SPEED | | AIR INLET THREAD | HOSE INT. Ø | |
|---|------------|----------------|---------------|---------------------|-------|------|--------|-----|-------------------------------------|-----|------------------------------------|-----|------------------------|-------------------|-----|
| | | | | | rpm | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | |
| A | KA16135C4S | 615 170 446 0 | 13500 | 5/8-24 | 1 600 | 2.15 | 1.48 | 3.3 | 25 | 53 | 35 | 74 | 3/8 | 13 | 1/2 |
| B | KA16120A | 615 170 435 0 | 12000 | M14x2 | 1 600 | 2.15 | 1.39 | 3.0 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| B | KA16120B | 615 170 445 0 | 12000 | 5/8-11 | 1 600 | 2.15 | 1.39 | 3.0 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| C/D | KA16085A | 615 170 468 0 | 8500 | M14x2 | 1 600 | 2.15 | 1.39 | 3.0 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| C/D | KA16085B | 615 170 469 0 | 8500 | 5/8-11 | 1 600 | 2.15 | 1.39 | 3.0 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| C/D | KA16075A | 615 170 448 0 | 7500 | M14x2 | 1 400 | 1.90 | 1.39 | 3.0 | 15 | 32 | 27 | 57 | 3/8 | 13 | 1/2 |
| C/D | KA16075B | 615 170 452 0 | 7500 | 5/8-11 | 1 400 | 1.90 | 1.39 | 3.0 | 15 | 32 | 27 | 57 | 3/8 | 13 | 1/2 |
| C/D | KA16060A | 615 170 449 0 | 6000 | M14x2 | 1 250 | 1.69 | 1.41 | 3.1 | 11 | 23 | 23 | 49 | 3/8 | 13 | 1/2 |
| C/D | KA16060B | 615 170 453 0 | 6000 | 5/8-11 | 1 250 | 1.69 | 1.41 | 3.1 | 11 | 23 | 23 | 49 | 3/8 | 13 | 1/2 |
| For USA Market only (to ANSI B186.1) | | | | | | | | | | | | | | | |
| B | KA16120BY | 615 170 447 0 | 12000 | 5/8-11 | 1 600 | 2.15 | 1.41 | 3.1 | 20 | 42 | 32 | 68 | 3/8 | 13 | 1/2 |
| D | KA16075BY | 615 170 450 0 | 7500 | 5/8-11 | 1 400 | 1.90 | 1.41 | 3.1 | 15 | 32 | 27 | 57 | 3/8 | 13 | 1/2 |
| D | KA16060BY | 615 170 451 0 | 6000 | 5/8-11 | 1 250 | 1.69 | 1.41 | 3.1 | 11 | 23 | 23 | 49 | 3/8 | 13 | 1/2 |

3/8"-24 UNF - 5/8"-11 UNC

Accessories



KA90..A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 |
| • Clamp | 615 873 415 0 |
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 |
| • Support handle | 615 576 069 0 |
| • Flat wrench, 17mm (11/16") | 615 801 032 0 |
| • Hex key 8mm (5/16") | 615 802 061 0 |
| • Water intake system for KA90..A16 and B16 | 615 396 113 0 |

OPTIONAL ACCESSORIES

KA90..A16 and KA90..B16 with water intake

Water sanding

| ITEM | KA90..A16 | KA90..B16 |
|--|---------------|---------------|
| 1 Foam pad ø 200mm (8") (max 3000 rpm) | 615 990 139 0 | 615 990 015 0 |
| 1 Foam pad ø 180mm (7") (max 3200 rpm) | 615 990 140 0 | 615 990 144 0 |
| 1 Foam pad ø 150mm (6") (max 3800 rpm) | 615 990 135 0 | |

All pads are medium hardness, with a centre hole

Sanding

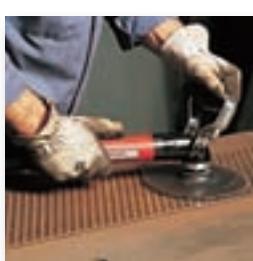
| ITEM | KA90..A | KA90..B | KA9030/20BY |
|--|---------------|---------------|---------------|
| 2 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm) | 615 990 133 0 | 615 990 133 0 | |
| 2 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm) | 615 990 134 0 | 615 990 134 0 | |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | |
| 3 Rigid velcro-backed backing pad ø 180mm (7") (max. 8700 rpm) | 615 990 145 0 | 615 990 146 0 | |
| 3 Rigid velcro-backed backing pad ø 150mm (6") (max. 10000 rpm) | 615 990 137 0 | 615 990 138 0 | |
| 4 Spiracool pad with nut ø 180mm (7") (max. 8500 rpm) | | | S091836 |
| 4 Spiracool pad with nut ø 230mm (9") (max. 6500 rpm) | | | S091839 |
| 5 Complete Kit ø 180mm (7") (max. 7000 rpm) | | | K129587 |
| • Hex. Key 8mm (5/16") | | | 615 802 061 0 |

Polishing

| ITEM | KA90..A | KA90..B |
|---|---------------|---------------|
| 6 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm) | 615 990 133 0 | 615 990 133 0 |
| • Pin wrench 35mm (1 3/8") | 615 802 010 0 | 615 845 999 0 |

OTHER OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|---------------|
| 8 Complete silencer kit | 615 396 166 0 |
| 9 Clamp | 615 873 115 0 |
| 10 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 11 Vibration-damping side handle | 615 576 066 0 |
| 12 Side handle | 615 576 038 0 |
| 13 Clippable silencer | 615 396 655 0 |



Sanders for abrasive discs

polishing and water sanding

ø 150mm (6") - ø 180mm (7") - ø 200mm (8") - ø 230mm (9")
900 Watts (1.21 hp) - 2000 - 3000 rpm

Supplied with M14 or 5/8" threaded spindle only

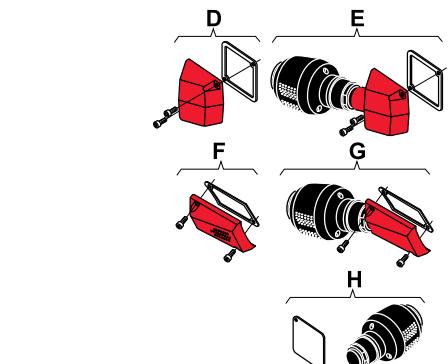
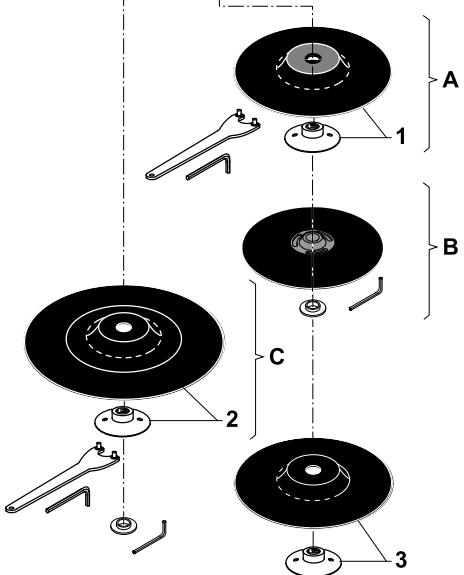
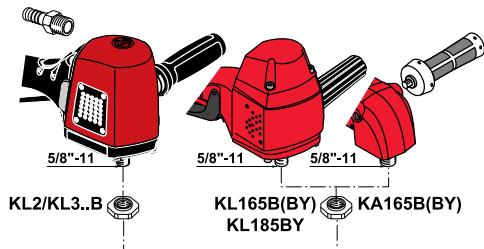
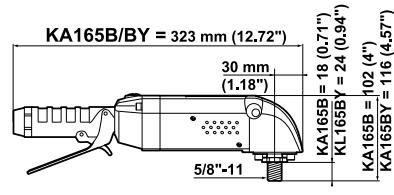
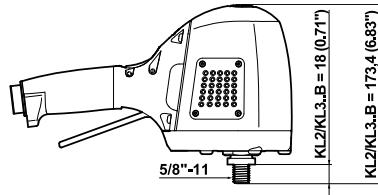
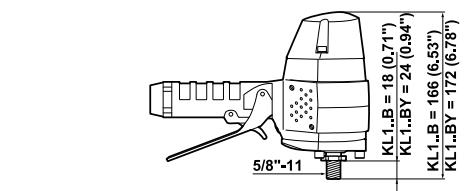


With water intake
in the center of the pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | THREADED SPINDLE | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR INLET THREAD | | HOSE Ø | | |
|---|-----------|----------------|---------------|---------------------|-------------|------|--------|-----|-------------------------------------|-----|------------------------|-----|-----------|-----|-----|
| | | | | | rpm | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. |
| A | KA9030A | 615 170 098 0 | 3000 | M14x2 | 900 | 1.21 | 1.6 | 3.5 | 13 | 27 | 17 | 36 | 3/8 | 10 | 3/8 |
| A | KA9030B | 615 170 099 0 | 3000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 13 | 27 | 17 | 36 | 3/8 | 10 | 3/8 |
| A | KA9020A | 615 170 096 0 | 2000 | M14x2 | 900 | 1.21 | 1.6 | 3.5 | 7 | 15 | 17 | 36 | 3/8 | 10 | 3/8 |
| A | KA9020B | 615 170 097 0 | 2000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 7 | 15 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KA9030A16 | 615 170 102 0 | 3000 | M14x2 | 900 | 1.21 | 2.0 | 4.4 | 13 | 27 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KA9030B16 | 615 170 103 0 | 3000 | 5/8-11 | 900 | 1.21 | 2.0 | 4.4 | 13 | 27 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KA9020A16 | 615 170 100 0 | 2000 | M14x2 | 900 | 1.21 | 2.0 | 4.4 | 7 | 15 | 17 | 36 | 3/8 | 10 | 3/8 |
| B | KA9020B16 | 615 170 101 0 | 2000 | 5/8-11 | 900 | 1.21 | 2.0 | 4.4 | 7 | 15 | 17 | 36 | 3/8 | 10 | 3/8 |
| For USA Market only (to ANSI/B186.1) | | | | | | | | | | | | | | | |
| A | KA9030BY | 615 170 309 0 | 3000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 13 | 27 | 17 | 36 | 3/8 | 10 | 3/8 |
| | | | | | 5/8"-11 UNC | | | | | | | | | | |

Accessories



KL165B(BY) / KL185BY / KL245B / KL265B / KL360B / KA165B(BY)

ACCESSORIES INCLUDED

| | KL165B(BY) | KL2.5B | KL360B | KA165B(BY) |
|--|---------------|---------------|---------------|---------------|
| • Rear flange | 615 503 107 0 | 615 503 107 0 | 615 503 107 0 | 615 503 149 0 |
| • Rear flange (for BY model) | 615 503 151 0 | 615 503 151 0 | 615 503 151 0 | |
| • 1/2" air hose nipple for 13mm (1/2") ID hose | 615 704 016 0 | | | |
| • 1/2" air hose nipple for 15mm (5/8") ID hose | | 615 704 014 0 | 615 704 014 0 | 615 576 066 0 |
| • Vibration-damping side handle | | | | |

OPTIONAL ACCESSORIES

| | Sanding with standard abrasive disc Ø 180mm (7") | KL165B | KL2.5B | KL360B |
|--|--|---------------|--------|--------|
| ITEM | | KA165B | KA165B | KA165B |
| A Sanding kit for abrasive disc (including item 1) | 615 396 131 0 | 615 396 131 0 | | |
| 1 Soft Backing pad with nut (max. 8500 rpm) | 615 990 133 0* | 615 990 133 0 | | |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | | |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 | | |

*Spare Part: Nut 615 608 047 0

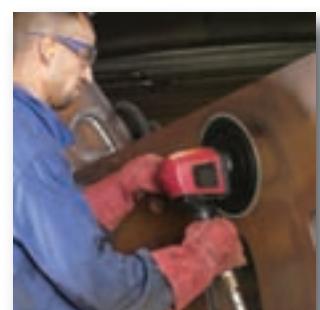
| | Sanding with Spiracool pad Ø 180mm (7") | KL185BY | KL165BY | KA165BY |
|---------------------------------|---|---------------|---------------|---------|
| ITEM | | KA165B | KA165B | KA165B |
| B Spiracool pad (max. 8500 rpm) | S091836 | S091836 | | |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 | 615 802 061 0 | |

| | Sanding with standard abrasive disc Ø 230mm (9") | KL2.5B | KL360B | |
|--|--|----------------|--------|--|
| ITEM | | KA165B | KA165B | |
| C Sanding kit for abrasive disc (including item 2) | 615 396 134 0 | 615 396 134 0 | | |
| 2 Soft Backing pad with nut (max. 6500 rpm) | 615 990 141 0* | 615 990 141 0* | | |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 | | |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 | | |

* Spare Part: Nut 615 608 029 0

OTHER OPTIONAL ACCESSORIES

| | KL185BY | KL2.5B | KL360B | KA165B(BY) |
|---|---------------|---------------|---------------|------------|
| ITEM | KL165B(BY) | KL360B | KA165B | |
| 3 Rigid backing pad with nut Ø 180mm (7") (max. 8500 rpm) (except BY model) | 615 990 134 0 | 615 990 134 0 | 615 990 134 0 | |
| D Silencer kit | 615 396 117 0 | | | |
| E Silencer kit | 615 399 462 0 | | | |
| F Silencer kit | | 615 399 298 0 | | |
| G Silencer kit | | 615 399 459 0 | | |
| H Silencer kit | | 615 399 463 0 | | |



Sanders for abrasive discs

Ø 180mm (7") - Ø 230mm (9")

1200 to 2700 Watts (1.61 to 3.62 hp) - 4500 to 8500 rpm

Supplied with 5/8" threaded spindle only



Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | ABRASIVE MAX CAPACITY | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | | AIR CONSUMPTION AT MAX SPEED | | AIR INLET THREAD | HOSE INLET Ø | | | | |
|---------|-------|-------------|------------|-----------------------|------------------|-------|--------|-------------------------------|----|------------------------------|-----|------------------|--------------|-----|-----|----|-----|
| | | | rpm | ø mm | ø in. | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |

VERTICAL SANDERS

| | | | | | | | | | | | | | | | | | |
|---|--------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| A | KL165B | 615 170 011 0 | 6500 | 180 | 7 | 5/8-11 | 1200 | 1.61 | 2.3 | 5.1 | 6 | 13 | 25 | 53 | 1/2 | 13 | 1/2 |
| B | KL245B | 615 170 333 0 | 4500 | 230 | 9 | 5/8-11 | 2000 | 2.70 | 3.5 | 7.7 | 7 | 15 | 32 | 68 | 1/2 | 15 | |
| B | KL265B | 615 170 339 0 | 6500 | 230 | 9 | 5/8-11 | 2200 | 3.00 | 3.5 | 7.7 | 11 | 23 | 41 | 87 | 1/2 | 15 | 5/8 |
| B | KL360B | 615 170 340 0 | 6000 | 230 | 9 | 5/8-11 | 2700 | 3.62 | 3.7 | 8.2 | 12 | 25 | 43 | 91 | 1/2 | 15 | 5/8 |

ANGLE SANDER

| | | | | | | | | | | | | | | | | | |
|---|--------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| C | KA165B | 615 170 025 0 | 6500 | 180 | 7 | 5/8-11 | 1200 | 1.61 | 2.3 | 5.1 | 11 | 23 | 25 | 53 | 1/2 | 15 | 5/8 |
|---|--------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|

VERTICAL SANDERS

For USA Market only (to ANSI/B186.1)

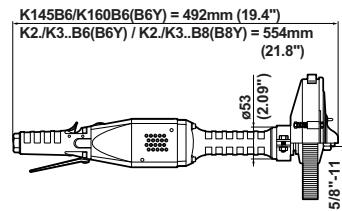
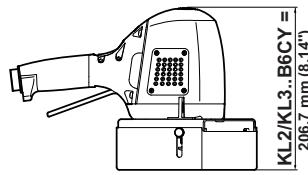
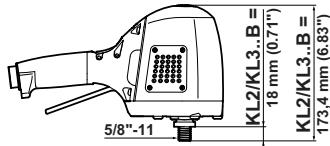
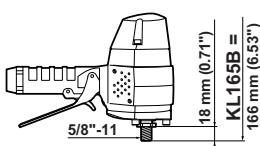
| | | | | | | | | | | | | | | | | | |
|---|---------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| A | KL185BY | 615 170 240 0 | 8500 | 180 | 7 | 5/8-11 | 1200 | 1.61 | 2.3 | 5.1 | 16 | 34 | 27 | 57 | 1/2 | 13 | 1/2 |
| A | KL165BY | 615 170 241 0 | 6500 | 180 | 7 | 5/8-11 | 1200 | 1.61 | 2.3 | 5.1 | 6 | 13 | 25 | 53 | 1/2 | 13 | 1/2 |

ANGLE SANDER

For USA Market only (to ANSI/B186.1)

| | | | | | | | | | | | | | | | | | |
|---|---------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|
| C | KA165BY | 615 170 245 0 | 6500 | 180 | 7 | 5/8-11 | 1200 | 1.61 | 2.3 | 5.1 | 11 | 23 | 25 | 53 | 1/2 | 15 | 5/8 |
|---|---------|---------------|------|-----|---|--------|------|------|-----|-----|----|----|----|----|-----|----|-----|

Accessories

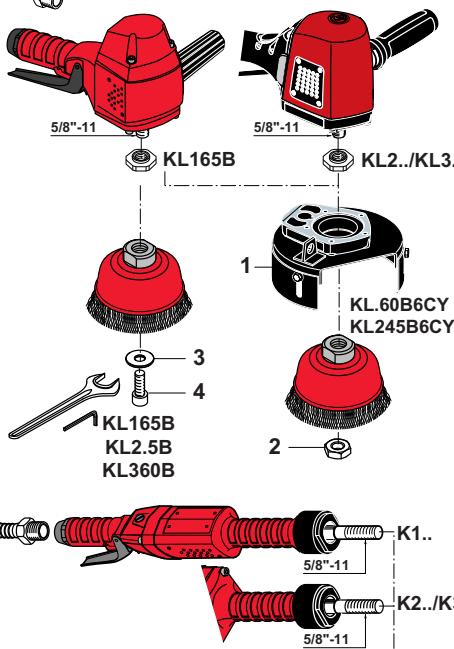


KL165B / KL2.5B / KL360B / KL.60B6CY / KL245B6CY

ACCESSORIES INCLUDED

To be used with cup brush (not included)

| ITEM | KL165B | KL2.5B | KL360B | KL.60B6CY KL245B6CY |
|--|---------------|---------------|---------------|------------------------|
| • Rear flange | 615 503 107 0 | 615 503 107 0 | 615 503 151 0 | |
| • 1/2" air hose nipple for 13mm (1/2") ID hose | 615 704 016 0 | | | |
| • 1/2" air hose nipple for 15mm (5/8") ID hose | | 615 704 014 0 | 615 704 014 0 | |
| 1 Wheel guard | | | 615 504 178 0 | |
| 2 Nut | | | 615 608 049 0 | |
| • Flat wrench 27mm (11/16") | | | 615 801 077 0 | |



OPTIONAL ACCESSORIES

Kit for cup brush, max ø 150mm (6"), thread 5/8"-11

| ITEM | KL165B | KL2.5B | KL360B |
|-------------------------------------|---------------|--------|--------|
| • Complete kit (including item 3-4) | 615 396 133 0 | | |
| 3 Allen screw M8x20 | 615 616 002 0 | | |
| 4 Washer L8 | 615 642 070 0 | | |
| • Flat wrench 27mm (11/16") | 615 801 077 0 | | |
| • Hex. Key 6mm | 615 802 056 0 | | |

K145B6 / K.60B6(B6Y) / K.45B8(B8Y)

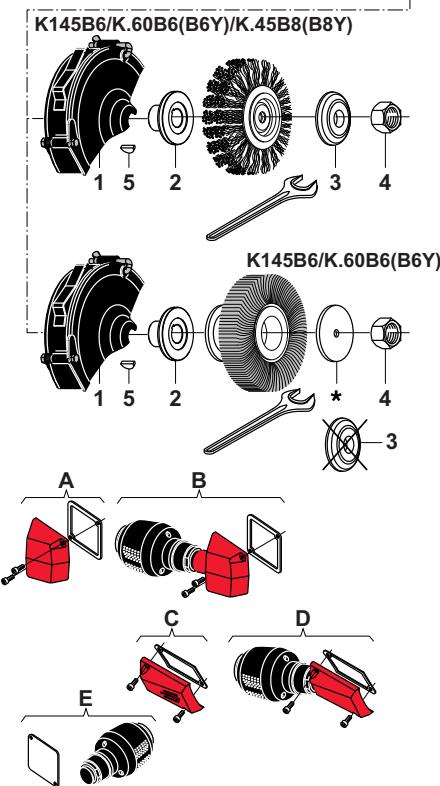
ACCESSORIES INCLUDED

| ITEM | K145B6 K.60B6(B6Y) FLAP WHEEL ø 165mm (6-5/8") | K145B6 K.60B6(B6Y) ø 150mm (6") | K345B8(B8Y) RADIAL BRUSHES ø 200mm (8") |
|--|---|---------------------------------------|---|
| • 1/2" air hose nipple for 15mm (5/8") ID hose | 615 704 014 0 | 615 704 014 0 | 615 704 014 0 |
| 1 Wheel guard | 615 504 079 0 | 615 504 079 0 | 615 504 078 0 |
| 2 Rear flange | 615 503 028 0 | 615 503 028 0 | 615 503 004 0 |
| 3 Front flange | 615 502 027 0 | 615 502 027 0 | 615 502 007 0 |
| 4 Nut | 615 608 006 0 | 615 608 006 0 | 615 608 006 0 |
| 5 Woodruff key | 615 630 019 0 | 615 630 019 0 | 615 630 019 0 |
| • Flat wrench 27mm (11/16") | 615 801 077 0 | 615 801 077 0 | 615 802 077 0 |

* Flange supplied with flap wheel. To be drilled to fit the diameter of the output shaft of the tool.

OTHER OPTIONAL ACCESSORIES

| ITEM | KL165B | K2../K3.. | K145B6 K.60B6(B6Y) | KL2../KL3.. |
|----------------|---------------|---------------|-----------------------|---------------|
| A Silencer Kit | 615 396 117 0 | | | |
| B Silencer Kit | 615 399 462 0 | 615 399 460 0 | | |
| C Silencer Kit | | | 615 399 298 0 | |
| D Silencer Kit | | | 615 399 459 0 | |
| E Silencer Kit | | | | 615 399 463 0 |



Brushing machines for cup and radial brushes

Polishing machines for flap wheels

Ø 150mm (6") - Ø 165mm (6⁵/₈") - Ø 200mm (8")

1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 6500 rpm



Other characteristics, see pages 165, 179 and 195

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PIC REF | MODEL | PART NUMBER | ACCESSORIES | FREE SPEED | THREADED SPINDLE | POWER | WEIGHT | | |
|---------|-------|-------------|-------------|------------|------------------|-------|--------|----|-----|
| | | | | rpm | in. | w | hp | kg | lb. |

VERTICAL MACHINES to be used with CUP BRUSHES

| | | | | | | | | | |
|---|--------|---------------|---|------|--------|------|------|-----|-----|
| A | KL165B | 615 170 011 0 | + Kit 615 396 133 0 (Max Ø 150mm (6") - thread 5/8"-11) | 6500 | 5/8-11 | 1200 | 1.61 | 2.4 | 5.3 |
| B | KL245B | 615 170 333 0 | + Kit 615 396 133 0 (Max Ø 150mm (6") - thread 5/8"-11) | 4500 | 5/8-11 | 2000 | 2.70 | 3.5 | 7.7 |
| B | KL265B | 615 170 339 0 | + Kit 615 396 133 0 (Max Ø 150mm (6") - thread 5/8"-11) | 6500 | 5/8-11 | 2200 | 3.00 | 3.5 | 7.7 |
| B | KL360B | 615 170 340 0 | + Kit 615 396 133 0 (Max Ø 150mm (6") - thread 5/8"-11) | 6000 | 5/8-11 | 2700 | 3.62 | 3.7 | 8.2 |

For the USA Market only (to ANSI B186.1)

| | | | | | | | | | |
|---|-----------|---------------|---------------------------------|------|--------|------|------|-----|-----|
| C | KL260B6CY | 615 170 345 0 | Max Ø 150mm (6") thread 5/8"-11 | 6000 | 5/8-11 | 2200 | 3.00 | 4.2 | 9.2 |
| C | KL360B6CY | 615 170 351 0 | Max Ø 150mm (6") thread 5/8"-11 | 6000 | 5/8-11 | 2700 | 3.62 | 4.4 | 9.7 |
| C | KL245B6CY | 615 170 346 0 | Max Ø 150mm (6") thread 5/8"-11 | 4500 | 5/8-11 | 1700 | 2.28 | 4.2 | 9.2 |

STRAIGHT MACHINES to be used with RADIAL BRUSHES

| | | | | | | | | | |
|---|--------|---------------|---------------------------------------|------|--------|------|------|-----|------|
| D | K145B6 | 615 170 002 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 4500 | 5/8-11 | 1000 | 1.34 | 3.5 | 7.7 |
| E | K260B6 | 615 170 008 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 6000 | 5/8-11 | 2000 | 2.70 | 5.1 | 11.2 |
| E | K360B6 | 615 170 010 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 6000 | 5/8-11 | 2700 | 3.62 | 5.6 | 12.3 |
| E | K245B8 | 615 170 006 0 | Max Ø 200mm x bore 15.9mm (8" x 5/8") | 4500 | 5/8-11 | 1800 | 2.41 | 5.8 | 12.7 |
| E | K345B8 | 615 170 009 0 | Max Ø 200mm x bore 15.9mm (8" x 5/8") | 4500 | 5/8-11 | 2400 | 3.22 | 6.3 | 13.9 |

For the USA Market only (to ANSI B186.1)

| | | | | | | | | | |
|---|---------|---------------|---------------------------------------|------|--------|------|------|-----|------|
| D | K160B6Y | 615 170 173 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 6000 | 5/8-11 | 1200 | 1.61 | 3.5 | 7.7 |
| E | K260B6Y | 615 170 175 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 6000 | 5/8-11 | 2000 | 2.70 | 5.1 | 11.2 |
| E | K360B6Y | 615 170 177 0 | Max Ø 150mm x bore 15.9mm (6" x 5/8") | 6000 | 5/8-11 | 2700 | 3.62 | 5.6 | 12.3 |
| E | K345B8Y | 615 170 178 0 | Max Ø 200mm x bore 15.9mm (8" x 5/8") | 4500 | 5/8-11 | 2400 | 3.22 | 6.3 | 13.9 |

STRAIGHT MACHINES to be used with FLAP WHEEL

| | | | | | | | | | |
|---|--------|---------------|--|------|--------|------|------|-----|------|
| F | K145B6 | 615 170 002 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 4500 | 5/8-11 | 1000 | 1.34 | 3.5 | 7.7 |
| F | K160B6 | 615 170 003 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 1200 | 1.61 | 3.5 | 7.7 |
| G | K260B6 | 615 170 008 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 2000 | 2.70 | 5.1 | 11.2 |
| G | K360B6 | 615 170 010 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 2700 | 3.52 | 5.6 | 12.3 |

For the USA Market only (to ANSI B186.1)

| | | | | | | | | | |
|---|---------|---------------|--|------|--------|------|------|-----|------|
| F | K160B6Y | 615 170 173 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 1200 | 1.61 | 3.5 | 7.7 |
| G | K260B6Y | 615 170 175 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 2000 | 2.70 | 5.1 | 11.2 |
| G | K360B6Y | 615 170 177 0 | Max. Ø 165 x 30 x 15.9mm (6 ⁵ / ₈ " x 1 ³ / ₁₆ " x 5/8") | 6000 | 5/8-11 | 2700 | 3.62 | 5.6 | 12.3 |

5/8"-11 UNC



Dust extraction systems for grinders and sanders

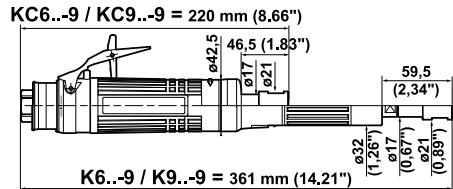
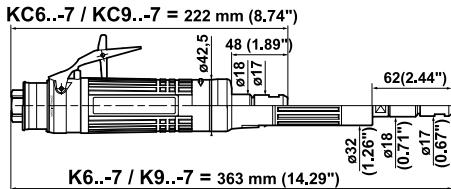


Suction cap with or without brush
for metallic or non metallic materials

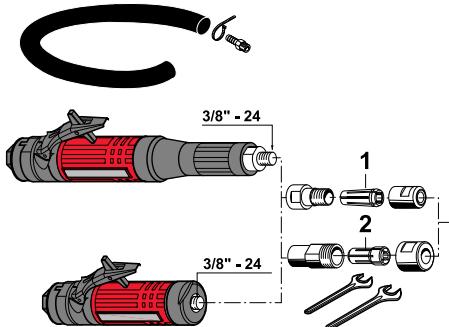
Dust extraction systems:

- **Straight machines:** for diamond burrs and diamond cylinders
- **Vertical machines and angle machines:** for grinding discs, sanding discs and diamond discs

Accessories



K6..- / K9..- / KC6..- / KC9..-



ACCESSORIES INCLUDED

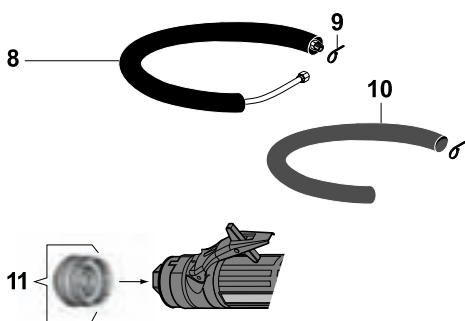
| ITEM | COLLET CNOMO | COLLET SERIES 200 |
|--|-----------------|----------------------|
| 1 CNOMO collet ø 6mm | 615 526 049 0 | |
| 2 Series 200 resilient collet, ø 5.55 to 6.35mm (1/4") | 615 526 063 0 | 615 875 113 0 |
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 | 615 873 415 0 |
| • Clamp | 615 873 415 0 | 615 873 415 0 |
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 | 615 704 017 0 |
| • Flat wrench 14mm | 615 801 005 0 | 615 801 005 0 |
| • Flat wrench 19mm (3/4") | 615 801 076 0 | |

OPTIONAL ACCESSORIES

| ITEM | K6..- / K9..- | KC6..- / KC9..- |
|---|---------------|-----------------|
| 3 Suction cap | 615 396 013 0 | |
| 4 Suction cap | 615 396 023 0 | |
| 5 Suction cap | 615 396 014 0 | |
| 6 Diamond cylinder ø 27mm (1 1/16"), shank ø 6mm (1/4") (20000 rpm max) | 615 860 003 0 | 615 860 003 0 |
| 7 Diamond cylinder ø 52mm (2 1/16"), shank ø 6mm (1/4") (15000 rpm max) | | 615 860 004 0 |

OTHER OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|---------------|
| 8 Complete silencer kit | 615 396 166 0 |
| 9 Clamp | 615 873 115 0 |
| 10 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 11 Clippable silencer | 615 396 655 0 |



Dust extraction systems for straight grinders

600 - 900 Watts (0.8 - 1.21 hp) - 12000 to 28000 rpm



A



B



B



615 396 014 0
Vacuum hose,
ID 25mm
(1")



615 396 013 0
Vacuum hose,
ID 32mm
(1 1/4")



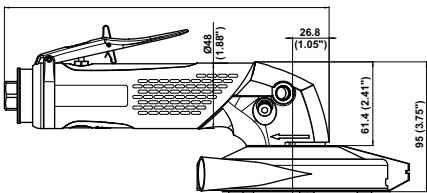
615 396 023 0
Vacuum hose,
ID 32mm
(1 1/4")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

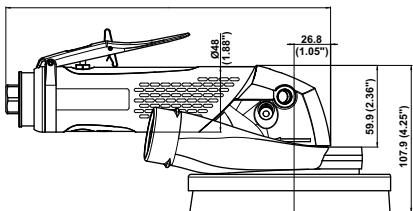
| PIC REF | MODEL | PART NUMBER | | SUCTION CAP ASSEMBLY | FREE SPEED | POWER | | WEIGHT | | AIR INLET THREAD |
|------------|--------|----------------------|---------------------------|----------------------------------|---------------|-------|------|--------|-----|------------------------|
| | | CNOMO COLLET (-7) | SERIES 200 COLLET (-9) | | | rpm | W | hp | kg | |
| A | K628- | 615 170 107 0 | 615 170 150 0 | + 615 396 014 0 | 28000 | 600 | 0.80 | 1.3 | 2.9 | 3/8 |
| A | K624- | 615 170 106 0 | 615 170 151 0 | + 615 396 014 0 | 24000 | 600 | 0.80 | 1.3 | 2.9 | 3/8 |
| A | K922- | 615 170 119 0 | 615 170 152 0 | + 615 396 014 0 | 22000 | 900 | 1.21 | 1.4 | 3.1 | 3/8 |
| A | K619- | 615 170 105 0 | 615 170 153 0 | + 615 396 014 0 | 19000 | 600 | 0.80 | 1.3 | 2.9 | 3/8 |
| A | K918- | 615 170 117 0 | 615 170 154 0 | + 615 396 014 0 | 18000 | 900 | 1.21 | 1.4 | 3.1 | 3/8 |
| A | K615- | 615 170 104 0 | 615 170 155 0 | + 615 396 014 0 | 15000 | 600 | 0.80 | 1.3 | 2.9 | 3/8 |
| A | K915- | 615 170 114 0 | 615 170 156 0 | + 615 396 014 0 | 15000 | 900 | 1.21 | 1.4 | 3.1 | 3/8 |
| A | K912- | 615 170 110 0 | 615 170 157 0 | + 615 396 014 0 | 12000 | 900 | 1.21 | 1.4 | 3.1 | 3/8 |
| B | KC628- | 615 170 126 0 | 615 170 158 0 | + 615 396 013 0 or 615 396 023 0 | 28000 | 600 | 0.80 | 0.9 | 2.0 | 3/8 |
| B | KC624- | 615 170 125 0 | 615 170 159 0 | + 615 396 013 0 or 615 396 023 0 | 24000 | 600 | 0.80 | 0.9 | 2.0 | 3/8 |
| B | KC922- | 615 170 130 0 | 615 170 160 0 | + 615 396 013 0 or 615 396 023 0 | 22000 | 900 | 1.21 | 1.0 | 2.2 | 3/8 |
| B | KC619- | 615 170 124 0 | 615 170 161 0 | + 615 396 013 0 or 615 396 023 0 | 19000 | 600 | 0.80 | 0.9 | 2.0 | 3/8 |
| B | KC918- | 615 170 129 0 | 615 170 162 0 | + 615 396 013 0 or 615 396 023 0 | 18000 | 900 | 1.21 | 1.0 | 2.2 | 3/8 |
| B | KC615- | 615 170 123 0 | 615 170 163 0 | + 615 396 013 0 or 615 396 023 0 | 15000 | 600 | 0.80 | 0.9 | 2.0 | 3/8 |
| B | KC915- | 615 170 128 0 | 615 170 164 0 | + 615 396 013 0 or 615 396 023 0 | 15000 | 900 | 1.21 | 1.0 | 2.2 | 3/8 |
| B | KC912- | 615 170 127 0 | 615 170 165 0 | + 615 396 013 0 or 615 396 023 0 | 12000 | 900 | 1.21 | 1.0 | 2.2 | 3/8 |

Accessories

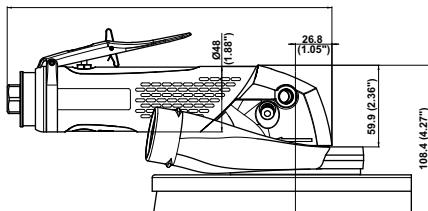
KA16120A5D = 238mm (9.37")



KA16120 / 075B5DE = 238mm (9.37")



KA16075 / 060B7DE = 238mm (9.37")



KA16120A5D

ACCESSORIES INCLUDED

ITEM

KA16120A5D
Ø 127mm (5")

- Exhaust hose L= 1.5m (60")
- Clamp
- 3/8" air hose nipple for 13mm (1/2") ID hose
- Side handle
- 1** Wheel guard
- 2** Rear flange
- 3** Spacer
- 4** Front flange
 - Pin wrench 35mm (1-3/8")
 - Hex key 8mm (5/16")

OPTIONAL ACCESSORIES

ITEM

PART NO.

- | | | |
|----|---|--------------------------------|
| 5 | Diamond disc Ø 127mm (5") | 615 804 915 0 |
| 6 | Complete silencer kit | 615 396 166 0 |
| 7 | Clamp | 615 263 024 0 |
| 8 | Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 9 | Vibration-damping side handle | 615 576 066 0 |
| 10 | Clipable silencer | 615 396 957 0 |
| 11 | Grease gun includes 24g (0.8 oz) <ul style="list-style-type: none"> • Grease for bevel gear (1kg - 2.2 lb) | 615 990 149 0 615 990 148 0 |

KA16120B5DE / KA16075B5DE / KA16075/060B7DE

ACCESSORIES INCLUDED

ITEM

KA16120B5DE
KA16075B5DE
Ø 127mm (5")

KA16075B7DE
KA16060B7DE
Ø 180mm (7")

- Exhaust hose L= 1.5m (60")
- Clamp
- 3/8" air hose nipple for 13mm (1/2") ID hose
- Side handle
- 1** Suction cap
- 2** Washer
- 3** Skirt with brush
- 4** Backing pad Ø 180mm (7") with nut 5/8"
- 5** Ventilated backing pad Ø 127mm (5") with nut 5/8"
 - Pin wrench 35mm (1-3/8")

OPTIONAL ACCESSORIES

ITEM

PART NO.

- | | | |
|----|---|--------------------------------|
| 6 | Complete silencer kit | 615 396 166 0 |
| 7 | Clamp | 615 263 024 0 |
| 8 | Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 |
| 9 | Vibration-damping side handle | 615 576 066 0 |
| 10 | Clipable silencer | 615 396 957 0 |
| 11 | Grease gun includes 24g (0.8 oz) <ul style="list-style-type: none"> • Grease for bevel gear (1kg - 2.2 lb) | 615 990 149 0 615 990 148 0 |



Dust extraction systems for angle grinders and sanders

Ø 127mm (5") - Ø 180mm (7")

1250 to 1600 Watts (1.69 to 2.15 hp) - 6000 to 12000 rpm



A

Dust extraction casing for diamond disc Ø 127mm (5")
Vacuum hose ID 25mm (1")



B

Vacuum hose,
ID 38mm (1½")



C

Vacuum hose,
ID 38mm (1½")

Caution: comply with the speeds recommended by component and abrasive manufacturers

| PIC REF | MODEL | PART NUMBER | FREE SPEED | ABRASIVE MAX CAPACITY | THREADED SPINDLE | POWER | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR CONSUMPTION AT MAX SPEED | AIR INLET THREAD | HOSE INT. Ø | | | | | | |
|---------|-------|-------------|------------|-----------------------|------------------|-------|--------|-------------------------------|------------------------------|------------------|-------------|-----|-----|-----|-----|----|-----|
| | | | rpm | mm | in. | in. | W | hp | kg | lb. | l/s | cfm | l/s | cfm | in. | mm | in. |

ANGLE GRINDER

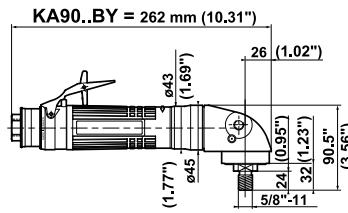
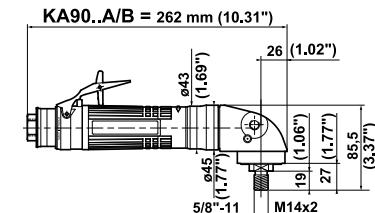
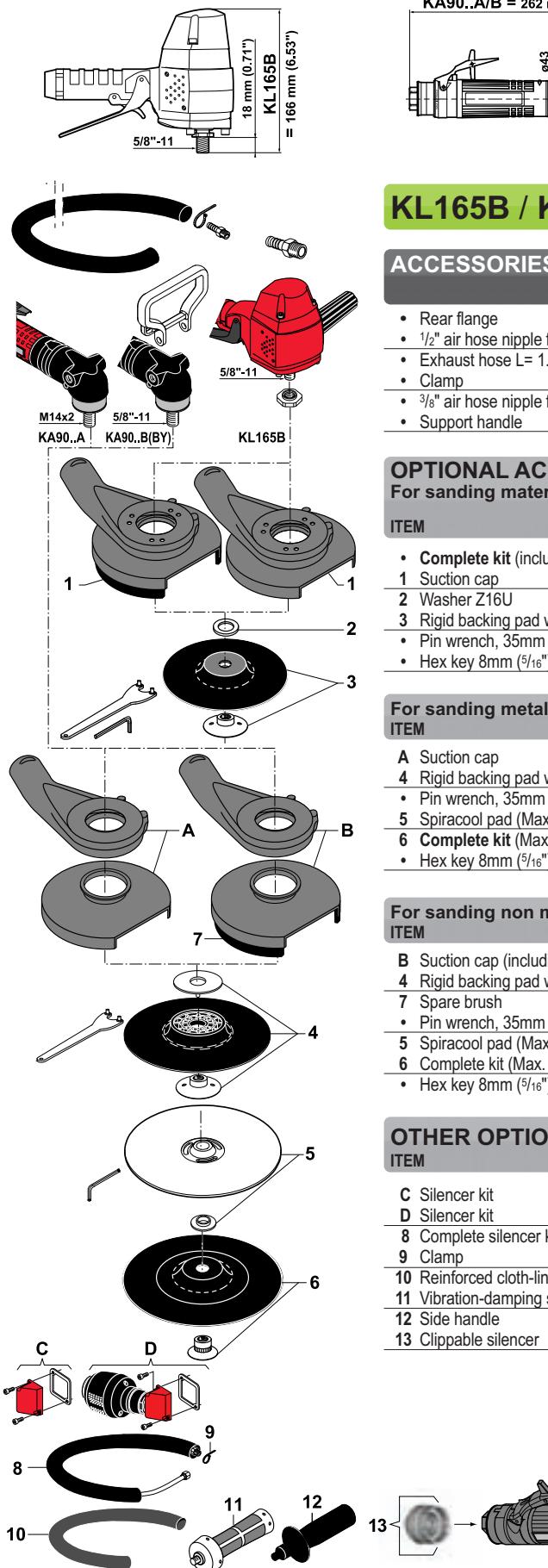
A KA16120A5D 615 170 442 0 12000 127x3.2x22.2 5x $\frac{1}{8}$ x $\frac{7}{8}$ M14x2 1 600 2.15 1.98 4.4 20 42 32 68 $\frac{3}{8}$ 13 $\frac{1}{2}$

ANGLE SANDERS

| | | | | | | | | | | | | | | | | |
|---------------|---------------|-------|-----|---|-----------------------|-------|------|------|-----|----|----|----|----|---------------|----|---------------|
| B KA16120B5DE | 615 170 485 0 | 12000 | 127 | 5 | $\frac{5}{8}$ -11 | 1 600 | 2.15 | 1.98 | 4.4 | 20 | 42 | 32 | 68 | $\frac{3}{8}$ | 13 | $\frac{1}{2}$ |
| B KA16075B5DE | 615 170 459 0 | 7500 | 127 | 5 | $\frac{5}{8}$ -11 | 1 400 | 1.90 | 1.98 | 4.4 | 15 | 32 | 27 | 57 | $\frac{3}{8}$ | 13 | $\frac{1}{2}$ |
| C KA16075B7DE | 615 170 486 0 | 7500 | 180 | 7 | $\frac{5}{8}$ -11 | 1 400 | 1.90 | 2.15 | 4.7 | 11 | 23 | 23 | 49 | $\frac{3}{8}$ | 13 | $\frac{1}{2}$ |
| C KA16060B7DE | 615 170 460 0 | 6000 | 180 | 7 | $\frac{5}{8}$ -11 UNC | 1 250 | 1.69 | 2.15 | 4.7 | 11 | 23 | 23 | 49 | $\frac{3}{8}$ | 13 | $\frac{1}{2}$ |

$\frac{5}{8}$ -11 UNC

Accessories



KL165B / KA90..A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

| | KL165B | KA90..A KA90..B / BY |
|--|---------------|-------------------------|
| • Rear flange | 615 503 107 0 | |
| • 1/2" air hose nipple for 13mm (1/2") ID hose | 615 704 016 0 | |
| • Exhaust hose L = 1.5m (60") | 615 875 113 0 | |
| • Clamp | 615 873 415 0 | |
| • 3/8" air hose nipple for 10mm (3/8") ID hose | 615 704 017 0 | |
| • Support handle | 615 576 069 0 | |

OPTIONAL ACCESSORIES For sanding materials

| ITEM | KL165B non metallic Fibre disc ø 180mm (7") | KL165B metallic Fibre disc ø 180mm (7") |
|---|--|--|
| • Complete kit (including item 1-2-3) | 615 399 364 0 | 615 399 365 0 |
| 1 Suction cap | 615 399 359 0 | 615 399 360 0 |
| 2 Washer Z16U | 615 642 050 0 | 615 642 050 0 |
| 3 Rigid backing pad with nut 5/8" (Max. 8500 rpm) | 615 990 134 0 | 615 990 134 0 |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | 615 802 010 0 |
| • Hex key 8mm (5/16") | 615 802 061 0 | 615 802 061 0 |

For sanding metallic materials

| ITEM | KA90..A / B ø 180mm (7") | KA90..BY ø 180mm (7") |
|--|-----------------------------|--------------------------|
| A Suction cap | 615 396 125 0 | 615 396 125 0 |
| 4 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (Max. 8500 rpm) | 615 990 134 0 | |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | |
| 5 Spiracool pad (Max. 8500 rpm) | | S091836 |
| 6 Complete kit (Max. 7000 rpm) | | K129587 |
| • Hex key 8mm (5/16") | | 615 802 061 0 |

For sanding non metallic materials

| ITEM | KA90..A / B ø 180mm (7") | KA90..BY ø 180mm (7") |
|--|-----------------------------|--------------------------|
| B Suction cap (including item 6-7) | 615 396 126 0 | 615 396 126 0 |
| 4 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (Max. 8500 rpm) | 615 990 134 0 | |
| 7 Spare brush | 615 570 233 0 | |
| • Pin wrench, 35mm (1 3/8") | 615 802 010 0 | |
| 5 Spiracool pad (Max. 8500 rpm) | | S091836 |
| 6 Complete kit (Max. 7000 rpm) | | K129587 |
| • Hex key 8mm (5/16") | | 615 802 061 0 |

OTHER OPTIONAL ACCESSORIES

| ITEM | KL165B | KA90..A KA90..B / BY |
|--|---------------|-------------------------|
| C Silencer kit | 615 396 117 0 | |
| D Silencer kit | 615 399 462 0 | |
| 8 Complete silencer kit | 615 396 166 0 | |
| 9 Clamp | 615 873 115 0 | |
| 10 Reinforced cloth-lined exhaust hose L = 0.75m (30") | 615 875 116 0 | |
| 11 Vibration-damping side handle | 615 576 066 0 | |
| 12 Side handle | 615 576 038 0 | |
| 13 Clippable silencer | 615 396 655 0 | |



Dust extraction systems for vertical and angle sanders

Ø 180mm (7")

900 - 1200 Watts (1.21 - 1.61 hp) - 2000 to 6500 rpm

Supplied with M14 & 5/8" threaded spindle only



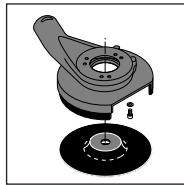
A



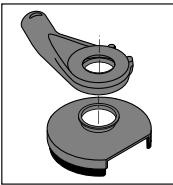
B

For standard abrasive disc for non metallic materials

KL165



615 399 364 0



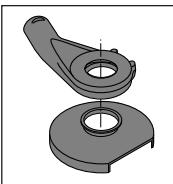
615 396 126 0

For standard abrasive disc for metallic materials

KL165



615 399 365 0



615 396 125 0

Vacuum hose, ID 38mm (1½")



C

Caution: comply with the speeds recommended by component and abrasive manufacturers

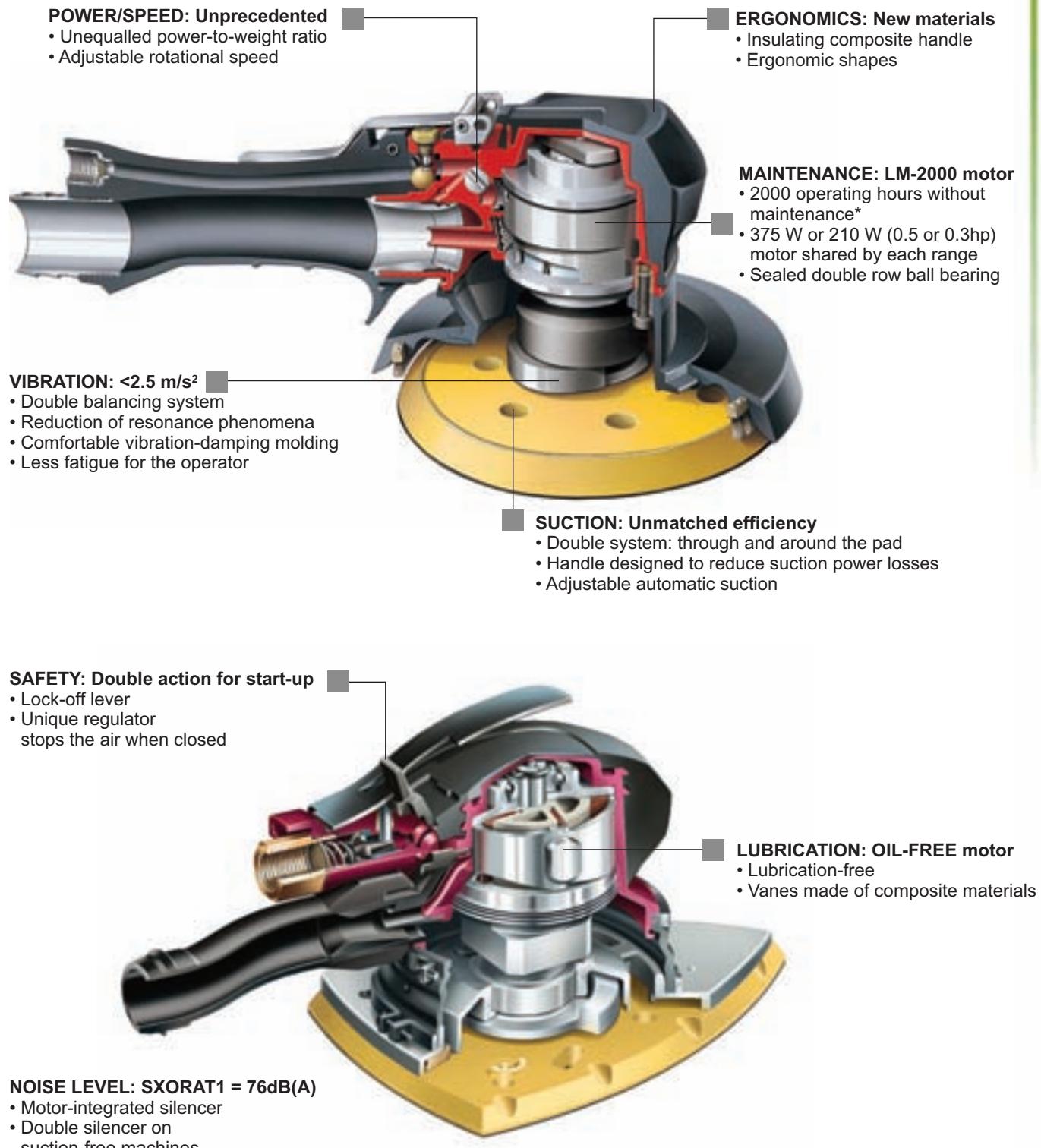
| PIC REF | MODEL | PART NUMBER | DUST EXTRACTION KIT | FREE SPEED rpm | THREADED SPINDLE in | POWER | | WEIGHT | | AIR INLET THREAD in. |
|---|----------|---------------|----------------------------------|----------------------|---------------------------|-------|------|--------|-----|----------------------------|
| | | | | | | W | hp | kg | lb. | |
| VERTICAL SANDER | | | | | | | | | | |
| A | KL165B | 615 170 011 0 | + 615 399 364 0 or 615 399 365 0 | 6500 | 5/8-11 | 1 200 | 1.61 | 2.3 | 5.1 | 1/2 |
| ANGLE SANDERS | | | | | | | | | | |
| B | KA9030A | 615 170 098 0 | + 615 396 126 0 or 615 396 125 0 | 3000 | M14x2 | 900 | 1.21 | 1.6 | 3.5 | 3/8 |
| B | KA9030B | 615 170 099 0 | + 615 396 126 0 or 615 396 125 0 | 3000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 3/8 |
| B | KA9020A | 615 170 096 0 | + 615 396 126 0 or 615 396 125 0 | 2000 | M14x2 | 900 | 1.21 | 1.6 | 3.5 | 3/8 |
| B | KA9020B | 615 170 097 0 | + 615 396 126 0 or 615 396 125 0 | 2000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 3/8 |
| ANGLE SANDERS for USA Market only (to ANSI B186.1) | | | | | | | | | | |
| C | KA9030BY | 615 170 309 0 | + 615 396 126 0 or 615 396 125 0 | 3000 | 5/8-11 | 900 | 1.21 | 1.6 | 3.5 | 3/8 |

5/8-11 UNC



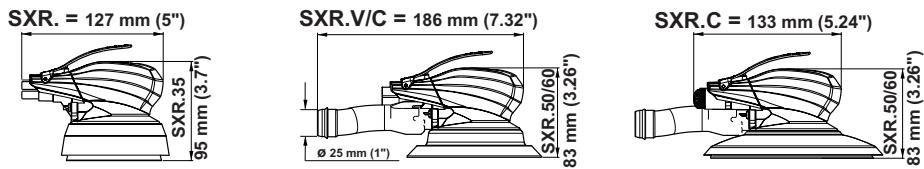
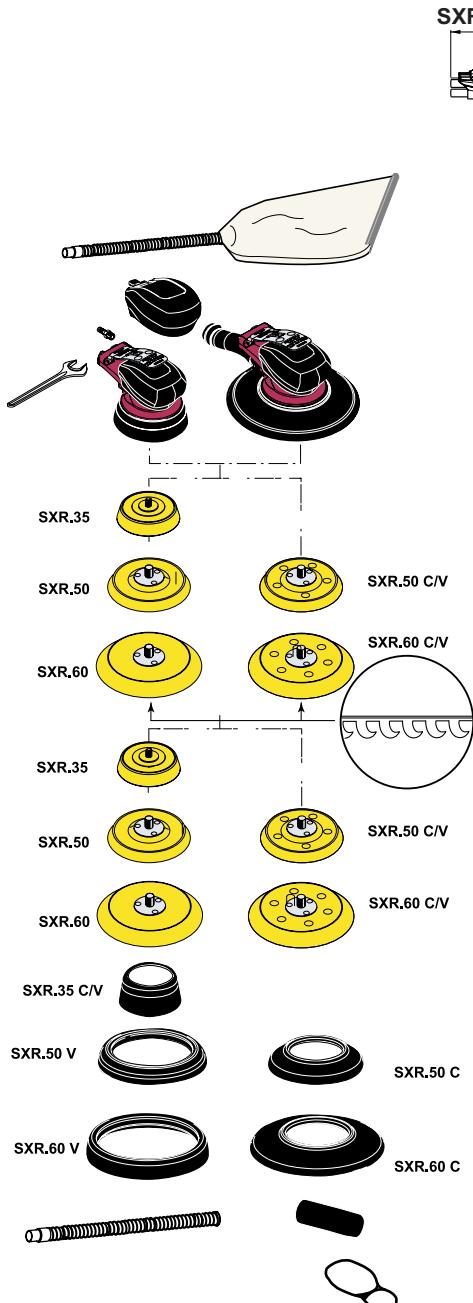
Random orbital sanders

for abrasive discs and orbital sanders for abrasive sheets



* Subject to use as per the instruction manual supplied with the tool.

Accessories



SXR.35. / SXR.50. / SXR.60.

ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • 1/4" air hose nipple for 6mm (1/4") ID hose | 615 705 009 0 |
| • Small grip (medium-size grip fitted on sander) | 615 303 109 0 |
| • Flat wrench 26mm across flats | 615 801 078 0 |
| • Complete dust extraction kit for SXRA..V and SXRB..V version | 615 396 264 0 |

| Pads: | For Hook & Loop abrasive | For Hook & Loop abrasive (V) or (C) with holes |
|---|--------------------------|--|
| Thread 5/16"-24 | | |
| • Pad Ø 89mm (3.5") - 80gr - SXR(.).35(.) | 615 990 158 0 | - |
| • Pad Ø 127mm (5") - 100gr - SXR(.).50 | 615 990 156 0 | 615 990 157 0 |
| • Pad Ø 150mm (6") - 130gr - SXR(.).60 | 615 990 154 0 | 615 990 155 0 |

| OPTIONAL ACCESSORIES | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|---|----------------------------|--|
| Pads: | | |
| Thread 5/16"-24 | | |
| • Pad Ø 89mm (3.5") - 80gr - SXR(.).35(.) | 615 990 163 0 | - |
| • Pad Ø 127mm (5") - 100gr - SXR(.).50 | 615 990 161 0 | 615 990 162 0 |
| • Pad Ø 150mm (6") - 130gr - SXR(.).60 | 615 990 159 0 | 615 990 160 0 |

| Vacuum skirts | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|---------------------------------|----------------------------|--|
| • Vacuum skirt for SXR(.).35(.) | 615 350 110 0 | |
| • Vacuum skirt for SXR(.).50C | 615 350 107 0 | |
| • Vacuum skirt for SXR(.).60C | 615 350 106 0 | |
| • Vacuum skirt for SXR(.).50V | 615 350 103 0 | |
| • Vacuum skirt for SXR(.).60V | 615 350 102 0 | |

| Adaptor | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|---|----------------------------|--|
| • Vacuum hose adaptor Ø 25mm (1") / Ø 32mm (1 1/4") | 615 350 117 0 | |
| • Vacuum hose adaptor Ø 25mm (1") / Ø 28mm (1 1/8") | 615 804 448 0 | |

| Hose | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|---|----------------------------|--|
| • Dust extraction hose Ø 25mm (1") L = 1.5m (60") | 615 396 263 0 | |

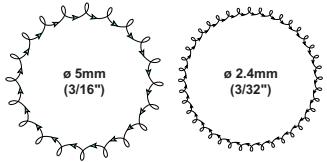
| Bail Hook | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|-------------|----------------------------|--|
| • Bail hook | 615 571 060 0 | |

| PAD DIMENSIONS | |
|---------------------------|------------------------------|
| Ø 89 (3.5") SXR.35/C/V | Ø 12 (0,47") Ø 71 (2,80") |
| Ø 127 (5") SXR.50/C/V | Ø 12 (0,47") 72° |
| Ø 150 (6") SXR.60/C/V | Ø 80 (3.15") 60° |



Random orbital sanders for abrasive discs

Ø 89mm (3.5") - Ø 127mm (5") - Ø 150mm (6")
210 Watts (0.3 hp) - 12000 rpm



SXR(.).35



SXR(.).35C



SXR(.).35V



SXR(.).50



SXR(.).50C



SXR(.).50V



SXR(.).60



SXR(.).60C



SXR(.).60V

Supplied kit



HOW TO SELECT YOUR SX SANDER — Eg: SXRA35C - SXR model / orbit Ø 2.4mm (3/32") / pad Ø 89mm (3.5") / with dust extraction

| | | | | |
|--|----------|----------|-----------|----------|
| SX | R | A | 35 | C |
| C : external vacuum / V : self vacuum / - : non-vacuum | | | | |
| 35 : pad Ø 89mm (3.5") / 50 : pad Ø 127mm (5") / 60 : pad Ø 150mm (6") | | | | |
| A : orbit Ø 2.4mm (3/32") / B : orbit Ø 5mm (3/16") | | | | |
| R : random orbital sander | | | | |
| Name of the range | | | | |

*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PAD SIZE | MODEL | PART NUMBER | MODEL | PART NUMBER | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | | AIR INLET THREAD | HOSE INT Ø |
|----------|-------|-------------|-------|-------------|-------|-------------|----------|--------------------------------|-----|------------------|------------|
| mm in. | | | | | | | kg lb. | l/s | cfm | in. | mm in. |

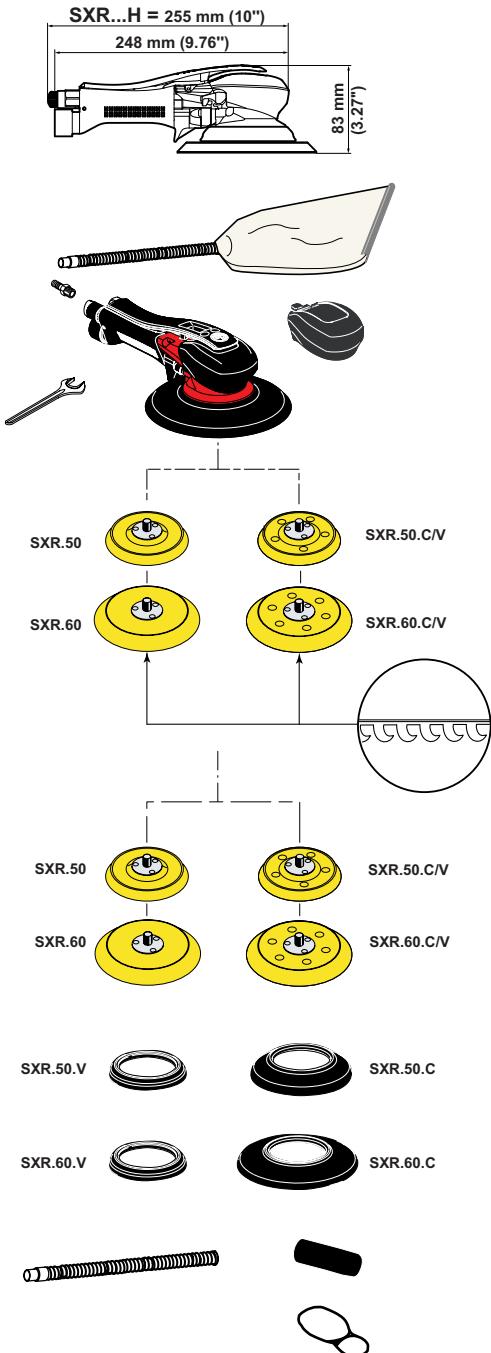
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")

| | | Non-vacuum | External vacuum | Self vacuum | | | | | | | |
|-------|-----|------------|-----------------|-------------|---------------|---------|---------------|-----|-----|-----|------|
| Ø 89 | 3.5 | SXRB35 | 615 170 209 0 | SXRB35C | 615 170 215 0 | SXRB35V | 615 170 212 0 | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 127 | 5 | SXRB50 | 615 170 210 0 | SXRB50C | 615 170 216 0 | SXRB50V | 615 170 213 0 | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 127 | 5 | SXRB50* | 615 170 300 0 | | | | | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 150 | 6 | SXRB60 | 615 170 211 0 | SXRB60C | 615 170 217 0 | SXRB60V | 615 170 214 0 | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 150 | 6 | SXRB60* | 615 170 317 0 | | | | | 0.8 | 1.7 | 8.0 | 16.6 |

RANDOM ORBITAL SANDERS, ORBIT Ø 2.4mm (3/32")

| | | Non-vacuum | External vacuum | Self vacuum | | | | | | | |
|-------|-----|------------|-----------------|-------------|---------------|---------|---------------|-----|-----|-----|------|
| Ø 89 | 3.5 | SXRA35 | 615 170 218 0 | SXRA35C | 615 170 224 0 | SXRA35V | 615 170 221 0 | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 127 | 5 | SXRA50 | 615 170 219 0 | SXRA50C | 615 170 225 0 | SXRA50V | 615 170 222 0 | 0.8 | 1.7 | 8.0 | 16.6 |
| Ø 150 | 6 | SXRA60 | 615 170 220 0 | SXRA60C | 615 170 226 0 | SXRA60V | 615 170 223 0 | 0.8 | 1.7 | 8.0 | 16.6 |

Accessories



SXR....

ACCESSORIES INCLUDED

| | PART NO. |
|--|---------------|
| • 1/4" air hose nipple for 6mm (1/4") ID hose | 615 705 009 0 |
| • Small grip (medium-size grip fitted on sander) | 615 303 109 0 |
| • Flat wrench 26mm across flats | 615 801 078 0 |
| • Complete dust extraction kit for SXRA..V and SXRB..V version | 615 396 264 0 |

| Pads: Thread 5/16"-24 | For Hook & Loop abrasive | For Hook & Loop abrasive (V) or (C) with holes |
|---------------------------------------|--------------------------------|---|
| • Pad ø 127mm (5") - 100gr - SXR(.)50 | 615 990 156 0 | 615 990 157 0 |
| • Pad ø 150mm (6") - 130gr - SXR(.)60 | 615 990 154 0 | 615 990 155 0 |

OPTIONAL ACCESSORIES

| Pads: Thread 5/16"-24 | For self-adhesive abrasive | For self-adhesive abrasive (V) or (C) with holes |
|---------------------------------------|-------------------------------|---|
| • Pad ø 127mm (5") - 100gr - SXR(.)50 | 615 990 161 0 | 615 990 162 0 |
| • Pad ø 150mm (6") - 130gr - SXR(.)60 | 615 990 159 0 | 615 990 160 0 |

Vacuum skirts

| | |
|-------------------------------|---------------|
| • Vacuum skirt for SXR(.)50HC | 615 350 107 0 |
| • Vacuum skirt for SXR(.)60HC | 615 350 106 0 |
| • Vacuum skirt for SXR(.)50HV | 615 350 103 0 |
| • Vacuum skirt for SXR(.)60HV | 615 350 102 0 |

Adaptor

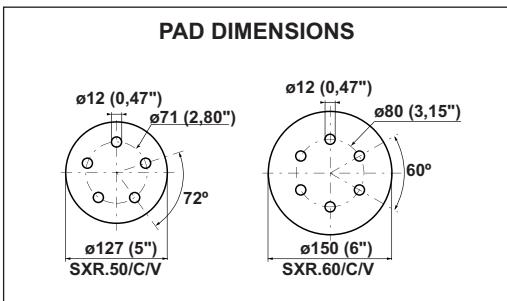
| | |
|---|---------------|
| • Vacuum hose adaptor ø 25mm (1") / ø 32mm (1 1/4") | 615 350 117 0 |
| • Vacuum hose adaptor ø 25mm (1") / ø 28mm (1 1/8") | 615 804 448 0 |

Hose

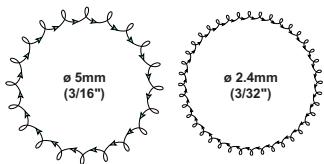
| | |
|---|---------------|
| • Dust extraction hose ø 25mm (1") L = 1.5m (60") | 615 396 263 0 |
|---|---------------|

Bail Hook

| | |
|-------------|---------------|
| • Bail hook | 615 571 060 0 |
|-------------|---------------|



Random orbital sanders for abrasive discs



Ø 127mm (5") - Ø 150mm (6")
210 Watts (0.3 hp) - 12000 rpm



SXRB50H



SXRB50HC



SXRB50HV



SXRB60H

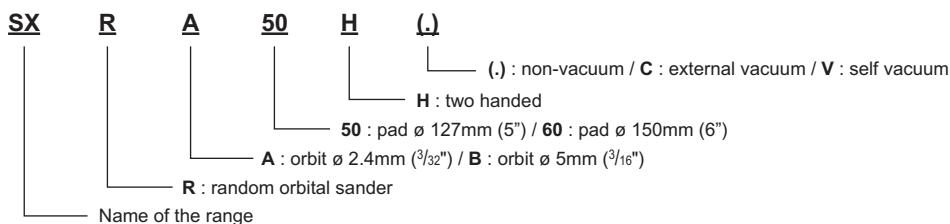


SXRB60HC



SXRB60HV

HOW TO SELECT YOUR SX SANDER – Eg: SXRA50H - SXR model / orbit 2.4mm (3/32") / pad Ø 127mm (5") / Two handed / non vacuum



*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PAD SIZE | MODEL | PART NUMBER | MODEL | PART NUMBER | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | | AIR INLET THREAD | HOSE INT Ø |
|----------|-------|-------------|-------|-------------|-------|-------------|----------|--------------------------------|-----|------------------|------------|
| mm in. | | | | | | | kg lb. | l/s | cfm | in. | mm in. |

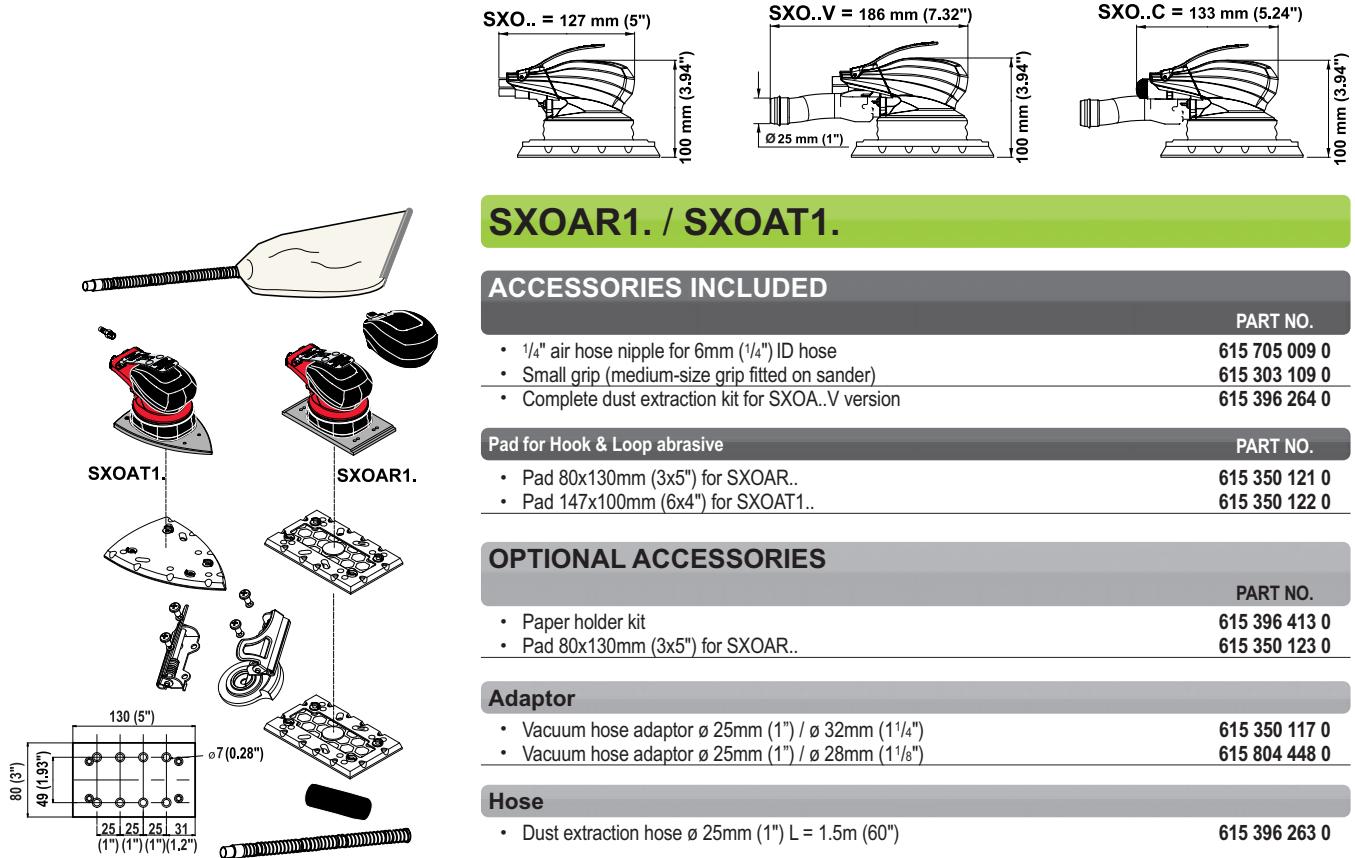
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")

| | Non-vacuum | External vacuum | Self vacuum | | | | | | | |
|---------|------------------------|------------------------|------------------------|-----|-----|-----|------|-----|---|-----|
| Ø 127 5 | SXRB50H 615 170 353 0 | SXRB50HC 615 170 361 0 | SXRB50HV 615 170 358 0 | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |
| Ø 127 5 | SXRB50H* 615 170 354 0 | | | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |
| Ø 150 6 | SXRB60H 615 170 355 0 | SXRB60HC 615 170 362 0 | SXRB60HV 615 170 359 0 | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |
| Ø 150 6 | SXRB60H* 615 170 356 0 | | | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |

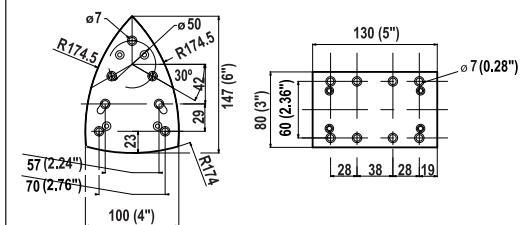
RANDOM ORBITAL SANDERS, ORBIT Ø 2.4mm (3/32")

| | Non-vacuum | External vacuum | Self vacuum | | | | | | | |
|---------|-----------------------|------------------------|------------------------|-----|-----|-----|------|-----|---|-----|
| Ø 127 5 | SXRA50H 615 170 364 0 | SXRA50HC 615 170 370 0 | SXRA50HV 615 170 367 0 | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |
| Ø 150 6 | SXRA60H 615 170 365 0 | SXRA60HC 615 170 371 0 | SXRA60HV 615 170 368 0 | 0.9 | 2.0 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |

Accessories



PAD DIMENSIONS



Orbital sanders for abrasive sheets

80 x 130mm (3"x 5") - 147 x 100mm (6"x 4")
210 Watts (0.3 hp) - 10000 rpm



Sxoar1



Sxoar1c



Sxoar1v



Sxoat1



Sxoat1c

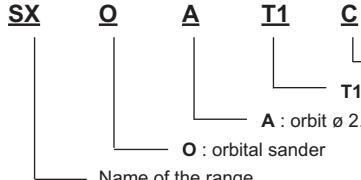


Sxoat1v



Sxoar1 equipped with paper holder kit P.N 615 396 413 0

HOW TO SELECT YOUR SXO SANDER — Eg: Sxoat1c - SXO model / orbit ø 2.4mm ($\frac{3}{32}$ ") iron pad / with dust suction



C : external vacuum / V : self vacuum / - : non-vacuum
 T1 : triangular pad - Iron / R1 : rectangular pad

A : orbit ø 2.4mm ($\frac{3}{32}$)

O : orbital sander

Supplied kit



Caution: comply with the speeds recommended by component and abrasive manufacturers.

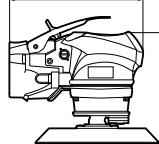
| PAD SIZE | MODEL | PART NUMBER | MODEL | PART NUMBER | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | |
|----------|-------|-------------|-------|-------------|-------|-------------|--------|--------------------------------|------------------|-------------|-----|----|-----|
| mm | in. | | | | | | kg | lb. | l/s | cfm | in. | mm | in. |

ORBITAL SANDERS, ORBIT ø 2.4mm ($\frac{3}{32}$)

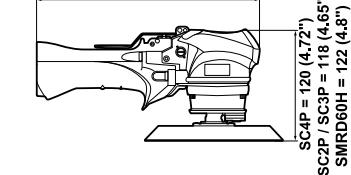
| | Non-vacuum | External vacuum | Self vacuum | | | | | | | | | | |
|-------------|------------|-----------------|-------------|---------------|---------|---------------|-----|-----|-----|------|-----|---|-----|
| 80x130 3x5 | Sxoar1 | 615 170 233 0 | Sxoar1c | 615 170 237 0 | Sxoar1v | 615 170 235 0 | 1.0 | 2.2 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |
| 147x100 6x4 | Sxoat1 | 615 170 234 0 | Sxoat1c | 615 170 238 0 | Sxoat1v | 615 170 236 0 | 1.0 | 2.2 | 8.0 | 16.6 | 1/4 | 6 | 1/4 |

Accessories

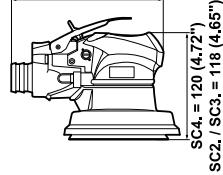
SC. = 142 mm (5.59")



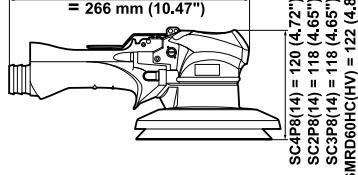
SC.P/SMRD60H = 242 mm (9.53")



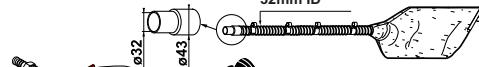
SC.-8/-14 = 166 mm (6.54")



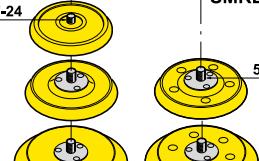
SC.P8/14/SMRD60HC/V = 266 mm (10.47")



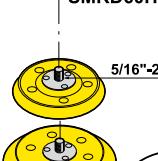
Hose 2.5m long
32mm ID



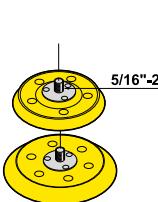
SC. ——————
5/16"-24



SC.P
SMRD60H
—————
5/16"-24



5/16"-24
—————
5/16"-24



SC.. / SC..P / SMRD60..

ACCESSORIES INCLUDED

- 1/4" air hose nipple for 8mm (5/32") ID hose
- Clamping lever
- Complete dust extraction kit for version (SC.-14/SRMD60HV)

PART NO.
615 704 019 0
615 595 202 0
615 399 471 0

Pads:
Thread 5/16" - 24

| For Hook & Loop abrasive | For Hook & Loop abrasive (-8) or (-14) (C) or (V) with holes |
|--------------------------|--|
|--------------------------|--|

- | | | |
|---|---------------|---------------|
| • Pad ø 110mm (4 3/8") - SC2/-8/-14 - SC2P/8/14 | 615 990 102 0 | - |
| • Pad ø 127mm (5") - SC3(P) | 615 990 123 0 | 615 990 124 0 |
| • Pad ø 150mm (6") - SC4(P) - SRMD60H. | 615 990 125 0 | 615 990 126 0 |

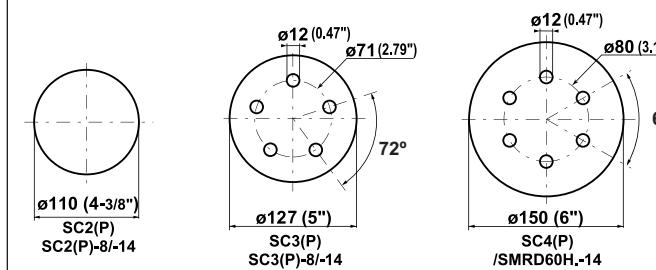
OPTIONAL ACCESSORIES

Pads:
Thread 5/16" - 24

| For self-adhesive abrasive | For self-adhesive abrasive with holes (-8) or (-14) (C) or (V) |
|----------------------------|--|
|----------------------------|--|

- | | | |
|---|---------------|---------------|
| • Pad ø 110mm (4 3/8") - SC2/-8/-14 - SC2P/8/14 | 615 990 101 0 | - |
| • Pad ø 127mm (5") - SC3(P) | 615 990 111 0 | 615 990 110 0 |
| • Pad ø 150mm (6") - SC4(P) - SRMD60H. | 615 990 119 0 | 615 990 118 0 |

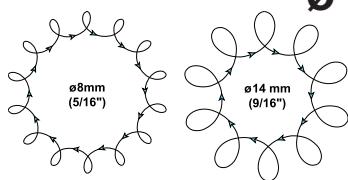
PAD DIMENSIONS



Random orbital sanders for abrasive discs

Ø 110mm (4³/₈"") - Ø 127mm (5") - Ø 150mm (6")

375 Watts (0.5 hp) - 10000 rpm



SC4



SC4P



SC4-8



SC4P8 - SMRD60HC



SC4P14 - SMRD60HV

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PAD SIZE | MODEL | PART NUMBER | MODEL | PART NUMBER | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | |
|----------|-------|-------------|-------|-------------|-------|-------------|--------|--------------------------------|------------------|-------------|-----|----|-----|
| mm | in. | | | | | | kg | lb. | l/s | cfm | in. | mm | in. |

SANDERS WITH PALM GRIP, ORBIT Ø 8mm (5/16")

| Non-vacuum | | | External vacuum | | | Self vacuum | | | | | | | | |
|------------|-------------------------------|-----|-----------------|-------|---------------|-------------|---------------|-----|------|----|----|-----|---|------|
| Ø 110 | 4 ³ / ₈ | SC2 | 615 170 080 0 | SC2-8 | 615 170 092 0 | SC2-14 | 615 170 086 0 | 1.1 | 2.42 | 11 | 23 | 1/4 | 8 | 5/16 |
| Ø 127 | 5 | SC3 | 615 170 082 0 | SC3-8 | 615 170 094 0 | SC3-14 | 615 170 088 0 | 1.2 | 2.64 | 11 | 23 | 1/4 | 8 | 5/16 |
| Ø 150 | 6 | SC4 | 615 170 081 0 | SC4-8 | 615 170 093 0 | SC4-14 | 615 170 087 0 | 1.3 | 2.86 | 11 | 23 | 1/4 | 8 | 5/16 |

SANDERS WITH HANDLE GRIP, ORBIT Ø 8mm (5/16")

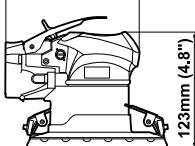
| Non-vacuum | | | External vacuum | | | Self vacuum | | | | | | | | |
|------------|-------------------------------|------|-----------------|-------|---------------|-------------|---------------|-----|------|----|----|-----|---|------|
| Ø 110 | 4 ³ / ₈ | SC2P | 615 170 077 0 | SC2P8 | 615 170 089 0 | SC2P14 | 615 170 083 0 | 1.2 | 2.64 | 11 | 23 | 1/4 | 8 | 5/16 |
| Ø 127 | 5 | SC3P | 615 170 079 0 | SC3P8 | 615 170 091 0 | SC3P14 | 615 170 085 0 | 1.3 | 2.86 | 11 | 23 | 1/4 | 8 | 5/16 |
| Ø 150 | 6 | SC4P | 615 170 078 0 | SC4P8 | 615 170 090 0 | SC4P14 | 615 170 084 0 | 1.4 | 3.08 | 11 | 23 | 1/4 | 8 | 5/16 |

LARGE ORBIT SANDERS WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")

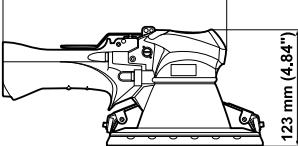
| Non-vacuum | | | External vacuum | | | Self vacuum | | | | | | | | |
|------------|---|---------|-----------------|----------|---------------|-------------|---------------|-----|------|----|----|-----|---|------|
| Ø 150 | 6 | SMRD60H | 615 170 280 0 | SMRD60HC | 615 170 281 0 | SMRD60HV | 615 170 282 0 | 1.3 | 2.86 | 11 | 23 | 1/4 | 8 | 5/16 |

Accessories

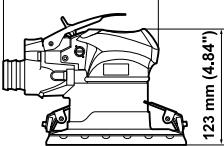
SV3 = 142mm (5.59")



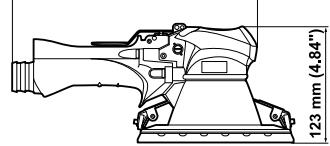
SV.P = 242 mm (9.53")



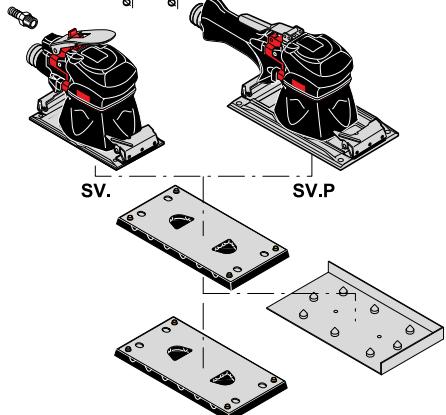
SV.-8/-14 = 166 mm (6.54")



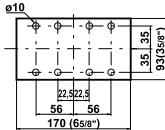
SV.P8/14 = 266 mm (10.47")



Hose 2.5m long
32mm ID



8 side holes



SV.. / SV..P

ACCESSORIES INCLUDED

- 1/4" air hose nipple for 8mm (5/16") ID hose
- Complete dust extraction kit for version (-14)

PART NO.

615 704 019 0
615 399 471 0

Pads and Drilling Plate

Drilling
plate
for release
(-8) or (-14)

| Pad | 615 350 018 0 615 350 019 0 | 615 990 094 0 615 990 095 0 |
|--|--------------------------------|--------------------------------|
| Pad 170x93mm (6 5/8"x 3 5/8") - SV3(P) | | |
| Pad 215x113mm (8 1/2"x 4 1/2") - SV4P | | |

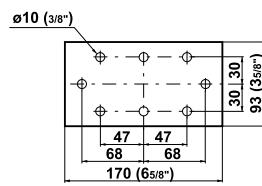
OPTIONAL ACCESSORY

PART NO.

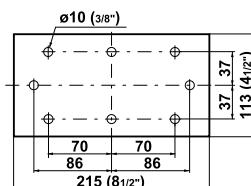
- Pad 170x93mm (6 5/8"x 3 5/8") - 8 side holes SV3(P)

615 350 057 0

PAD DIMENSIONS



SV3(P)
SV3(P)8-14



SV4P
SV4P8-14



Orbital sanders for abrasive sheets

170 x 93mm (6⁵/₈"x 3⁵/₈") - 215 x 113mm (8¹/₂"x 4¹/₂")
375 Watts (0.5 hp) - 8000 rpm



SV3



SV3P



SV3-8



SV3P8



SV3P14

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PAD SIZE | MODEL | PART NUMBER | MODEL | PART NUMBER | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | |
|----------|-------|-------------|-------|-------------|-------|-------------|--------|--------------------------------|------------------|-------------|-----|----|-----|
| mm | in. | | | | | | kg | lb. | l/s | cfm | in. | mm | in. |

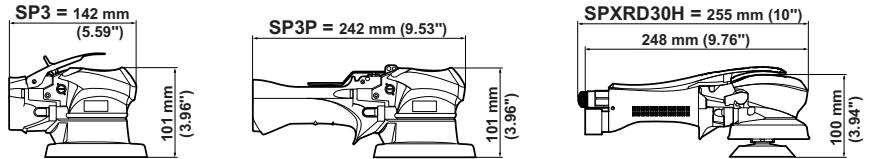
SANDERS WITH PALM GRIP, ORBIT ø 5mm (3/16")

| Non-vacuum | | External vacuum | | Self vacuum | | 1.7 | 3.74 | 11 | 23 | 1/4 | 8 | 5/16 |
|--|-----|-----------------|-------|---------------|--------|---------------|------|----|----|-----|---|------|
| 170x93 6 ⁵ / ₈ x 3 ⁵ / ₈ | SV3 | 615 170 066 0 | SV3-8 | 615 170 074 0 | SV3-14 | 615 170 070 0 | | | | | | |

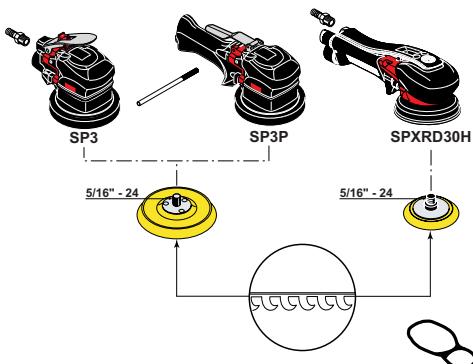
SANDERS WITH HANDLE GRIP, ORBIT ø 5mm (3/16")

| Non-vacuum | | External vacuum | | Self vacuum | | 1.8 | 3.96 | 11 | 23 | 1/4 | 8 | 5/16 | |
|---|------|-----------------|-------|---------------|--------|---------------|------|------|----|-----|-----|------|------|
| 170x93 6 ⁵ / ₈ x 3 ⁵ / ₈ | SV3P | 615 170 067 0 | SV3P8 | 615 170 075 0 | SV3P14 | 615 170 071 0 | | | | | | | |
| 215x113 8 ¹ / ₂ x 4 ¹ / ₂ | SV4P | 615 170 068 0 | SV4P8 | 615 170 076 0 | SV4P14 | 615 170 072 0 | 1.9 | 4.19 | 11 | 23 | 1/4 | 8 | 5/16 |

Accessories



SP3 / SP3P / SPXRD30H

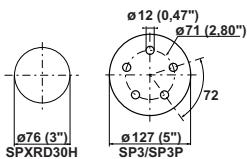


ACCESSORIES INCLUDED

| | SP3/SP3P | SPXRD30H |
|--|---------------|-----------------------------|
| • 1/4" air hose nipple for 8mm (5/16" ID hose | 615 704 019 0 | |
| • 1/4" air hose nipple for 6mm (1/4" ID hose | 615 705 009 0 | |
| • Clamping lever | 615 595 202 0 | |
| • Small grip (medium-size grip fitted on sander) | | 615 303 109 0 |
| • Bail hook | | 615 571 060 0 |
| Pads: Thread 5/16" - 24 | | For Hook & Loop abrasive |
| • Pad ø 127mm (5") for SP3 / SP3P | 615 990 123 0 | |
| • Pad ø 76mm (3") for SPXRD30H | 615 990 178 0 | |

OPTIONAL ACCESSORIES

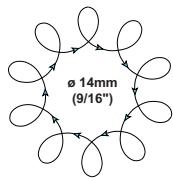
| | SPXRD30H |
|-------------------|---------------|
| • Pad cooling kit | 615 397 037 0 |



Random orbital polishers

Ø 76mm (3") - Ø 127mm (5")

210 - 375 Watts (0.3 - 0.5 hp) - 10000 - 12000 rpm



SP3



SP3P



SPXRD30H

Caution: comply with the speeds recommended by component and abrasive manufacturers.

| PAD SIZE | MODEL | PART NUMBER | WEIGHT | AIR CONSUMPTION AT MAX. OUTPUT | AIR INLET THREAD | HOSE INT. Ø | | | |
|----------|-------|-------------|--------|--------------------------------|------------------|-------------|-----|----|-----|
| mm | in. | | kg | lb. | l/s | cfm | in. | mm | in. |

POLISHER WITH PALM GRIP, ORBIT Ø 14mm (9/16")

Non-vacuum

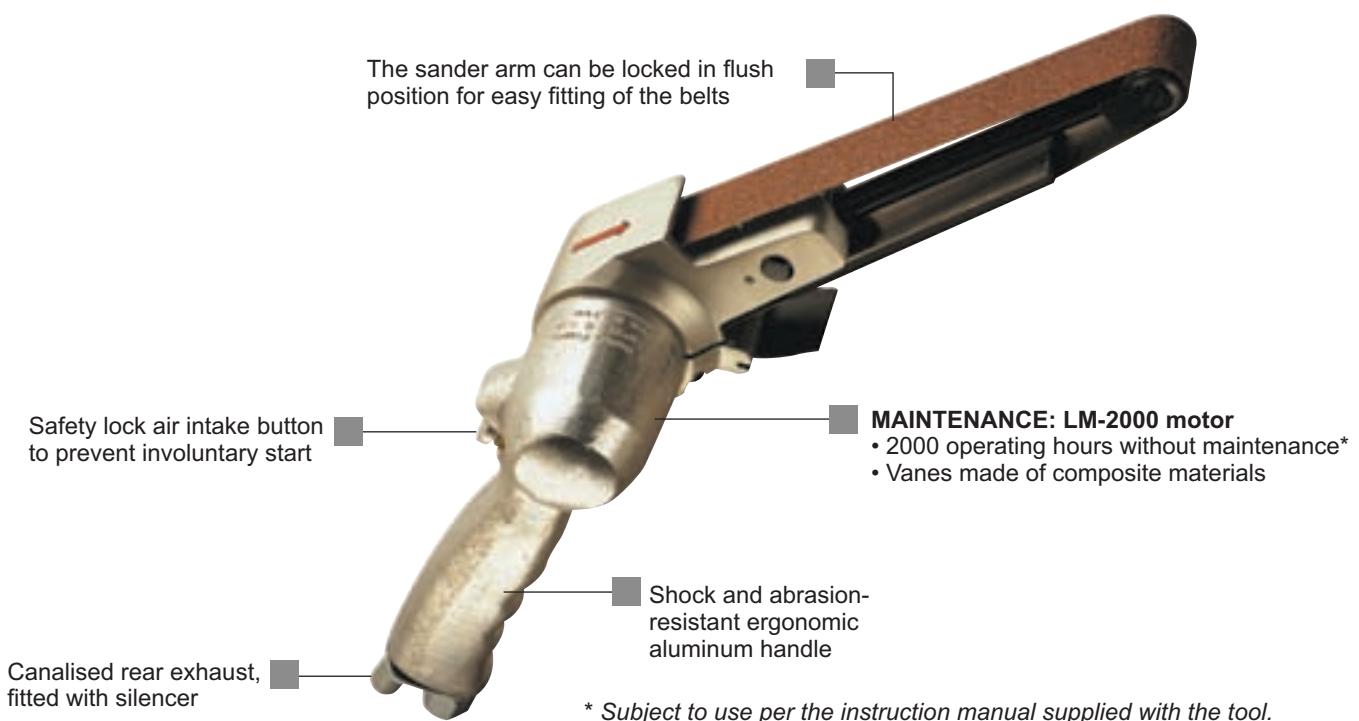
| | | | | | | | | | | |
|-------|---|-----|---------------|-----|------|----|----|-----|---|------|
| Ø 127 | 5 | SP3 | 615 170 198 0 | 1.2 | 2.64 | 11 | 23 | 1/4 | 8 | 5/16 |
|-------|---|-----|---------------|-----|------|----|----|-----|---|------|

POLISHER WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")

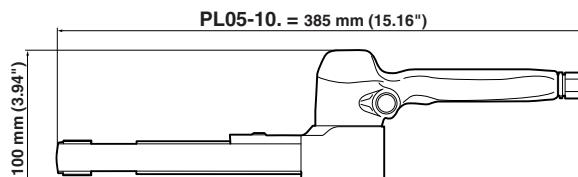
Non-vacuum

| | | | | | | | | | | |
|-------|---|----------|---------------|-----|------|----|----|-----|---|------|
| Ø 76 | 3 | SPXRD30H | 615 170 332 0 | 0.9 | 1.98 | 11 | 23 | 1/4 | 8 | 5/16 |
| Ø 127 | 5 | SP3P | 615 170 197 0 | 1.3 | 2.86 | 11 | 23 | 1/4 | 8 | 5/16 |

Belt sanders

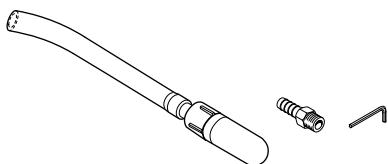


Accessories



PL05-10D / PL05-10E / PL05-10F

ACCESSORIES INCLUDED



| PART NO. |
|---------------|
| 615 396 022 0 |
| 615 705 009 0 |
| 615 802 054 0 |

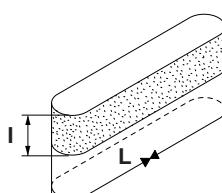


| PART NO. |
|----------|
| 321003 |

615 616 118 0

OPTIONAL ACCESSORIES

COATED ABRASIVE BELTS



| mm | in. | GRIT NUMBER | | | | | |
|----------|--|---------------|---------------|---------------|---------------|---------------|--|
| | | P40 | P50 | P60 | P90 | P100 | |
| 480 x 16 | 18 ⁷ / ₈ x 5 ¹ / ₈ | 615 848 313 0 | 615 848 314 0 | 615 848 315 0 | 615 848 316 0 | 615 848 317 0 | |
| 480 x 20 | 18 ⁷ / ₈ x 25 ¹ / ₃₂ | 615 848 323 0 | 615 848 324 0 | 615 848 325 0 | 615 848 326 0 | 615 848 327 0 | |
| 480 x 25 | 18 ⁷ / ₈ x 63 ¹ / ₆₄ | 615 848 333 0 | 615 848 334 0 | 615 848 335 0 | 615 848 336 0 | 615 848 337 0 | |

| mm | in | GRIT NUMBER | | | |
|----------|--|---------------|---------------|---------------|---------------|
| | | P120 | P150 | P190 | P240 |
| 480 x 16 | 18 ⁷ / ₈ x 5 ¹ / ₈ | 615 848 318 0 | 615 848 319 0 | | |
| 480 x 20 | 18 ⁷ / ₈ x 25 ¹ / ₃₂ | 615 848 328 0 | 615 848 329 0 | 615 848 320 0 | |
| 480 x 25 | 18 ⁷ / ₈ x 63 ¹ / ₆₄ | 615 848 338 0 | 615 848 339 0 | 615 848 330 0 | 615 848 331 0 |

Belt sanders

300 Watts (0.4 hp) - 16000 rpm



A



B



C



Caution: comply with the speeds recommended by component and abrasive manufacturers.

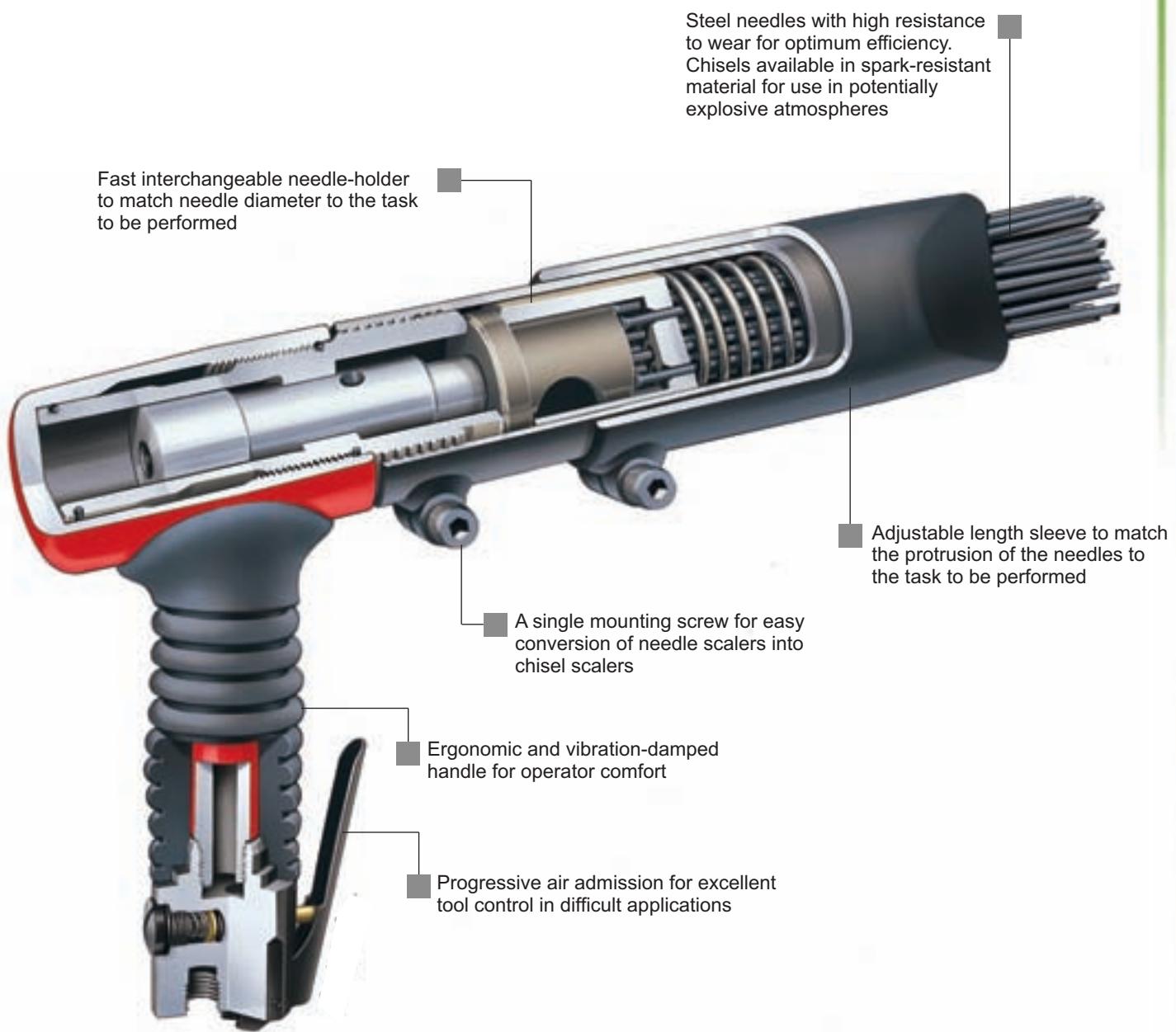
| PIC REF | MODEL | PART NUMBER | FREE SPEED | BELT SIZE L x I | POWER | | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR INLET THREAD | HOSE INT. Ø | | |
|------------|----------|----------------|---------------|--------------------|---------------|-----|--------|-----|----------------------------------|-----|---------------------|----------------|----|-----|
| | | | rpm | mm | in. | W | hp | kg | lb | l/s | cfm | in. | mm | in. |
| A | PL05-10D | 615 170 131 0 | 16000 | 480 x 16 | 187/8 x 5/8 | 300 | 0.4 | 1.2 | 2.6 | 12 | 25.4 | 1/4 | 6 | 1/4 |
| B | PL05-10E | 615 170 132 0 | 16000 | 480 x 20 | 187/8 x 25/32 | 300 | 0.4 | 1.2 | 2.6 | 12 | 25.4 | 1/4 | 6 | 1/4 |
| C | PL05-10F | 615 170 133 0 | 16000 | 480 x 25 | 187/8 x 63/64 | 300 | 0.4 | 1.2 | 2.6 | 12 | 25.4 | 1/4 | 6 | 1/4 |



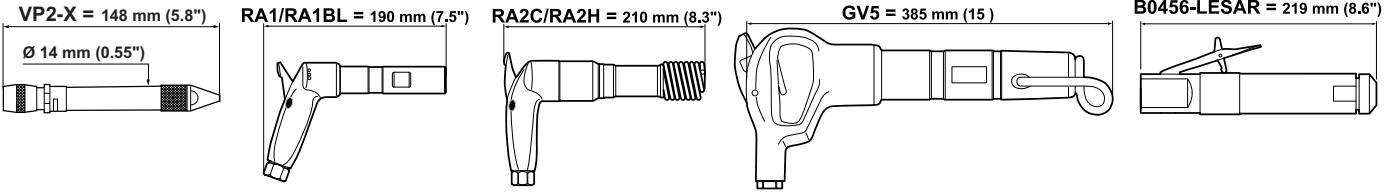
Desoutter



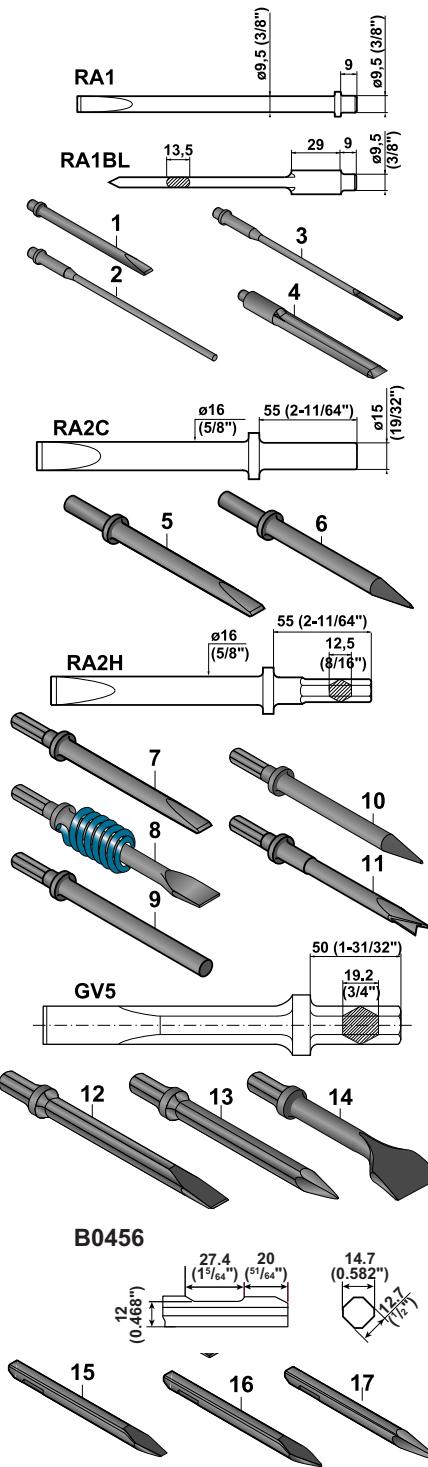
Needle Scalers, Chippers and Chisel Scalers



Accessories



VP2-X / RA1(BL) / RA2C(H) / GV5 / B0456



ACCESSORIES INCLUDED

| ITEM | VP2-X | RA1 / RA2 | B0456 |
|---|---------------|-----------|---------|
| • Air Hose - 3.2mm bore - Length 2m (78.7") - 1/8" - 1/4" BSP | 75902 | | |
| • Tungsten carbide tipped needle | 63213 | | |
| • Key | 63533 | | |
| • 1/4" air hose nipple for 10mm (3/8") ID hose | 615 705 006 0 | | P084376 |
| • Sealing chisel | | | |

OPTIONAL ACCESSORIES

Shank ø 9.5 x 9mm (3/8" x 23/64")

| ITEM | RA1 | RA1 BL |
|---|---------------|--------|
| 1 Chisel, width 9mm (23/64"), length 150mm (5 ²⁹ / ₃₂) | 615 040 115 0 | |
| 2 Chisel, ø 6mm (15/64"), length 250mm (9 ²⁷ / ₃₂) | 615 804 437 0 | |
| 3 Flat chisel, 3mm (1/8"), length 250mm (9 ²⁷ / ₃₂) | 615 804 438 0 | |
| 4 Chisel thickness, 6mm (15/64"), length 145mm (5 ⁴⁵ / ₆₄) | 615 041 114 0 | |
| 4 Chisel thickness, 6mm (15/64"), length 200mm (7 ⁷ / ₈) | 615 041 120 0 | |

Shank 126 - ø 15 x 55mm (19/32" x 211/64")

| ITEM | RA2C |
|--|---------------|
| 5 Chisel, width 16mm (5/8"), length 185mm (7 ⁹ / ₃₂) | 615 045 118 0 |
| 5 Chisel, width 16mm (5/8"), length 250mm (9 ²⁷ / ₃₂) | 615 804 088 0 |
| 6 Pick, length 185mm (7 ⁹ / ₃₂) | 615 045 218 0 |

Shank 122 - Hex 12.5 x 55mm (8/16" x 211/64")

| ITEM | RA2H |
|--|-----------------|
| 7 Chisel, width 16mm (5/8"), length 185mm (7 ⁹ / ₃₂) | 615 046 118 0 |
| 7 Chisel, width 16mm (5/8"), length 250mm (9 ²⁷ / ₃₂) | 615 804 089 0 |
| 7 Chisel, width 16mm (5/8"), length 310mm (12 ¹³ / ₆₄) | 615 804 431 0 |
| 7 Chisel, width 16mm (5/8"), length 500mm (19 ¹¹ / ₁₆) | 615 804 090 0 |
| 8 Chisel*, width 24mm (15/16"), length 310mm (12 ¹³ / ₆₄) | 615 804 440 0 * |
| 8 Chisel*, width 50mm (131/32"), length 250mm (9 ²⁷ / ₃₂) | 615 804 421 0 * |
| *Supplied with retaining spring 615 690 089 0 (former TR0289) | |
| 9 Blank tool, length 175mm (6 ⁵⁷ / ₆₄) | 615 046 017 0 |
| 9 Blank tool, length 240mm (9 ²⁹ / ₆₄) | 615 046 024 0 |
| 10 Pick, length 185mm (7 ⁹ / ₃₂) | 615 046 218 0 |
| 10 Pick, length 250mm (9 ²⁷ / ₃₂) | 615 804 092 0 |
| 11 Blade cutter, length 200mm (7 ⁷ / ₈) | 615 046 920 0 |

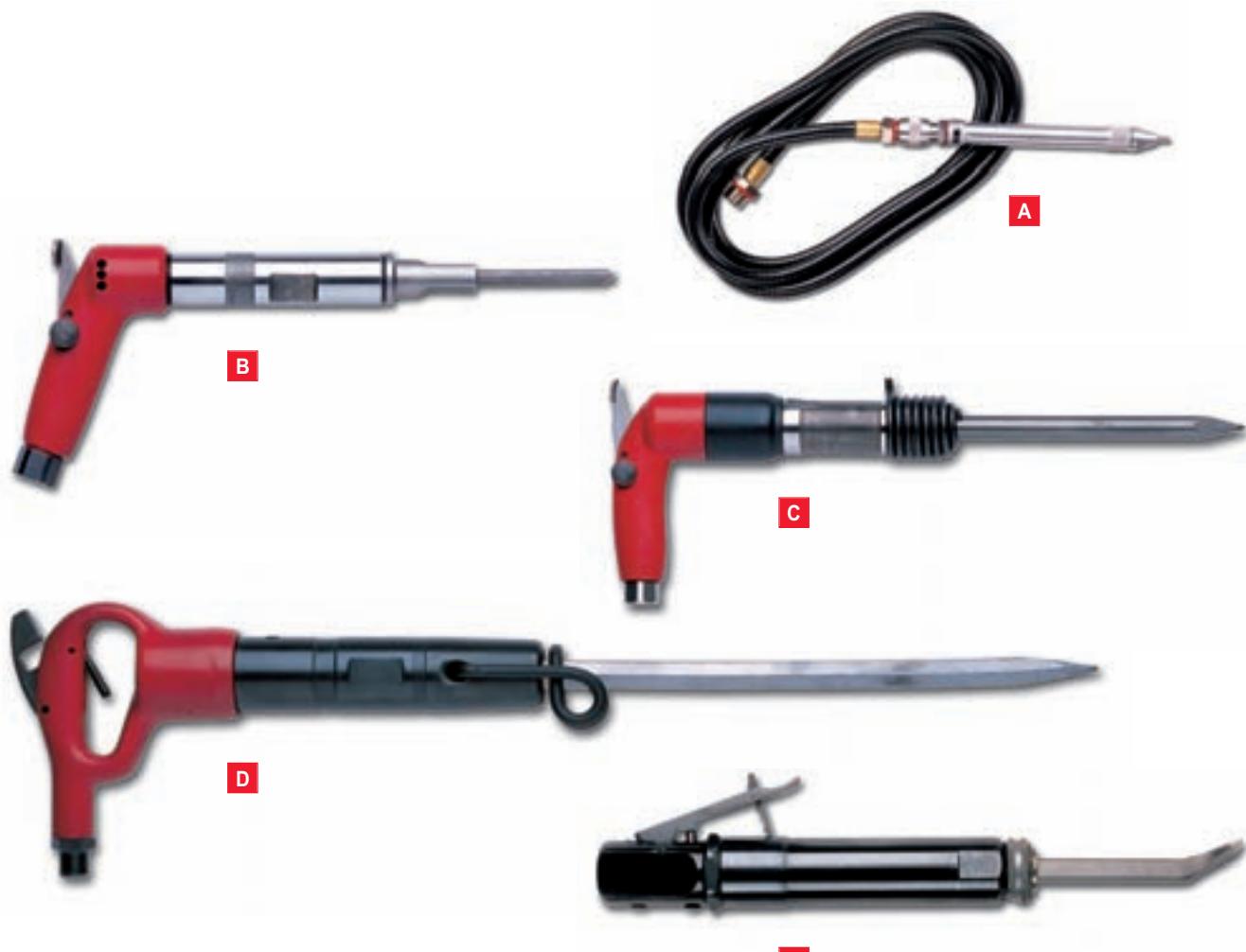
Hex. shank 19.2 x 50mm (3/4" x 131/32")

| ITEM | GV5 |
|---|---------------|
| 12 Chisel, width 19mm (3/4"), length 300mm (11 ¹⁵ / ₁₆) | 615 804 095 0 |
| 12 Chisel, width 19mm (3/4"), length 500mm (19 ¹¹ / ₁₆) | 615 804 096 0 |
| 13 Pick, length 300mm (11 ¹⁵ / ₁₆) | 615 804 093 0 |
| 13 Pick, length 500mm (19 ¹¹ / ₁₆) | 615 804 094 0 |
| 14 Scraper, width 60mm (2 ²³ / ₆₄ "), length 250mm (9 ²⁷ / ₃₂) | 615 804 097 0 |

Shank: Qtr. Oct WF 1/2" (B0456)

| ITEM | B0456 |
|--|---------|
| 15 Flat Chisel, 15.9mm (5/8") face, length 191mm (7 ¹ / ₂) | P073225 |
| 15 Flat Chisel, 35mm (1 ³ / ₈) face, length 102mm (4") | P072213 |
| 15 Flat Chisel, 35mm (1 ³ / ₈) face, length 229mm (9") | P084175 |
| 15 Flat Chisel, 35mm (1 ³ / ₈) face, length 305mm (12") | P084176 |
| 15 Flat Chisel, 35mm (1 ³ / ₈) face, length 457mm (18") | P084177 |
| 15 Flat Chisel, 44mm (1 ³ / ₄) face, length 213mm (5 ³ / ₈) | P070982 |
| • Angle Scaling, 35mm (1 ³ / ₈) face, length 165mm (6 ¹ / ₂) | P084376 |
| 16 Cape 6.4mm (1/4") face length 191mm (7 ¹ / ₂) | P073224 |
| 17 Diamond Pt. 6.4mm (1/4") face length 191mm (7 ¹ / ₂) | P073223 |

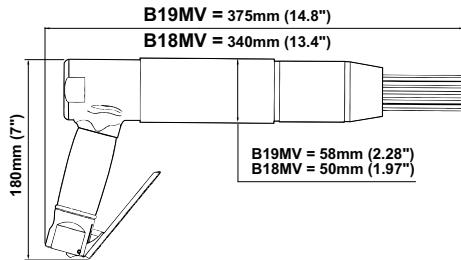
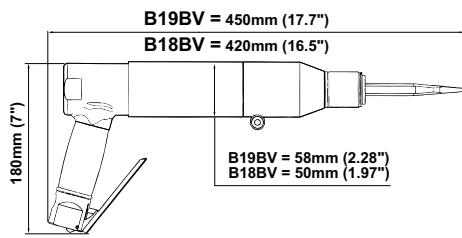
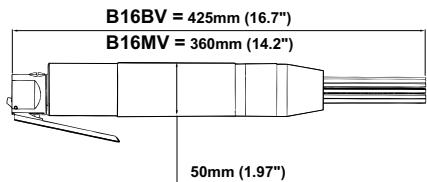
Air Scribe, Chisel Scalers and Weld Flux Chipper



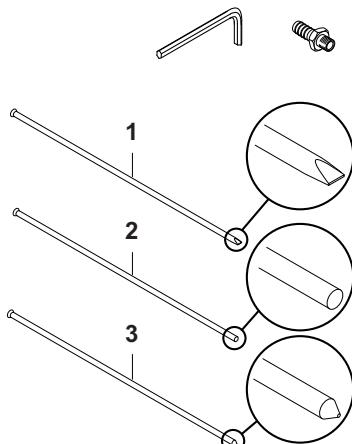
All models: supplied without chisel, except for B0456

| PIC REF | MODEL | PART NUMBER | BORE & STROKE | | SHANK | BLOWS PER MINUTE | WEIGHT | | | AIR CONSUMPTION AT FREE SPEED | | AIR INLET THREAD | HOSE INT. Ø | |
|--------------------------|-------------|---------------|---------------|-------------|------------------|------------------|--------|------|-----|-------------------------------|-----|------------------|-------------|-----|
| | | | mm | in. | | Blows/min | kg | lb. | l/s | cfm | | in. | mm | in. |
| AIR SCRIBE | | | | | | | | | | | | | | |
| A | VP2-X | 671094 | - | - | - | 11400 | 0.1 | 0.2 | 0.9 | 1.9 | 1/8 | 3.2 | 1/8 | |
| CHISEL SCALERS | | | | | | | | | | | | | | |
| B | RA1 | 615 174 018 0 | 13 x 45 | 0.51 x 1.77 | Round | 4000 | 1.1 | 2.4 | 3.0 | 7.0 | 1/4 | 10 | 3/8 | |
| B | RA1 BL | 615 174 019 0 | 13 x 45 | 0.51 x 1.77 | Flatnosed | 4000 | 1.1 | 2.4 | 3.0 | 7.0 | 1/4 | 10 | 3/8 | |
| C | RA2C | 615 174 020 0 | 18 x 58 | 0.71 x 2.28 | 126 | 3500 | 2.0 | 4.4 | 4.6 | 9.7 | 1/4 | 10 | 3/8 | |
| C | RA2H | 615 174 021 0 | 18 x 58 | 0.71 x 2.28 | 122 | 3500 | 2.0 | 4.4 | 4.6 | 9.7 | 1/4 | 10 | 3/8 | |
| PNEUMATIC HAMMER | | | | | | | | | | | | | | |
| D | GV5 | 615 174 017 0 | 28 x 52.5 | 1.1 x 2.07 | 19 x 50 | 2400 | 5.1 | 11.2 | 8.3 | 17.6 | 1/2 | 13 | 1/2 | |
| WELD FLUX CHIPPER | | | | | | | | | | | | | | |
| E | B0456-LESAR | T013046 | 23.8 x 25.4 | 15/16 x 1.0 | Qtr. Oct WF 1/2" | 4300 | 1.6 | 3.5 | 4.7 | 10.0 | 1/4 | 10 | 3/8 | |

Accessories



B16MV / B18MV / B19MV



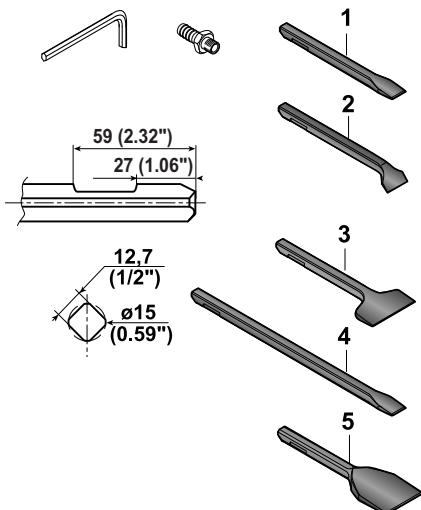
ACCESSORIES INCLUDED

| ITEM | PART NO. |
|--|---------------|
| • Hex. Key 6mm | 615 802 056 0 |
| • 1/4" air hose nipple for 10mm (3/8") ID hose | |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|---|---------------|
| 1 Chisel tip needles, ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 819 0 |
| 1 Chisel tip needles, ø 4mm (5/32"), length 178mm (7") (Qty 100) | 615 399 820 0 |
| 2 Flat tip needles, ø 2mm (5/64"), length 178mm (7") (Qty 100) | 615 399 816 0 |
| 2 Flat tip needles, ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 817 0 |
| 2 Flat tip needles, ø 4mm (5/32"), length 178mm (7") (Qty 100) | 615 399 818 0 |
| 3 Pointed tip needles, ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 821 0 |
| 3 Pointed tip needles, ø 4mm (5/32"), length 178mm (7") (Qty 100) | 615 399 822 0 |

B16BV / B18BV / B19BV



ACCESSORIES INCLUDED

| ITEM | PART NO. |
|--|---------------|
| • Hex. Key 6mm | 615 802 056 0 |
| • 1/4" air hose nipple for 10mm (3/8") ID hose | |
| 1 Chisel, width 19mm (3/4"), length 178mm (7") for B18BV & B19BV | 615 804 618 0 |
| 2 Angle chisel, width 35mm (1 3/8"), length 178mm (7") for B16BV | 615 804 622 0 |

OPTIONAL ACCESSORIES ISO 1/2" Square Shank Chisels

| ITEM | PART NO. |
|--|---------------|
| 1 Chisel, width 19mm (3/4"), length 178mm (7") | 615 804 618 0 |
| 2 Angle chisel, width 35mm (1 3/8"), length 178mm (7") | 615 804 622 0 |
| 3 Chisel, width 64mm (2 1/2"), length 178mm (7") | 615 804 619 0 |
| 4 Chisel, width 19mm (3/4"), length 254mm (10") | 615 804 620 0 |
| 5 Chisel, width 50mm (2"), length 178mm (7") | 615 804 621 0 |



Vibration-Damped Chippers and Needle Scalers



A



B



C



D



E



F

B16BV Hammer is delivered with an angle chisel and **B18BV / B19BV Hammers** are delivered with standard straight chisel
All Needle Scalers are delivered with Chisel Tipped needles.

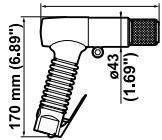
| PIC REF | MODEL | PART NUMBER | BORE & STROKE | NEEDLE / CHISEL CAPACITY | BLOWS PER MINUTE | WEIGHT | AIR CONSUMPTION AT FREE SPEED | AIR INLET THREAD | HOSE INT. Ø |
|--|-------|---------------|---------------|--------------------------|------------------|--------|-------------------------------|------------------|-------------|
| | | | mm in. | No. x Ø mm (in.) | Blows/min | kg lb. | l/s cfm | in. | mm in. |
| VIBRATION-DAMPED NEEDLE SCALERS | | | | | | | | | |
| A | B16MV | 615 174 050 0 | 23.5 x 11 | 0.92 x 0.43 | 19 x 3 (1/8) | 2 400 | 2.4 5.3 | 2.4 | 5.1 |
| B | B18MV | 615 174 052 0 | 23.5 x 11 | 0.92 x 0.43 | 19 x 3 (1/8) | 2 400 | 2.7 5.9 | 2.0 | 4.2 |
| C | B19MV | 615 174 054 0 | 34.4 x 20 | 1.35 x 0.79 | 28 x 3 (1/8) | 3 000 | 3.6 7.9 | 2.1 | 4.4 |
| VIBRATION-DAMPED CHIPPERS | | | | | | | | | |
| D | B16BV | 615 174 051 0 | 23.5 x 11 | 0.92 x 0.43 | 1/2" Square | 2 400 | 2.8 6.2 | 2.4 | 5.1 |
| E | B18BV | 615 174 053 0 | 23.5 x 11 | 0.92 x 0.43 | 1/2" Square | 2 400 | 3.1 6.8 | 2.0 | 4.2 |
| F | B19BV | 615 174 055 0 | 34.4 x 20 | 1.35 x 0.79 | 1/2" Square | 3 000 | 4.1 9.0 | 2.1 | 4.4 |

Accessories

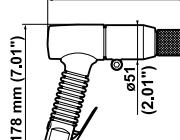
B15B = 201 mm (7.91")
B16B = 231 mm (9.09")



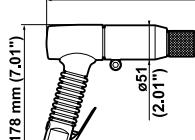
B18B = 173 mm (6.81")



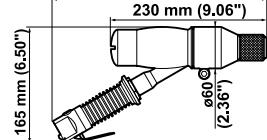
B19B = 191 mm (7.52")



B19B-1 = 218 mm (8.58")



B21B = 310 mm (12.20")
230 mm (9.06")



B15B / B16B / B18B / B19B / B19B1 / B21B

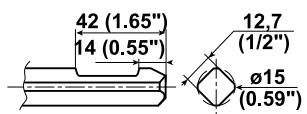
ACCESSORIES INCLUDED



- Hex. Key 6mm (1/4")
- 1/4" air hose nipple for 10mm ID hose

PART NO.

615 802 056 0



OPTIONAL ACCESSORIES

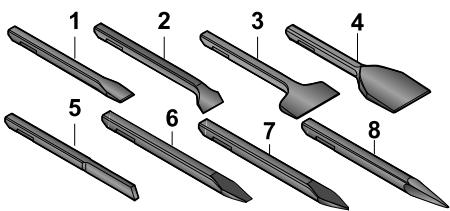
ISO 1/2" Square Shank Chisels

ITEM

B15B / B16B

B18B / B19B / B21B

| | |
|--|---------------|
| 1 Chisel, width 19mm (3/4"), length 180mm (7") | 615 804 443 0 |
| 2 Angle chisel, width 35mm (1 1/8"), length 180mm (7") | 615 804 444 0 |
| 3 Chisel, width 60mm (3 23/64"), length 180mm (7") | 615 804 445 0 |
| 4 Spark-resistant chisel, width 50mm (1 31/32") | 615 003 900 0 |
| 5 Chisel, width 6mm (1/4"), length 180mm (7") for brick joints | 615 804 062 0 |
| 6 Flat Chisel, 15.9mm (5/8") face, length 191mm (7 1/2") | P073225 |
| 6 Flat Chisel, 35mm (1 1/8") face, length 102mm (4") | P072213 |
| 6 Flat Chisel, 35mm (1 1/8") face, length 229mm (9") | P084175 |
| 6 Flat Chisel, 35mm (1 1/8") face, length 305mm (12") | P084176 |
| 6 Flat Chisel, 35mm (1 1/8") face, length 457mm (18") | P084177 |
| 6 Flat Chisel, 44mm (1 3/8") face, length 213mm (5 3/8") | P070982 |
| 7 Cape 6.4mm (1/4") face length 191mm (7 1/2") | P073224 |
| 8 Diamond Pt. 6.4mm (1/4") face length 191mm (7 1/2") | P073223 |

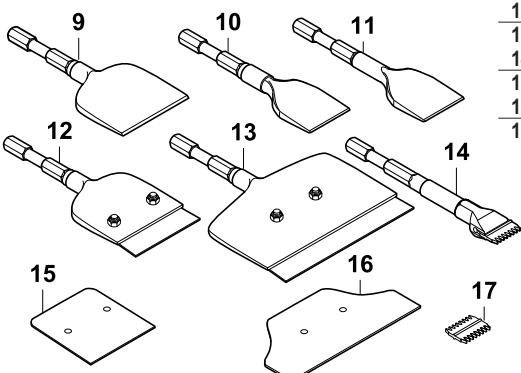


Hex. Shank 5/8" Chisels

ITEM

B19B1

| | |
|---|---------------|
| 9 Chisel, width 100mm (3 15/16"), length 180mm (7") | 615 804 441 0 |
| 10 Chisel, width 50mm (1 31/32"), length 180mm (7") | 615 804 442 0 |
| 11 Spark-resistant chisel, width 50mm (1 31/32") | 615 002 900 0 |
| 12 Scaling tool, width 100mm (3 15/16") | 615 002 901 0 |
| 13 Scaling tool, width 200mm (7 7/8") | 615 002 902 0 |
| 14 Comb-type chisel, width 38mm (1 1/2"), length 180mm (7") | 615 002 903 0 |
| 15 Spare blade, width 100mm (3 15/16") (Qty 5) | 615 250 527 0 |
| 16 Spare blade, width 200mm (7 7/8") (Qty 5) | 615 250 528 0 |
| 17 Spare comb, width 38mm (1 1/2") | 615 250 539 0 |



Chippers - Chisel Scalers



A



B



C



D

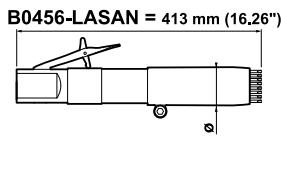
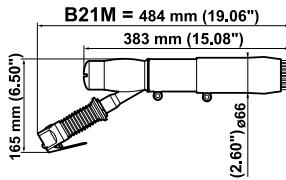
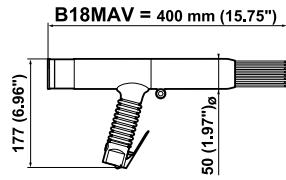
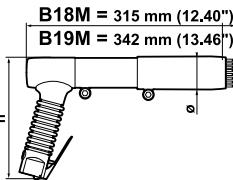
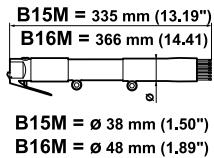


E

All models: Supplied without chisel

| PIC REF | MODEL | PART NUMBER | BORE & STROKE | | SHANK | BLOWS PER MINUTE | WEIGHT | | AIR CONSUMPTION AT FREE SPEED | | AIR INLET THREAD | HOSE INT. Ø | |
|------------|-------|----------------|---------------------|---------------------------|----------------|------------------------|-----------|-----|-------------------------------------|-----|------------------------|-------------------|------|
| | | | mm | in. | | | Blows/min | kg | lb. | l/s | cfm | in. | mm |
| A | B15B | 615 174 023 0 | 18.0 x 30.0 | 0.71 x 1.18 | ISO 1/2 square | 3800 | 1.5 | 3.3 | 1.4 | 3.0 | 1/4 | 8 | 5/16 |
| A | B16B | 615 174 025 0 | 23.5 x 35.6 | 0.92 x 1.40 | ISO 1/2 square | 3000 | 2.0 | 4.4 | 2.6 | 5.5 | 1/4 | 10 | 3/8 |
| B | B18B | 615 174 027 0 | 23.5 x 35.6 | 0.92 x 1.40 | ISO 1/2 square | 3000 | 2.0 | 4.4 | 2.6 | 5.5 | 1/4 | 10 | 3/8 |
| C | B19B | 615 174 030 0 | 28.6 x 39.0 | 1.12 x 1.53 | ISO 1/2 square | 2200 | 3.0 | 6.6 | 3.8 | 8.0 | 1/4 | 10 | 3/8 |
| D | B19B1 | 615 174 031 0 | 28.6 x 39.0 | 1.12 x 1.53 | Hex. 5/8 | 2200 | 3.0 | 6.6 | 3.8 | 8.0 | 1/4 | 10 | 3/8 |
| E | B21B | 615 174 040 0 | 33.0 x 49.2 | 1.30 x 1 ^{15/16} | ISO 1/2 square | 2200 | 4.0 | 8.8 | 4.0 | 8.5 | 1/4 | 10 | 3/8 |

Accessories



B18M = Ø 48 mm (1.89") h = 170mm 170mm (6.7")
B19M = Ø 60 mm (2.36") h = 178mm 177mm (7")

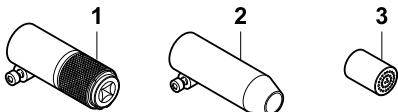
B15M / B16M / B18M / B18MAV / B19M / B21M



ACCESSORIES INCLUDED

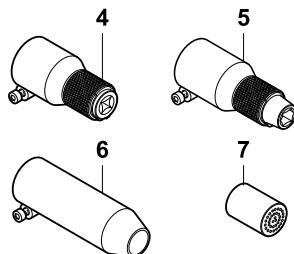
PART NO.

| | |
|--|---------------|
| • Hex. Key 6mm | 615 802 056 0 |
| • 1/4" air hose nipple for 10mm (3/8") ID hose | |



OPTIONAL ACCESSORIES

| ITEM | B15M | B16M/B18M |
|--|---------------|---------------|
| 1 1 1/2" square tool retainer | 615 250 524 0 | 615 250 525 0 |
| 2 Round adjustable sleeve | 615 250 523 0 | 615 250 515 0 |
| 3 Needle holder for 29 needles Ø 2mm (5/64") | 615 250 531 0 | |
| 3 Needle holder for 51 needles Ø 2mm (5/64") | | 615 250 532 0 |

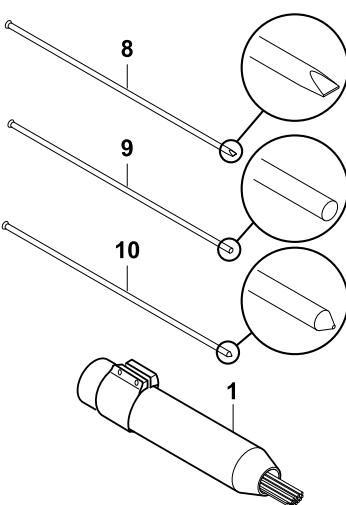


OPTIONAL ACCESSORIES

| ITEM | B19M | B21M |
|--|---------------|---------------|
| 4 1 1/2" square tool retainer | 615 250 538 0 | 615 250 536 0 |
| 5 5/8" hex. tool retainer | 615 250 526 0 | |
| 6 Round adjustable sleeve | 615 250 519 0 | 615 250 535 0 |
| 7 Needle holder for 19 needles Ø 4mm (5/32") | 615 250 533 0 | |
| 7 Needle holder for 65 needles Ø 2mm (5/64") | | 615 250 543 0 |
| 7 Needle holder for 49 needles Ø 3mm (1/8") | | 615 250 537 0 |

Needles Sets - for all Models

| | |
|--|---------------|
| 8 Chisel tip needles, Ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 819 0 |
| 9 Flat tip needles, Ø 2mm (5/64"), length 178mm (7") (Qty 100) except for B18MAV | 615 399 816 0 |
| 9 Flat tip needles, Ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 817 0 |
| 9 Flat tip needles, Ø 4mm (5/32"), length 178mm (7") (Qty 100) except for B18MAV | 615 399 818 0 |
| 10 Pointed tip needles, Ø 3mm (1/8"), length 178mm (7") (Qty 100) | 615 399 821 0 |
| 10 Pointed tip needles, Ø 4mm (5/32"), length 178mm (7") (Qty 100) except for B18MAV | 615 399 822 0 |



B0456

OPTIONAL ACCESSORIES

| ITEM | B0456-LASAN |
|--|-------------|
| 1 Round Nose | P103105 |
| Needles Sets | |
| • Steel needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 19 | P100146 |
| • Steel needle set, Ø 2mm (5/64"), length 178mm (7") Qty. 29 | NP123905 |
| • Steel needle set, Ø 2mm (5/64"), length 178mm (7") Qty. 53 | NP123906 |
| • Steel needle set, Ø 3mm (1/8"), length 127mm (5") Qty. 19 | P136403 |
| • Steel needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 12 | NP123901 |
| • Steel needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 23 | NP123902 |
| • Steel needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 28 | NP123903 |
| • Steel needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 250 | NP137638 |
| • Stainless, needle set, Ø 3mm (1/8"), length 178mm (7") Qty. 19 | P106454 |

Standard Needle Scalers and Vibration-Damped Needle Scaler



All models: Supplied with chisel tip needles and flatnosed sleeve except for B18MAV & B0456 (round sleeve) and B21M with flat needles.

*Entire needle attachment can be removed from B0456-LASAN.

| PIC REF | MODEL | PART NUMBER | BORE & STROKE | NEEDLE CAPACITY | BLOWS PER MINUTE | WEIGHT | AIR CONSUMPTION AT FREE SPEED | | AIR INLET THREAD | HOSE INT. Ø | | | |
|---------------------------------------|--------------|---------------|---------------|--|------------------|-----------|-------------------------------|------|------------------|-------------|-----|----|------|
| | | | mm | in. | No. x ø mm (in.) | Blows/min | kg | lb. | l/s | cfm | in. | mm | in. |
| STANDARD NEEDLE SCALERS | | | | | | | | | | | | | |
| A | B15M | 615 174 024 0 | 18.0 x 30.0 | 0.71 x 1.18 | 12 x 3 (1/8) | 3800 | 1.6 | 3.5 | 1.4 | 3.0 | 1/4 | 8 | 5/16 |
| A | B16M | 615 174 026 0 | 23.5 x 35.6 | 0.92 x 1.40 | 19 x 3 (1/8) | 3000 | 2.6 | 5.7 | 2.6 | 5.5 | 1/4 | 10 | 3/8 |
| B | B18M | 615 174 028 0 | 23.5 x 35.6 | 0.92 x 1.40 | 19 x 3 (1/8) | 3000 | 2.6 | 5.7 | 2.6 | 5.5 | 1/4 | 10 | 3/8 |
| B | B19M | 615 174 032 0 | 28.6 x 39.0 | 1.12 x 1.53 | 28 x 3 (1/8) | 2200 | 3.7 | 8.2 | 3.8 | 8.0 | 1/4 | 10 | 3/8 |
| C | B21M | 615 174 041 0 | 33.0 x 49.2 | 1.30 x 11 ⁵ / ₁₆ | 35 x 4 (5/32) | 2200 | 5.6 | 12.4 | 4.0 | 8.5 | 1/4 | 10 | 3/8 |
| D | B0456-LASAN* | T013049 | 23.8 x 25.4 | 15/16 x 1 | 19 x 3 (1/8) | 4300 | 2.7 | 6.0 | 6.6 | 13.9 | 1/4 | 10 | 3/8 |
| VIBRATION-DAMPED NEEDLE SCALER | | | | | | | | | | | | | |
| E | B18MAV | 615 174 029 0 | 23.5 x 35.6 | 0.92 x 1.40 | 19 x 3 (1/8) | 3000 | 3.5 | 7.7 | 2.6 | 5.5 | 1/4 | 10 | 3/8 |



Riveting & Drilling - Selection Guide

| TOOL TYPE | ACCESSORIES | PAGE |
|--|---|---------|
| RIVETING HAMMERS | | 234-237 |
|  |  | |
| COMPRESSION TOOLS - RIVETING | | 238-245 |
|  | | |
| PISTOL GRIP DRILLS | | 246-251 |
|  |  | |
| STRAIGHT GRIP DRILLS | | 252 |
|  |  | |
| ANGLE DRILLS - Compact 90° Angle Head - Standard 90° Angle Head Heavy Duty 90° Angle Head | | 253-256 |
|  |  | |
| ANGLE DRILLS - Compact 30°/45° & 360° Angle Head Standard 360° Angle Head | | 257-258 |
|  |  | |
| TAPPERS | | 259 |
|  |  | |
| MULTI DRILLS | | 260-261 |
|  |  | |
| SPECIALITY TOOLS - Hole Deburring & Rivet Shaving Rack Feed Drills | | 262-265 |
|  |  | |
| ACCESSORIES | | 266-269 |
|  | | |
| CFD - PECK-CFD - Portable Feed Drill | | 270-275 |
|  |  | |



Riveting Hammers, Compression Tools Riveting

A complete range of riveting tools to accommodate many hand held applications, from compression riveters to riveting hammers, Desoutter can provide riveting tools to suit most needs

Compression Riveting Tools



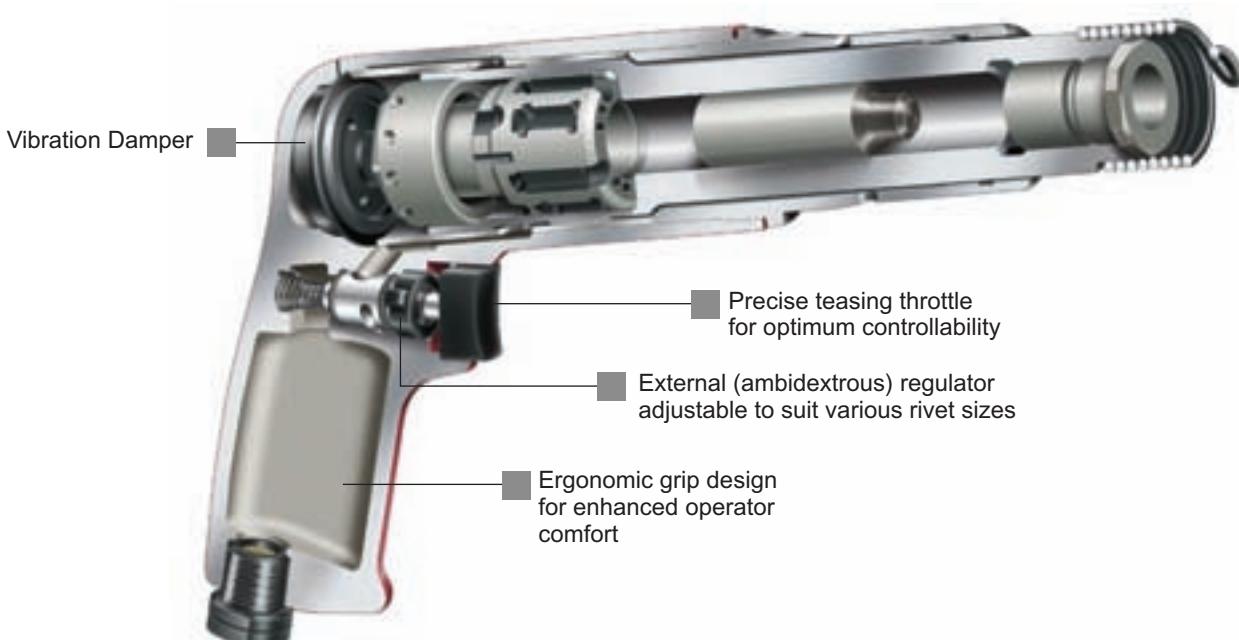
Percussive Riveting Tools

Conventional riveting hammers CP4444 & CP4447 provide the power capable of upsetting aluminium rivets up to Ø9.5mm (3/8") and steel rivets up to Ø7.9mm (5/16").

'Vibration Reduced' Percussive Riveting Tools

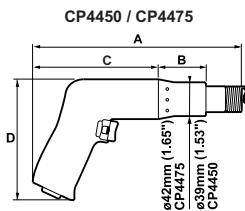
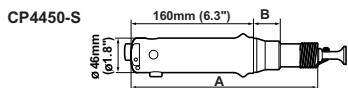
In pistol form the CP4450 with a capacity up to Ø6.4mm (1/4") and the new high force CP4475 with a capacity up to Ø9.5mm (3/8").

The CP4450-S in-line 'Vibration reduced' riveting hammer is ideal for over structure application when vertical application is necessary

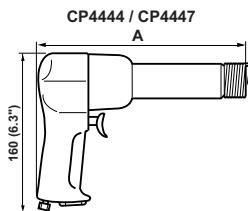


Accessories

| Model | A mm in. | B mm in. | C mm in. | D mm in. |
|----------|----------------|----------------|----------------|----------------|
| CP4450-2 | 213 | 8.4 | 32 | 1.26 |
| CP4450-3 | 226 | 8.9 | 32 | 1.26 |
| CP4450-4 | 251 | 9.9 | 60 | 2.36 |
| CP4475-3 | 275 | 10.8 | 54 | 2.13 |
| CP4475-4 | 300 | 11.8 | 79 | 3.11 |
| CP4475-6 | 351 | 13.8 | 130 | 5.12 |

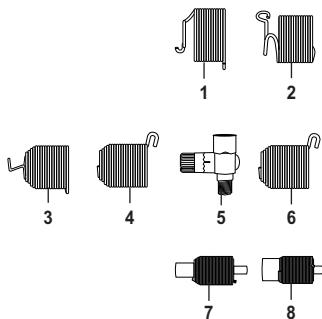


| Model | A mm in. |
|--------------|----------------|
| CP4444-RURAB | 170 6.7 |
| CP4444-RUSAB | 186 7.3 |
| CP4444-RUTAB | 211 8.3 |
| CP4447-RUSAB | 227 8.9 |
| CP4447-RUTAB | 252 9.9 |
| CP4447-RUVAB | 303 11.9 |



CP4444 / CP4447 / CP4450 / CP4475 / CP4450-S

| Model | A mm in. | B mm in. |
|------------|----------------|----------------|
| CP4450-S-2 | 220 | 8.7 |
| CP4450-S-3 | 223 | 9.2 |
| CP4450-S-4 | 258 | 10.2 |



ACCESSORIES INCLUDED

ITEM

- 1 Light Wire Quick-Change Retainer
2 Wire Quick-Change Retainer

CP4444
CP4450(S)

CP4447
CP4475

A046095

A047095

OPTIONAL ACCESSORIES

ITEM

- | | CP4444 | CP4447 |
|---|----------|--------|
| 3 Zip-Quick Retainer | A046094 | |
| 4 Beehive Retainer | A046096 | |
| 5 Air Inlet Regulation (for CP4450-S only) | CA085203 | |
| 6 Beehive Retainer | A047096 | |
| 7 Nail Driving Attachment for 20-60 Penny Nail Size (for CP4447-RUSAB & CP4475) | P042448 | |
| 8 Nail Driving Attachment for 12" Spikes (for CP4447-RUVAB) | P047810 | |

CP4444 / CP4450 / CP4450-S

Type I Rivet Sets ø 10.2mm (0.401")

| RIVET HEAD CUPPING | 2.4mm (3/32") | 3.2mm (1/8") | 4.0mm (5/32") | 4.8mm (3/16") | 6.4mm (1/4") |
|----------------------|---------------|--------------|---------------|---------------|--------------|
| • Round (AN-430) | P089206 | P089207 | P089208 | P089209 | P089210* |
| • Brazier (AN-455) | P089211 | P089212 | P089213 | P089214 | P089215* |
| • Universal (AN-470) | P089221 | P089222 | P089223 | P089224 | P089225* |
| • Soft Blank Set | P071108 | | | | |
| • Hardened Blank Set | P080178 | | | | |

* Must use Light Wire Quick-Change Retainer, A046095 with these sets

Type I Flush Rivet Sets ø 10.2mm (0.401")

A .401 SHANK

| | mm | in | |
|---|------|--------|---------|
| • | 25.4 | 1" | A046090 |
| • | 31.8 | 1 1/4" | A089232 |
| • | 38.1 | 1 1/2" | A089233 |
| • | 44.5 | 1 3/4" | A046091 |

CP4447 / CP4475

Type D Rivet Sets ø 12.7mm (0.498")

RIVET SET PART NO.
BY RIVET BODY DIA.

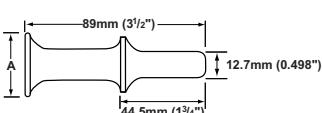
| RIVET HEAD CUPPING | 4.8mm (3/16") | 6.4mm (1/4") | 8mm (5/16") |
|-----------------------------|---------------|--------------|-------------|
| • Round (AN-430) | P089240 | P089241 | P089242* |
| • Brazier (AN-455) | P089244 | P089245 | |
| • Modified Brazier (AN-456) | P089248 | P089244 | P089245* |
| • Universal (AN-470) | P089252 | P089253 | P089254* |
| • Soft Blank Set | P070995 | | |
| • Hardened Blank Set | P080198 | | |

* Must use Light Wire Quick-Change Retainer, A047095

Type I Flush Rivet Sets ø 12.7mm (0.498")

A .498 SHANK

| | mm | in | |
|---|------|--------|---------|
| • | 31.8 | 1 1/4" | A047091 |



Standard and Vibration Reduced Riveting Hammers



Air inlet thread: 1/4" NPT/BSP

| PIC REF | MODEL | PART NUMBER | AIRFRAME REF | BLOW PER MINUTE | BORE AND STROKE | ENERGY PER BLOW | CHISEL SHANK OPENING | CAPACITY COLD RIVETS | WEIGHT | HOSE INT. Ø |
|---------|-------|-------------|--------------|-----------------|-----------------|-----------------|----------------------|----------------------|--------|-------------|
| | | | | | mm | J ft.lb | | Dural Steel | kg lb | mm in. |

RIVETING HAMMERS (PISTOL GRIP) - STANDARD

| | | | | | | | | | | | | | | |
|---|--------------|---------|-----|------|-----------------------------------|------|------|------------------|----------------|----------------|-----|-----|----|-----|
| A | CP4444-RURAB | T022961 | 2X | 2580 | 12.7 x 50.8mm 1/2" x 2" | 4.0 | 2.9 | TYPE 1 0.401" | 3.2mm 1/8" | 2.4mm 3/32" | 1.0 | 2.2 | 10 | 3/8 |
| A | CP4444-RUSAB | T022962 | 3X | 2160 | 12.7 x 76.2mm 1/2" x 3" | 6.1 | 4.5 | TYPE 1 0.401" | 4.8mm 3/16" | 4.0mm 5/32" | 1.1 | 2.3 | 10 | 3/8 |
| A | CP4444-RUTAB | T022963 | 4X | 1740 | 12.7 x 101.6mm 1/2" x 4" | 8.1 | 6.0 | TYPE 1 0.401" | 6.4mm 1/4" | 4.8mm 3/16" | 1.3 | 2.7 | 10 | 3/8 |
| B | CP4447-RUSAB | T022965 | 5XB | 1560 | 19.1 x 68.3mm 3/4" x 2 11/16" | 12.3 | 9.1 | TYPE D 0.498" | 6.4mm 5/16" | 4.8mm 3/16" | 2.2 | 4.7 | 10 | 3/8 |
| B | CP4447-RUTAB | T022912 | 9XB | 1140 | 19.1 x 98.4mm 3/4" x 3 7/8" | 17.8 | 13.1 | TYPE D 0.498" | 7.9mm 5/16" | 6.4mm 1/4" | 2.3 | 5.1 | 10 | 3/8 |
| B | CP4447-RUVAB | T022964 | 7XB | 900 | 19.1 x 147.6mm 3/4" x 5 13/16" | 26.6 | 19.6 | TYPE D 0.498" | 9.5mm 3/8" | 7.9mm 5/16" | 2.7 | 9.0 | 10 | 3/8 |

RIVETING HAMMERS (PISTOL GRIP) - VIBRATION REDUCED

| | | | | | | | | | | | | | | |
|---|----------|---------|-----|------|-----------------------------|------|------|------------------|----------------|----------------|-----|-----|----|-----|
| C | CP4450-2 | T025189 | 2X | 2580 | 12.7 x 50.8mm 1/2" x 2" | 4.0 | 2.9 | TYPE 1 0.401" | 3.2mm 1/8" | 2.4mm 3/32" | 1.2 | 2.7 | 10 | 3/8 |
| C | CP4450-3 | T025190 | 3X | 2160 | 12.7 x 76.2mm 1/2" x 3" | 6.1 | 4.5 | TYPE 1 0.401" | 4.8mm 3/16" | 4.0mm 5/32" | 1.3 | 2.8 | 10 | 3/8 |
| C | CP4450-4 | T025191 | 4X | 1740 | 12.7 x 101.6mm 1/2" x 4" | 8.1 | 6.0 | TYPE 1 0.401" | 6.4mm 1/4" | 4.8mm 3/16" | 1.5 | 3.2 | 10 | 3/8 |
| D | CP4475-3 | T025241 | 5XB | 2000 | 19.1 x 76.2mm 3/4" x 3" | 13.7 | 10.1 | TYPE D 0.498" | 6.4mm 1/4" | 4.8mm 3/16" | 1.8 | 3.9 | 10 | 3/8 |
| D | CP4475-4 | T025242 | 9XB | 1700 | 19.1 x 101.6mm 3/4" x 4" | 18.3 | 13.5 | TYPE D 0.498" | 7.9mm 5/16" | 6.4mm 1/4" | 2.4 | 5.3 | 10 | 3/8 |
| D | CP4475-6 | T025243 | 7XB | 1250 | 19.1 x 152.4mm 3/4" x 6" | 27.5 | 20.3 | TYPE D 0.498" | 9.5mm 3/8" | 7.9mm 5/16" | 2.8 | 6.2 | 10 | 3/8 |

RIVETING HAMMERS (IN-LINE) - VIBRATION REDUCED

| | | | | | | | | | | | | | | |
|---|------------|---------------|----|------|-----------------------------|-----|-----|------------------|----------------|----------------|------|-----|----|-----|
| E | CP4450-S-2 | 205 146 712 4 | 2X | 2580 | 12.7 x 50.8mm 1/2" x 2" | 4.0 | 2.9 | TYPE 1 0.401" | 3.2mm 1/8" | 2.4mm 3/32" | 1.25 | 2.8 | 10 | 3/8 |
| E | CP4450-S-3 | 205 146 713 4 | 3X | 2160 | 12.7 x 76.2mm 1/2" x 3" | 6.1 | 4.5 | TYPE 1 0.401" | 4.8mm 3/16" | 4.0mm 5/32" | 1.35 | 3.0 | 10 | 3/8 |
| E | CP4450-S-4 | 205 146 714 4 | 4X | 1740 | 12.7 x 101.6mm 1/2" x 4" | 8.1 | 6.0 | TYPE 1 0.401" | 6.4mm 1/4" | 4.8mm 3/16" | 1.45 | 3.2 | 10 | 3/8 |

Compression Tools – Riveting – Selection



CP0214 – C Yoke

- Single and Tandem cylinder options
- Riveting Capacity –
 - ø 3.2mm (1/8") (single cylinder)
 - ø 4.8mm (3/16") (tandem cylinder)
- Lock-off throttle – reduces the risk of accidental operation



CP0341 – C Yoke

- Patented 'Pneudraulic™' air-hydraulic riveter
- Riveting Capacity –
 - ø 7.14mm (9/32")
- Lock-off throttle – reduces the risk of accidental operation
- Versatile – can accommodate various rivet lengths and joint thickness through the adjustment of air pressure (reducing setting times and eliminating the need to use set length spacer shims with the rivet sets)



CP0351 – C Yoke

- Single and Tandem cylinder options
- Riveting Capacity –
 - ø 4.8mm (3/16") (single cylinder)
 - ø 6.4mm (1/4") (tandem cylinder)
- Actuation throttle guard – reduces the risk of accidental operation
- Short stroke adjustment – aids positioning of the tool (limits the return travel of the moving set of the tool on the rivet to reduce the starting clearance between rivet and rivet sets)



CP0214 – Alligator Jaw

- Single and Tandem cylinder options
- Riveting Capacity –
 - ø 3.2mm (1/8") (single cylinder)
 - ø 4.8mm (3/16") (tandem cylinder)
- Lock-off throttle – reduces the risk of accidental operation



CP0351 – Alligator Jaw

- Single and Tandem cylinder options
- Riveting Capacity –
 - ø 4.0mm (5/32") (single cylinder)
 - ø 6.4mm (1/4") (tandem cylinder)
- Actuation throttle guard – reduces the risk of accidental operation
- Short stroke adjustment – aids positioning of the tool (limits the return travel of the moving set of the tool on the rivet to reduce the starting clearance between rivet and rivet sets)

Selection Criteria

• Type of Rivet

Rivet material
Rivet body diameter
Rivet length before and after compression
Force required to compress rivet (if known)

• What material is the rivet made from?

• What size is the rivet?

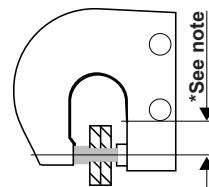
• What is the form of the rivet head?

• Components to assemble

Access to rivet on assembly

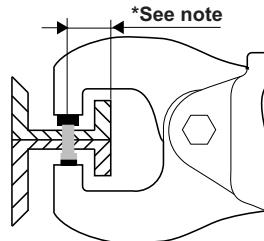
• Open access (up to 54mm (2 1/8") reach)

– 'C' Yoke tool



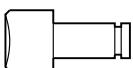
• Restricted access (up to 232mm (9 1/8") reach)

– 'Alligator' Jaw tool



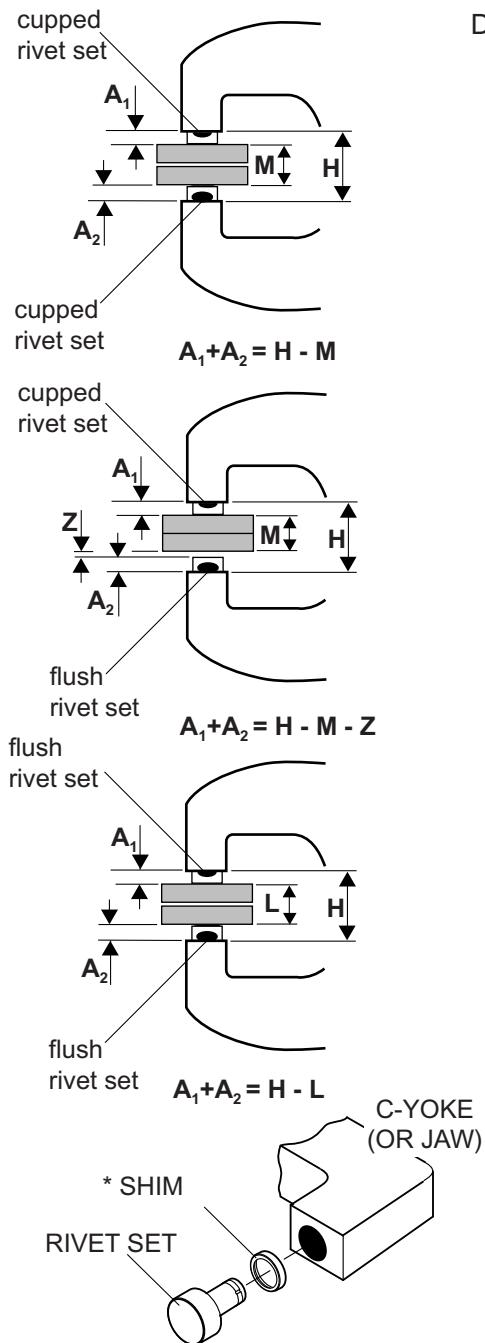
• Note: the amount of reach required is determined by the distance from the rivet centerline to the accessible edge of the workpiece

Compression Tools – Riveting – Selection



Compression Rivet Sets

(Complete with retaining rings)
Minimum Order: 6 of any part number.
Note: The illustration above shows one rivet set. Two rivet sets are required to be used per tool. Part numbers are for one rivet set only.



SELECTING RIVET SETS TO FIT CP0214, CP0341 and CP0351 RIVETERS

To develop maximum power, the riveter must drive (set) the rivet at the end of the riveter's stroke (with the exception of the CP0341 which develops max power throughout its full stroke).

For maximum power the combined length of the two rivet sets must be of the correct length.

Determine the correct lengths as follows:

1) When two cupped rivet sets are used:

The length of the body dimensions of the rivet sets (A_1, A_2) should equal the closed height dimension of the yoke (H) minus the total thickness of material being riveted together.

2) When one cupped set and one flush set are used:

The length of the body dimensions of the two rivet sets (A_1, A_2) should equal the closed height dimension of the yoke (H) minus the total thickness of the material being riveted (M) and the height of the finished rivet head (Z) compressed by the flush set (A).

3) When two flush sets are used:

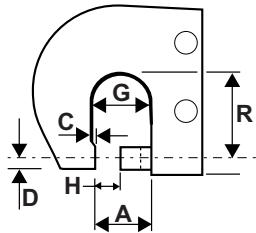
The length of the body dimensions of the two rivet sets (A_1, A_2) should equal the closed height dimension of the yoke (H) minus the overall length of the rivet (L) after it is compressed.

If necessary, select rivet sets a little short and shim to the correct length using spacer shims.

* Set Length Spacer Shims

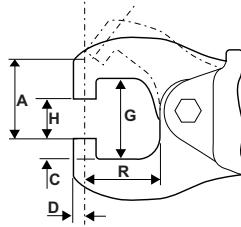
| TYPE RIVET SET SHANK | PART NUMBERS OF HARDENED SHIMS | | |
|-------------------------|--|---------|---------|
| | 0.4mm thick (1/64") 0.8mm thick (1/32") 1.6mm thick (1/16") | | |
| CR-1 | P083254 | P083255 | P083256 |
| CR-2 | P083257 | P083258 | |

Compression Tools – Technical Data



Jaw and Yoke Terminology:
(rivet sets are not in place in this illustration)

- A** Throat gap
- C** Anvil work clearance
- D** Lower offset
- G** Total yoke gap
- H** Closed height
- R** Reach



| C Yoke Model | A mm | A in. | C mm | C in. | D mm | D in. | G mm | G in. | H mm | H in. | R mm | R in. |
|--------------|------|---------|------|-------|------|-------|------|--------|------|---------|------|-------|
| CP0214CEDEL | 32 | 1 1/4 | — | — | 5 | 3/16 | 32 | 1 1/4 | 17.5 | 1 11/16 | 38 | 1 1/2 |
| CP0214FADEL | 32 | 1 1/4 | — | — | 5 | 3/16 | 32 | 1 1/4 | 17.5 | 1 11/16 | 38 | 1 1/2 |
| CP0214SETEL | 32 | 1 1/4 | — | — | 6.4 | 1/4 | 32 | 1 1/4 | 17.5 | 1 11/16 | 38 | 1 1/2 |
| CP0214KETEL | 32 | 1 1/4 | — | — | 6.4 | 1/4 | 32 | 1 1/4 | 17.5 | 1 11/16 | 38 | 1 1/2 |
| CP0351CUDEL | 39 | 1 17/32 | — | — | 5.5 | 7/32 | 29 | 1 5/32 | 20 | 2 25/32 | 54 | 2 1/8 |
| CP0351FUDEL | 39 | 1 17/32 | — | — | 5.5 | 7/32 | 29 | 1 5/32 | 20 | 2 25/32 | 54 | 2 1/8 |
| CP0341CUDEL | 57 | 2 1/4 | 3 | 1/8 | 9 | 11/32 | 70 | 2 3/4 | 25 | 1 | 54 | 2 1/8 |

| Alligator Jaw Model | A mm | A in. | C mm | C in. | D mm | D in. | G mm | G in. | H mm | H in. | R mm | R in. |
|---------------------|------|--------|------|-------|------|-------|------|--------|------|-------|------|-------|
| CP0214ANGEL | 54 | 2 1/8 | — | — | 5.5 | 7/32 | 54 | 2 1/8 | 22 | 7/8 | 76 | 3 |
| CP0214ENGEL | 54 | 2 1/8 | — | — | 5.5 | 7/32 | 54 | 2 1/8 | 22 | 7/8 | 76 | 3 |
| CP0214ANFEL | 48 | 1 7/8 | — | — | 5.5 | 7/32 | 54 | 2 1/8 | 22 | 7/8 | 57 | 2 1/4 |
| CP0214ENFEL | 48 | 1 7/8 | — | — | 5.5 | 7/32 | 54 | 2 1/8 | 22 | 7/8 | 57 | 2 1/4 |
| CP0214ANBEL | 38 | 1 1/2 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 38 | 1 1/2 |
| CP0214ENBEL | 38 | 1 1/2 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 38 | 1 1/2 |
| CP0351ASVEL | 62 | 2 7/16 | — | — | 5.5 | 7/32 | 56 | 2 3/16 | 19 | 3/4 | 232 | 9 1/8 |
| CP0351ESVEL | 62 | 2 7/16 | — | — | 5.5 | 7/32 | 56 | 2 3/16 | 19 | 3/4 | 232 | 9 1/8 |
| CP0351ESREL | 81 | 3 3/16 | — | — | 5.5 | 7/32 | 51 | 2 | 38 | 1 1/2 | 178 | 7 |
| CP0351ASKEL | 57 | 2 1/4 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 127 | 5 |
| CP0351ESKEL | 57 | 2 1/4 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 127 | 5 |
| CP0351ASGEL | 38 | 1 1/2 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 73 | 2 1/8 |
| CP0351ESGEL | 38 | 1 1/2 | — | — | 5.5 | 7/32 | 41 | 1 5/8 | 22 | 7/8 | 73 | 2 1/8 |

Air inlet: 1/4" NPTF

| MODEL | CYLINDER TYPE | RIVET SET TYPE | LENGTH | | WEIGHT | | SOUND LEVEL | SOUND POWER |
|--------------|---------------|----------------------|--------|----------|--------|---------|-------------|-------------|
| | | | mm | in. | kg | lb | | |
| CP0214ANBEL | Single | CR-1 (ø 4.8mm 3/16") | 233 | 9 3/16 | 1.7 | 3 3/4 | 90 | 101 |
| CP0214ANFEL | Single | CR-1 (ø 4.8mm 3/16") | 254 | 10 | 1.9 | 4 1/4 | 90 | 101 |
| CP0214ANGEL | Single | CR-1 (ø 4.8mm 3/16") | 273 | 10 3/4 | 2.0 | 4 1/2 | 90 | 101 |
| CP0214CEDEL | Single | CR-1 (ø 4.8mm 3/16") | 262 | 10 5/16 | 2.0 | 4 1/2 | 90 | 101 |
| CP0214ENBEL | Tandem | CR-1 (ø 4.8mm 3/16") | 303 | 11 15/16 | 2.2 | 4 3/4 | 90 | 101 |
| CP0214ENFEL | Tandem | CR-1 (ø 4.8mm 3/16") | 324 | 12 3/4 | 2.4 | 5 1/4 | 90 | 101 |
| CP0214ENGEL | Tandem | CR-1 (ø 4.8mm 3/16") | 343 | 13 1/2 | 2.5 | 5 1/2 | 90 | 101 |
| CP0214FADEL | Tandem | CR-1 (ø 4.8mm 3/16") | 356 | 14 | 2.5 | 5 1/2 | 90 | 101 |
| CP0214KETEL | Tandem | CR-2 (ø 6.4mm 1/4") | 356 | 14 | 2.5 | 5 1/2 | 90 | 101 |
| CP0214SETEL | Single | CR-2 (ø 6.4mm 1/4") | 262 | 10 5/16 | 2.0 | 4 1/2 | 90 | 101 |
| CP0341CUDEL | Pneudraulic™ | CR-2 (ø 6.4mm 1/4") | 505 | 19 7/8 | 6.1 | 13 1/2 | 85 | — |
| CP0351ASGEL | Single | CR-1 (ø 4.8mm 3/16") | 495 | 19 1/2 | 7.1 | 15 3/4 | 96 | 107 |
| CP0351ASKEL | Single | CR-1 (ø 4.8mm 3/16") | 549 | 21 5/8 | 9.0 | 19 3/4 | 96 | 107 |
| CP0351ASVEL | Single | CR-1 (ø 4.8mm 3/16") | 654 | 25 3/4 | 11.9 | 26 1/4 | 96 | 106 |
| CP0351ESGEL | Single | CR-1 (ø 4.8mm 3/16") | 445 | 17 1/2 | 5.7 | 12 1/2 | 96 | 107 |
| CP0351ESVEL | Tandem | CR-1 (ø 4.8mm 3/16") | 603 | 23 3/4 | 8.4 | 18 1/2 | 96 | 107 |
| CP0351ESREL | Tandem | CR-1 (ø 4.8mm 3/16") | 657 | 25 7/8 | 10.2 | 22 1/2 | 96 | 107 |
| CP0351ESFEL | Tandem | CR-1 (ø 4.8mm 3/16") | 708 | 27 7/8 | 12.2 | 27 | 96 | 107 |
| CP0351CUDEL | Single | CR-1 (ø 4.8mm 3/16") | 552 | 21 3/4 | 6.9 | 15 1/4 | 96 | 107 |
| CP0351PU | Single | n/a | 546 | 21 1/2 | 9.3 | 20 1/2 | 96 | 107 |
| CP0351CABHDY | Single | n/a | 445 | 17 1/2 | 9.2 | 20 5/16 | 96 | 107 |

Compression Tools – Riveting



A



B



C



E



D

For applications requiring the special 'Alligator Jaws or C-Yokes'



Alligator Jaws mounting versions

| PART NUMBER | MODEL | EQUIVALENT STANDARD MODEL |
|-------------|-------------|--------------------------------------|
| T019138 | CP0214ANPEL | CP0214ANBEL/ANFEL/ANGEL without jaws |
| T018997 | CP0214ENPEL | CP0214ENBEL/ENFEL/ENGEL without jaws |
| T025405 | CP0351ASNEL | CP0351ASKEL without jaws |

*CR1 **CR2

C Yoke mounting versions

| PART NUMBER | MODEL | EQUIVALENT STANDARD MODEL |
|-------------|-------------|---------------------------|
| T018677 | CP0214CENEL | CP0214CELEL without yoke |
| T018430 | CP0214FANEL | CP0214FALEL without yoke |
| T022493 | CP0341CUNEL | CP0341CUDEL without yoke |
| T007772 | CP0351CUNEL | CP0351CUDEL without yoke |

C-Yoke (single cylinder)

| | | | | | | | | | | | | | | | | |
|---|---------------|---------|-----|------|-----|------|------|-------|------|-------|-------|-------|------|------|-----|-------|
| A | CP0214CELEL* | T012344 | 3.2 | 1/8 | 2.4 | 3/32 | 38.1 | 1 1/2 | 17.5 | 11/16 | 13.35 | 3,000 | 14.3 | 9/16 | 1.3 | 0.050 |
| A | CP0214SETEL** | T023474 | 3.2 | 1/8 | 2.4 | 3/32 | 38.1 | 1 1/2 | 17.5 | 11/16 | 13.35 | 3,000 | 14.3 | 9/16 | 1.3 | 0.050 |
| B | CP0351CUDEL* | T008955 | 4.8 | 3/16 | 4.0 | 5/32 | 54.0 | 2 1/8 | 19.8 | 25/32 | 26.70 | 6,000 | 14.3 | 9/16 | 3.2 | 0.125 |

C-Yoke (tandem cylinder)

| | | | | | | | | | | | | | | | | |
|---|---------------|---------|-----|------|-----|------|------|-------|------|-------|-------|--------|------|------|-----|-------|
| A | CP0214FALEL* | T013152 | 4.8 | 3/16 | 4.0 | 5/32 | 38.1 | 1 1/2 | 17.5 | 11/16 | 26.70 | 6,000 | 14.3 | 9/16 | 1.6 | 0.063 |
| A | CP0214KETEL** | T023475 | 4.8 | 3/16 | 4.0 | 5/32 | 38.1 | 1 1/2 | 17.5 | 11/16 | 26.70 | 6,000 | 14.3 | 9/16 | 1.6 | 0.063 |
| B | CP0351FUDEL* | T012608 | 6.4 | 1/4 | 5.6 | 7/32 | 54.0 | 2 1/8 | 19.8 | 25/32 | 53.40 | 12,000 | 14.3 | 9/16 | 3.2 | 0.125 |

C-Yoke (pneudraulic™)

| | | | | | | | | | | | | | | | |
|---|---------------|---------|-----|------|-----|-----|------|-------|------|---|-------|--------|------|-------|-------------|
| D | CP0341CUDEL** | T022512 | 7.1 | 9/32 | 6.4 | 1/4 | 54.0 | 2 1/8 | 25.4 | 1 | 60.10 | 13,500 | 31.8 | 1 1/4 | Full stroke |
|---|---------------|---------|-----|------|-----|-----|------|-------|------|---|-------|--------|------|-------|-------------|

Alligator (single cylinder)

| | | | | | | | | | | | | | | | | |
|---|--------------|---------|-----|------|-----|------|-------|-------|------|-----|-------|-------|------|---------|-----|-------|
| C | CP0214ANBEL* | T012343 | 3.2 | 1/8 | 2.4 | 3/32 | 38.1 | 1 1/2 | 22.2 | 7/8 | 13.35 | 3,000 | 15.9 | 5/8 | 1.3 | 0.050 |
| C | CP0214ANFEL* | T018671 | 2.4 | 3/32 | 2.4 | 3/32 | 57.1 | 2 1/4 | 22.2 | 7/8 | 9.79 | 2,200 | 22.2 | 7/8 | 2.4 | 0.094 |
| C | CP0214ANGEL* | T018672 | 2.4 | 3/32 | 1.6 | 1/16 | 76.2 | 3 | 22.2 | 7/8 | 8.01 | 1,800 | 31.8 | 1 1/4 | 1.4 | 0.056 |
| E | CP0351ASGEL* | T007783 | 4.0 | 5/32 | 3.2 | 1/8 | 73.0 | 2 7/8 | 22.2 | 7/8 | 23.14 | 5,200 | 15.9 | 5/8 | 3.2 | 0.125 |
| E | CP0351ASKEL* | T007773 | 3.2 | 1/8 | 2.4 | 3/32 | 127.0 | 5 | 22.2 | 7/8 | 15.13 | 3,400 | 34.0 | 1 3/8 | 4.8 | 0.188 |
| E | CP0351ASVEL* | T009582 | 3.2 | 1/8 | 2.4 | 3/32 | 232.0 | 9 1/8 | 19.1 | 3/4 | 13.35 | 3,000 | 42.9 | 11 1/16 | 1.6 | 0.063 |

Alligator (tandem cylinder)

| | | | | | | | | | | | | | | | | |
|---|--------------|---------|-----|------|-----|------|-------|-------|------|-------|-------|--------|------|---------|-----|-------|
| C | CP0214ENGEL* | T018164 | 3.2 | 1/8 | 2.4 | 3/32 | 76.2 | 3 | 22.2 | 7/8 | 15.13 | 3,400 | 31.8 | 1 1/4 | 2.6 | 0.104 |
| C | CP0214ENFEL* | T018163 | 4.0 | 5/32 | 3.2 | 1/8 | 57.1 | 2 1/4 | 22.2 | 7/8 | 19.14 | 4,300 | 22.2 | 7/8 | 2.4 | 0.094 |
| C | CP0214ENBEL* | T018678 | 4.8 | 3/16 | 4.0 | 5/32 | 38.1 | 1 1/2 | 22.2 | 7/8 | 26.70 | 6,000 | 15.9 | 5/8 | 1.6 | 0.06 |
| E | CP0351ESGEL* | T012603 | 4.8 | 3/16 | 4.0 | 5/32 | 127.0 | 5 | 22.2 | 7/8 | 30.26 | 6,800 | 34.0 | 1 3/8 | 4.8 | 0.188 |
| E | CP0351ESREL* | T012604 | 4.8 | 3/16 | 4.0 | 5/32 | 178.0 | 7 | 38.1 | 1 1/2 | 26.70 | 6,000 | 42.9 | 11 1/16 | 4.8 | 0.188 |
| E | CP0351ESVEL* | T012605 | 4.8 | 3/16 | 4.0 | 5/32 | 232.0 | 9 1/8 | 19.1 | 3/4 | 26.70 | 6,000 | 42.9 | 11 1/16 | 1.6 | 0.063 |
| E | CP0351ESGEL* | T012602 | 6.4 | 1/4 | 4.8 | 3/16 | 73.0 | 2 7/8 | 22.2 | 7/8 | 46.28 | 10,400 | 15.9 | 5/8 | 3.2 | 0.125 |

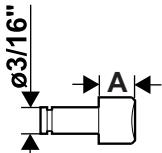
Compression Tools – Riveting - Rivet Sets

| RIVET DIAMETER | 'A' BODY LENGTH | AN-435 BUTTON | AN-430 ROUND | AN-455 BRAZIER | AN-456 MODIFIED BRAZIER | AN-470 UNIVERSAL | AN-442 FLAT |
|----------------|-----------------|---------------|--------------|----------------|-------------------------|------------------|-------------|
| mm | in. | mm | in. | part no. | part no. | part no. | part no. |

CR-1 SHANK RIVET SETS FOR CP0214 and CP0351 – CUPPED SETS

(C-Yoke tools – CP0214 CELEL, FALEL, CUDEL, FUDEL + all Alligator Yoke tools)

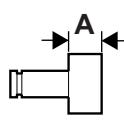
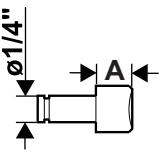
| | | | | | | | | | |
|-----|-------|------|------|---------|---------|---------|---------|---------|---------|
| 2.4 | 3/32" | 6.4 | 1/4" | P091601 | P089370 | P089390 | P089410 | P089430 | P091621 |
| 2.4 | 3/32" | 9.5 | 3/8" | P091602 | P089371 | P089391 | P089411 | P089431 | P091622 |
| 2.4 | 3/32" | 12.7 | 1/2" | – | – | – | P089412 | P089432 | P091623 |
| 3.2 | 1/8" | 6.4 | 1/4" | P091606 | P089375 | P089395 | P053826 | P089435 | P091626 |
| 3.2 | 1/8" | 9.5 | 3/8" | P091607 | P089376 | – | P053827 | P089436 | P091627 |
| 3.2 | 1/8" | 12.7 | 1/2" | P091608 | P089377 | P089397 | – | P089437 | P091628 |
| 4.0 | 5/32" | 6.4 | 1/4" | P091611 | P089380 | P089400 | P053831 | P089440 | P091631 |
| 4.0 | 5/32" | 9.5 | 3/8" | P091612 | P089381 | P089401 | P053832 | P089441 | P091632 |
| 4.0 | 5/32" | 12.7 | 1/2" | P091613 | P089382 | P089402 | P053833 | P089442 | P091633 |
| 4.8 | 3/16" | 6.4 | 1/4" | P091616 | P089385 | P089405 | P053836 | P089445 | P091636 |
| 4.8 | 3/16" | 9.5 | 3/8" | P091617 | P089386 | P089406 | P053837 | P089446 | P091637 |
| 4.8 | 3/16" | 12.7 | 1/2" | P091618 | P089387 | P089407 | P053838 | P089447 | P091638 |



CR-2 SHANK RIVET SETS FOR CP0214 and CP0341 – CUPPED SETS

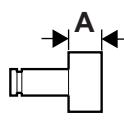
(C-Yoke tools – CP0214 SETEL, KETEL + CP0341 CUDEL)

| | | | | | | | | | |
|-----|-------|------|------|---------|---------|---------|---|---------|---------|
| 3.2 | 1/8" | 6.4 | 1/4" | – | – | – | – | P089510 | P091661 |
| 3.2 | 1/8" | 9.5 | 3/8" | P091642 | – | – | – | P089511 | – |
| 3.2 | 1/8" | 12.7 | 1/2" | – | – | – | – | P089512 | P091663 |
| 4.0 | 5/32" | 6.4 | 1/4" | – | P089455 | – | – | P089515 | – |
| 4.0 | 5/32" | 9.5 | 3/8" | – | – | – | – | P089516 | P091667 |
| 4.0 | 5/32" | 12.7 | 1/2" | P091648 | – | – | – | P089517 | P091668 |
| 4.8 | 3/16" | 6.4 | 1/4" | – | P089460 | P089480 | – | P089520 | P091671 |
| 4.8 | 3/16" | 9.5 | 3/8" | – | P089461 | P089481 | – | P089521 | P491672 |
| 4.8 | 3/16" | 12.7 | 1/2" | P091653 | – | P089482 | – | P089522 | P091673 |
| 6.4 | 1/4" | 6.4 | 1/4" | – | P089465 | P089485 | – | P089525 | P091676 |
| 6.4 | 1/4" | 9.5 | 3/8" | – | P089466 | P089486 | – | P089526 | – |
| 6.4 | 1/4" | 12.7 | 1/2" | – | P089467 | – | – | P089527 | P091678 |



FLUSH SETS for any rivet size

| | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|
| CR-1 (Ø 4.8mm 3/16") | P089495 | P089496 | P089497 | P089498 | P089499 | P089500 |
| CR-2 (Ø 6.4mm 1/4") | – | P089501 | P089502 | P089503 | P089504 | P089505 |



SOFT SET BLANKS

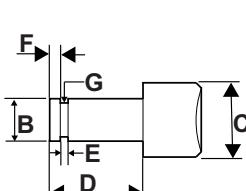
| | | | | | |
|----------------------|------|------|------|------|---------|
| CR-1 (Ø 4.8mm 3/16") | 19.1 | 3/4" | 15.9 | 5/8" | P093672 |
| CR-2 (Ø 6.4mm 1/4") | 19.1 | 3/4" | 19.1 | 3/4" | P093673 |

SET LENGTH SPACER SHIMS

| TYPE RIVET SET SHANK | 'A' LENGTH | | | BODY DIAMETER | PART NUMBER | |
|----------------------|------------|---------|---------|---------------|-------------|--|
| | mm | in. | | mm | in. | |
| CR-1 | P083254 | P083255 | P083256 | | | |
| CR-2 | P083257 | P083258 | | | | |

RIVET SET RETAINER RING

| TYPE RIVET SET SHANK | PART NUMBER |
|----------------------|-------------|
| CR-1 | P071916 |
| CR-2 | P071917 |



* 'C' dimension is for flush set only. 'C' varies on cupped sets according to rivet size and type of head.

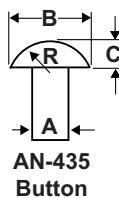
| TYPE OF RIVET SET SHANK | B | C* | D | E | F | G |
|-------------------------|----|-----|----|-----|----|-----|
| | mm | in. | mm | in. | mm | in. |

SHANK DIMENSIONS FOR RIVET SETS

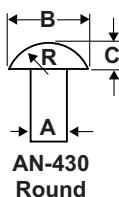
For CP0214, CP0351 and CP0341 Compression Riveters

| | | | | | | | | | | | | |
|----------------------|-----------|-------------|------|-----|------|-----|-----------|-------------|-----|------|-----------|-------------|
| CR-1 (Ø 4.8mm 3/16") | 4.75-4.72 | 0.187-0.186 | 12.7 | 1/2 | 12.7 | 1/2 | 3.45-3.38 | 0.136-0.133 | 1.6 | 1/16 | 3.23-3.12 | 0.127-0.123 |
| CR-2 (Ø 6.4mm 1/4") | 6.42-6.40 | 0.249-0.248 | 15.9 | 5/8 | 15.9 | 5/8 | 3.45-3.38 | 0.136-0.133 | 2.4 | 3/32 | 4.80-4.70 | 0.189-0.185 |

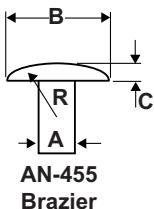
Compression Tools – Rivet Sizes (Reference)



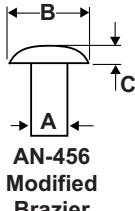
| A | | B | | C | | R | |
|-----------------------------|-------|-------|-------|------|-------|------|-------|
| mm | in. | mm | in. | mm | in. | mm | in. |
| AN-435 A.S.A. BUTTON | | | | | | | |
| 2.4 | 3/32" | 4.22 | 0.166 | 1.78 | 0.070 | 2.13 | 0.084 |
| 3.2 | 1/8" | 5.56 | 0.219 | 2.39 | 0.094 | 2.82 | 0.111 |
| 4.0 | 5/32" | 6.93 | 0.273 | 4.32 | 0.117 | 3.51 | 0.138 |
| 4.8 | 3/16" | 8.33 | 0.328 | 3.58 | 0.141 | 4.22 | 0.166 |
| 6.4 | 1/4" | 11.10 | 0.437 | 4.78 | 0.188 | 5.61 | 0.221 |
| 7.9 | 5/16" | 13.87 | 0.546 | 5.94 | 0.234 | 7.01 | 0.276 |



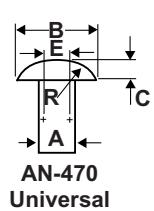
| A | | B | | C | | R | |
|---------------------|-------|-------|-------|------|-------|------|-------|
| mm | in. | mm | in. | mm | in. | mm | in. |
| AN-430 ROUND | | | | | | | |
| 2.4 | 3/32" | 4.75 | 0.187 | 1.78 | 0.070 | 2.49 | 0.098 |
| 3.2 | 1/8" | 6.45 | 0.250 | 2.39 | 0.094 | 3.30 | 0.130 |
| 4.0 | 5/32" | 7.92 | 0.312 | 2.97 | 0.117 | 4.11 | 0.162 |
| 4.8 | 3/16" | 9.53 | 0.375 | 3.58 | 0.141 | 4.95 | 0.195 |
| 6.4 | 1/4" | 12.70 | 0.500 | 4.78 | 0.188 | 6.60 | 0.260 |
| 7.9 | 5/16" | 16.46 | 0.648 | 5.94 | 0.234 | 8.26 | 0.325 |



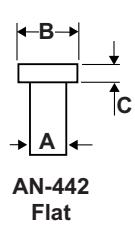
| A | | B | | C | | R | |
|-----------------------|-------|-------|-------|------|-------|-------|-------|
| mm | in. | mm | in. | mm | in. | mm | in. |
| AN-455 BRAZIER | | | | | | | |
| 2.4 | 3/32" | 5.94 | 0.234 | 1.19 | 0.047 | 4.32 | 0.170 |
| 3.2 | 1/8" | 7.92 | 0.312 | 1.60 | 0.063 | 5.74 | 0.226 |
| 4.0 | 5/32" | 9.90 | 0.390 | 1.98 | 0.078 | 7.19 | 0.283 |
| 4.8 | 3/16" | 11.89 | 0.468 | 2.39 | 0.094 | 8.64 | 0.340 |
| 6.4 | 1/4" | 15.83 | 0.625 | 3.18 | 0.125 | 11.51 | 0.453 |
| 7.9 | 5/16" | 19.84 | 0.781 | 3.96 | 0.156 | 14.35 | 0.565 |



| A | | B | | C | |
|--------------------------------|-------|-------|-------|------|-------|
| mm | in. | mm | in. | mm | in. |
| AN-456 MODIFIED BRAZIER | | | | | |
| 2.4 | 3/32" | 3.96 | 0.156 | 0.79 | 0.031 |
| 3.2 | 1/8" | 5.97 | 0.235 | 1.19 | 0.047 |
| 4.0 | 5/32" | 7.92 | 0.312 | 1.60 | 0.063 |
| 4.8 | 3/16" | 9.91 | 0.390 | 1.98 | 0.078 |
| 6.4 | 1/4" | 11.89 | 0.468 | 2.39 | 0.094 |
| 7.9 | 5/16" | 15.88 | 0.625 | 3.18 | 0.125 |



| A | | B | | C | | R | | E | |
|-------------------------|-------|-------|-------|------|-------|------|-------|------|-------|
| mm | in. | mm | in. | mm | in. | mm | in. | mm | in. |
| AN-470 UNIVERSAL | | | | | | | | | |
| 2.4 | 3/32" | 4.75 | 0.187 | 1.04 | 0.041 | 2.08 | 0.082 | 1.19 | 0.047 |
| 3.2 | 1/8" | 6.45 | 0.250 | 1.37 | 0.054 | 2.74 | 0.108 | 1.60 | 0.063 |
| 4.0 | 5/32" | 7.92 | 0.312 | 1.70 | 0.067 | 3.43 | 0.135 | 1.98 | 0.078 |
| 4.8 | 3/16" | 9.53 | 0.375 | 2.08 | 0.082 | 4.17 | 0.164 | 2.39 | 0.094 |
| 6.4 | 1/4" | 12.70 | 0.500 | 2.72 | 0.107 | 5.51 | 0.217 | 3.18 | 0.125 |
| 7.9 | 5/16" | 16.46 | 0.648 | 3.45 | 0.136 | 6.91 | 0.272 | 3.96 | 0.156 |



| A | | B | | C | |
|--------------------|-------|-------|-------|------|-------|
| mm | in. | mm | in. | mm | in. |
| AN-422 FLAT | | | | | |
| 2.4 | 3/32" | 4.75 | 0.187 | 0.94 | 0.037 |
| 3.2 | 1/8" | 6.45 | 0.250 | 1.27 | 0.050 |
| 4.0 | 5/32" | 7.92 | 0.312 | 1.57 | 0.062 |
| 4.8 | 3/16" | 9.53 | 0.375 | 1.91 | 0.075 |
| 6.4 | 1/4" | 12.70 | 0.500 | 2.54 | 0.100 |
| 7.9 | 5/16" | 16.46 | 0.648 | 3.18 | 0.125 |

Compression Tools – Sheet Metal Punch



CP0351-PU

- Punching Capacity:
ø 4.8mm (3/16") in aluminum
through 4.8mm (3/16") material thickness
- Actuation throttle guard:
reduces the risk of accidental operation
- Use for a wide range of punching operations where it is preferable to take the tool to the job.
e.g. large structures such as truck trailers

Capacity:

Maximum hole is ø 13mm (1/2") relative to material and thickness.

Within maximum force of 24.0 kN – 5,400 lbs, material thickness should not exceed hole diameter.

To determine force required use formula: $F = 3.14 \times D \times T \times S$

where 'F' is force (lbs); 'D' is hole diameter (in.); 'T' is thickness of material (in.); 'S' is tensile strength of material (psi) or 'F' is force (kN); 'D' is hole diameter (mm); 'T' is thickness of material (mm); 'S' is tensile strength of material (N/mm²).

Accessories supplied with tool

| HOLE SIZE IN ALUMINUM | PUNCH | DIE | COLLAR |
|--------------------------|---------|---------|---------|
| ø 4.8mm (3/16") | P041307 | P043009 | P041309 |
| ø 5.2mm (13/64") | P112836 | P112837 | P112838 |

| MODEL | PART NUMBER | MAX. MATERIAL THICKNESS ALUM. | | HOLE DIAMETER | | MAX. DISTANCE EDGE OF SHEET TO HOLE CENTRELINE | | MAX. PUNCHING FORCE (90 psi/6.2 bar) | | WORK CLEARANCE PUNCH RETRACTED | |
|----------|---------------|-------------------------------|------|---------------|-------|--|-------|--------------------------------------|------|--------------------------------|-----|
| | | mm | in. | mm | in. | mm | in. | kN | lb | mm | in. |
| CP0351PU | T013417 | 4.8 | 3/16 | 4.8 | 3/16 | 47.6 | 1 7/8 | 24.0 | 5400 | 12.7 | 1/2 |
| CP0351PU | 205 146 721 4 | 4.8 | 3/16 | 5.2 | 13/64 | 47.6 | 1 7/8 | 24.0 | 5400 | 12.7 | 1/2 |

Compression Tools – Edge Former



CP0351-CABH-DY

- Forming Capacity (max material thickness) – Ø 6.4mm (1/4")
- Rotary Suspension Bail fitted – eases handling and orientation of tool
- Use for a wide range of flattening of spot welded flanges and removing bends
- Custom yokes and dies can be used for crimping and staking operations
- Automatic cycling frequency is adjustable from 1 cycle per throttle actuation to up to 200 cycles per minute whilst the throttle actuation is maintained.

Accessories supplied with tool

| PART NUMBER | |
|--------------------------------|---------|
| • Yoke | P059557 |
| • Die | P059556 |
| • Ball bearing Suspension Bail | P102451 |

| MODEL | PART NUMBER | MAX. MATERIAL THICKNESS ALUM. | | MAX. CYCLES PER MINUTE | REACH | | MAX. COMPRESSIVE FORCE (90 psi/6.2 bar) | |
|----------------|-------------|-------------------------------|-----|------------------------|-------|------|---|------|
| | | mm | in. | | mm | in. | kN | lb |
| CP0351-CABH-DY | T020475 | 6.4 | 1/4 | 200 | 14.4 | 9/16 | 26.7 | 6000 |



Drills, Tappers, Rack Feed Drills

Pistol Grip, Straight Grip, Angle Drills - Multi Drills

High power - Durable - long life - High precision - Ergonomic

Typical construction (illustration shows DR750)



Pistol Grips Drills

Ideal for all general industrial drilling tasks. Best ergonomic shape, single and double handed use



Straight Drills

Mainly smaller diameter drilling.
Suitable for production line repetitive operations



Angle Drills

Ideal for restricted access applications



Right Drill Selection

High power - Durable: long life - High precision - Ergonomic



Choosing the right Drill

Pistol Grip Drills

- Ideal for all general industrial drilling tasks
- Drilling capacity up to 13mm (1/2") Ø steel
- Best ergonomic shape - single and double handed use
- Use of side handle recommended for larger drills with high torque reaction



Straight Drills

- Mainly smaller diameter drilling less than 10mm (3/8") Ø Steel
- Favoured for vertical drilling
- Suitable for production line repetitive operations



Angle Drills

- Most commonly used in aerospace
- Ideal for restricted access applications
- Drill capacity up to 8mm (5/16") Ø steel

Choosing the right Chuck

Key Adjustable Chuck

- Ideal for all general industrial drilling tasks
- High precision keyed chucks

Keyless Chucks

- Quick change (hand operated) chuck

Collet Chuck / Spindle

- Generally high speed drilling
- High precision
- Most commonly used in aerospace

Screw Shank

- Female threaded output
- Use with threaded shank drills
- Most commonly used in aerospace

How to select your tool:

① Select material ② Select hole size ③ Define speed

| TOOL TYPE | FREE SPEED | TITANIUM | STAINLESS STEEL | HARD CAST IRON, MEDIUM HARD STEEL | SOFT CAST IRON, MILD STEEL | HARD PLASTICS | ALUMINIUM, BRASS, COPPER, BRONZE ① | COMPOSITE | WOOD, SOFT PLASTICS, CHIPBOARD | |
|---|------------|-------------|-----------------|-----------------------------------|----------------------------|---------------|------------------------------------|---------------|--------------------------------|--------------|
| | rpm | | | 9-15m/min | 10-20m/min | 20-35m/min | 30-40m/min | 50-80m/min | 50-100m/min | 80-120m/min |
| Drill Ø mm (in.) | | | | | | | | | | |
| PISTOL GRIP | | | | | | | | | | |
| DR350 Ø8-10mm (5/16" - 3/8") cap. | 20000 | | | | | | | 4.0 (5/32") | 2.0 (5/64") | |
| | 5500 | | | | | | 4.0 (5/32") | 5.0 (3/16") | 6.0 (1/4") | |
| | 4500 | | | | | 3.0 (1/8") | 6.0 (1/4") | | 8.0 (5/16") | |
| | 3000 ③ | | | | 4.0 (5/32") | 5.0 (3/16") | 8.0 (5/16") | ② | | |
| | 2000 | 3.0 (1/8") | 4.0 (5/32") | 6.0 (1/4") | 8.0 (5/16") | 10.0 (13/32") | | | | |
| | 1000 | 4.0 (5/32") | 6.0 (1/4") | 8.0 (5/16") | | | | | | |
| | 550 | 6.0 (1/4") | 8.0 (5/16") | | | | | | | |
| DR500 Ø8-13mm (5/16" - 1/2") cap. | 18500 | | | | | | | 4.0 (5/32") | 2.0 (5/64") | |
| | 5800 | | | | | | 4.0 (5/32") | 5.0 (3/16") | 6.0 (1/4") | |
| | 4300 | | | | | 3.0 (1/8") | 6.0 (1/4") | 10.0 (13/32") | 12.0 (1/2") | |
| | 2700 | 3.0 (1/8") | 4.0 (5/32") | 5.0 (3/16") | 8.0 (5/16") | 12.0 (1/2") | | | | |
| | 1800 | 3.0 (1/8") | 4.0 (5/32") | 6.0 (1/4") | 8.0 (5/16") | 10.0 (13/32") | | | | |
| | 1400 | 4.0 (5/32") | 5.0 (3/16") | 9.0 (11/32") | 11.0 (7/16") | | | | | |
| | 1000 | 5.0 (3/16") | 6.0 (1/4") | 10.0 (13/32") | | | | | | |
| | 600 | 3.0 (1/8") | 7.0 (9/32") | 8.0 (5/16") | 12.0 (1/3") | | | | | |
| | 400 | 6.0 (1/4") | 8.0 (5/16") | 10.0 (13/32") | | | | | | |
| DR750 Ø8-13mm (5/16" - 1/2") cap. | 20000 | | | | | | 2.0 (5/64") | 2.0 (5/64") | | |
| | 6000 | | | | | | 4.0 (5/32") | 5.0 (3/16") | 6.0 (1/4") | |
| | 4100 | | | | | 3.0 (1/8") | 6.0 (1/4") | 8.0 (5/16") | 10.0 (13/32") | |
| | 3300 | | | | | 3.0 (1/8") | 4.0 (5/32") | 8.0 (5/16") | 10.0 (13/32") | 12.0* (1/2") |
| | 2700 | 3.0 (1/8") | 4.0 (5/32") | 5.0 (3/16") | 10.0 (13/32") | 13.0* (1/2") | 15.0* (19/32") | | | |
| | 1300 | 4.0 (5/32") | 5.0 (3/16") | 9.0 (11/32") | 11.0* (7/16") | 19.0* (3/4") | 30.0* (13/16") | | | |
| | 750 | 3.0 (1/8") | 7.0 (9/32") | 8.0 (5/16") | 15.0* (19/32") | 19.0* (3/4") | 30.0* (13/16") | | | |
| | 400 | 6.0 (1/4") | 8.0 (5/16") | 10.0 (13/32") | | | | | | |
| STRAIGHT CASE | | | | | | | | | | |
| DR300-T... Ø8-10mm (5/16" - 3/8") cap. | 20000 | | | | | | 4.0 (5/32") | 2.0 (5/64") | | |
| | 5500 | | | | | | 4.0 (5/32") | 5.0 (3/16") | 6.0 (1/4") | |
| | 4500 | | | | | 3.0 (1/8") | 6.0 (1/4") | | 8.0 (5/16") | |
| | 3000 | | | | | 4.0 (5/32") | 5.0 (3/16") | 8.0 (5/16") | | |
| | 2000 | 3.0 (1/8") | 4.0 (5/32") | 6.0 (1/4") | 8.0 (5/16") | | | | | |
| | 1000 | 3.0 (1/8") | 4.0 (5/32") | 6.0 (1/4") | 8.0 (5/16") | | | | | |
| | 550 | 6.0 (1/4") | 8.0 (5/16") | | | | | | | |

* above standard chuck capacity

Pistol Grip Drills

0.35 kW (0.5 hp) - 550 to 20000 rpm



Accessories: see page 266-268



| Chuck Designation | A mm | A in. | Ø35mm (1.38") | *120mm (4.72") | **136mm (5.35") | A | Ø34mm (1.34") | 154mm (6.06") | A | Ø34mm (1.34") |
|---|---------|----------|------------------|----------------|-----------------|---|------------------|---------------|---|------------------|
| C10 | 52 | 2.05 | | | | | | | | |
| C8 | 43 | 1.69 | | | | | | | | |
| K8 | 60 | 2.36 | | | | | | | | |
| * : 20000 rpm ** : 5500 rpm ** : 4500 rpm ** : 3000 rpm ** : 2000 rpm | | | | | | | | | | |
| 1000 rpm 550 rpm | | | | | | | | | | |

| PIC REF | MODEL | PART NUMBER | FREE SPEED | CHUCK SIZE | MOTOR POWER | STALL TORQUE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | | |
|---------|-------|-------------|------------|------------|-------------|--------------|--------|----------|-----------|-------------|-----|-----|-----|----|-----|
| | | | rpm | mm | in. | kW | hp | Nm | lb | kg | l/s | cfm | in. | mm | in. |

TRIGGER START – KEY CHUCK MODELS

| | | | | | | | | | | | | | | | | |
|---|-----------------|---------------|-------|----|------|------|-----|------|-------|------|------|-----|----|-----|---|-----|
| A | DR350-P20000-C8 | 205 147 252 4 | 20000 | 8 | 5/16 | 0.35 | 0.5 | 0.6 | 5.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR350-P5500-C8 | 205 147 250 4 | 5500 | 8 | 5/16 | 0.35 | 0.5 | 2.3 | 20.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR350-P4500-C8 | 205 147 382 4 | 4500 | 8 | 5/16 | 0.35 | 0.5 | 2.7 | 23.9 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR350-P3000-C8 | 205 147 248 4 | 3000 | 8 | 5/16 | 0.35 | 0.5 | 4.0 | 35.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR350-P2000-C8 | 205 147 246 4 | 2000 | 8 | 5/16 | 0.35 | 0.5 | 5.4 | 47.8 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR350-P1000-C10 | 205 147 244 4 | 1000 | 10 | 3/8 | 0.35 | 0.5 | 12.7 | 112.4 | 0.79 | 1.74 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR350-P550-C10 | 205 147 242 4 | 550 | 10 | 3/8 | 0.35 | 0.5 | 18.6 | 164.6 | 0.79 | 1.74 | 9.5 | 20 | 1/4 | 6 | 1/4 |

TRIGGER START – KEYLESS CHUCK MODELS

| | | | | | | | | | | | | | | | | |
|---|----------------|---------------|------|---|------|------|-----|------|-------|------|------|-----|----|-----|---|-----|
| C | DR350-P5500-K8 | 205 147 251 4 | 5500 | 8 | 5/16 | 0.35 | 0.5 | 2.3 | 20.4 | 0.64 | 1.41 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR350-P4500-K8 | 205 147 383 4 | 4500 | 8 | 5/16 | 0.35 | 0.5 | 2.7 | 23.9 | 0.64 | 1.41 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR350-P3000-K8 | 205 147 249 4 | 3000 | 8 | 5/16 | 0.35 | 0.5 | 4.0 | 35.4 | 0.64 | 1.41 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR350-P2000-K8 | 205 147 247 4 | 2000 | 8 | 5/16 | 0.35 | 0.5 | 5.4 | 47.8 | 0.64 | 1.41 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR350-P1000-K8 | 205 147 245 4 | 1000 | 8 | 5/16 | 0.35 | 0.5 | 12.7 | 112.4 | 0.72 | 1.59 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR350-P550-K8 | 205 147 243 4 | 550 | 8 | 5/16 | 0.35 | 0.5 | 18.6 | 164.6 | 0.72 | 1.59 | 9.5 | 20 | 1/4 | 6 | 1/4 |

TRIGGER START – WITHOUT CHUCK MODELS

| | | | | | | | | | | | | | | | | |
|---|---------------|---------------|-------|--|--|------|-----|------|-------|------|-----|-----|----|-----|---|-----|
| E | DR350-P20000* | 205 147 359 4 | 20000 | | | 0.35 | 0.5 | 0.6 | 5.3 | 0.49 | 1.1 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR350-P5500* | 205 147 358 4 | 5500 | | | 0.35 | 0.5 | 2.3 | 20.4 | 0.49 | 1.1 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR350-P4500* | 205 147 384 4 | 4500 | | | 0.35 | 0.5 | 2.7 | 23.9 | 0.49 | 1.1 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR350-P3000* | 205 147 357 4 | 3000 | | | 0.35 | 0.5 | 4.0 | 35.4 | 0.49 | 1.1 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR350-P2000* | 205 147 356 4 | 2000 | | | 0.35 | 0.5 | 5.4 | 47.8 | 0.49 | 1.1 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| F | DR350-P1000* | 205 147 355 4 | 1000 | | | 0.35 | 0.5 | 12.7 | 112.4 | 0.57 | 1.3 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| F | DR350-P550* | 205 147 354 4 | 550 | | | 0.35 | 0.5 | 18.6 | 164.6 | 0.57 | 1.3 | 9.5 | 20 | 1/4 | 6 | 1/4 |

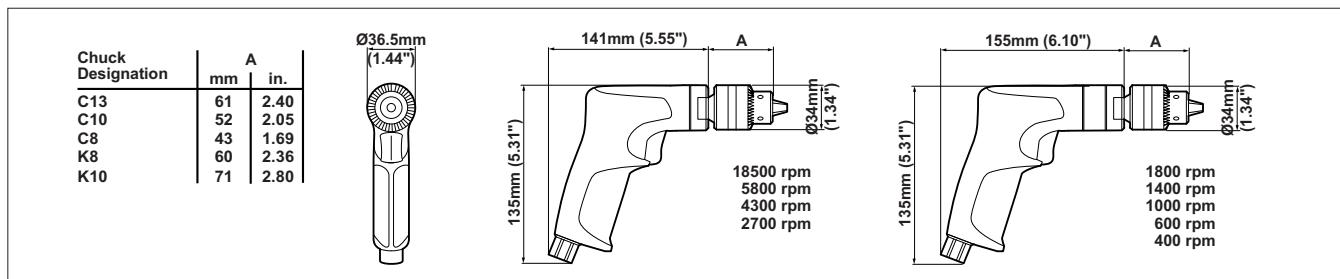
* Chuck spindle 3/8" x 24 UNF

Pistol Grip Drills

0.5 kW (0.68 hp) - 400 to 18500 rpm



Accessories: see page 266-268



| PIC REF | MODEL | PART NUMBER | FREE SPEED | CHUCK SIZE | MOTOR POWER | STALL TORQUE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø |
|---------|-------|-------------|------------|------------|-------------|--------------|--------|----------|-----------|-------------|
| | | | rpm | mm in. | kW hp | Nm | lb | kg lb | l/s cfm | in. mm in. |

TRIGGER START – KEY CHUCK MODELS

| | | | | | | | | | | | | | | |
|---|-----------------|---------------|-------|--------|----------|------|--------|------|-----|----|----|-----|----|-----|
| A | DR500-P18500-C8 | 205 147 676 4 | 18500 | 8 5/16 | 0.5 0.68 | 1.0 | 8.85 | 0.67 | 1.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR500-P5800-C8 | 205 147 673 4 | 5800 | 8 5/16 | 0.5 0.68 | 3.1 | 27.44 | 0.67 | 1.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR500-P4300-C8 | 205 147 670 4 | 4300 | 8 5/16 | 0.5 0.68 | 4.2 | 37.17 | 0.67 | 1.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR500-P2700-C8 | 205 147 667 4 | 2700 | 8 5/16 | 0.5 0.68 | 6.9 | 61.07 | 0.67 | 1.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR500-P1800-C10 | 205 147 664 4 | 1800 | 10 3/8 | 0.5 0.68 | 9.9 | 87.62 | 0.84 | 1.8 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR500-P1400-C10 | 205 147 661 4 | 1400 | 10 3/8 | 0.5 0.68 | 13.4 | 118.59 | 0.84 | 1.8 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR500-P1000-C10 | 205 147 658 4 | 1000 | 10 3/8 | 0.5 0.68 | 18.0 | 159.30 | 0.84 | 1.8 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR500-P600-C13 | 205 147 655 4 | 600 | 13 1/2 | 0.5 0.68 | 28.7 | 254.00 | 0.96 | 2.1 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR500-P400-C13 | 205 147 652 4 | 400 | 13 1/2 | 0.5 0.68 | 46.0 | 407.10 | 0.96 | 2.1 | 14 | 30 | 1/4 | 10 | 3/8 |

TRIGGER START – KEYLESS CHUCK MODELS

| | | | | | | | | | | | | | | |
|---|-----------------|---------------|------|--------|----------|------|--------|------|-----|----|----|-----|----|-----|
| C | DR500-P5800-K8 | 205 147 674 4 | 5800 | 8 5/16 | 0.5 0.68 | 3.1 | 27.44 | 0.85 | 1.9 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR500-P4300-K8 | 205 147 671 4 | 4300 | 8 5/16 | 0.5 0.68 | 4.2 | 37.17 | 0.85 | 1.9 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR500-P2700-K8 | 205 147 668 4 | 2700 | 8 5/16 | 0.5 0.68 | 6.9 | 61.07 | 0.85 | 1.9 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR500-P1800-K10 | 205 147 665 4 | 1800 | 10 3/8 | 0.5 0.68 | 9.9 | 87.62 | 1.00 | 2.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR500-P1400-K10 | 205 147 662 4 | 1400 | 10 3/8 | 0.5 0.68 | 13.4 | 118.59 | 1.00 | 2.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR500-P1000-K10 | 205 147 659 4 | 1000 | 10 3/8 | 0.5 0.68 | 18.0 | 159.30 | 1.00 | 2.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR500-P600-K10 | 205 147 656 4 | 600 | 10 3/8 | 0.5 0.68 | 28.7 | 254.00 | 1.00 | 2.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR500-P400-K10 | 205 147 653 4 | 400 | 10 3/8 | 0.5 0.68 | 46.0 | 407.10 | 1.00 | 2.2 | 14 | 30 | 1/4 | 10 | 3/8 |

TRIGGER START – WITHOUT CHUCK MODELS

| | | | | | | | | | | | | | | |
|---|---------------|---------------|-------|--|----------|------|--------|------|-----|----|----|-----|----|-----|
| E | DR500-P18500* | 205 147 678 4 | 18500 | | 0.5 0.68 | 1.0 | 8.85 | 0.56 | 1.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR500-P5800* | 205 147 675 4 | 5800 | | 0.5 0.68 | 3.1 | 27.44 | 0.56 | 1.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR500-P4300* | 205 147 672 4 | 4300 | | 0.5 0.68 | 4.2 | 37.17 | 0.56 | 1.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR500-P2700* | 205 147 669 4 | 2700 | | 0.5 0.68 | 6.9 | 61.07 | 0.56 | 1.2 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR500-P1800* | 205 147 666 4 | 1800 | | 0.5 0.68 | 9.9 | 87.62 | 0.64 | 1.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR500-P1400* | 205 147 663 4 | 1400 | | 0.5 0.68 | 13.4 | 118.59 | 0.64 | 1.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR500-P1000* | 205 147 660 4 | 1000 | | 0.5 0.68 | 18.0 | 159.30 | 0.64 | 1.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR500-P600* | 205 147 657 4 | 600 | | 0.5 0.68 | 28.7 | 254.00 | 0.64 | 1.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR500-P400* | 205 147 654 4 | 400 | | 0.5 0.68 | 46.0 | 407.10 | 0.64 | 1.4 | 14 | 30 | 1/4 | 10 | 3/8 |

* Chuck spindle 3/8" x 24 UNF

Pistol Grip Drills

High Power Drill



Accessories: see page 266-268



Front View Dimensions:

- Chuck Designation:** C13, C10, C8, K10, K8
- Dimension A:** 61 mm / 2.40 in.
- Overall Length:** 146mm / 5.75"
- Chuck Depth:** 47mm / 1.85"

Side View Dimensions:

- Overall Length:** 152 mm (5.98")
- Chuck Depth:** 41.3mm (1.63")
- Shaft Length:** 20 mm (0.79")
- Overall Length:** 184 mm (7.24")
- Chuck Depth:** 41.3mm (1.63")
- Shaft Length:** 20 mm (0.79")

Part Numbers:

| Model | Part Number |
|-------|----------------------|
| C13 | DR750-P20000.....JT1 |
| C10 | DR750-P6000.....JT1 |
| C8 | DR750-P4100.....JT1 |
| K10 | DR750-P3300.....JT1 |
| K8 | DR750-P2700.....JT1 |
| | DR750-P13000.....JT1 |
| | DR750-P750.....JT1 |
| | DR750-P400.....JT1 |

| PIC REF | MODEL | PART NUMBER | FREE SPEED | CHUCK SIZE | | MOTOR POWER | | STALL TORQUE | | WEIGHT | | AIR FLOW | | AIR INLET | AIR HOSE INT. Ø | |
|---------|-------|-------------|------------|------------|-----|-------------|----|--------------|-------|--------|----|----------|-----|-----------|-----------------|-----|
| | | | rpm | mm | in. | kW | hp | Nm | in lb | kg | lb | l/s | cfm | in. | mm | in. |

TRIGGER START - KEY CHUCK MODELS

| Trigger Start - Key Chuck Models | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------|---------------|-------|----|------|------|------|------|-------|-----|-----|----|----|-----|----|-----|
| A | DR750-P20000-C8 | 205 146 659 4 | 20000 | 8 | 5/16 | 0.75 | 1.00 | 1.6 | 14.2 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR750-P6000-C8 | 1465124 | 6000 | 8 | 5/16 | 0.75 | 1.00 | 5.3 | 46.9 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR750-P4100-C8 | 1465114 | 4100 | 8 | 5/16 | 0.75 | 1.00 | 7.1 | 62.8 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR750-P3300-C10 | 1465104 | 3300 | 10 | 3/8 | 0.75 | 1.00 | 9.6 | 85.0 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| A | DR750-P2700-C10 | 1465094 | 2700 | 10 | 3/8 | 0.75 | 1.00 | 11.1 | 98.2 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR750-P1300-C10 | 1465084 | 1300 | 10 | 3/8 | 0.75 | 1.00 | 23.9 | 211.5 | 1.6 | 3.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR750-P750-C13 | 1465074 | 750 | 13 | 1/2 | 0.75 | 1.00 | 41.0 | 362.9 | 1.6 | 3.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| B | DR750-P400-C13 | 205 146 658 4 | 400 | 13 | 1/2 | 0.75 | 1.00 | 55.0 | 486.8 | 1.6 | 3.5 | 14 | 30 | 1/4 | 10 | 3/8 |

TRIGGER START - JACOBS TAPER 1 SPINDLE - WITHOUT CHUCK

| TRIGGER START JACOBIAN TAPER P-TRINITYE WITHOUT CRACK | | | | | | | | | | | | | | | | | |
|---|------------------|-----|-----|-----|---|-------|------|------|------|-------|------|-----|----|----|-----|----|-----|
| C | DR750-P20000-JT1 | 205 | 146 | 667 | 4 | 20000 | 0.75 | 1.00 | 1.6 | 14.2 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR750-P6000-JT1 | 205 | 146 | 666 | 4 | 6000 | 0.75 | 1.00 | 5.3 | 46.9 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR750-P4100-JT1 | 205 | 146 | 665 | 4 | 4100 | 0.75 | 1.00 | 7.1 | 62.8 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR750-P3300-JT1 | 205 | 146 | 664 | 4 | 3300 | 0.75 | 1.00 | 9.6 | 85.0 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| C | DR750-P2700-JT1 | 205 | 146 | 663 | 4 | 2700 | 0.75 | 1.00 | 11.1 | 98.2 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR750-P1300-JT1 | 205 | 146 | 662 | 4 | 1300 | 0.75 | 1.00 | 23.9 | 211.5 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR750-P750-JT1 | 205 | 146 | 661 | 4 | 750 | 0.75 | 1.00 | 41.0 | 362.9 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| D | DR750-P400-JT1 | 205 | 146 | 660 | 4 | 400 | 0.75 | 1.00 | 55.0 | 486.8 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |

TRIGGER START - KEYLESS CHUCK MODELS

| KODAK EASYSHARE ZOOM CHART MODELS | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------|---------|------|----|------|------|------|------|------|-----|-----|----|----|-----|----|-----|
| E | DR750-P6000-K8 | 1465164 | 6000 | 8 | 5/16 | 0.75 | 1.00 | 5.3 | 46.9 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR750-P4100-K8 | 1465154 | 4100 | 8 | 5/16 | 0.75 | 1.00 | 7.1 | 62.8 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR750-P3300-K10 | 1465144 | 3300 | 10 | 3/8 | 0.75 | 1.00 | 9.6 | 85.0 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |
| E | DR750-P2700-K10 | 1465134 | 2700 | 10 | 3/8 | 0.75 | 1.00 | 11.1 | 98.2 | 1.1 | 2.4 | 14 | 30 | 1/4 | 10 | 3/8 |

TRIGGER START - WITHOUT CHUCK

| TRIGGER START - WITHOUT CRACK | | | | | | | | | | | | | | | |
|-------------------------------|---------------|---------------|-------|--|------|------|------|-------|------|-----|----|----|-----|----|-----|
| F | DR750-P20000* | 205 147 458 4 | 20000 | | 0.75 | 1.00 | 1.6 | 14.2 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR750-P6000* | 205 147 417 4 | 6000 | | 0.75 | 1.00 | 5.3 | 46.9 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR750-P4100* | 205 147 456 4 | 4100 | | 0.75 | 1.00 | 7.1 | 62.8 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR750-P3300* | 205 147 455 4 | 3300 | | 0.75 | 1.00 | 9.6 | 85.0 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| F | DR750-P2700* | 205 147 416 4 | 2700 | | 0.75 | 1.00 | 11.1 | 98.2 | 0.9 | 2.0 | 14 | 30 | 1/4 | 10 | 3/8 |
| G | DR750-P1300* | 205 147 415 4 | 1300 | | 0.75 | 1.00 | 23.9 | 211.5 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| G | DR750-P750** | 205 147 452 4 | 750 | | 0.75 | 1.00 | 41.0 | 362.9 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |
| G | DR750-P400** | 205 147 451 4 | 400 | | 0.75 | 1.00 | 55.0 | 486.8 | 1.15 | 2.5 | 14 | 30 | 1/4 | 10 | 3/8 |

* Chuck spindle 3/8" x 24 UNF

**** Chuck spindle 1/2" x 20 UNF**

Straight Grip Drills

0.3 kW (0.4 hp) - 550 to 20000 rpm



Interchangeable lever included



A



B



C



D

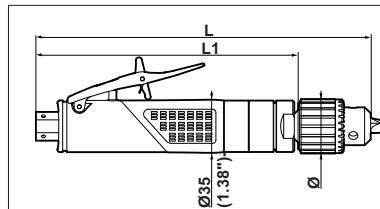


E



F

Accessories: see page 266-268



| Model | L mm | L in. | L1 mm | L1 in. | Ø mm | Ø in. |
|-----------------|---------|----------|----------|-----------|---------|----------|
| DR300-T20000-C8 | 197 | 7.76 | 145 | 5.71 | 30 | 1.18 |
| DR300-T5500-C8 | 214 | 8.43 | 159 | 6.26 | 30 | 1.18 |
| DR300-T4500-C8 | 214 | 8.43 | 159 | 6.26 | 30 | 1.18 |
| DR300-T3000-C8 | 214 | 8.43 | 159 | 6.26 | 30 | 1.18 |
| DR300-T2000-C8 | 214 | 8.43 | 159 | 6.26 | 30 | 1.18 |
| DR300-T1000-C10 | 231 | 9.09 | 176 | 6.93 | 36 | 1.42 |
| DR300-T550-C10 | 231 | 9.09 | 176 | 6.93 | 36 | 1.42 |

| PIC REF | MODEL | PART NUMBER | FREE SPEED | CHUCK SIZE | MOTOR POWER | STALL TORQUE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | |
|------------|-------|----------------|---------------|---------------|----------------|-----------------|--------|-------------|--------------|----------------|----|-----|
| | | | rpm | mm | in. | Nm | in lb | l/s | cfm | in. | mm | in. |

KEY CHUCK MODELS

| | | | | | | | | | | | | | | | | |
|---|-----------------|---------------|-------|----|------|-----|-----|------|-------|------|------|-----|----|-----|---|-----|
| A | DR300-T20000-C8 | 205 147 496 4 | 20000 | 8 | 5/16 | 0.3 | 0.4 | 0.6 | 5.3 | 0.47 | 1.03 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T5500-C8 | 205 147 493 4 | 5500 | 8 | 5/16 | 0.3 | 0.4 | 2.3 | 20.4 | 0.6 | 1.32 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T4500-C8 | 205 147 490 4 | 4500 | 8 | 5/16 | 0.3 | 0.4 | 2.7 | 23.9 | 0.6 | 1.32 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T3000-C8 | 205 147 487 4 | 3000 | 8 | 5/16 | 0.3 | 0.4 | 4.0 | 35.4 | 0.6 | 1.32 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T2000-C8 | 205 147 484 4 | 2000 | 8 | 5/16 | 0.3 | 0.4 | 5.4 | 47.8 | 0.6 | 1.32 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T1000-C10 | 205 147 481 4 | 1000 | 10 | 3/8 | 0.3 | 0.4 | 12.7 | 112.4 | 0.75 | 1.65 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T550-C10 | 205 147 478 4 | 550 | 10 | 3/8 | 0.3 | 0.4 | 18.6 | 164.6 | 0.75 | 1.65 | 9.5 | 20 | 1/4 | 6 | 1/4 |

WITHOUT CHUCK MODELS

| | | | | | | | | | | | | | | | | |
|---|---------------|---------------|-------|--|--|-----|-----|------|-------|------|------|-----|----|-----|---|-----|
| F | DR300-T20000* | 205 147 495 4 | 20000 | | | 0.3 | 0.4 | 0.6 | 5.3 | 0.34 | 0.75 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T5500* | 205 147 492 4 | 5500 | | | 0.3 | 0.4 | 2.3 | 20.4 | 0.47 | 1.04 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T4500* | 205 147 489 4 | 4500 | | | 0.3 | 0.4 | 2.7 | 23.9 | 0.47 | 1.04 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T3000* | 205 147 486 4 | 3000 | | | 0.3 | 0.4 | 4.0 | 35.4 | 0.47 | 1.04 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T2000* | 205 147 483 4 | 2000 | | | 0.3 | 0.4 | 5.4 | 47.8 | 0.47 | 1.04 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR300-T1000* | 205 147 480 4 | 1000 | | | 0.3 | 0.4 | 12.7 | 112.4 | 0.52 | 1.15 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| E | DR300-T550* | 205 147 477 4 | 550 | | | 0.3 | 0.4 | 18.6 | 164.6 | 0.52 | 1.15 | 9.5 | 20 | 1/4 | 6 | 1/4 |

* Chuck spindle 3/8" x 24 UNF

Angle Drill Selection



DRILL SELECTION GUIDE – ANGLE DRILL

| TOOL TYPE | FREE SPEED | TITANIUM | STAINLESS STEEL | HARD CAST IRON, MEDIUM HARD STEEL | SOFT CAST IRON, MILD STEEL | HARD PLASTICS | ALUMINIUM, BRASS, COPPER, BRONZE | COMPOSITE | WOOD, SOFT PLASTICS, CHIPBOARD |
|------------------------|------------|----------|-----------------|-----------------------------------|----------------------------|---------------|----------------------------------|-------------|--------------------------------|
| | rpm | | 9-15m/min | 10-20m/min | 20-35m/min | 30-40m/min | 50-80m/min | 50-100m/min | 80-120m/min |
| Drill \varnothing mm | | | | | | | | | |

COMPACT HEAD

| | | | | | | | | | |
|--|------|---|-------------|-------------|-------------|------------|---------------|-------------|-------------|
| DR300-T5/S5 (30°, 45°, 90° & 360° head) | 5500 | – | – | – | – | 3.0 (1/8") | 5.0 (3/16") | 5.0 (3/16") | 5.0 (3/16") |
| | 4500 | – | – | – | – | 3.0 (1/8") | 5.0 (3/16") | 5.0 (3/16") | 5.0 (3/16") |
| DR300-QR (30°, 45°, 90° & 360° head) | 3000 | ③ | – | – | – | 3.0 (1/8") | ② 5.0 (3/16") | 5.0 (3/16") | 5.0 (3/16") |
| | 2000 | – | 3.0 (1/8") | 4.0 (5/32") | 5.0 (3/16") | – | – | – | – |
| | 1000 | – | 4.0 (5/32") | 5.0 (3/16") | – | – | – | – | – |

STANDARD HEAD

| | | | | | | | | | |
|----------------------------------|------|------------|-------------|-------------|------------|-------------|------------|-------------|------------|
| DR300-T6/S6 (90° & 360° head) | 5500 | – | – | – | – | 3.0 (1/8") | 6.0 (1/4") | 5.0 (3/16") | 6.5 (1/4") |
| | 4500 | – | – | – | – | 3.0 (1/8") | 6.0 (1/4") | 5.0 (3/16") | 6.5 (1/4") |
| DR300-QR (90° & 360° head) | 3000 | – | – | – | 3.0 (1/8") | 5.0 (3/16") | 6.5 (1/4") | 6.5 (1/4") | – |
| | 2000 | – | 3.0 (1/8") | 4.0 (5/32") | 6.5 (1/4") | 6.5 (1/4") | – | 6.5 (1/4") | – |
| | 1000 | – | 4.0 (5/32") | 6.0 (1/4") | 6.5 (1/4") | – | – | – | – |
| | 550 | 6.0 (1/4") | 6.5 (1/4") | 6.5 (1/4") | – | – | – | – | – |

HEAVY DUTY

| | | | | | | | | | |
|------------------|------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| D3141 (90° head) | 2100 | – | 3.0 (1/8") | 3.0 (1/8") | 6.0 (1/4") | 8.0 (5/16") | 8.0 (5/16") | 8.0 (5/16") | 8.0 (5/16") |
| D3143 (90° head) | 770 | – | 7.0 (9/32") | 8.0 (5/16") | 8.0 (5/16") | – | – | – | – |
| | 2100 | – | 3.0 (1/8") | 3.0 (1/8") | 6.0 (1/4") | 6.5 (1/4") | 6.5 (1/4") | 6.5 (1/4") | 6.5 (1/4") |
| | 770 | – | 6.5 (1/4") | 6.5 (1/4") | 6.5 (1/4") | – | – | – | – |

Angle Drills



Compact 90° Angle Head

0.3 kW (0.4 hp) - 1000 to 5500 rpm

Interchangeable lever included



A



B

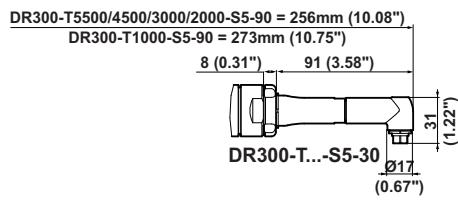
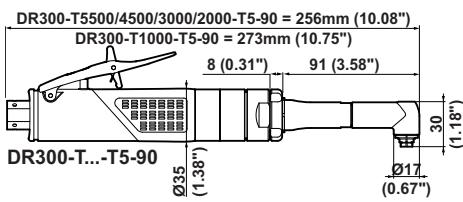


C



D

Accessories: see page 267



| PIC REF | MODEL | PART NUMBER | FREE SPEED rpm | MOTOR POWER kW | WEIGHT kg | AIR FLOW l/s | AIR INLET cfm | HOSE INT. Ø in. | mm | in. |
|---|-------------------|---------------|-------------------|-------------------|--------------|-----------------|------------------|-----------------------|-----|-----|
| COLLET SPINDLE - 5mm (3/16") CAPACITY | | | | | | | | | | |
| A | DR300-T5500-T5-90 | 205 147 551 4 | 5500 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| A | DR300-T4500-T5-90 | 205 147 549 4 | 4500 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| A | DR300-T3000-T5-90 | 205 147 547 4 | 3000 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| A | DR300-T2000-T5-90 | 205 147 545 4 | 2000 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| B | DR300-T1000-T5-90 | 205 147 543 4 | 1000 | 0.3 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 |
| 1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16") | | | | | | | | | | |
| C | DR300-T5500-S5-90 | 205 147 552 4 | 5500 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| C | DR300-T4500-S5-90 | 205 147 550 4 | 4500 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| C | DR300-T3000-S5-90 | 205 147 548 4 | 3000 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| C | DR300-T2000-S5-90 | 205 147 546 4 | 2000 | 0.3 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 |
| D | DR300-T1000-S5-90 | 205 147 544 4 | 1000 | 0.3 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 |

Angle Drills



Interchangeable lever included

Standard 90° Angle Head
0.3 kW (0.4 hp) - 550 to 5500 rpm



A



B

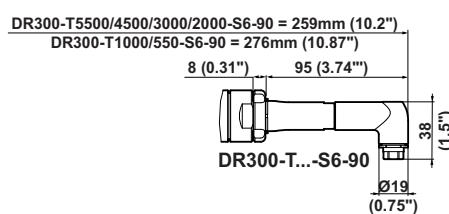
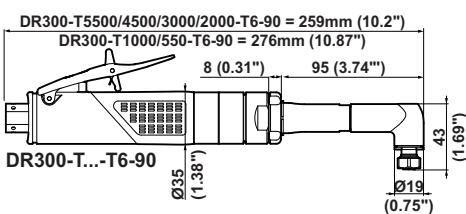


C



D

Accessories: see page 267



| PIC REF | MODEL | PART NUMBER | FREE SPEED | MOTOR POWER | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | |
|---------|-------|-------------|------------|-------------|--------|----------|-----------|-------------|-----|-----|----|-----|
| | | | rpm | kW | hp | kg | lb | l/s | cfm | in. | mm | in. |

COLLET SPINDLE - 6.4mm (1/4") CAPACITY

| | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|-----|------|------|-----|----|-----|---|-----|
| A | DR300-T5500-T6-90 | 205 147 598 4 | 5500 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T4500-T6-90 | 205 147 595 4 | 4500 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T3000-T6-90 | 205 147 592 4 | 3000 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T2000-T6-90 | 205 147 589 4 | 2000 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T1000-T6-90 | 205 147 586 4 | 1000 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T550-T6-90 | 205 147 583 4 | 550 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4 | 6 | 1/4 |

1/4" x 28 SPINDLE - MAX. CAPACITY: 6.4mm (1/4")

| | | | | | | | | | | | | |
|---|-------------------|---------------|------|-----|-----|------|------|-----|----|-----|---|-----|
| C | DR300-T5500-S6-90 | 205 147 599 4 | 5500 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T4500-S6-90 | 205 147 596 4 | 4500 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T3000-S6-90 | 205 147 593 4 | 3000 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T2000-S6-90 | 205 147 590 4 | 2000 | 0.3 | 0.4 | 0.68 | 1.50 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T1000-S6-90 | 205 147 587 4 | 1000 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T550-S6-90 | 205 147 584 4 | 550 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4 | 6 | 1/4 |

Angle Drills

Heavy Duty 90° Angle Head
 0.28 kW (0.38 hp) - 770 - 2100 rpm



A



Interchangeable lever included

B



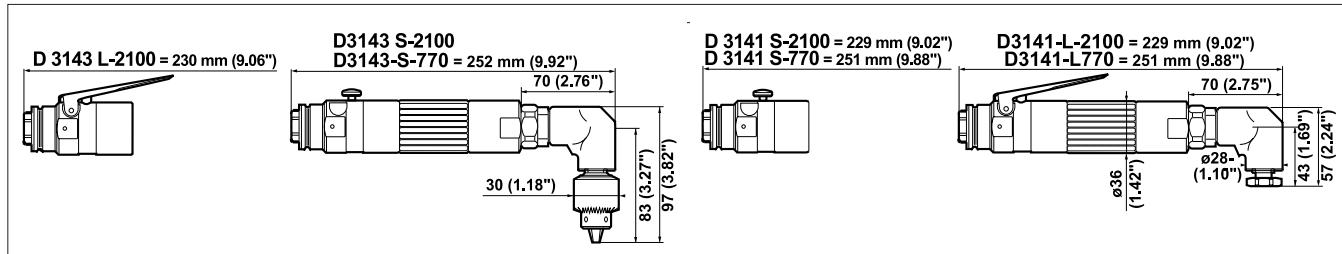
C



Interchangeable lever included

D

Accessories: see page 267



| PIC REF | MODEL | PART NUMBER | FREE SPEED | MOTOR POWER | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | |
|------------|---------------|----------------|---------------|----------------|--------|-------------|--------------|----------------|-----|-----|----|-----|
| | | | rpm | kW | hp | kg | lb | l/s | cfm | in. | mm | in. |
| | D 3143 L-2100 | 230 mm (9.06") | | | | | | | | | | |
| | D 3143 S-2100 | 252 mm (9.92") | | | | | | | | | | |

COLLET SPINDLE – 8mm (5/16") CAPACITY

Button Start

| | | | | | | | | | | | | |
|---|--------------|---------|------|------|------|------|-----|-----|------|-----|---|-----|
| A | D3141-S-2100 | 1383084 | 2100 | 0.28 | 0.38 | 0.86 | 1.9 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |
| A | D3141-S-770 | 1383244 | 770 | 0.28 | 0.38 | 1.00 | 2.2 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |

Lever Start

| | | | | | | | | | | | | |
|---|--------------|---------|------|------|------|------|-----|-----|------|-----|---|-----|
| B | D3141-L-2100 | 1383164 | 2100 | 0.28 | 0.38 | 0.86 | 1.9 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |
| B | D3141-L-770 | 1383324 | 770 | 0.28 | 0.38 | 1.00 | 2.2 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |

KEY CHUCK – 8mm (5/16") CAPACITY

Button Start

| | | | | | | | | | | | | |
|---|--------------|---------|------|------|------|------|-----|-----|------|-----|---|-----|
| C | D3143-S-2100 | 1383404 | 2100 | 0.28 | 0.38 | 0.96 | 2.1 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |
| C | D3143-S-770 | 1383664 | 770 | 0.28 | 0.38 | 1.00 | 2.2 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |

Lever Start

| | | | | | | | | | | | | |
|---|--------------|---------|------|------|------|------|-----|-----|------|-----|---|-----|
| D | D3143-L-2100 | 1383584 | 2100 | 0.28 | 0.38 | 0.96 | 2.1 | 9.4 | 19.9 | 1/4 | 6 | 1/4 |
|---|--------------|---------|------|------|------|------|-----|-----|------|-----|---|-----|

Angle Drills

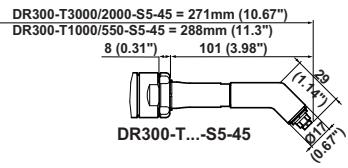
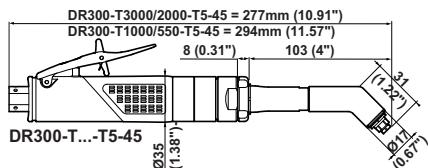
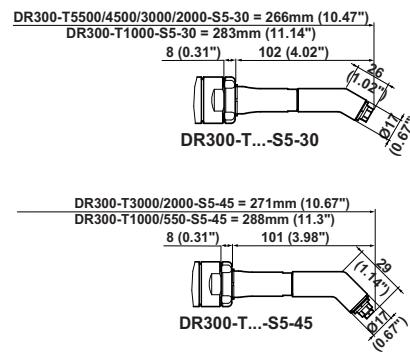
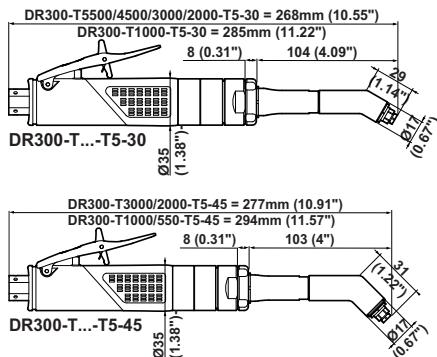


Interchangeable lever included

Compact 30° and 45° Angle Head 0.3 kW (0.4 hp) - 550 to 5500 rpm



Accessories: see page 267



| PIC REF | MODEL | PART NUMBER | FREE SPEED rpm | MOTOR POWER kW | MOTOR POWER hp | WEIGHT kg | WEIGHT lb | AIR FLOW l/s | AIR FLOW cfm | AIR INLET in. | AIR INLET mm | HOSE INT. Ø in. |
|---|-------------------|---------------|-------------------|-------------------|-------------------|--------------|--------------|-----------------|-----------------|------------------|-----------------|-----------------------|
| COLLET SPINDLE - 5mm (3/16") CAPACITY | | | | | | | | | | | | |
| A | DR300-T5500-T5-30 | 205 147 539 4 | 5500 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T4500-T5-30 | 205 147 537 4 | 4500 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T3000-T5-30 | 205 147 535 4 | 3000 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T2000-T5-30 | 205 147 533 4 | 2000 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T1000-T5-30 | 205 147 531 4 | 1000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| 1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16") | | | | | | | | | | | | |
| A | DR300-T5500-S5-30 | 205 147 540 4 | 5500 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T4500-S5-30 | 205 147 538 4 | 4500 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T3000-S5-30 | 205 147 536 4 | 3000 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T2000-S5-30 | 205 147 534 4 | 2000 | 0.3 | 0.4 | 0.62 | 1.36 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T1000-S5-30 | 205 147 532 4 | 1000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| COLLET SPINDLE - 5mm (3/16") CAPACITY | | | | | | | | | | | | |
| C | DR300-T3000-T5-45 | 205 147 574 4 | 3000 | 0.3 | 0.4 | 0.68 | 1.49 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T2000-T5-45 | 205 147 571 4 | 2000 | 0.3 | 0.4 | 0.68 | 1.49 | 9.5 | 20 | 1/4" | 6 | 1/4 |
| D | DR300-T1000-T5-45 | 205 147 568 4 | 1000 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4" | 6 | 1/4 |
| D | DR300-T550-T5-45 | 205 147 565 4 | 550 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4" | 6 | 1/4 |
| 1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16") | | | | | | | | | | | | |
| C | DR300-T3000-S5-45 | 205 147 575 4 | 3000 | 0.3 | 0.4 | 0.68 | 1.49 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T2000-S5-45 | 205 147 572 4 | 2000 | 0.3 | 0.4 | 0.68 | 1.49 | 9.5 | 20 | 1/4" | 6 | 1/4 |
| D | DR300-T1000-S5-45 | 205 147 569 4 | 1000 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4" | 6 | 1/4 |
| D | DR300-T550-S5-45 | 205 147 566 4 | 550 | 0.3 | 0.4 | 0.76 | 1.67 | 9.5 | 20 | 1/4" | 6 | 1/4 |

Angle Drills

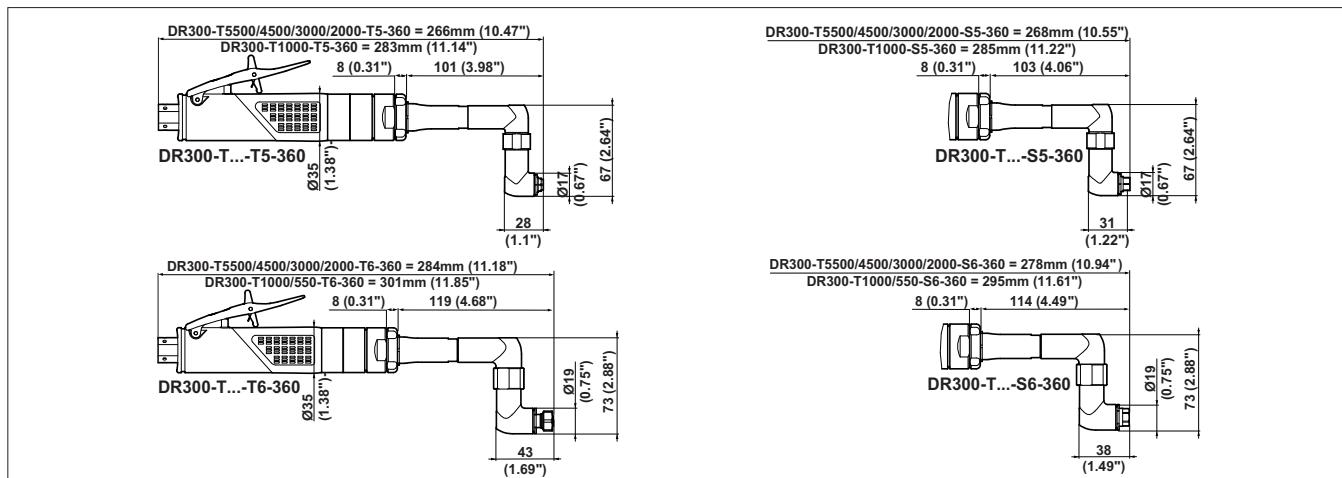


Compact and Standard 360° Angle Head
0.3 kW (0.4 hp) - 550 to 5500 rpm

Interchangeable lever included



Accessories: see page 267



| PIC REF | MODEL | PART NUMBER | FREE SPEED rpm | MOTOR POWER kW | MOTOR POWER hp | WEIGHT kg | WEIGHT lb | AIR FLOW l/s | AIR FLOW cfm | AIR INLET in. | AIR INLET mm | HOSE INT. Ø |
|--|--------------------|---------------|-------------------|-------------------|-------------------|--------------|--------------|-----------------|-----------------|------------------|-----------------|----------------|
| | | | | | | | | | | | | |
| COLLET SPINDLE - 5mm (3/16") CAPACITY | | | | | | | | | | | | |
| A | DR300-T5500-T5-360 | 205 147 563 4 | 5500 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T4500-T5-360 | 205 147 561 4 | 4500 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T3000-T5-360 | 205 147 559 4 | 3000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T2000-T5-360 | 205 147 557 4 | 2000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T1000-T5-360 | 205 147 555 4 | 1000 | 0.3 | 0.4 | 0.78 | 1.72 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| 1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16") | | | | | | | | | | | | |
| A | DR300-T5500-S5-360 | 205 147 564 4 | 5500 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T4500-S5-360 | 205 147 562 4 | 4500 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T3000-S5-360 | 205 147 560 4 | 3000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| A | DR300-T2000-S5-360 | 205 147 558 4 | 2000 | 0.3 | 0.4 | 0.70 | 1.54 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T1000-S5-360 | 205 147 556 4 | 1000 | 0.3 | 0.4 | 0.78 | 1.72 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| COLLET SPINDLE - 6.4mm (1/4") CAPACITY | | | | | | | | | | | | |
| C | DR300-T5500-T6-360 | 205 147 616 4 | 5500 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T4500-T6-360 | 205 147 613 4 | 4500 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T3000-T6-360 | 205 147 610 4 | 3000 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T2000-T6-360 | 205 147 607 4 | 2000 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T1000-T6-360 | 205 147 604 4 | 1000 | 0.3 | 0.4 | 0.85 | 1.87 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T550-T6-360 | 205 147 601 4 | 550 | 0.3 | 0.4 | 0.85 | 1.87 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| 1/4" x 28 SPINDLE - MAX. CAPACITY: 6.4mm (1/4") | | | | | | | | | | | | |
| C | DR300-T5500-S6-360 | 205 147 617 4 | 5500 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T4500-S6-360 | 205 147 614 4 | 4500 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T3000-S6-360 | 205 147 611 4 | 3000 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T2000-S6-360 | 205 147 608 4 | 2000 | 0.3 | 0.4 | 0.77 | 1.69 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T1000-S6-360 | 205 147 605 4 | 1000 | 0.3 | 0.4 | 0.85 | 1.87 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| D | DR300-T550-S6-360 | 205 147 602 4 | 550 | 0.3 | 0.4 | 0.85 | 1.87 | 9.5 | 20 | 1/4 | 6 | 1/4 |

Tappers



A



B



C



D

Accessories: see page 268



| Model | A mm | A in. | A 138 (5.43") | | | | |
|------------|---------|----------|------------------|------------------|----------------|----------|----------------|
| D16-L-1000 | 299 | 11.77 | | | | | |
| D16-L-500 | 310 | 12.20 | | | | | |
| Model | A mm | A in. | Ø36 (1.42") | Ø48.5 (1.91") | | | |
| D16-S-1000 | 299 | 11.77 | | | | | |
| D16-S-500 | 310 | 12.20 | | | | | |
| Model | A mm | A in. | Ø36 (1.42") | Ø48.5 (1.91") | A mm | A in. | |
| D16-P-750 | 297 | 11.69 | | | | | 2F16-L-700 |
| D16-P-450 | 308 | 12.13 | | | | | 2F16-L-250 |
| | | | Ø44 (1.73") | | Ø44 (1.73") | | Ø44 (1.73") |
| | | | | | 298 | 10.98 | 298 |
| | | | | | 11.73 | | 11.73 |

| PIC REF | MODEL | PART NUMBER | FREE SPEED rpm | REVERSE SPEED rpm | CHUCK SIZE mm | CHUCK SIZE in. | MAX. TAPPING TORQUE N.m | MAX. TAPPING TORQUE ft.lb | WEIGHT kg | WEIGHT lb | AIR FLOW l/s | AIR INLET cfm | AIR INLET in. | HOSE INT. Ø mm | HOSE INT. Ø in. |
|------------|-------|----------------|----------------------|-------------------------|---------------------|----------------------|-------------------------------|---------------------------------|--------------|--------------|--------------------|---------------------|---------------------|----------------------|-----------------------|
| | | | | | | | | | | | | | | | |

D SERIES

Button Start – push/pull reverse

| | | | | | | | | | | | | | | | |
|---|------------|---------|------|------|------|-----|-----|------|-----|------|-----|------|-----|----|-----|
| A | D16-S-1000 | 1274544 | 1000 | 2000 | 6.5 | 1/4 | 4.3 | 3.17 | 1.3 | 2.86 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |
| A | D16-S-500 | 1274384 | 500 | 1000 | 10.0 | 3/8 | 8.6 | 6.34 | 1.4 | 3.08 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |

Lever Start – push/pull reverse

| | | | | | | | | | | | | | | | |
|---|------------|---------|------|------|------|-----|-----|------|-----|------|-----|------|-----|----|-----|
| B | D16-L-1000 | 1274624 | 1000 | 2000 | 6.5 | 1/4 | 4.3 | 3.17 | 1.3 | 2.86 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |
| B | D16-L-500 | 1274464 | 500 | 1000 | 10.0 | 3/8 | 8.6 | 6.34 | 1.4 | 3.08 | 9.4 | 19.9 | 1/4 | 10 | 3/8 |

Trigger Start – push/pull reverse

| | | | | | | | | | | | | | | | |
|---|-----------|---------|-----|------|------|-----|------|------|-----|------|-----|------|-----|----|-----|
| C | D16-P-750 | 1288084 | 750 | 1500 | 6.5 | 1/4 | 6.2 | 4.57 | 1.7 | 3.75 | 8.5 | 18.0 | 1/4 | 10 | 3/8 |
| C | D16-P-450 | 1287934 | 450 | 900 | 10.0 | 3/8 | 11.1 | 8.18 | 1.8 | 3.97 | 8.5 | 18.0 | 1/4 | 10 | 3/8 |

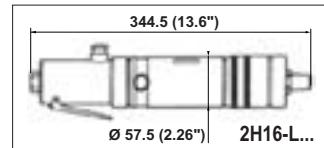
F SERIES

Lever Start – button reverse – stand mounted

| | | | | | | | | | | | | | | | |
|---|------------|---------|-----|-----|-----|-----|------|-------|-----|------|------|------|-----|----|-----|
| D | 2F16-L-700 | 1241394 | 700 | 700 | 6.5 | 1/4 | 6.7 | 4.94 | 1.7 | 3.75 | 11.1 | 23.5 | 1/4 | 10 | 3/8 |
| D | 2F16-L-250 | 1241474 | 250 | 250 | 6.5 | 1/4 | 17.5 | 12.90 | 1.8 | 3.97 | 11.1 | 23.5 | 1/4 | 10 | 3/8 |



E



Ø 57.5 (2.26") 2H16-L...

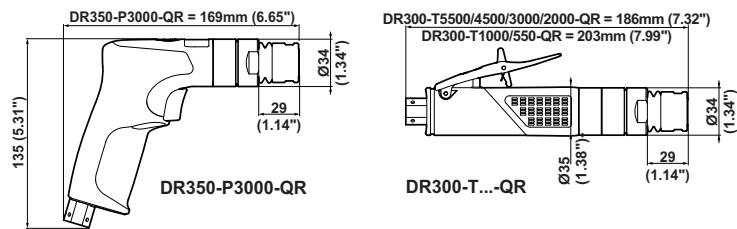
| PIC REF | MODEL | PART NUMBER | LOW SPEED SETTING | HIGH SPEED SETTING | MAX. TAPPING TORQUE | | WEIGHT | | AIR FLOW | | AIR INLET | | HOSE INT. Ø | | |
|------------|-------|----------------|-------------------------|--------------------------|---------------------|-------|--------|-------|-------------|----|--------------|-----|----------------|----|-----|
| | | | rpm | rpm | N.m | ft.lb | N.m | ft.lb | kg | lb | l/s | cfm | in. | mm | in. |
| | | | | | | | | | | | | | | | |

H SERIES

Lever Start - button reverse - stand mounted

| | | | | | | | | | | | | | | | |
|---|----------------------|---------|-----|-----|-----|-------|----|------|-----|-----|------|----|-----|----|-----|
| E | 2H16-L-250/800 - B16 | 1452444 | 250 | 800 | 90 | 66.4 | 29 | 21.4 | 3.1 | 6.8 | 15.6 | 33 | 3/8 | 10 | 3/8 |
| E | 2H16-L-250/800 - B18 | 1434184 | 250 | 800 | 90 | 66.4 | 29 | 21.4 | 3.1 | 6.8 | 15.6 | 33 | 3/8 | 10 | 3/8 |
| E | 2H16-L-160/500 - B18 | 1434264 | 130 | 500 | 140 | 103.3 | 47 | 34.7 | 3.1 | 6.8 | 15.6 | 33 | 3/8 | 10 | 3/8 |
| E | 2H16-L-90/250 - B18 | 1434344 | 90 | 250 | 240 | 177.0 | 90 | 66.4 | 3.1 | 6.8 | 15.6 | 33 | 3/8 | 10 | 3/8 |

Accessories



DR350-P3000-QR / DR300-T550/1000/2000/3000/4500/5500-QR

ACCESSORIES INCLUDED



| ITEM | ANGLE HEAD 205 050 331 3 205 050 329 3 205 050 333 3 205 050 335 3 | DRILLS DR300 |
|---|--|-----------------|
| • ø 4.8mm (3/16") capacity collet | 2552 | |
| • ø 6.4mm (1/4") capacity collet | 19182 | |
| • ø 8mm (5/16") capacity collet | | 615 526 088 0 |
| 1 Short lever | | 205 050 299 3 |
| 2 Safety lever | | 205 050 288 3 |
| 3 Inlet button (with lever recess plugs) | | 205 050 045 3 |
| 4 Side handle (for DR300-T550/1000/2000/3000) | | 205 049 446 3 |
| • Exhaust hose (with clamping) | | 205 050 746 3 |
| • Wrench 8-9mm (Qty 2) | 268263 | |
| • Wrench 10mm | 82623 | |

OPTIONAL ACCESSORIES



| ITEM | PART NO. |
|---------------|---------------|
| 4 Side handle | 205 049 446 3 |

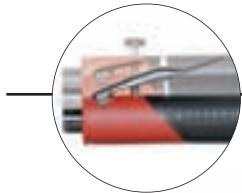


| Collet Capacity | A | B | C | Collet Capacity | A | B | C |
|-------------------|------|-------|---------------|-------------------|-------|-------|---------------|
| 205 050 331 3 | 2172 | | | 205 050 331 3 | 2462 | | |
| 205 050 329 3 | 2182 | | | 205 050 329 3 | 2472 | 19052 | 615 526 071 0 |
| 205 050 333 3 | 2192 | | | 205 050 333 3 | 2482 | | |
| 205 050 335 3 | 2202 | | | 205 050 335 3 | 2492 | 19062 | |
| • ø 1.0mm | 2212 | | | • ø 4.3mm | 2502 | | |
| • ø 1.1mm | 2222 | | | • ø 4.4mm | 2512 | 19072 | |
| • ø 1.2mm | 2232 | 18922 | | • ø 4.5mm | 2522 | | 615 526 073 0 |
| • ø 1.3mm | 2242 | | | • ø 4.6mm | 2532 | 19082 | |
| • ø 1.4mm | 2252 | 18932 | | • ø 4.7mm | 2542 | | |
| • ø 1.5mm | 2262 | | | • ø 4.8mm (3/16") | 2552 | 19092 | |
| • ø 1.6mm | 2272 | 18942 | 615 526 066 0 | • ø 4.9mm | 2562 | | |
| • ø 1.7mm | 2282 | | | • ø 5.0mm | 2572 | 19102 | 615 526 075 0 |
| • ø 1.8mm | 2292 | 18952 | | • ø 5.2mm | | 19122 | |
| • ø 1.9mm | 2302 | | | • ø 5.4mm | | 19132 | 615 526 077 0 |
| • ø 2.0mm | 2312 | | | • ø 5.5mm | | | 615 526 077 0 |
| • ø 2.1mm | 2322 | | | • ø 5.6mm | | 19142 | |
| • ø 2.2mm | 2332 | 18972 | | • ø 5.8mm | | 19152 | |
| • ø 2.3mm | 2342 | | | • ø 6.0mm | | 19162 | 615 526 079 0 |
| • ø 2.4mm (3/32") | 2352 | 18982 | | • ø 6.2mm | | 19172 | |
| • ø 2.5mm | 2362 | | | • ø 6.4mm | | 19182 | |
| • ø 2.6mm | 2372 | 18992 | 615 526 069 0 | • ø 6.5mm | | | 615 526 081 0 |
| • ø 2.7mm | 2382 | | | • ø 7.0mm | | | 615 526 083 0 |
| • ø 2.8mm | 2392 | 19002 | | • ø 7.5mm | | | 615 526 084 0 |
| • ø 2.9mm | 2402 | | | • ø 8.0mm | | | 615 526 088 0 |
| • ø 3.0mm | 2412 | 19022 | | • ø 1/16" | 91442 | | |
| • ø 3.1mm | 2422 | | 615 526 070 0 | • ø 3/32" | 91452 | | |
| • ø 3.2mm (1/8") | 2432 | 19032 | | • ø 1/8" | 91462 | | |
| • ø 3.3mm | 2442 | | | • ø 5/32" | 91472 | | |
| • ø 3.4mm | 2452 | 19042 | | • ø 3/16" | 91482 | | |



| CHUCK MOUNTING 3/8" x 24 tpi 205 050 543 3 |
|---|
| • Chuck threaded 3/8" UNF cap. 8mm (5/16") (with key) • Keyless Chuck threaded 3/8" UNF- cap. 8mm (5/16") 205 053 013 3 473433 |

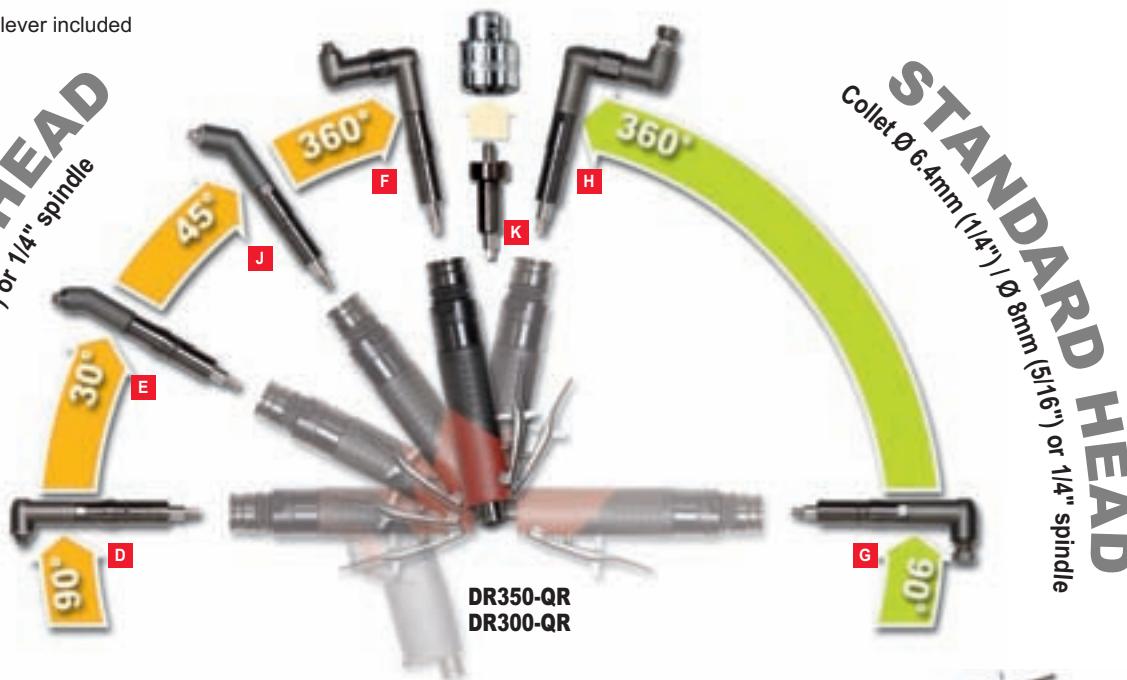
Multi Drills



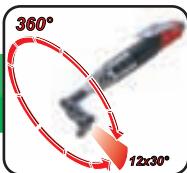
0.3 - 0.35 kW (0.4 - 0.5 hp) - 550 to 5500 rpm

Interchangeable lever included

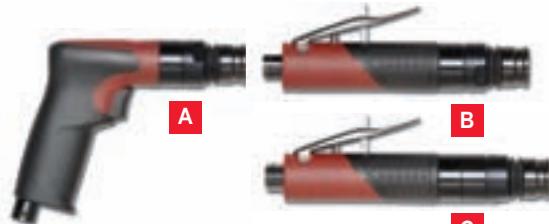
COMPACT HEAD
Collet Ø 5mm (3/16") or 1/4" spindle



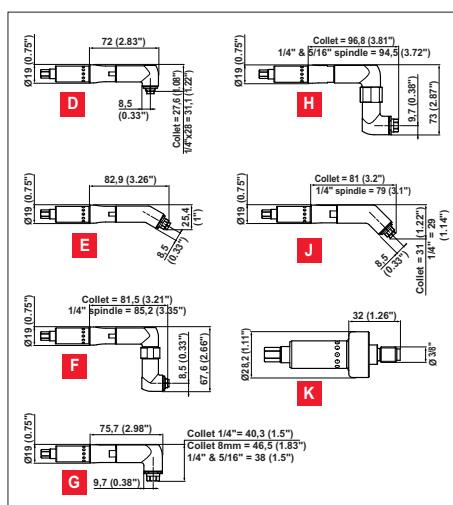
Quick-Release head



12 positions,
360° orientation



| PIC REF | MODEL | PART NUMBER | FREE SPEED | MOTOR POWER | STALL TORQUE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | | | |
|---------------------|----------------|---------------|------------|-------------|--------------|--------|----------|-----------|-------------|-----|-----|-----|----|-----|
| | | | rpm | kW | hp | Nm | in.lb. | kg | lb | l/s | cfm | in. | mm | in. |
| MULTI DRILLS | | | | | | | | | | | | | | |
| A | DR350-P3000-QR | 205 147 528 4 | 3000 | 0.35 | 0.5 | 4.0 | 35.4 | 0.50 | 1.10 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T5500-QR | 205 147 527 4 | 5500 | 0.30 | 0.4 | 2.3 | 20.4 | 0.50 | 1.10 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T4500-QR | 205 147 526 4 | 4500 | 0.30 | 0.4 | 2.7 | 23.9 | 0.50 | 1.10 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T3000-QR | 205 147 525 4 | 3000 | 0.30 | 0.4 | 4.0 | 35.4 | 0.50 | 1.10 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| B | DR300-T2000-QR | 205 147 524 4 | 2000 | 0.30 | 0.4 | 5.4 | 47.8 | 0.50 | 1.10 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T1000-QR | 205 147 523 4 | 1000 | 0.30 | 0.4 | 12.7 | 112.4 | 0.58 | 1.27 | 9.5 | 20 | 1/4 | 6 | 1/4 |
| C | DR300-T550-QR | 205 147 522 4 | 550 | 0.30 | 0.4 | 18.6 | 164.6 | 0.58 | 1.27 | 9.5 | 20 | 1/4 | 6 | 1/4 |



| PIC | PART NUMBER | DESIGNATION | COLLET MAX CAPACITY | WEIGHT |
|-----|-------------|-------------|---------------------|--------|
| | | | mm | in. |

ANGLE HEADS

| | | | | | | |
|---|---------------|---|-----|------|------|------|
| D | 205 050 331 3 | Compact 90° Angle Head - Collet spindle | 5.0 | 3/16 | 0.17 | 0.37 |
| D | 205 050 332 3 | Compact 90° Angle Head - 1/4" x 28 spindle | 5.0 | 3/16 | 0.17 | 0.37 |
| E | 205 050 329 3 | Compact 30° Angle Head - Collet spindle | 5.0 | 3/16 | 0.17 | 0.37 |
| E | 205 050 330 3 | Compact 30° Angle Head - 1/4" x 28 spindle | 5.0 | 3/16 | 0.17 | 0.37 |
| F | 205 050 333 3 | Compact 360° Angle Head - Collet spindle | 5.0 | 3/16 | 0.25 | 0.55 |
| F | 205 050 334 3 | Compact 360° Angle Head - 1/4" x 28 spindle | 5.0 | 3/16 | 0.25 | 0.55 |
| G | 205 050 338 3 | Standard 90° Angle Head - Collet spindle | 6.4 | 1/4 | 0.23 | 0.51 |
| G | 205 050 353 3 | Standard 90° Angle Head - Collet spindle | 8.0 | 5/16 | 0.24 | 0.53 |
| G | 205 050 339 3 | Standard 90° Angle Head - 1/4" x 28 spindle | 6.4 | 1/4 | 0.23 | 0.51 |
| G | 205 050 340 3 | Standard 90° Angle Head - 5/16" x 24 spindle | 6.4 | 1/4 | 0.23 | 0.51 |
| H | 205 050 341 3 | Standard 360° Angle Head - Collet spindle | 6.4 | 1/4 | 0.32 | 0.70 |
| H | 205 050 342 3 | Standard 360° Angle Head - 1/4" x 28 spindle | 6.4 | 1/4 | 0.32 | 0.70 |
| H | 205 050 343 3 | Standard 360° Angle Head - 5/16" x 24 spindle | 6.4 | 1/4 | 0.32 | 0.70 |
| J | 205 050 335 3 | Compact 45° Angle Head - Collet spindle | 5.0 | 3/16 | 0.23 | 0.51 |
| J | 205 050 336 3 | Compact 45° Angle Head - 1/4" x 28 spindle | 5.0 | 3/16 | 0.23 | 0.51 |
| K | 205 050 543 3 | Chuck mounting 3/8" x 24 UNF | 5.0 | 3/16 | 0.25 | 0.55 |

Speciality Tools

Offset Angle Heads

Introduction

Offset Angle Heads are used to provide solutions to drill holes in areas where access is very limited.

Two types of offset angle head module (standard and extended reach) suitable for mounting to the D23 (straight and pistol versions) drill are available.

To order please ensure that you list both the D23 Drill plus the Offset Angle Head to suit your requirements.

e.g.: D23-P-700 + Standard reach Part No. 108302



| Offset-Kopf | Part No. | A | | B | |
|----------------|----------|----|------|----|------|
| | | mm | in. | mm | in. |
| Standard reach | 108302 | 28 | 1.10 | 59 | 2.32 |
| Extended reach | 108312 | 50 | 1.97 | 78 | 3.07 |

The diagram illustrates the assembly of a D23 drill. A D23 handle is shown with its chuck. An offset angle head is mounted onto the chuck. A D32 type collet is attached to the offset angle head. Dimensions are provided: the overall length of the offset angle head is 165 (6.5"), the distance from the center of the collet to the center of the handle is 11.5 (0.45"), and the diameter of the collet is Ø40 (1.57"). A cross-sectional view of the collet is also shown with dimensions A and B.

| PIC REF | MODEL | PART NUMBER | FREE SPEED | CHUCK SIZE | MOTOR POWER | STALL TORQUE | WEIGHT | AIR FLOW | AIR INLET | HOSE INT. Ø | | | |
|---------|-------|-------------|------------|------------|-------------|--------------|--------|----------|-----------|-------------|-----|----|-----|
| | | | rpm | mm | in. | Nm | in.lb. | kg | lb | l/s | in. | mm | in. |

PISTOL GRIP DRILLS – TRIGGER START – D SERIES

| | | | | | | | | | | | | | | | |
|---|------------|---------|------|-----|-------|------|------|------|-------|------|------|-----|-----|----|-----|
| A | D23-P-6000 | 1364374 | 6000 | 8.0 | 0.315 | 0.28 | 0.38 | 2.0 | 17.7 | 0.90 | 1.98 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-4600 | 1364454 | 4600 | 8.0 | 0.315 | 0.28 | 0.38 | 2.0 | 17.7 | 0.90 | 1.98 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-2900 | 1364534 | 2900 | 8.0 | 0.315 | 0.28 | 0.38 | 3.0 | 26.6 | 0.90 | 1.98 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-1800 | 1364794 | 1800 | 8.0 | 0.315 | 0.28 | 0.38 | 5.0 | 44.3 | 1.10 | 2.42 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-1100 | 1364874 | 1100 | 8.0 | 0.315 | 0.28 | 0.38 | 9.0 | 79.7 | 1.10 | 2.42 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-700 | 1364954 | 700 | 8.0 | 0.315 | 0.28 | 0.38 | 15.0 | 132.8 | 1.10 | 2.42 | 8.5 | 1/4 | 10 | 3/8 |
| A | D23-P-400 | 1365004 | 400 | 8.0 | 0.315 | 0.28 | 0.38 | 24.0 | 212.0 | 1.10 | 2.42 | 8.5 | 1/4 | 10 | 3/8 |

STRAIGHT GRIP DRILLS – LEVER START – D SERIES

| | | | | | | | | | | | | | | | |
|---|------------|---------|------|-----|-------|------|------|------|-------|------|------|-----|-----|----|-----|
| B | D23-L-5700 | 1362914 | 5700 | 8.0 | 0.315 | 0.28 | 0.38 | 2.0 | 17.7 | 0.70 | 1.54 | 9.4 | 1/4 | 10 | 3/8 |
| B | D23-L-4400 | 1363144 | 4400 | 8.0 | 0.315 | 0.28 | 0.38 | 2.0 | 17.7 | 0.70 | 1.54 | 9.4 | 1/4 | 10 | 3/8 |
| B | D23-L-2800 | 1363304 | 2800 | 8.0 | 0.315 | 0.28 | 0.38 | 3.0 | 26.6 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |
| B | D23-L-1750 | 1363564 | 1750 | 8.0 | 0.315 | 0.28 | 0.38 | 6.0 | 53.1 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |
| B | D23-L-1050 | 1363724 | 1050 | 8.0 | 0.315 | 0.28 | 0.38 | 10.0 | 88.5 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |
| B | D23-L-400 | 1363984 | 400 | 8.0 | 0.315 | 0.28 | 0.38 | 25.0 | 221.3 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |

STRAIGHT GRIP DRILLS – BUTTON START – D SERIES

| | | | | | | | | | | | | | | | |
|---|------------|---------|------|-----|-------|------|------|------|-------|------|------|-----|-----|----|-----|
| . | D23-S-4400 | 1363064 | 4400 | 8.0 | 0.315 | 0.28 | 0.38 | 2.0 | 17.7 | 0.70 | 1.54 | 9.4 | 1/4 | 10 | 3/8 |
| . | D23-S-2800 | 1363224 | 2800 | 8.0 | 0.315 | 0.28 | 0.38 | 3.0 | 26.6 | 0.70 | 1.54 | 9.4 | 1/4 | 10 | 3/8 |
| . | D23-S-1750 | 1363484 | 1750 | 8.0 | 0.315 | 0.28 | 0.38 | 6.0 | 53.1 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |
| . | D23-S-1050 | 1363644 | 1050 | 8.0 | 0.315 | 0.28 | 0.38 | 10.0 | 88.5 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |
| . | D23-S-400 | 1363804 | 400 | 8.0 | 0.315 | 0.28 | 0.38 | 25.0 | 221.3 | 0.84 | 1.85 | 9.4 | 1/4 | 10 | 3/8 |

Hole Deburring & Rivet Shaving



A



B



C



D

Accessories: see page 269



| PIC REF | MODEL | PART NUMBER | FREE SPEED | COLLET SIZE | MAXIMUM CUTTER DIA. | WEIGHT | LENGTH | AIR FLOW | AIR INLET | HOSE INT. Ø |
|---------|-------|-------------|------------|-------------|---------------------|--------|--------|----------|-----------|-------------|
| | | | rpm | mm | mm in. | kg lb | mm in. | l/s cfm | in. | mm in. |

HOLE DEBURRING TOOLS – PUSH TO START

(integral speed regulator)

| | | | | | | | | | | | | | | |
|---|-------------|---------|------------|---|---|------|------|-----|------|-----|------|-----|---|-----|
| A | A27-A-1300 | 1406594 | 100 - 1300 | 4 | – | 0.24 | 0.52 | 172 | 6.77 | 2.4 | 5.0 | M5 | 3 | 1/8 |
| B | C27-AX-1450 | 1405414 | 100 - 1450 | 6 | – | 0.48 | 1.05 | 218 | 8.58 | 6.2 | 13.0 | 1/4 | 6 | 1/4 |

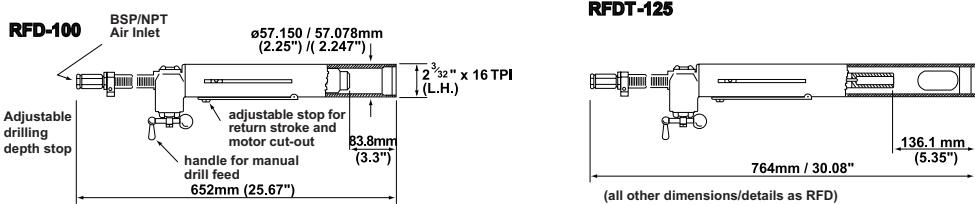
RIVET SHAVERS (for accessory 1/4"-26 WHIT)

| | | | | | | | | | | | | | | | |
|---|--------------|---------|-------|---|------|------|-----|-----|-----|------|-----|------|-----|----|-----|
| C | D156-S-20000 | 1275194 | 20000 | – | 14.3 | 9/16 | 1.0 | 2.2 | 232 | 9.13 | 9.3 | 19.7 | 1/4 | 10 | 3/8 |
| D | D156-P-20000 | 147664 | 20000 | – | 14.3 | 9/16 | 1.1 | 2.4 | 203 | 7.99 | 9.3 | 19.7 | 1/4 | 10 | 3/8 |

RIVET SHAVERS (for accessory 1/4"-28 UNF)

| | | | | | | | | | | | | | | | |
|---|--------------|---------------|-------|---|------|------|-----|-----|-----|------|-----|------|-----|----|-----|
| D | D156-P-20000 | 205 146 600 4 | 20000 | – | 14.3 | 9/16 | 1.1 | 2.4 | 203 | 7.99 | 9.3 | 19.7 | 1/4 | 10 | 3/8 |
|---|--------------|---------------|-------|---|------|------|-----|-----|-----|------|-----|------|-----|----|-----|

Accessories



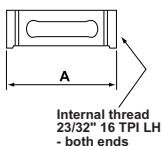
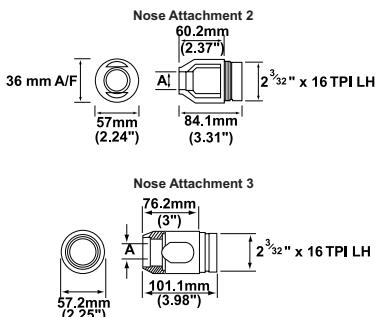
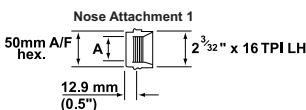
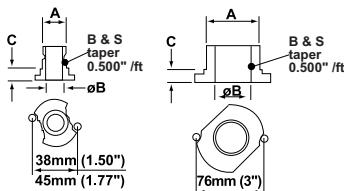
RFD-100 / RFDT-125

ACCESSORIES INCLUDED

| | PART NO. |
|--|----------|
| RFD | RFDT |
| • Chuck with key capacity 13mm (1/2") | 29142 |
| • Extended Nose (1" x 14 TPI LH nose thread) | 251043 |
| • Bayonet Plate – 45mm (1.77") centres | 251063 |
| • Bayonet Plate – 76mm (2.99") centres | 35323 |

OPTIONAL ACCESSORIES

| | PART NO. |
|-------------|----------|
| RFD | |
| • Chuck Key | 29242 |

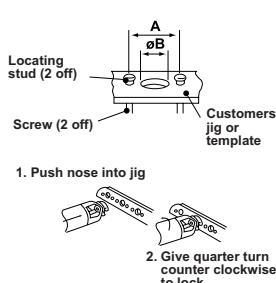


Nose Attachments

| Nose type | To suit bayonet plate centres | Thread 'A' | PART NO. |
|-----------|-------------------------------|----------------------|----------|
| 1 | 38mm (1.50") | 3/4" x 16 TPI (LH) | 235773 |
| 2 | 38mm (1.50") | 3/4" x 16 TPI (LH) | 251033 |
| 2 | 45mm (1.77") | 1" x 14 TPI (LH) | 251043 |
| 3 | — | 1 1/4" x 12 TPI (LH) | 235213 |
| 3 | — | 1 1/2" x 12 TPI (LH) | 235223 |
| 3 | — | 2" x 16 TPI (LH) | 235343 |

Extension Tubes

| Nominal stroke available to drill | Length 'A' | PART NO. |
|-----------------------------------|-----------------|----------|
| 80mm / (3.15") | 170mm / (6.69") | 250923 |



Jig Plates

| Centres 'A' | PART NO. |
|---------------|----------|
| LOCATING STUD | SCREW |
| 38mm (1.50") | 17632 |
| 45mm (1.77") | 17632 |
| | 17642 |
| | 17642 |

For dimension 'ØB' please ask for details of our range of drill bushes.

Rack Feed Drills

- The Rack Feed Drill is a semi-fixture (nose mounted) portable drilling unit, utilising a manual feed through an integral "rack and pinion" mechanism to accommodate the approach drilling and retract cycles. This provides the user with complete control of the feed rate during drilling and allows the user to "feel" the feed rate required. Versatile and flexible, especially when drilling laminates and sandwich materials.
- RFD is suitable for drilling/reaming various materials used in the Aerospace industries e.g. Inconel, Titanium, Steel, Aluminium and Composites.
- A wide speed range from 60 rpm to 2800 rpm is available allowing the best speed to be selected to suit the application.
- RFD-100 provides 102mm (4") of adjustable working stroke length with a 13mm (1/2") chuck capacity.
- RFDT-125 provides 127mm (5") of adjustable working stroke length with a No. 2 Morse Taper drive spindle.
- Automatic motor start/stop – can be set to operate at any point within stroke setting for maximum economy of air.
- Various nose configurations can be provided.



RFD Selection

| DRILL DIA. | MATERIAL | | | |
|--------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|
| | Inconel | Titanium | Mild Steel | Aluminium |
| | Tool type - rpm | | | |
| 3mm 1/8" | RFD-330/500 RFDT-330/500 | RFD-500 RFDT-500 | RFD-2800 | RFD-2800 |
| 5mm 3/16" | RFD-140/330 RFDT-140/330 | RFD-330/500 RFDT-330/500 | RFD-1850 | RFD-2800 |
| 6mm 1/4" | RFD-140 RFDT-140 | RFD-140/330 RFDT-140/330 | RFD-800 RFDT-800 | RFD-1850 |
| 8mm 5/16" | RFD-140 RFDT-140 | RFD-140/330 RFDT-140/330 | RFD-800 RFDT-800 | RFD-800 RFDT-800 |
| 10mm 3/8" | RFD-85/140 RFDT-85/140 | RFD-140 RFT-140 | RFD-800 RFDT-800 | RFD-800 RFDT-800 |
| 13mm 1/2" | RFD-60/85 RFDT-60/85 | RFD-85/140 RFDT-85/140 | RFD-500 RFDT-500 | RFD-800 RFDT-800 |
| 16mm 5/8" | | RFD-85/140 RFDT-85/140 | RFD-330 RFDT-330 | RFD-800 RFDT-800 |
| 19mm 3/4" | | RFD-60/85 RFDT-60/85 | RFD-85/140 RFDT-85/140 | RFD-330/500 RFDT-330/500 |
| 25mm 1" | | | RFD-60/85 RFDT-60/85 | RFD-140/330 RFDT-140/330 |

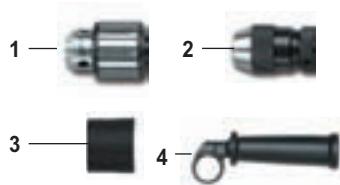
Use selection data as a guide only

| MODEL | PART NUMBER | FREE SPEED | MAX STROKE | | OUTPUT SPINDLE | WEIGHT | | AIR CONSUMPTION | | AIR INLET | HOSE INT. Ø | |
|--------------|-------------|------------|------------|----|----------------|--------|------|-----------------|-----|-----------|-------------|-----|
| | | | rpm | mm | | kg | lb | l/s | cfm | | in. | mm |
| RFD-100-2800 | 681214 | 2800 | 102 | 4 | | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-1850 | 681394 | 1850 | 102 | 4 | | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-800 | 680084 | 800 | 102 | 4 | Chuck | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-500 | 680164 | 500 | 102 | 4 | 13mm | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-330 | 680244 | 330 | 102 | 4 | 1/2" | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-140 | 1457364 | 140 | 102 | 4 | capacity | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-85 | 1457374 | 85 | 102 | 4 | | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFD-100-60 | 1457384 | 60 | 102 | 4 | | 3.9 | 8.6 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-800 | 1445654 | 800 | 127 | 5 | | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-500 | 1445664 | 500 | 127 | 5 | No. 2 | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-330 | 1445674 | 330 | 127 | 5 | Morse | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-140 | 1445504 | 140 | 127 | 5 | Taper | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-85 | 1445514 | 85 | 127 | 5 | | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |
| RFDT-125-60 | 1445524 | 60 | 127 | 5 | | 5.5 | 12.1 | 11.8 | 25 | 1/4 | 10 | 3/8 |

Accessories for Pistol & Straight Grip Drills

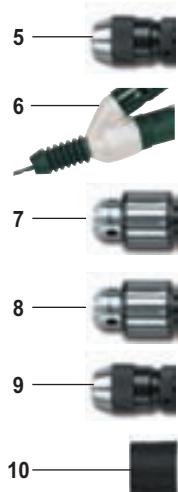
DR350-P... / DR500-P... / DR750-P...

ACCESSORIES INCLUDED



| ITEM | DR350-P...C8 | DR350-P...C10 | DR350-P...K8 |
|--|----------------|----------------|----------------|
| 1 Chuck threaded 3/8" UNF - cap. 8mm (5/16") (with key) | 205 053 013 3 | 205 052 954 3 | |
| 1 Chuck threaded 3/8" UNF - cap. 10mm (3/8") (with key) | | | |
| 1 Chuck threaded 3/8" UNF - cap. 13mm (1/2") (with key) | 410213 | 29232 | 473113 |
| • Chuck Key | | | 29242 |
| 2 Keyless Chuck threaded 3/8" UNF - cap. 8mm (5/16") (for K8 model) | | | 473433 |
| 2 Keyless Chuck threaded 3/8" UNF - cap. 10mm (3/8") (for K10 model) | | | 473423 |
| 3 Chuck Guard (for DR350-P...C8) | 205 049 275 3 | | |
| 3 Chuck Guard (for DR500-P...C8) | 205 049 486 3 | | |
| 3 Chuck Guard (for DR750-P...C8 & C10) | 473143 | 473133 | |
| 4 Side Handle *supplied with the DR350-P550..& DR350-P1000.. | 205 049 446 3* | 205 049 446 3* | 205 049 446 3* |
| 4 Side handle *supplied with DR500-P400 to P1800 | | 205 053 102 3* | 205 053 102 3* |
| 4 Side handle (for DR750-P...) | 473173 | 473173 | 473173 |
| • Suspension Bail (for DR750-P...) | 473153 | 473153 | 473153 |

OPTIONAL ACCESSORIES



| ITEM | DR350-P... | DR500-P... | DR750-P... | DR750-JT1 MOUNT | DR750-JT2 MOUNT |
|--|---------------|---------------|----------------|-----------------|-----------------|
| • Sleeve - JT1 female to JT2 male | | | | 12243 | |
| 4 Side Handle | 205 049 446 3 | 205 053 102 3 | | | |
| 5 Keyless Chuck threaded 3/8"UNF - cap. 8mm (5/16") | 473433 | 473433 | 473433 | | |
| 5 Keyless Chuck threaded 3/8"UNF - cap. 10mm (3/8") | | 473423 | 473423 | | |
| 5 Keyless Chuck threaded 3/8"UNF - cap. 13mm (1/2") | | | 205 047 819 3 | | |
| 6 Dust extraction kit (*for DR750-P...C8 & C10) | 205 050 218 3 | | 205 047 503 3* | | |
| 7 Chuck threaded 3/8"UNF - cap.10mm (3/8") (with key) | | | 31132 | | |
| • Chuck key | | | 29232 | | |
| • Flat wrench, 12.7mm (1/2") | | | 15533 | | |
| 8 Chuck with key (29182) - cap. 6.5mm (1/4") | | | 29492 | | |
| 8 Chuck with key (29232) - cap. 10mm (3/8") | | | 29042 | 34752 | |
| 8 Chuck with key (29232) - cap. 13mm (1/2") | | | | 34332 | |
| 9 Keyless Chuck - cap. 6.5mm (1/4") | | | 524.09 | | |
| 9 Keyless Chuck - cap. 10mm (3/8") | | | 524.15 | 524.10 | |
| 9 Keyless Chuck - cap. 13mm (1/2") | | | | 524.16 | |
| 9 Keyless Chuck - cap. 16mm (5/8") | | | | | |
| 10 Chuck Guard - use with chuck with key - cap. 6.5mm (1/4") | | | 473143 | | |
| 10 Chuck Guard - use with chuck with key - cap. 10mm (3/8") | | | | 473133 | |
| • No. 2 Morse Taper Spindle | | | | | 34862 |

DR300-T...

ACCESSORIES INCLUDED



| ITEM | DR300-T...C8 | DR300-T...C10 |
|--|---------------|---------------|
| 1 Short lever | 205 050 299 3 | 205 050 299 3 |
| 2 Safety lever | 205 050 288 3 | 205 050 288 3 |
| 3 Inlet button with lever recess plugs | 205 050 453 3 | 205 050 453 3 |
| 4 Chuck threaded 3/8"UNF - cap. 8mm (5/16") (with key) | 205 053 013 3 | |
| 4 Chuck threaded 3/8"UNF - cap. 10mm (3/8") (with key) | | 205 052 654 3 |
| • Chuck key | 410213 | 29232 |
| 5 Chuck Guard | 205 049 275 3 | |
| • Exhaust hose (with clamp ring) | 205 051 259 3 | 205 051 259 3 |
| 6 Side handle | | 205 049 446 3 |

OPTIONAL ACCESSORIES

| ITEM | DR300-T...C8 | DR300-T...C10 |
|---|---------------|---------------|
| 7 Keyless Chuck threaded 3/8"UNF - cap. 8mm (5/16") | 473433 | 473433 |
| 8 Dust extraction kit | 205 050 218 3 | |
| 9 Suspension Bail (for vertical tool suspension) | 39433 | 39433 |
| 6 Side handle | 205 049 446 3 | |

Accessories for Angle Drills

DR300-...-T5-90/-S5-90/-T6-90/-S6-90
DR300-...-T5-30/-45/-S5-30/-45
DR300-...-T5-360/-S5-360/-T6-360/-S6-360
D3141-S/-L / D3143-S/-L

ACCESSORIES INCLUDED



| ITEM | DR300-T5-90 DR300-T5-30/-45/-360 | DR300-T6-90 DR300-T6-360 | DR300-S5-90 DR300-S6-90/-360 | DR300-S5-90 DR300-S6-90/-360 | D3141-S D3141-L | D3143-S D3143-L |
|--|-------------------------------------|-----------------------------|---------------------------------|---------------------------------|--------------------|--------------------|
| • ø 4.8mm ($\frac{3}{16}$ ") capacity collet | 2552 | | | | | |
| • ø 6.4mm ($\frac{1}{4}$ ") capacity collet | | 19182 | | | | |
| • ø 8mm ($\frac{5}{16}$ ") capacity collet | | | | 2872 | | |
| 1 Chuck threaded $\frac{3}{8}$ " UNF - cap. 8mm ($\frac{5}{16}$ ") (with key) | | | | | 410203 | |
| 2 Short lever | 205 050 299 3 | 205 050 299 3 | 205 050 299 3 | 205 050 299 3 | 410303 | 410303 |
| 3 Standard lever | | | | | 305893 | 305893 |
| 4 Safety lever | 205 050 288 3 | 205 050 288 3 | 205 050 288 3 | 205 050 288 3 | | |
| 5 Inlet button with lever recess plugs | 205 050 454 3 | 205 050 454 3 | 205 050 454 3 | 205 050 454 3 | 205 050 454 3 | |
| • Exhaust hose with clamp ring | 205 050 746 3 | 205 050 746 3 | 205 050 746 3 | 205 050 746 3 | 205 050 746 3 | |
| • Chuck key | | | | | | 410213 |
| • Flat wrench 8.9.5mm | 268263 | | | | | |
| • Flat wrench 10mm | | 82623 | | | | |

OPTIONAL ACCESSORIES



| ITEM | DR300-T5-90 DR300-S6-90/-360 | DR300-T6-90/-360 DR300-S5-30/-45/-360 | DR300-S5-90 DR300-S5-30/-45/-360 | D3141-S D3141-L | D3143-2 D3143-L |
|-----------------------|---------------------------------|--|-------------------------------------|--------------------|--------------------|
| 6 Dust extraction kit | 94972 | | | | |
| 7 Side handle | 205 049 446 3 | 205 049 446 3 | 205 049 446 3 | 205 049 446 3 | |
| 8 Safety lever | | | | 323893 | 323893 |

| Collet capacity | DR300-T5-90 T5-30/-45/-360 | DR300-T6-90 T6-360 | D3141-S D3141-L | Collet capacity | DR300-T5-90 T5-30/-45/-360 | DR300-T6-90 T6-360 | D3141-S D3141-L |
|-------------------------------------|-------------------------------|-----------------------|--------------------|------------------------------|-------------------------------|-----------------------|--------------------|
| | A | B | C | | A | B | C |
| • ø 0.8mm | 2152 | | | • ø 3.9mm | 2462 | | |
| • ø 0.9mm | 2162 | | | • ø 4.0mm ($\frac{5}{32}$) | 2472 | 19052 | 2672 |
| • ø 1.0mm | 2172 | | | • ø 4.1mm | 2482 | | |
| • ø 1.1mm | 2182 | | | • ø 4.2mm | 2492 | 19062 | 2682 |
| • ø 1.2mm | 2192 | | | • ø 4.3mm | 2502 | | |
| • ø 1.3mm | 2202 | | | • ø 4.4mm | 2512 | 19072 | 2692 |
| • ø 1.4mm | 2212 | | | • ø 4.5mm | 2522 | | |
| • ø 1.5mm | 2222 | | | • ø 4.6mm | 2532 | 19082 | 2702 |
| • ø 1.6mm | 2232 | 18922 | | • ø 4.7mm | 2542 | | |
| • ø 1.7mm | 2242 | | | • ø 4.8mm ($\frac{3}{16}$) | 2552 | 19092 | 2712 |
| • ø 1.8mm | 2252 | 18932 | | • ø 4.9mm | 2562 | | |
| • ø 1.9mm | 2262 | | | • ø 5.0mm | 2572 | 19102 | 2722 |
| • ø 2.0mm | 2272 | 18942 | | • ø 5.2mm | | 19122 | 2732 |
| • ø 2.1mm | 2282 | | | • ø 5.4mm | | 19132 | 2742 |
| • ø 2.2mm | 2292 | 18952 | | • ø 5.6mm | | 19142 | 2752 |
| • ø 2.3mm | 2302 | | | • ø 5.8mm | | 19152 | 2762 |
| • ø 2.4mm ($\frac{3}{32}$) | 2312 | 18962 | 2592 | • ø 6.0mm | | 19162 | 2772 |
| • ø 2.5mm | 2322 | | | • ø 6.2mm | | 19172 | 2782 |
| • ø 2.6mm | 2332 | 18972 | 2602 | • ø 6.4mm ($\frac{1}{4}$) | | 19182 | 2792 |
| • ø 2.7mm | 2342 | | | • ø 6.6mm | | | 2802 |
| • ø 2.8mm | 2352 | 18982 | 2612 | • ø 6.8mm | | | 2812 |
| • ø 2.9mm | 2362 | | | • ø 7.0mm | | | 2822 |
| • ø 3.0mm | 2372 | 18992 | 2622 | • ø 7.2mm ($\frac{9}{32}$) | | | 2832 |
| • ø 3.1mm | 2382 | | | • ø 7.4mm | | | 2842 |
| • ø 3.2mm ($\frac{1}{8}$) | 2392 | 19002 | 2632 | • ø 7.6mm | | | 2852 |
| • ø 3.3mm | 2402 | | | • ø 7.8mm | | | 2862 |
| • ø 3.4mm | 2412 | 19022 | 2642 | • ø 8.0mm ($\frac{5}{16}$) | | | 2872 |
| • ø 3.5mm | 2422 | | | • ø $\frac{1}{16}$ " | 91442 | | |
| • ø 3.6mm | 2432 | 19032 | 2652 | • ø $\frac{3}{32}$ " | 91452 | | |
| • ø 3.7mm | 2442 | | | • ø $\frac{1}{8}$ " | 91462 | | |
| • ø 3.8mm | 2452 | 19042 | 2662 | • ø $\frac{5}{32}$ " | 91472 | | |
| A threaded $\frac{9}{32} \times 40$ | | | | • ø $\frac{3}{16}$ " | 91482 | | |

Accessories for Tappers

D16-S-... / D16-L-... / D16-P-... / 2F16-L-...



ACCESSORIES INCLUDED

| ITEM | PART NUMBER |
|---|-------------|
| 1 Chuck (Jacobs No. 1 taper) - cap. 6.5mm (1/4") (with key) | 29492 |
| 1 Chuck (Jacobs No. 1 taper) - cap. 10mm (3/8") (with key) | 29042 |
| • Chuck key | 29182 |
| 2 Precision collet tap holder (No. 1 taper) | 29462 |
| 3 Collet capacity M3.5 to M6 (9/64" to 1/4") | 29482 |
| 4 Exhaust hose (except D16-P-..) | 222453 |
| • Clamp | 235203 |
| | 222453 |
| | 235203 |
| | 235203 |

OPTIONAL ACCESSORIES

| ITEM | PART NO. |
|--|----------|
| 5 Lock off lever | 323893 |
| 6 Precision collet tap holder (with collet 29472) (1 JT) | 29452 |
| 7 Collet capacity M4 to M8 (5/32" to 5/16") | 29472 |
| 7 Collet capacity M3 to M7 (1/8" to 9/32") | 29482 |
| 7 Collet capacity M6 to M12 (15/64" to 15/32") | 97982 |
| 8 *Tap Holder (1 JT) | 69922 |
| 9 Quick Release Chuck | 16852 |
| 10 *Quick Release Tap Holder | 69872 |

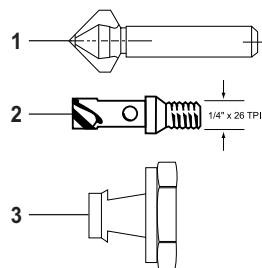
*Collets for Tap Holders:

| TAP SIZE | | | SHANK DIA | PART NO. |
|---|---------------|-------|-----------|----------|
| mm | in. | BA | mm | |
| • M2.2 & M2.5 | | 6 & 8 | 2.8 | 2612 |
| • M3 | 1/8" | 5 | 3.2 | 2632 |
| • M3.5 | | 4 | 3.6 | 2652 |
| • M4 | | | 4.0 | 2672 |
| • M4.5 | | 3 | 4.5 | 2702 |
| • M5 | 3/16" | 2 | 5.0 | 2722 |
| • M5.5 | 7/32" | 1 | 5.6 | 2752 |
| • M6 | 1/4" | 0 | 6.3 | 2792 |
| • M7 | 9/32" | | 7.1 | 2832 |
| • M8 & M11 | 5/16" & 7/16" | | 8.0 | 2872 |
| • M9 & M12 | 1/2" | | 9.0 | 69882 |
| • M10 | 3/8" | | 10.0 | 69892 |
| • *Wrench for Tap Holder collet nut | | | | 29443 |
| • *2mm A/F hexagon key for Tap Holder grub screws | | | | 206773 |

Accessories for Hole Deburring & Rivet Shaving

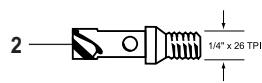
A27-A-... / C27-AX-... / D156-S-... / D156-P-...

ACCESSORIES INCLUDED



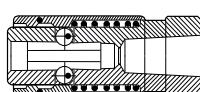
| ITEM | PART NO. | A27-A | C27-AX | D156-S | D156-P |
|---|---------------|--------|--------|--------|--------|
| • Ø 3mm capacity collet - 9/32" x 40 Threaded | 2372 | | | | |
| • Ø 4mm (5/32") capacity collet - 9/32" x 40 Threaded | 2472 | | | | |
| • Ø 6.4mm (1/4") capacity collet | 615 526 059 0 | | | | |
| 1 Cutter (90° point) - 5mm dia | 91752 | | | | |
| 1 Cutter (90° point) - 10mm dia | 91572 | | | | |
| 2 Cutter – carbide tipped (11.1mm 7/16" dia) | | | 70602 | 70602 | |
| 3 Cutter Guard | | | | 18822 | 18822 |
| • Air Hose (M5 x 1/8" BSP) – 4mm bore | 79322 | | | | |
| • Adaptor (1/8" BSP female to 1/8" NPT male) | 271463 | | | | |
| • Suspension Bail | 280903 | | 39433 | | |
| • Exhaust hose | 280913 | 222453 | 222453 | | |
| • Exhaust Hose Clip | | 235203 | 235203 | | |
| • Collet Nut Wrench | 82623 | 18583 | | | |
| • Collet Spindle Wrench | 268263 | 159003 | 15533 | 15533 | |
| • Cutter Guard Wrench | | | 38873 | 38873 | |
| • Bit stop | | | 322053 | | |

OPTIONAL ACCESSORIES



| ITEM | PART NO. | D156-S | D156-P |
|---|----------|--------|--------|
| • Suspension Bail | 39433 | | |
| • Offset exhaust silencer | 77722 | | |
| 2 Cutter – carbide tipped Ø6.4mm (Ø1/4") | 70572 | 70572 | |
| 2 Cutter – carbide tipped Ø7.9mm (Ø5/16") | 70582 | 70582 | |
| 2 Cutter – carbide tipped Ø9.5mm (Ø3/8") | 70592 | 70592 | |
| 2 Cutter – carbide tipped Ø12.7mm (Ø1/2") | 70622 | 70622 | |
| 3 Cutter Guard Ø6.4mm (Ø 1/4") | 18782 | 18782 | |
| 3 Cutter Guard Ø7.9mm (Ø 5/16") | 18792 | 18792 | |
| 3 Cutter Guard Ø9.5mm (Ø 3/8") | 18802 | 18802 | |
| 3 Cutter Guard Ø12.7mm (Ø 1/2") | 18832 | 18832 | |
| 3 Cutter Guard Ø14.3mm (Ø 9/16") | 18842 | 18842 | |

Drilling Accessories



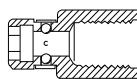
SCREWDRIVER BIT ADAPTOR

| TAPER | INSIDE HEX | NOTES | PART NO. |
|-------------|------------|---------------|----------|
| Jacobs No 1 | 5/16 Hex | Quick release | 27742 |
| Jacobs No 1 | 1/4" Hex | Quick release | 31102 |



TAPER ADAPTOR

| TAPER | TAPER | NOTES | PART NO. |
|-------------|-------------|-------|----------|
| Jacobs No 1 | Jacobs No 2 | | 12243 |



SCREWDRIVER BIT ADAPTOR

| INSIDE THREAD | TAPER/INSIDE HEX | NOTES | PART NO. |
|---------------|------------------|--------------------|---------------|
| 3/8" x 24 | 1/4" Hex E6.3 | Positive retention | 615 804 419 0 |

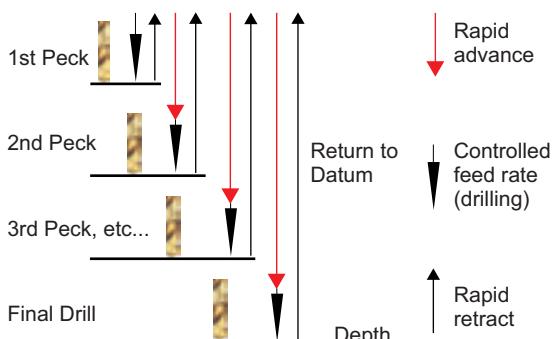
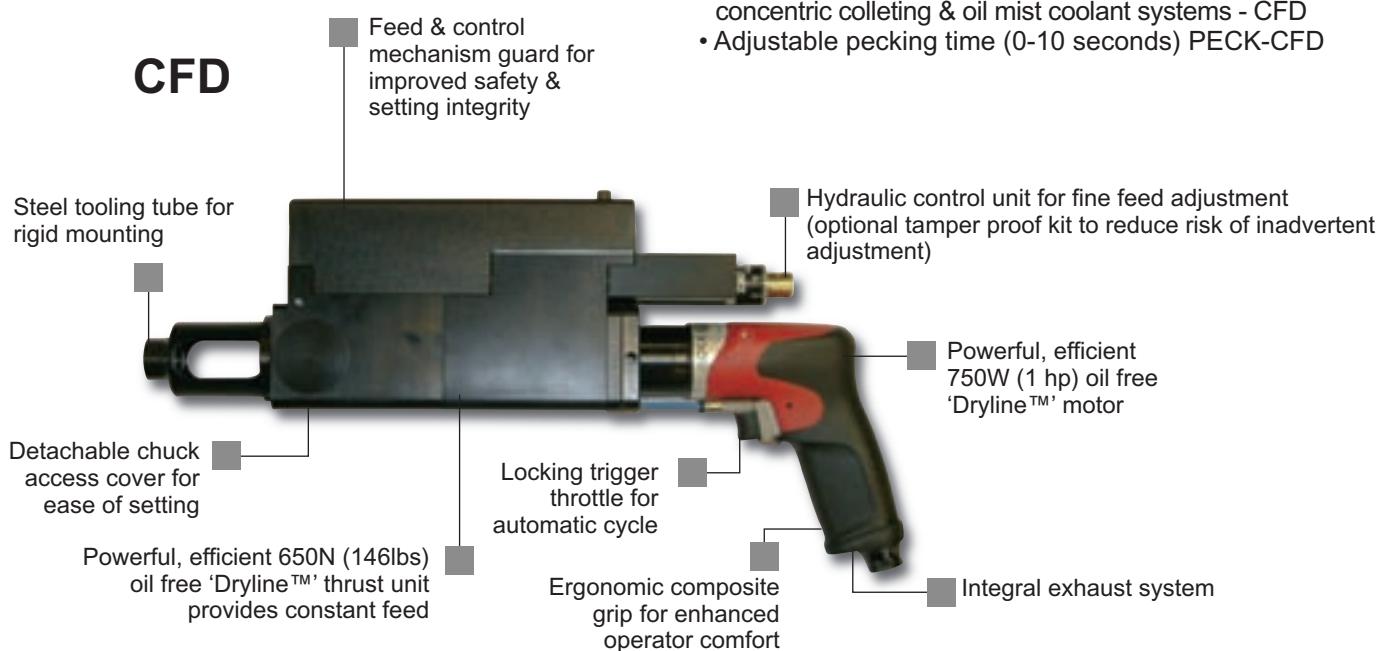
CFD - Portable Feed Drill &

PECK-CFD - Portable Peck Feed Drill

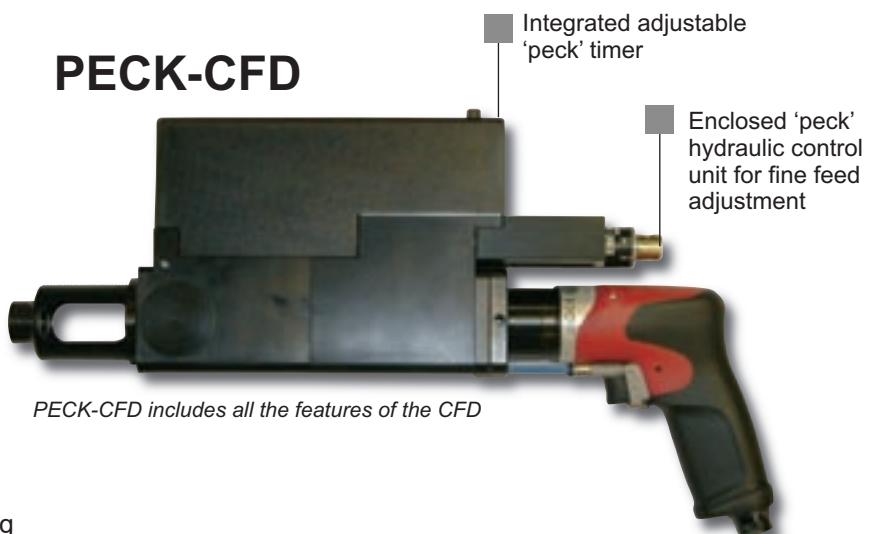
- These tools are designed to be fixture mounted and to produce high quality holes during the drilling process. Consequently, they provide optimum operator comfort and do not depend on the operator to exert the forces required for manual drilling.

Ergonomics & Operator Comfort

- High Power to Weight ratio
- Lightweight for ease of handling to fixture mount



PECK-CFD



PECK-CFD includes all the features of the CFD

Reliability and Servicing

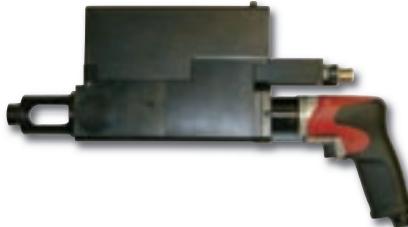
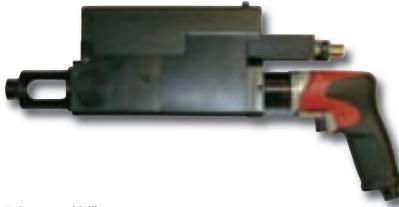
- Modular construction provides ease of servicing
- Minor and major service kits available to ensure a 'right first time' service

Portable Feed Drill

Drilling Speed Selection Guide

| FREE SPEED | TITANIUM | STAINLESS STEEL | SOFT CAST IRON MILD STEEL | ALUMINUM BRASS COPPER | COMPOSITE |
|------------|----------|---------------------------|------------------------------|------------------------------|-------------------------------|
| rpm | | 9-15 m/min 30-50 ft/min | 20-25 m/min 65-115 ft/min | 50-80 m/min 165-265 ft/min | 50-100 m/min 165-330 ft/min |
| Drill Ø | | | | | |
| 20000 | — | — | — | 2mm | 5/64" |
| 6000 | — | — | — | 4mm | 5/32" |
| 4100 | — | — | — | 6mm | 1/4" |
| 3300 | — | — | 3mm | 8mm | 5/16" |
| 2700 | — | — | 4mm | 10mm | 3/8" |
| 1300 | 2mm | 5/64" | 4mm | 9mm | — |
| 750 | 3mm | 1/8" | 7mm | 10mm | — |
| 400 | 3mm | 1/8" | 7mm | 10mm | — |

CFD - PECK-CFD



Max. working stroke 50mm (2")

| MODEL | FREE SPEED | STD. CHUCK SIZE | | MOTOR POWER | | DYNAMIC THRUST | | WEIGHT | | AIR FLOW | | AIR INLET | HOSE INT. Ø | | |
|------------------|-----------------------|-----------------|----|-------------|------|----------------|-----|--------|-----|----------|-----|-----------|-------------|----|-----|
| | | rpm | mm | in. | kW | Hp | N | lbf | kg | lb | l/s | cfm | BSP/NPT | mm | in. |
| CFD-DR750-P20000 | PECK-CFD-DR750-P20000 | 20000 | 8 | 5/16 | 0.75 | 1.00 | 650 | 146 | 4.5 | 9.90 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P6000 | PECK-CFD-DR750-P6000 | 6000 | 8 | 5/16 | 0.75 | 1.00 | 650 | 146 | 4.5 | 9.90 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P4100 | PECK-CFD-DR750-P4100 | 4100 | 8 | 5/16 | 0.75 | 1.00 | 650 | 146 | 4.5 | 9.90 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P3300 | PECK-CFD-DR750-P3300 | 3300 | 10 | 3/8 | 0.75 | 1.00 | 650 | 146 | 4.5 | 9.90 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P2700 | PECK-CFD-DR750-P2700 | 2700 | 10 | 3/8 | 0.75 | 1.00 | 650 | 146 | 4.5 | 9.90 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P1300 | PECK-CFD-DR750-P1300 | 1300 | 10 | 3/8 | 0.75 | 1.00 | 650 | 146 | 5.0 | 11.00 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P750 | PECK-CFD-DR750-P750 | 750 | 10 | 3/8 | 0.75 | 1.00 | 650 | 146 | 5.0 | 11.00 | 14 | 30 | 1/4 | 10 | 3/8 |
| CFD-DR750-P400 | PECK-CFD-DR750-P400 | 400 | 10 | 3/8 | 0.75 | 1.00 | 650 | 146 | 5.0 | 11.00 | 14 | 30 | 1/4 | 10 | 3/8 |

How to order...

Constant Feed Drill



Hydraulic Control Unit

| PART NUMBER | MODEL | FREE SPEED | STD. CHUCK SIZE |
|---------------|------------------|------------|-----------------|
| | | rpm | mm in |
| 205 147 221 4 | CFD-DR750-P20000 | 20000 | 8 5/16 |
| 205 147 220 4 | CFD-DR750-P6000 | 6000 | 8 5/16 |
| 205 147 219 4 | CFD-DR750-P4100 | 4100 | 8 5/16 |
| 205 147 218 4 | CFD-DR750-P3300 | 3300 | 10 3/8 |
| 205 147 217 4 | CFD-DR750-P2700 | 2700 | 10 3/8 |
| 205 147 216 4 | CFD-DR750-P1300 | 1300 | 10 3/8 |
| 205 147 215 4 | CFD-DR750-P750 | 750 | 10 3/8 |
| 205 147 214 4 | CFD-DR750-P400 | 400 | 10 3/8 |

Pt No. 91942 – 25mm (1") stroke
Pt No. 91952 – 50mm (2") stroke



For alternative chuck or collet spindle,
please select from accessories section.

Peck Feed Drill



Hydraulic Control Unit

| PART NUMBER | MODEL | FREE SPEED | STD. CHUCK SIZE |
|---------------|-----------------------|------------|-----------------|
| | | rpm | mm in |
| 205 147 367 4 | PECK-CFD-DR750-P20000 | 20000 | 8 5/16 |
| 205 147 366 4 | PECK-CFD-DR750-P6000 | 6000 | 8 5/16 |
| 205 147 365 4 | PECK-CFD-DR750-P4100 | 4100 | 8 5/16 |
| 205 147 364 4 | PECK-CFD-DR750-P3300 | 3300 | 10 3/8 |
| 205 147 363 4 | PECK-CFD-DR750-P2700 | 2700 | 10 3/8 |
| 205 147 362 4 | PECK-CFD-DR750-P1300 | 1300 | 10 3/8 |
| 205 147 361 4 | PECK-CFD-DR750-P750 | 750 | 10 3/8 |
| 205 147 360 4 | PECK-CFD-DR750-P400 | 400 | 10 3/8 |

Pt No. 91972 – 25mm (1") stroke
Pt No. 91982 – 50mm (2") stroke



For alternative chuck or collet spindle,
please select from accessories section.

Concentric Colleting System

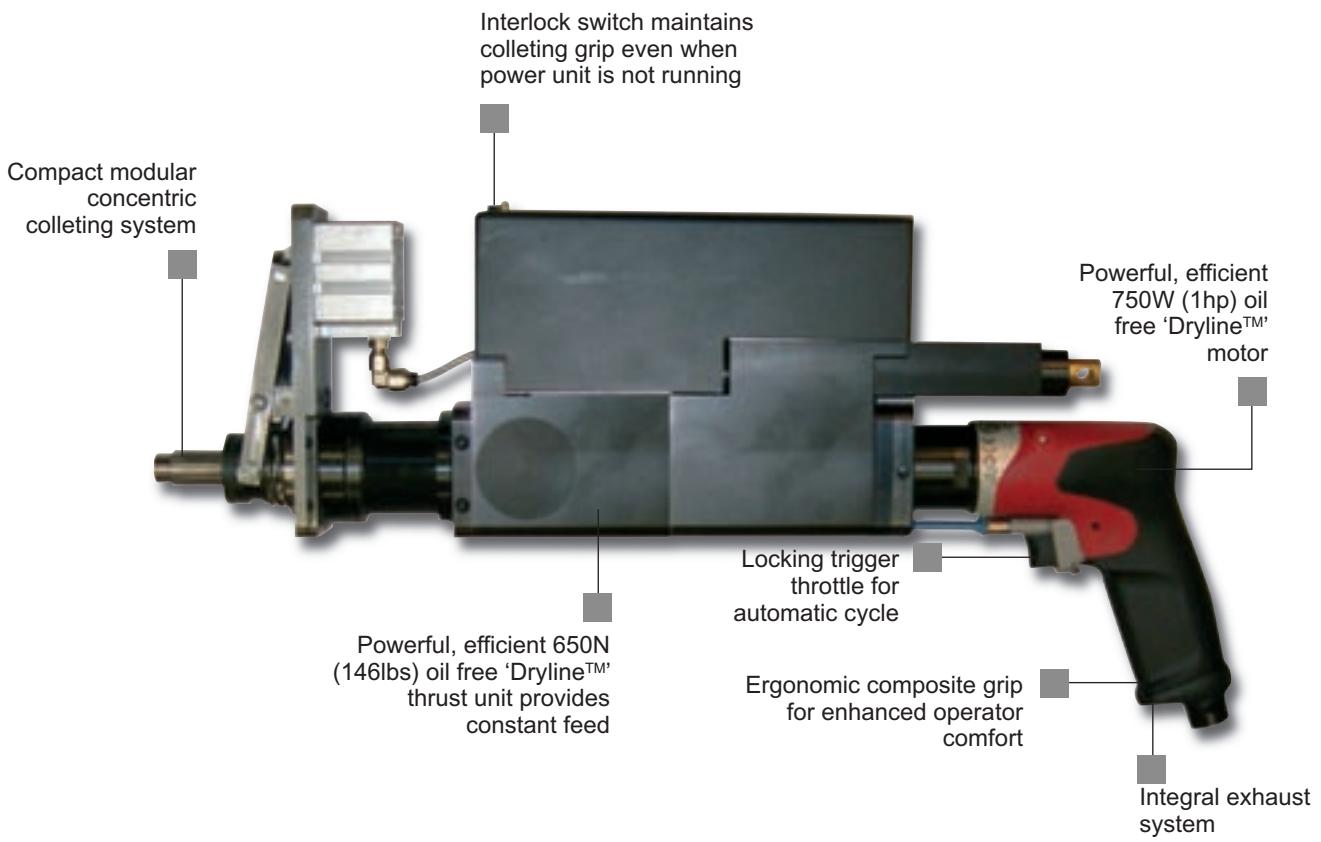
- Utilising our existing Constant Feed Drill & Peck Feed Drill designs we are now able to offer both units with the added benefit of Concentric Collet jig mounting

Ergonomics & Operator Comfort

- High Power to Weight ratio
- Simple to use system for ease of handling

Features

- All the great features of the Constant Feed Drill and Peck Feed Drill
- Virtually all popular sizes of colleting system can be accommodated
- Tailor made design & manufacture service available



Reliability & Servicing

- Modular construction provides ease of servicing
- Minor & major service kits available to ensure a 'right first time' service

Concentric Colletting System



How to order...

Constant Feed Drill

fitted with

Concentric collet
(refer to next page for specifications)



Hydraulic Control Unit

| MODEL | FREE SPEED rpm | STD. CHUCK SIZE | |
|------------------|-------------------|-----------------|------|
| | | mm | in |
| CFD-DR750-P20000 | 20000 | 8 | 5/16 |
| CFD-DR750-P6000 | 6000 | 8 | 5/16 |
| CFD-DR750-P4100 | 4100 | 8 | 5/16 |
| CFD-DR750-P3300 | 3300 | 10 | 3/8 |
| CFD-DR750-P2700 | 2700 | 10 | 3/8 |
| CFD-DR750-P1300 | 1300 | 10 | 3/8 |
| CFD-DR750-P750 | 750 | 10 | 3/8 |
| CFD-DR750-P400 | 400 | 10 | 3/8 |

Pt No. 91942 – 25mm (1") stroke
Pt No. 91952 – 50mm (2") stroke



How to order...

Peck Feed Drill

fitted with

Concentric collet
(refer to next page for specifications)



Hydraulic Control Unit

| MODEL | FREE SPEED rpm | STD. CHUCK SIZE | |
|-----------------------|-------------------|-----------------|------|
| | | mm | in |
| PECK-CFD-DR750-P20000 | 20000 | 8 | 5/16 |
| PECK-CFD-DR750-P6000 | 6000 | 8 | 5/16 |
| PECK-CFD-DR750-P4400 | 4100 | 8 | 5/16 |
| PECK-CFD-DR750-P3300 | 3300 | 10 | 3/8 |
| PECK-CFD-DR750-P2700 | 2700 | 10 | 3/8 |
| PECK-CFD-DR750-P1300 | 1300 | 10 | 3/8 |
| PECK-CFD-DR750-P750 | 750 | 10 | 3/8 |
| PECK-CFD-DR750-P400 | 400 | 10 | 3/8 |

Pt No. 91972 – 25mm (1") stroke
Pt No. 91982 – 50mm (2") stroke



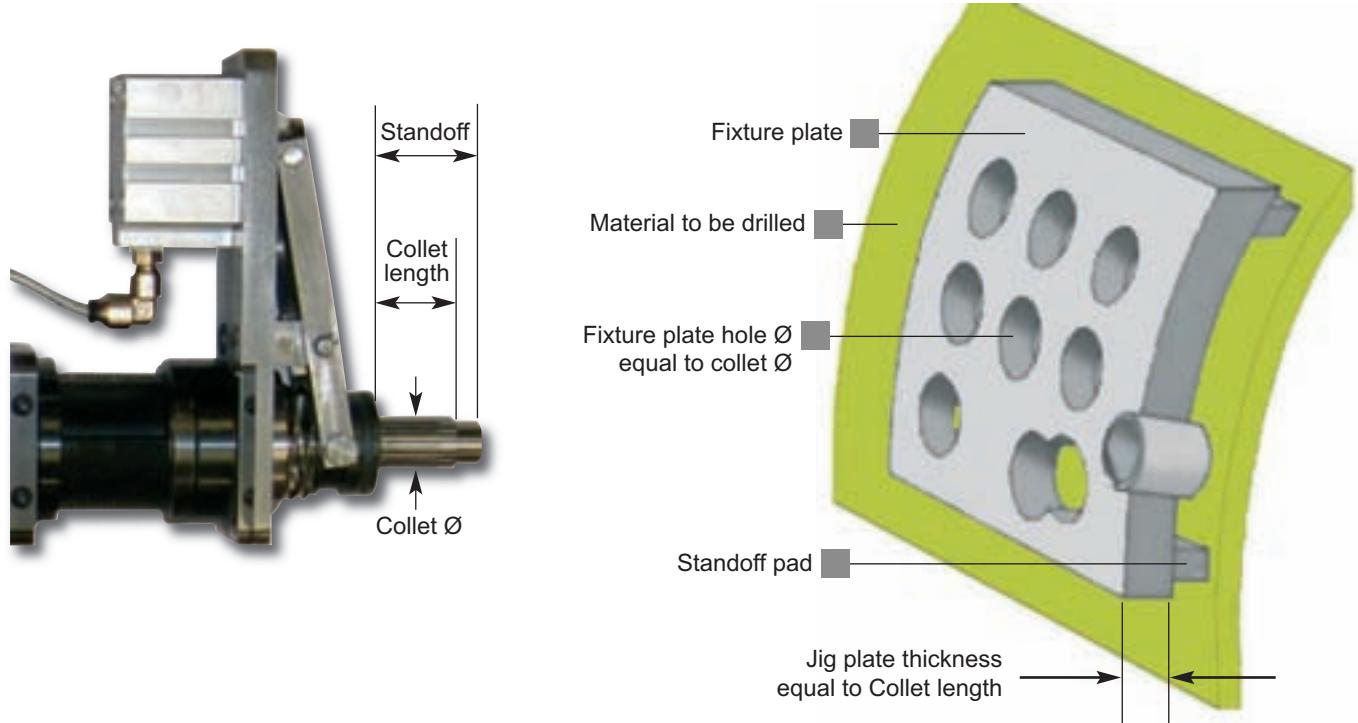
Concentric Colletting System

The Concentric Collet automatically clamps to the fixture plate when the drill cycle is initiated.

Once the drilling cycle is complete the concentric collet grip is retained until the interlock switch is depressed.

The feed drill can then be removed from the fixture plate and moved to the next drilling operation.

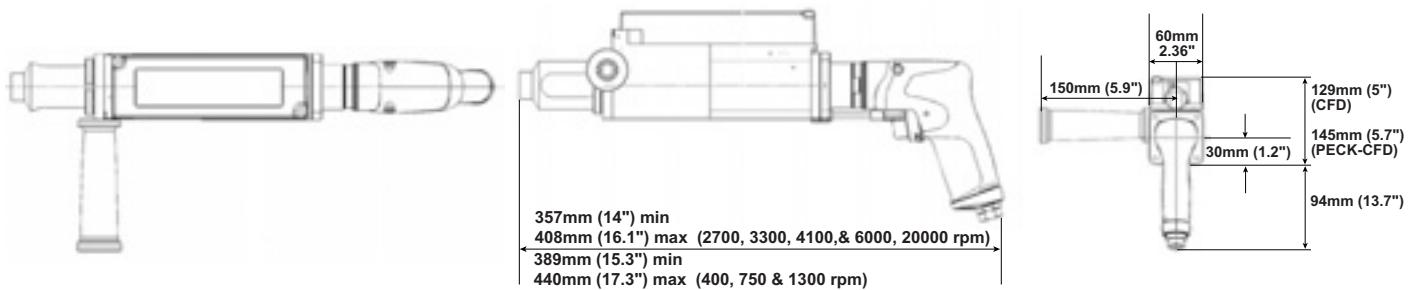
Typical Concentric Collet Tooling:



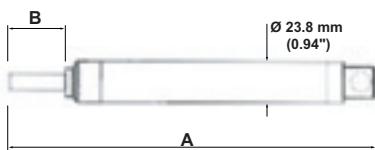
Data required to specify concentric collet :

- Collet diameter (max. Ø31.75mm / Ø1.25") _____
- Collet Length _____
- Standoff (jig plate thickness + standoff pad thickness) _____
- Hole diameter (max 10mm / 3/8") _____
- Max cutter body size _____
- Cutter length _____
- Thickness of material to be drilled (max <50mm / <2") _____
- Cutter type Drill _____
 - Combination Drill / Reamer _____
 - Combination Drill / Countersink _____
 - Other (please specify) _____

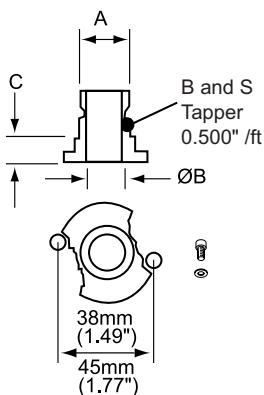
Accessories



Hydraulic Control Unit



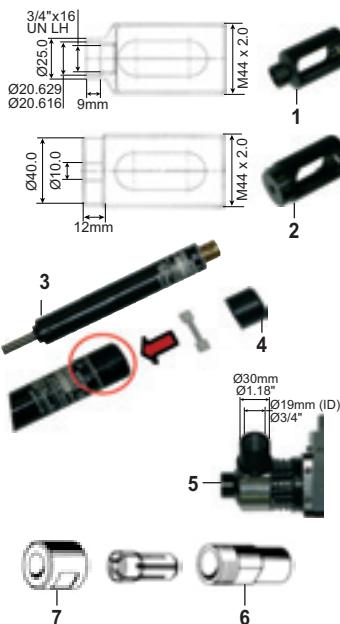
| MAX. STROKE | A | B | PART NO. | USED ON | | | |
|-------------|-----|-----|----------|---------|------|-------|----------|
| mm | in. | mm | in. | | | | |
| 25 | 1 | 199 | 7.83 | 30.1 | 1.19 | 91942 | CFD |
| 50 | 2 | 276 | 10.9 | 55.5 | 2.19 | 91952 | CFD |
| 25 | 1 | 215 | 8.46 | 56.3 | 2.22 | 91972 | PECK-CFD |
| 50 | 2 | 292 | 11.50 | 81.7 | 3.22 | 91982 | PECK-CFD |



Bayonet plates

| A | Ø B | C | PART NO. |
|----------------------|----------------|--------------|----------|
| 3/4" x 16 TPI (LH) | 14.2mm (0.56") | 9.5mm (3/8") | 251053 |
| 1" x 14 TPI (LH) | 19.05mm (3/4") | 9.5mm (3/8") | 251063 |
| 1 1/8" x 20 TPI (LH) | 19.05mm (3/4") | 9.5mm (3/8") | 31113 |

CFD and PECK-CFD



ACCESSORIES INCLUDED

| ITEM | 20000, 6000 & 4100 rpm | 3300, 2700, 1300 750 & 400 rpm |
|--|------------------------|--------------------------------|
| • Chuck (without key) capacity 8mm - 5/16" | 410203 | |
| • Chuck Key | 410213 | |
| • Chuck with key capacity 10mm (3/8") | | 31132 |
| • Chuck Key | | 29232 |
| 1 Tooling Tube 3/4" - 16 UN LH thread | 469883 | 469883 |

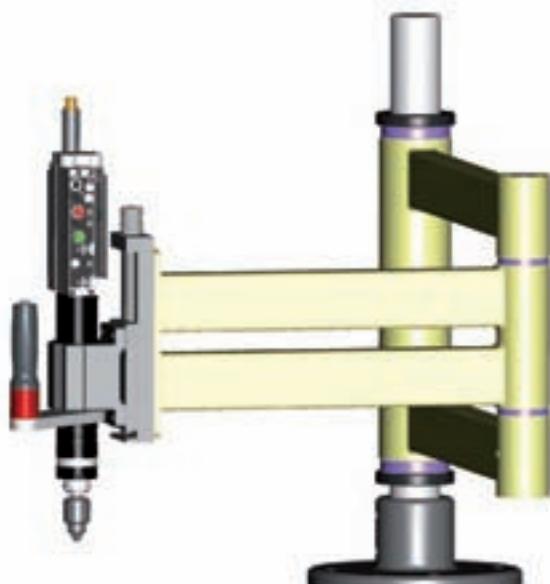
OPTIONAL ACCESSORIES

| ITEM | PART NO |
|--|---------------|
| 2 Tooling Tube blank (for local customisation) | 471873 |
| 3 Hydraulic Control Unit - 25mm (1") stroke (for use with CFD only) | 91942 |
| 3 Hydraulic Control Unit - 50mm (2") stroke (for use with CFD only) | 91952 |
| 3 Hydraulic Control Unit - 25mm (1") stroke (for use with PECK-CFD only) | 91972 |
| 3 Hydraulic Control Unit - 50mm (2") stroke (for use with PECK-CFD only) | 91982 |
| 4 Hydraulic Control Unit Tamper proof HCU cap | 110632 |
| 5 Dust Extraction kit | 205 047 954 3 |
| 6 Collet spindle | 615 523 023 0 |
| 7 Collet nut | 615 607 144 0 |
| • Collet capacity Ø 2.4mm to 3.2mm (1/8") | 615 526 061 0 |
| • Collet capacity Ø 5.2mm to 6mm (7/32") | 615 526 062 0 |
| • Collet capacity Ø 5.55mm to 6.35mm (1/4") | 615 526 063 0 |
| • Collet capacity Ø 7.2mm to 8mm (5/16") | 615 526 064 0 |
| • Collet capacity Ø 8.7mm to 9.5mm (3/8") | 615 526 065 0 |

Auto Feed Drills and Tappers

Ease of Incorporation into Machine or Process

- Extensive range of mounting clamps
- Control interfaces to link AFD(E) to other equipment (either pneumatic or electric)
- Single signal required for AFD(E) to perform cycle
- Output signals at datum and depth
- Electric motor mounting on 200, 400 and 600 series can be rotated to 180°



Comprehensive range of Product

- For single spindle operations to multi spindle processes
- Pneumatic and electric drive from 0.22kW to 1.1kW (0.3hp to 1.5hp) with thrusts from 320N to 1557N (72 to 350lbf)
- Reliability through quality



Modular Design

- Flexibility of unit function and speed
- Common components in different models reducing inventory
- Multiple spindle head options
- Drill and tapping options for all models

For further information
see the AFD catalogue

Electric drive / Pneumatic feed



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|---------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFDE200 | 0.25 | 0.34 | 320 | 72 | 850-11950 | 90 | 3.54 | Drill/Tapper |



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|---------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFDE400 | 0.37 | 0.50 | 724 | 163 | 330-1740 | 100 | 3.94 | Drill/Tapper |
| AFDE410 | 0.33 | 0.44 | 724 | 163 | 1740-11950 | 100 | 3.94 | Drill/Tapper |



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|---------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFDE610 | 0.75 | 1.00 | 1557 | 350 | 330-6300 | 100 | 3.94 | Drill/Tapper |
| AFDE620 | 1.10 | 1.47 | 1557 | 350 | 330-5250 | 100 | 3.94 | Drill/Tapper |

Electric drive / Leadscrew feed



| MODEL | MOTOR POWER | | TAPPING TORQUE | | FREE SPEED | WORKING STROKE | | FUNCTION |
|---------|-------------|------|----------------|---------|------------|----------------|------|----------|
| | kW | hp | Nm | lbf ins | | mm | in. | |
| AFTE480 | 0.75 | 1.00 | 4.4-35.8 | 39-317 | 180-1740 | 60 | 2.36 | Tapper |

Pneumatic drive / feed



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|--------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFD205 | 0.22 | 0.30 | 400 | 90 | 650-18700 | 50 | 1.97 | Drill/Tapper |



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|--------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFD215 | 0.22 | 0.30 | 400 | 90 | 650-18700 | 90 | 3.54 | Drill/Tapper |



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|--------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFD415 | 0.38 | 0.51 | 706 | 159 | 490-18000 | 100 | 3.94 | Drill/Tapper |



| MODEL | MOTOR POWER | | DYNAMIC THRUST | | FREE SPEED | WORKING STROKE | | FUNCTION |
|--------|-------------|------|----------------|-----|------------|----------------|------|--------------|
| | kW | hp | N | lbf | | mm | in. | |
| AFD625 | 0.66 | 0.85 | 1557 | 350 | 40-3300 | 100 | 3.94 | Drill/Tapper |

Air Motors

Advantages

Desoutter offers a wide range of rotating vane type air motors within a power range of 0.26 kW (0.35 hp) to 0.66 kW (0.85 hp). Most motors can be supplied as single rotation or reversible. Reversible motors have keyed shafts, while single direction motors can be supplied with threaded shafts or alternatives.



Air motors are versatile power sources which can be used to power many kinds of operations requiring a rotational drive. They have many advantages over electric motors, and often become the only feasible method of operation.

Compact, with high power to weight ratio, an air motor will often be one third or less than the size of a comparable electric motor. An air motor can be used in a portable application where the weight and/or physical size of the electric motor would preclude portable operations. For example, a 0.63 kW (0.85 hp) air motor running at 2000 rpm weighs 1.4 kg (3 lbs) and is approximately 200mm (8") long and just over 50mm (2") in diameter.

The output speed and torque can be simply controlled by regulating either the air pressure or air flow. No expensive control equipment is required.

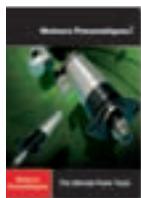
If a motor is loaded to a stalled condition, and held there for any length of time, no damage is caused to the motor. In certain applications, such as tightening fasteners, one acceptable method of control is to regulate the air pressure so that the motor stalls at the required torque.

When the load is released, the air motor will reach free running speed usually within one third to one half of a revolution.

No risk of overheating either when continuously run or frequent stop/start or reversing. Note that this condition assumes the use of an inline lubrication system.

Reversing motors require simple control of air pressure into ports in the control top of the motor to determine direction of rotation. To reverse the direction of rotation takes milliseconds to complete.

Resists moisture, dust, heat. Is generally explosion proof and can be used safely in most hazardous situations.



For further information
see the Air motors catalogue

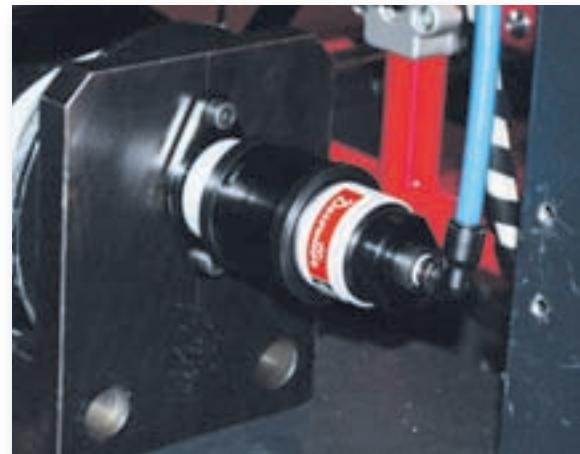
ATEX available
II 2G c IIC T6



DM6, DM65 Series
0.26 kW (0.35 hp)
Maximum Torque
8 Nm (5.9 lbf ft),
Non Reversible



2DM6 Series
0.26 kW (0.35 hp)
Maximum Torque
8 Nm (5.9 lbf ft),
Reversible



HM Series
0.45 kW (0.6 hp)
Maximum Torque 41 Nm (30 lbf ft),
Non Reversible



HM55 Series
0.63 kW (0.84 hp)
Maximum Torque 41 Nm (30 lbf ft),
Non Reversible



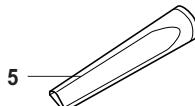
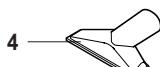
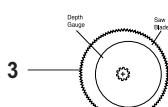
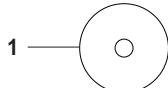
2HM5 Series
0.66 kW (0.85 hp)
Maximum Torque 41 Nm (30 lbf ft),
Reversible



2H410 Series
0.66 kW (0.85 hp)
Maximum Torque 102 Nm (78 lbf ft),
Worm Drive Motors

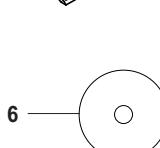
Accessories

D144-T-.. / S144-T-.. / D170-L / AV101



ACCESSORIES INCLUDED

| ITEM | APPLICATION | D144-T | S144-T | D170-L | AV101 |
|--|---------------------------|--------|--------|--------|-------|
| • Exhaust hose | | 222453 | | 222453 | |
| • Exhaust Hose Clip | | 235203 | | 235203 | |
| • Spindle Wrench | | 164433 | | 15533 | |
| • Clamp Nut Wrench | | 29443 | | | |
| • Guard Nut Wrench | | 29653 | | | |
| • Hex Key - 4mm (5/32") A/F | | 204903 | | 204903 | |
| 1 Saw Blade – diamond coated 64mm (2.5") dia. | Fibreglass | 32732 | | | |
| 1 Saw Blade – 80 teeth 45mm (1.77") dia. | Soft Steel <1.2mm (3/64") | | 76362 | | |
| 1 Saw Blade 64mm (2.5") dia. | Plastics | | 90762 | | |
| 1 Saw Blade – teflon coated 64mm (2.5") dia. | Plastics | | 90772 | | |
| 2 Saw Blade 50.8mm (2") radius x 50mm (1.97") wide | Soft Wood | | 90832 | | |
| 3 Depth Gauge | | | 27262 | | |
| 4 Upholstery Nozzle | | | | 106443 | |
| 5 Crevice Nozzle | | | | 106533 | |



OPTIONAL ACCESSORIES

| ITEM | APPLICATION | PART NO. D144-T | S144-T | D170-L |
|---|--|--------------------|--------|--------|
| 6 Saw Blade 64mm (2.5") dia. | Wood | 34252 | | |
| 6 Saw Blade 50mm (1.97") dia. | Soft Steel >1.2mm (3/64") max depth 7mm | 76372 | | |
| 6 Saw Blade 50mm (1.97") dia. | Hard Steel <1.2mm (3/64") max depth 10mm (3/8") | 76382 | | |
| 6 Saw Blade 50mm (1.97") dia. | Aluminium max depth 10mm (3/8") | 76392 | | |
| 7 Dust Extraction Hood includes 2m hose – 32mm (1.26") ID | | | 78472 | |
| 6 Saw Blade – diamond tipped 64mm (2.5") dia. | Fibreglass | | 16962 | |
| 6 Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 64mm (2.5") dia. | Fibreglass | | 90722 | |
| 6 Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 80mm (3.15") dia. | Fibreglass | | 90732 | |
| 6 Saw Blade – 1.5mm (0.06") tooth pitch 51mm (2") dia. | Soft Wood | | 90782 | |
| 6 Saw Blade – 1.8mm (0.07") tooth pitch 64mm (2.5") dia. | Soft Wood | | 90792 | |
| 6 Saw Blade – 1.5mm (0.06") tooth pitch 76mm (3") dia. | Soft Wood | | 90802 | |
| 8 Saw Blade 22mm (0.87") radius x 15mm (19/32") wide | Soft Wood | | 90822 | |
| 9 Saw Blade 63.5mm (2.5") dia. 60mm (2.36") + 16mm (5/8") segments | Soft Wood | | 90842 | |

Miscellaneous



A



B



C



D



E

| PIC REF | MODEL | PART NUMBER | FREE SPEED | OSCILLATING FREQUENCY | BLADE Ø | WEIGHT | LENGTH | AIR CONSUMPTION | AIR INLET THREAD | HOSE INT. Ø | | | | | |
|---|-------------|-------------|------------|-----------------------|---------|--------|--------|-----------------|------------------|-------------|-----|------|------------|----|------|
| | | | rpm | c/min | mm | in. | kg | lb. | mm | in. | l/s | cfm | in. | mm | in. |
| FIBREGLASS SAW - capacity 13mm (1/2") depth | | | | | | | | | | | | | | | |
| A | D144-T-3300 | 1273234 | 3300 | | 64 | 2.5 | 0.9 | 2.0 | 229 | 9.01 | 9.4 | 19.9 | 1/4 BSP | 10 | 3/8 |
| CIRCULAR SAW - capacity 10mm (3/8") depth (hard steel 1.2mm (3/64") depth) | | | | | | | | | | | | | | | |
| B | S144-T-3100 | 936974 | 3100 | | 45 | 1.77 | 1.4 | 3.1 | 245 | 9.65 | 9.4 | 19.9 | 1/4 BSP | 10 | 3/8 |
| OSCILLATING SAW | | | | | | | | | | | | | | | |
| C | D170-L | 1261574 | | 19000 | 80 | 3.2 | 0.9 | 2.0 | 287 | 11.30 | 9.3 | 19.7 | 1/4 BSP | 10 | 3/8 |
| VACUUM CLEANER | | | | | | | | | | | | | | | |
| D | AV101 | 128534 | | | | | 0.7 | 1.54 | 202 | 7.95 | 5.9 | 12.5 | 1/4 BSP | 6 | 1/4 |
| VACUUM PEN | | | | | | | | | | | | | | | |
| E | V100 | 129504 | | | | | 0.45 | 0.99 | 137 | 5.39 | 0.7 | 0.33 | 3.6 Spline | 4 | 5/32 |



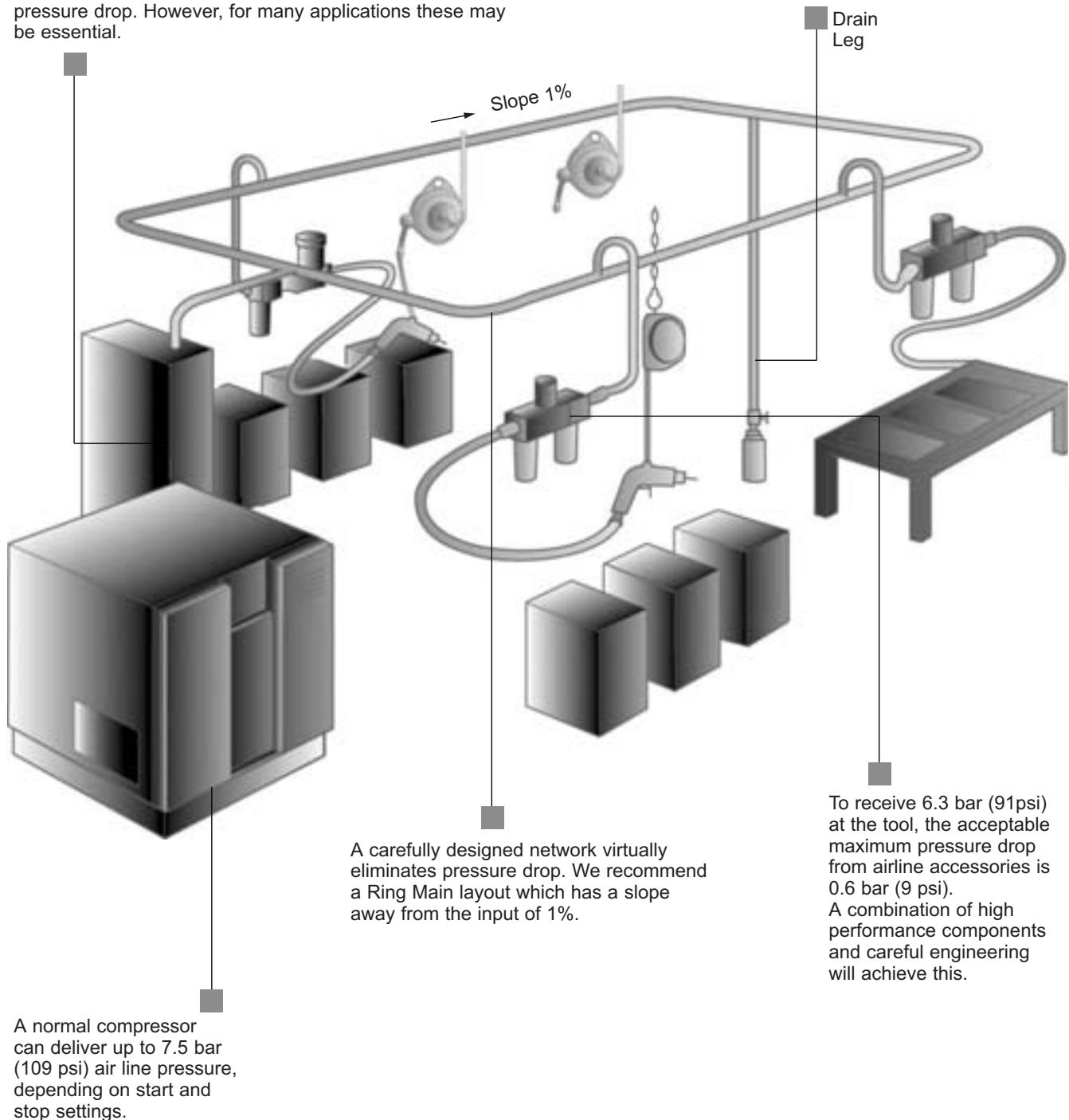
Desoutter



Air Line Network



Air dryers and filters can cause a 0.2 - 0.3 bar (3-4 psi) pressure drop. However, for many applications these may be essential.





Filter, Regulator and Lubricator

Why do you need an FRL?

Air filter

Filter separates impurities such as water and solid particles.

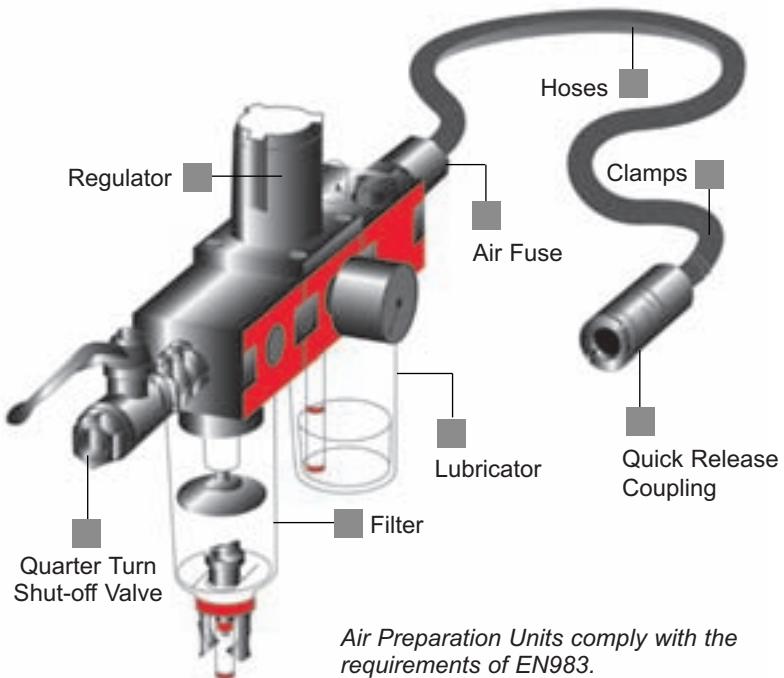
Not using filters in combination with air tools leads to shorter service life, higher maintenance costs and lower efficiency. Old air systems with cool dryers, for instance, generate a lot of rust and running tools without installing a filter could damage the tool in less than a week.

Desoutter filters separate up to 98% of the water when operating within their working range. All three types (Small, Medium and Big) are very low pressure drop.

Air pressure regulators

The regulator ensures that the pre-set working pressure remains constant - regardless of pressure variations in the intake air and minor variations in the airflow rate. For example, a pressure of 1 bar higher than necessary results in a 16% increase in air consumption.

Spring controlled regulators are quick acting and therefore should be used for all types of air tools.



Air Preparation Units comply with the requirements of EN983.

| TOOL PRESSURE | AIR CONSUMPTION |
|-----------------|-----------------|
| 6.3 bar (91psi) | 100% |
| 7 bar (101psi) | 110% |
| 8 bar (116psi) | 125% |

Lubricators

If lubricators are not used, tool motor vanes will need to be changed more often. The life of the vanes may decrease to as little as 1/10th of the normal working time. The oil fog lubricator is the most common type of lubricator. It supplies drops of oil to the air hose.

| DIFFERENT TYPES OF FRL: | PORT SIZE IN. | AIR FLOWS AT 6 BARS L/S l/s (CFM) |
|-------------------------|---------------|-----------------------------------|
| Small units | 1/4 | Up to 9 (19) |
| | 3/8 | Up to 14 (29.7) |
| Medium units | 1/2 | Up to 37 (78.4) |
| Big units | 1 | Up to 83 (175.9) |



When to choose a small unit?

Small units are suitable for most assembly tools, percussive tools, drills, nibblers, saw and small grinders.

Filter, Regulator and Lubricator



| PIC REF | DESCRIPTION | PORT SIZE G | RECOMMENDED FLOW AT 6.3 BAR - l/s (cfm) | MAX OPERATING PRESSURE (BAR) | PART NO. |
|--|---|-------------|---|------------------------------|----------|
| FILTER | | | | | |
| A | FILTER SEMI AUTO DRAIN 3/8" | 3/8" | 14 (29.7) | 16 | 109272 |
| A | FILTER SEMI AUTO DRAIN 1/2" BOWL GUARD ⁽¹⁾ | 1/2" | 31 (65.7) | 16 | 109182 |
| LUBRICATORS | | | | | |
| B | OIL FOG LUBRICATOR 1/4" | 1/4" | 9 (19.0) | 16 | 109072 |
| B | OIL FOG LUBRICATOR 3/8" | 3/8" | 14 (29.7) | 16 | 109132 |
| B | OIL FOG LUBRICATOR 1/2" | 1/2" | 12 (25.4) | 16 | 109202 |
| REGULATORS | | | | | |
| C | REGULATOR 1/4" | 1/4" | 9 (19.0) | 16 | 109062 |
| C | REGULATOR 3/8" | 3/8" | 14 (29.7) | 16 | 109122 |
| C | REGULATOR 1/2" | 1/2" | 32 (69.8) | 16 | 109192 |
| FILTER-REGULATOR UNITS | | | | | |
| D | FILTER-REGULATOR SEMI AUTO DRAIN 3/8" | 3/8" | 9 (19.0) | 16 | 109142 |
| D | FILTER-REGULATOR SEMI AUTO DRAIN 1/2" | 1/2" | 14 (29.7) | 16 | 109232 |
| D | FILTER-REGULATOR SEMI AUTO DRAIN 1/2" BOWL GUARD ⁽¹⁾ | 1/2" | 32 (69.8) | 16 | 109222 |
| FILTER REGULATOR LUBRICATOR 2 STAGE UNITS | | | | | |
| E | FILTER-REG. LURICA SEMI AUTO 1/4" | 1/4" | 9 (19.0) | 16 | 109082 |
| E | FILTER-REG. LURICA SEMI AUTO 3/8" | 3/8" | 14 (29.7) | 16 | 109152 |
| E | FILTER-REG. LURICA SEMI AUTO 1/2" | 1/2" | 37 (78.4) | 16 | 109242 |
| E | FILTER-REG. LURICA SEMI AUTO 1" | 1" | 83 (175.9) | 10 | 109292 |
| E | FILTER-REG. LURICA MANUAL 1/4" | 1/4" | 9 (19.0) | 16 | 109092 |
| E | FILTER-REG. LURICA SEMI AUTO 3/8" ⁽¹⁾ | 3/8" | 14 (29.7) | 16 | 109162 |
| E | FILTER-REG. LURICA SEMI AUTO 1/2" ⁽¹⁾ | 1/2" | 37 (78.4) | 16 | 109252 |
| FILTER REGULATOR LUBRICATOR 3 STAGE UNITS | | | | | |
| F | FILTER REG. LURICA SEMI AUTO 1/2" | 1/2" | 37 (78.4) | 16 | 109262 |

(1) New drain valve & bowl



Accessories

PRESSURE GAUGE



| DESCRIPTION | BSP Size | Ø mm | MAX PRESSURE (BAR) | PART NO. |
|--------------------------|----------|------|--------------------|----------|
| Pressure gauge 1/8" 0-10 | 1/8" | 40 | 10 | 109352 |
| Pressure gauge 1/4" 0-10 | 1/4" | 50 | 10 | 109432 |
| Pressure gauge 1/4" 0-16 | 1/4" | 63 | 16 | 109482 |

FILTER ELEMENTS: replacement filter 5 or 30 m



| DESCRIPTION | FILTER ELEMENT | UNIT COMPATIBILITY | PART NO. |
|---------------------|----------------|--------------------|----------|
| Filter Element 5 MI | 5µm | 1/4" port | 109332 |
| Filter Element 30 M | 30µm | 1/4" port | 109342 |
| Filter Element 5 MI | 5µm | 3/8" & 1/2" port | 109362 |
| Filter Element 30 M | 30µm | 3/8" & 1/2" port | 109372 |
| Filter Element 5 MI | 5µm | 1" port | 109442 |
| Filter Element | 30µm | 1" port | 109452 |

ASSEMBLY / COUPLING KIT:



to connect 2 single units

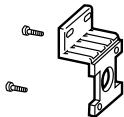
| DESCRIPTION | UNIT COMPATIBILITY | PART NO. |
|--------------------------|--------------------|----------|
| Assembly Kit 3/8" - 1/2" | for 3/8" & 1/2" | 109402 |
| Assembly Kit 1" | for 1" | 109472 |



METAL BOWL GUARD KIT : metal bowl to fit polycarbonate filter and lubricator (metal bowl are standard on 1" units)

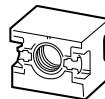
| DESCRIPTION | UNIT COMPATIBILITY | PART NO. |
|------------------|--------------------|----------|
| Metal Bowl Guard | for 3/8" & 1/4" | 109392 |

MOUNTING BRACKET KIT:



for mounting to a vertical surface

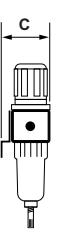
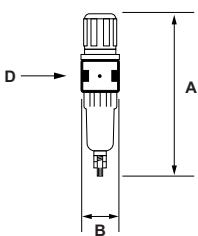
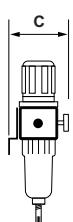
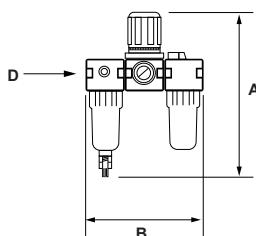
| DESCRIPTION | UNIT COMPATIBILITY | PART NO. |
|-----------------------|--------------------|----------|
| Mounting Bracket 1/4" | 1/4" port | 109322 |
| Mounting Bracket | 3/8" & 1/2" port | 109422 |
| Mounting Bracket | 1" port | 109462 |



PORTING BLOCK KIT:

to provide an additional port supplying non-lubricated air

| DESCRIPTION | UNIT COMPATIBILITY | PART NO. |
|-------------------|--------------------|----------|
| Porting Block Kit | 1/2" port | 109382 |



AIR LINE SERVICE EQUIPMENT

| DIMENSIONS | | C | | WEIGHT | | PART NO. | | |
|------------|------|-----|-----|--------|-----|----------|-----|--------------------------------|
| A | B | mm | in. | mm | in. | kg | lb | |
| 185 | 7.3 | 95 | 3.7 | 112.5 | 4.4 | 0.75 | 1.6 | 109082, 109092 |
| 253 | 9.9 | 127 | 5.0 | 125 | 4.9 | 1.50 | 3.3 | 109152, 109162, 109242, 109252 |
| 253 | 9.9 | 189 | 7.4 | 125 | 4.9 | 1.85 | 4.1 | 109262 |
| 313 | 12.3 | 180 | 7.1 | 141 | 5.5 | 4.40 | 9.7 | 109292 |

| DIMENSIONS | | C | | WEIGHT | | PART NO. | | |
|------------|------|-----|-------|--------|------|----------|--------|--------------------------------|
| A | B | mm | in. | mm | in. | kg | lb | |
| 92.5 | 3.6 | 50 | 2.0 | 77.5 | 3.0 | 0.30 | 0.7 | 109062 |
| 135.5 | 5.3 | 50 | 2.0 | 77.5 | 3.0 | 0.25 | 0.6 | 109072 |
| 139.5 | 5.5 | 50 | 2.6 | 77.5 | 3.0 | 0.25 | 0.6 | 109102 |
| 115 | 4.5 | 65 | 2.6 | 89 | 3.5 | 0.55 | 1.2 | 109122, 109192 |
| 177 | 9.9 | 65 | 2.6 | 89 | 3.5 | 0.55 | 1.2 | 109132, 109202 |
| 253 | 7.2 | 65 | 2.6 | 89 | 3.5 | 0.75 | 1.6 | 109142, 109222, 109232 |
| 185 | 13.5 | 65 | 2.6 | 89 | 3.5 | 0.55 | 1.2 | 109172, 109182, 109272, 109282 |
| 342.5 | 97 | 3.8 | 109.5 | 4.3 | 2.20 | 4.8 | 109302 | |

SPARE PARTS

| DESCRIPTION | UNIT COMPATIBILITY | MATERIAL | PART NO. |
|-------------------------------|--------------------|---------------|----------|
| Lubricator Bowl | 1/4" port | Polycarbonate | 111582 |
| Filter Bowl | 1/4" port | Polycarbonate | 111592 |
| Filter Bowl - Semi Auto Drain | 1/4" port | Polycarbonate | 111602 |
| O-Ring | 1/4" port | | 111622 |
| Lubricator Bowl | 3/8" & 1/2" port | Polycarbonate | 111632 |
| Filter Bowl | 3/8" & 1/2" port | Polycarbonate | 111642 |
| Filter Bowl - Semi Auto Drain | 3/8" & 1/2" port | Polycarbonate | 111652 |
| O-Ring | 3/8" & 1/2" port | | 111662 |

Hoses, Hose reels



Hoses should be chosen to meet the demands of the working environment, typically between 6 to 13mm (1/4" and 1/2"). The hoses should have a length of 3-5m (6 to 15feet) to ensure sufficient mobility at the workplace and limited pressure drop. PVC hoses are suitable for general applications, from simple grinding to heavy assembly. To avoid large pressure drops, the hose size should be increased by one size for a length of 5-10m (15 to 30feet), two sizes for a length of 20m (60feet), and three sizes for lengths of 20-40m (60 to 120feet).

HOSE RECOMMENDATIONS:

| DESCRIPTION | PVC | RUBBER | POLUR |
|------------------|--------|-----------|--------|
| Pliable | Good | Good | Good |
| Flexible | Good | Very good | Good |
| Indoor / outdoor | Indoor | In / out | Indoor |
| Spark resistant | Bad | Good | Bad |
| Rough treatment | Good | Very good | Good |

Hose Reels



CUSTOMER BENEFITS

- No hoses on the ground for improved safety
- From 1 to 10 / 15 or 16 meters hose lengths with feedback force for a clean work space
- Directional swivel-plate to help you correctly reach your application
- High airflow for maximum productivity
- Lightweight and flexible polyurethane hose to reduce operator fatigue
- Open Reels with rubber hose available for heavy-duty grinding/spark areas

APPLICATIONS

- Workshops and service stations in the automotive, truck, earthmoving and farming industry
- Industrial assembly lines
- Shipyards, Foundries



| PIC REF | MODEL | PART NUMBER | THREAD TYPE | CONNECTION | | LENGTH | | Ø INTERNAL | FLUID | HOSE MATERIAL | INLET | WEIGHT | | MAX PRESSURE | | AIR FLOW | | |
|------------|-------------------|----------------|----------------|------------|-----------|--------|------|---------------|-------|-----------------------------|--------------------------|---------------------------|------|-----------------|-----|-------------|-----|-------|
| | | | | IN (in.) | OUT (in.) | m | feet | | | | | kg | lbs. | Bar | PSI | l/s | Cfm | |
| A | HR S HOSE REEL | 615 804 5020 | BSP | 1/4 | 1/4 | 10 | 33 | 8 | 5/16 | Air | 100% Polyurethane | 1 m/3.3 feet lead-hose | 4.5 | 9.9 | 16 | 232 | 7 | 14.12 |
| | HRN S HOSE REEL | 615 804 5030 | NPT | 1/4 | 1/4 | 10 | 33 | 8 | 5/16 | Air | 100% Polyurethane | 1 m/3.3 feet lead-hose | 4.5 | 9.9 | 16 | 232 | 7 | 14.12 |
| B | HR M HOSE REEL | 615 804 5040 | BSP | 1/4 | 1/4 | 12 | 39 | 10 | 3/8 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 8.5 | 18.7 | 20 | 290 | 10 | 21.19 |
| | HRN M HOSE REEL | 615 804 5050 | NPT | 1/4 | 1/4 | 12 | 39 | 10 | 3/8 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 8.5 | 18.7 | 20 | 290 | 10 | 21.19 |
| C | HRO M HOSE REEL | 615 804 5060 | BSP | 1/4 | 1/4 | 16 | 52 | 10 | 3/8 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 11 | 24.3 | 20 | 290 | 8.5 | 17.65 |
| | HROR M HOSE REEL | 615 804 5100 | BSP | 3/8 | 3/8 | 15 | 49 | 10 | 3/8 | Air/Water (SBR+NR/SBR+EPDM) | Rubber (SBR+NR/SBR+EPDM) | 1.5 m/4.92 feet lead-hose | 11 | 24.3 | 20 | 290 | 8.5 | 17.65 |
| | HRNO M HOSE REEL | 615 804 5070 | NPT | 1/4 | 1/4 | 16 | 52 | 10 | 3/8 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 11 | 24.3 | 20 | 290 | 8.5 | 17.65 |
| | HRNOR M HOSE REEL | 615 804 5110 | NPT | 3/8 | 3/8 | 15 | 49 | 10 | 3/8 | Air/Water (SBR+NR/SBR+EPDM) | Rubber (SBR+NR/SBR+EPDM) | 1.5 m/4.92 feet lead-hose | 11 | 24.3 | 20 | 290 | 8.5 | 17.65 |
| D | HRO L HOSE REEL | 615 804 5080 | BSP | 3/8 | 3/8 | 16 | 52 | 13 | 1/2 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 14 | 30.9 | 20 | 290 | 16 | 33.55 |
| | HROR L HOSE REEL | 615 804 5120 | BSP | 3/8 | 3/8 | 15 | 49 | 13 | 1/2 | Air/Water (SBR+NR/SBR+EPDM) | Rubber (SBR+NR/SBR+EPDM) | 1.5 m/4.92 feet lead-hose | 14 | 30.9 | 20 | 290 | 16 | 33.55 |
| | HRNO L HOSE REEL | 615 804 5090 | NPT | 3/8 | 3/8 | 16 | 52 | 13 | 1/2 | Air | 100% Polyurethane | 1.5 m/4.92 feet lead-hose | 14 | 30.9 | 20 | 290 | 16 | 33.55 |
| | HRNOR L HOSE REEL | 615 804 5130 | NPT | 3/8 | 3/8 | 15 | 49 | 13 | 1/2 | Air/Water (SBR+NR/SBR+EPDM) | Rubber (SBR+NR/SBR+EPDM) | 1.5 m/4.92 feet lead-hose | 14 | 30.9 | 20 | 290 | 16 | 33.55 |



Hoses

Straight Hoses

Polyurethane braided hoses

Rolls with clear wrapping.
80 shore A "extreme-flexible" quality
20 bar (290PSI) on all sizes.



PUR BRAIDED HOSES

| DIMENSIONS (ID x OD) | | ROLL LENGTH (foil wrapped) | | PART NO. |
|----------------------|----------|----------------------------|-------|--------------|
| mm | in. | m | ft | |
| 6.5 x 10.0 mm | 1/4" ID | 25.00 | 83.25 | 615 804 6230 |
| 8.0 x 12.0 mm | 5/16" ID | 25.00 | 83.25 | 615 804 6240 |
| 9.5 x 13.0 mm | 3/8" ID | 25.00 | 83.25 | 615 804 6250 |
| 13.0 x 18.0 mm | 1/2" ID | 25.00 | 83.25 | 615 804 6260 |

Temperature range: -30 / +70°C / -22 / +158°F

Polyurethane braided hoses - Assembled sets

PUR quality -
Chromed thread
adaptors fitted on the hose
with pressed ferrules



PUR BRAIDED HOSES - ASSEMBLED SETS

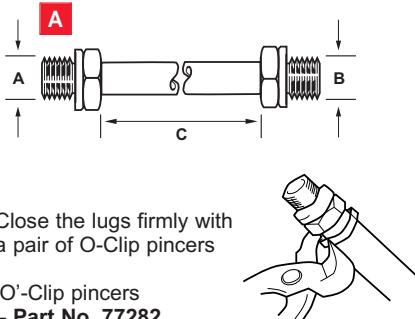
| DIMENSIONS (ID x OD) | | MALE THREAD | LENGTH (foil wrapped) | | PART NO. |
|----------------------|----------|-------------|-----------------------|-------|--------------|
| mm | in. | BSP | m | ft | |
| 6.5 x 10.0 mm | 1/4" ID | 1/4" | 8.00 | 26.64 | 615 804 6270 |
| 8.0 x 12.0 mm | 5/16" ID | 1/4" | 8.00 | 26.64 | 615 804 6280 |
| 9.5 x 13.0 mm | 3/8" ID | 1/4" | 8.00 | 26.64 | 615 804 6290 |
| 13.0 x 18.0 mm | 1/2" ID | 1/2" | 8.00 | 26.64 | 615 804 6300 |

Temperature range: -30 / +70°C / -22 / +158°F

PVC SELF ASSEMBLY HOSES

| DIMENSIONS (ID x OD) | | LENGTH | | WORKING PRESSURE | | PART NO. |
|----------------------|---------|------------------------|-----|------------------|--------|----------|
| mm | in. | bar | PSI | | | |
| 6 x 10.5 mm | 1/4" ID | Per Meter (1 pc = 1 m) | 18 | 261 | 271403 | |
| 10 x 14 mm | 3/8" ID | Per Meter (1 pc = 1 m) | 13 | 188 | 271413 | |
| 12 x 17 mm | 1/2" ID | Per Meter (1 pc = 1 m) | 11 | 160 | 271423 | |

Temperature range: -15 / +60°C / -5 / +140°C



RUBBER ALLOY (RUBBER/PVC) HOSES

| DIMENSIONS (ID x OD) | | LENGTH | | PART NO. |
|----------------------|---------|--------|----|----------|
| mm | in. | m | ft | |
| 10 x 18 mm | 3/8" ID | 30 | 98 | 111702 |
| 12.5 x 22 mm | 1/2" ID | 30 | 98 | 111722 |

When assembled with fittings, working pressure of 6.3 bar
Temperature range: -30 / +70°C / -22 / +158°F

PVC ASSEMBLED HOSES

| PIC REF | HOSE BORE | | HOSE OUTSIDE DIAMETER | | LENGTH C | | MALE THREADS | | WORKING PRESSURE (AT 20°C) (68°F) | | TEMPERATURE RANGE | | PART NO. |
|---------|-----------|------|-----------------------|-------|----------|-----|--------------|------|-----------------------------------|-----|-------------------|------------|----------|
| | mm | in. | mm | in. | metre | ft | A | B | bar | psi | °C | °F | |
| A | 5 | 3/16 | 7 | 9/32 | 2 | 6.5 | M5 | 1/8" | 6.3 | 91 | -15 to +50 | -5 to +122 | 79322 |
| | 5 | 3/16 | 8.5 | 11/32 | 2 | 6.5 | 1/8" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +122 | 75902 |
| | 5 | 3/16 | 8.5 | 11/32 | 3 | 10 | 1/8" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +122 | 75922 |
| | 6 | 1/4 | 8 | 5/16 | 3 | 10 | 1/4" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +122 | 75942 |
| | 6 | 1/4 | 8 | 5/16 | 5 | 16 | 1/4" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +122 | 75952 |
| | 10 | 3/8 | 14 | 9/16 | 3 | 10 | 1/4" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +140 | 75972 |
| | 10 | 3/8 | 14 | 9/16 | 5 | 16 | 1/4" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +140 | 75982 |
| | 6 | 1/4 | 8 | 5/16 | 3 | 10 | 1/8" | 1/4" | 6.3 | 91 | -15 to +50 | -5 to +122 | 104552 |

Working pressure = 6.3 bar (91 PSI)

Hoses



Spiral hoses

The most usual way of using a small spiral hose is with a straight screwdriver together with a balancer. Another way is to use a larger spiral hose with pistol grip tools. The need for couplings is dependent on whether or not the operator needs to change tool/air consumer.



PUR ASSEMBLED SPIRAL HOSES

| HOSE BORE DIAMETER | | WORKING LENGTH | | MALE THREADS | | PART NO. |
|--------------------|-------|----------------|-----|--------------|-----|----------|
| mm | in. | m | ft | A | B | |
| BSP | | | | | | |
| 6 | 1/4 | 1.5 | 5 | 1/8 | 1/4 | 99922 |
| 6 | 1/4 | 1.5 | 5 | 1/4 | 1/4 | 99932 |
| 6.5 | 1/4 | 2 | 6.5 | 1/4 | 1/4 | 96832 |
| 6.5 | 1/4 | 4 | 13 | 1/4 | 1/4 | 96852 |
| 6.5 | 1/4 | 3 | 10 | 1/4 | 1/4 | 98072 |
| 6.5 | 1/4 | 4 | 13 | 1/4 | 1/4 | 98082 |
| 8.5 | 11/32 | 5 | 16 | 1/4 | 1/4 | 98092 |
| 8.5 | 11/32 | 5 | 16 | 3/8 | 3/8 | 98102 |

Temperature range: -30 / +60°C / -22 / +140°F

PUR SPIRAL HOSES ASSEMBLIES

Assembled with Series 2009 ball type swivel fittings and kink protection.
98 shore A esther PUR raw material.

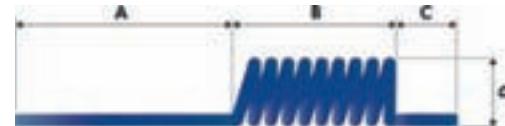


| HOSE DIMENSIONS (ID x OD) | | WORKING LENGTH | | CONNECTION | PART NO. |
|---|---------|----------------|------|------------|--------------|
| mm | in. | m | ft | BSP | |
| Sets complete with ball bearing type swivelling fittings and self-sealing O-rings | | | | | |
| 5.0 x 8 mm | 3/16 ID | 2 | 6.5 | 1/4" | 615 804 6310 |
| 5.0 x 8 mm | 3/16 ID | 4 | 13 | 1/4" | 615 804 6320 |
| 5.0 x 8 mm | 3/16 ID | 6 | 19.5 | 1/4" | 615 804 6330 |
| 5.0 x 8 mm | 3/16 ID | 8 | 26 | 1/4" | 615 804 6340 |
| 6.5 x 10mm | 1/4 ID | 2 | 6.5 | 1/4" | 615 804 6350 |
| 6.5 x 10mm | 1/4 ID | 4 | 13 | 1/4" | 615 804 6360 |
| 6.5 x 10mm | 1/4 ID | 6 | 19.5 | 1/4" | 615 804 6370 |
| 6.5 x 10mm | 1/4 ID | 8 | 26 | 1/4" | 615 804 6380 |
| 8.0 x 12mm | 5/16 ID | 2 | 6.5 | 3/8" | 615 804 6390 |
| 8.0 x 12mm | 5/16 ID | 4 | 13 | 3/8" | 615 804 6400 |
| 8.0 x 12mm | 5/16 ID | 6 | 19.5 | 3/8" | 615 804 6410 |
| 8.0 x 12mm | 5/16 ID | 8 | 26 | 3/8" | 615 804 6420 |

Sets complete with rigid fittings, flexible kink protection and self-sealing O-rings

| | | | | | |
|-------------|--------|---|------|------|--------------|
| 11.0 x 16mm | 1/2 ID | 2 | 6.5 | 3/8" | 615 804 6430 |
| 11.0 x 16mm | 1/2 ID | 4 | 13 | 3/8" | 615 804 6440 |
| 11.0 x 16mm | 1/2 ID | 6 | 19.5 | 3/8" | 615 804 6450 |
| 11.0 x 16mm | 1/2 ID | 8 | 26 | 3/8" | 615 804 6460 |

Temperature range: -30 / +60°C / -22 / +140°F



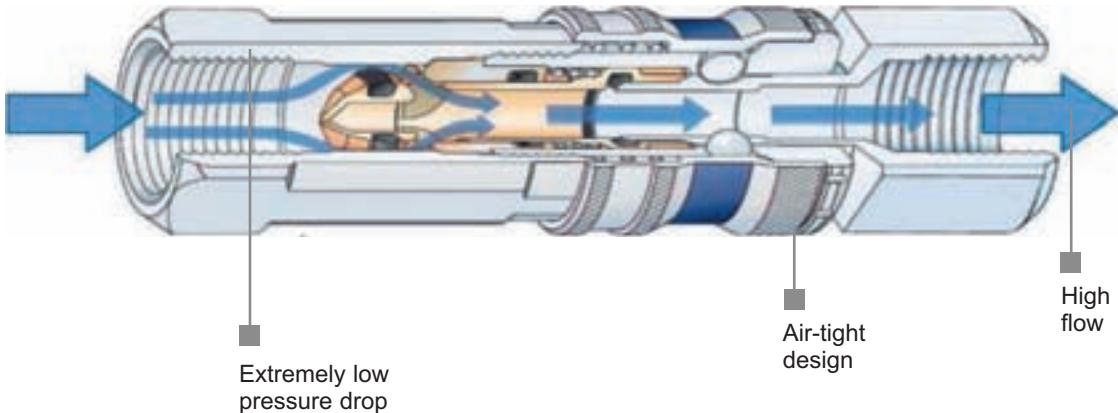
SELF ASSEMBLY SPIRAL HOSES

| HOSE BORE | | WORKING LENGTH | | DIMENSIONS | | | | PART NO. | |
|-----------|-------------|----------------|----|------------|------|-----|-----|----------|-----|
| mm | in. | m | ft | mm | in. | mm | in. | mm | in. |
| 8 x 12.0 | 5/16 x 0.47 | 2.5 | 8 | 500 | 19.7 | 180 | 7.1 | 100 | 3.9 |
| 8 x 12.0 | 5/16 x 0.47 | 5 | 16 | 500 | 19.7 | 390 | 15 | 100 | 3.9 |



Couplings and Nipples

Quick couplings (for minor to medium air flows)



The most common type of quick coupling used is a female body (coupling) and a male body (nipple). When pushed together, the balls and pins on the coupling and nipple interlock.

The couplings disconnect when an external sleeve is manually

operated. There are two types of quick couplings: two hand operated, where the sleeve must be pulled back and released at connection, and one hand operated, where the sleeve automatically releases at connection.

How to select the right coupling and nipple?

Look at the information on the tool
Example:

screwdriver SD140

Air flow: 8.7 l/s (18.4 cfm)

Air inlet: 1/4"

Hose int. Ø: 3/8" / 10mm

At the back of the tool it is recommended to have a hose nipple (see page 286) or an assembled hose with male thread.

Choose a hose with internal diameter of 3/8" / 10mm and 1/4" male thread.

Then at the other end of the hose, you'll select a nipple with air flow 35 l/s (74 cfm), profile ISO 6150B and 1/4" female thread.

The coupling will have the same profile to connect with the nipple and a male thread to fit on a 1/2" FRL unit, for instance.

Example :



Couplings and Nipples



Coupling

| | FITTING SIZE | | AIR FLOW AT 6 BAR (87 PSI) | | CONNECTION | PROFILE | TYPE | PART NO. |
|----------------------------|----------------|--------------|-------------------------------|----------|--------------------------|------------------------------|------|------------------------------|
| | In. | mm | l/s | cfm | | | | |
| Air Coupling Male Thread | 1/4" | 6 | 18 | 38 | Male | ISO 6150B (former US std) | BSPT | 615 804 6470 |
| | 1/4" | 6 | 18 | 38 | Male | ISO 6150B (former US std) | NPT | 615 804 6480 |
| | 1/4" | 6 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 8911 |
| | 1/4" | 6 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6490 |
| | 3/8" | 10 | 18 | 38 | Male | ISO 6150B (former US std) | BSPT | 615 804 6500 |
| | 3/8" | 10 | 18 | 38 | Male | ISO 6150B (former US std) | NPT | 615 804 6510 |
| | 3/8" | 10 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 8941 |
| | 3/8" | 10 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6520 |
| | 1/2" | 13 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 8971 |
| | 1/2" | 13 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6530 |
| Air Coupling Female Thread | 1/2" | 13 | 64 | 134 | Male | EURO STD 10.4 | BSPT | 909 201 0401 |
| | 1/4" | 6 | 18 | 38 | Female | ISO 6150B (former US std) | BSP | 615 804 6540 |
| | 1/4" | 6 | 18 | 38 | Female | ISO 6150B (former US std) | NPT | 615 804 6550 |
| | 1/4" | 6 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 8821 |
| | 1/4" | 6 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6560 |
| | 3/8" | 10 | 18 | 38 | Female | ISO 6150B (former US std) | BSP | 615 804 6570 |
| | 3/8" | 10 | 18 | 38 | Female | ISO 6150B (former US std) | NPT | 615 804 6580 |
| | 3/8" | 10 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 8861 |
| | 3/8" | 10 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6590 |
| | 1/2" | 13 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 8881 |
| Air Coupling Barbed | 1/2" | 13 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6600 |
| | 1/4" | 6 | 18 | 38 | Hose | ISO 6150B (former US std) | | 615 804 6610 |
| | 1/4" | 6 | 35 | 73 | Hose | EURO STD 7.6 | | 909 200 9181 |
| | 5/16 | 8 | 18 | 38 | Hose | ISO 6150B (former US std) | | 615 804 6620 |
| | 5/16 | 8 | 35 | 73 | Hose | EURO STD 7.6 | | 909 201 3091 |
| | 3/8" | 10 | 18 | 38 | Hose | EURO STD 7.6 | | 909 200 9931 |
| | 3/8" | 10 | 35 | 73 | Hose | EURO STD 7.6 | | 909 200 9211 |
| | 1/2" | 13 | 35 | 73 | Hose | EURO STD 7.6 | | 909 200 9241 |
| Air Coupling Barb & Nut | 6.5x10 8x12 | hose hose | 35 35 | 73 73 | Barb & Nut Barb & Nut | EURO STD 7.6 EURO STD 7.6 | | 909 201 0131 909 201 0161 |

Coupling picture reference refers to corresponding nipple profile

Nipples

| | FITTING SIZE | | AIR FLOW AT 6 BAR (87 PSI) | | CONNECTION | PROFILE | TYPE | PART NO. |
|--------------------------|--------------|----|-------------------------------|-----|------------|---------------------------|------|--------------|
| | In. | mm | l/s | cfm | | | | |
| Air Nipple Male Thread | 1/8" | 3 | 18 | 38 | Male | ISO 6150B (former US std) | BSPT | 909 200 9691 |
| | 1/8" | 3 | 18 | 38 | Male | ISO 6150B (former US std) | NPT | 615 804 6630 |
| | 1/8" | 3 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 201 3061 |
| | 1/8" | 3 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6640 |
| | 1/4" | 6 | 18 | 38 | Male | ISO 6150B (former US std) | BSPT | 909 200 9721 |
| | 1/4" | 6 | 18 | 38 | Male | ISO 6150B (former US std) | NPT | 615 804 6650 |
| | 1/4" | 6 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 9091 |
| | 1/4" | 6 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6660 |
| | 3/8" | 10 | 18 | 38 | Male | ISO 6150B (former US std) | BSPT | 909 200 9751 |
| | 3/8" | 10 | 18 | 38 | Male | ISO 6150B (former US std) | NPT | 615 804 6670 |
| Air Nipple Female Thread | 3/8" | 10 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 9121 |
| | 3/8" | 10 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6680 |
| | 3/8" | 10 | 64 | 134 | Male | EURO STD 10.4 | BSPT | 909 201 3361 |
| | 1/2" | 13 | 35 | 73 | Male | EURO STD 7.6 | BSPT | 909 200 9151 |
| | 1/2" | 13 | 35 | 73 | Male | EURO STD 7.6 | NPT | 615 804 6690 |
| Air Nipple Barbed | 1/4" | 6 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 9001 |
| | 1/4" | 6 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6700 |
| | 3/8" | 10 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 9031 |
| | 3/8" | 10 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6710 |
| | 1/2" | 13 | 35 | 73 | Female | EURO STD 7.6 | BSP | 909 200 9061 |
| Air Coupling Barb & Nut | 1/2" | 13 | 35 | 73 | Female | EURO STD 7.6 | NPT | 615 804 6720 |
| | 1/4" | 6 | 35 | 73 | Barbed | EURO STD 7.6 | | 909 200 9271 |
| | 5/16" | 8 | 18 | 38 | Barbed | ISO 6150B (former US std) | | 909 200 9571 |
| | 5/16" | 8 | 35 | 73 | Barbed | EURO STD 7.6 | | 909 201 0221 |
| | 3/8" | 10 | 18 | 38 | Barbed | ISO 6150B (former US std) | | 909 200 9601 |
| Air Coupling Barb & Nut | 3/8" | 10 | 35 | 73 | Barbed | EURO STD 7.6 | | 909 200 9301 |
| | 1/2" | 13 | 35 | 73 | Barbed | EURO STD 7.6 | | 909 200 9331 |





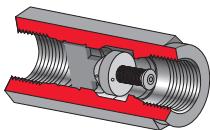
Air Fuses

When a fitting comes loose from a pressurized hose or the hose is damaged, the hose starts to blow an excessive amount of air in an uncontrolled way, causing hose whip. This can cause injury, and damage to the workpiece and environment.

A way to ensure that this doesn't happen is to use an Air fuse.

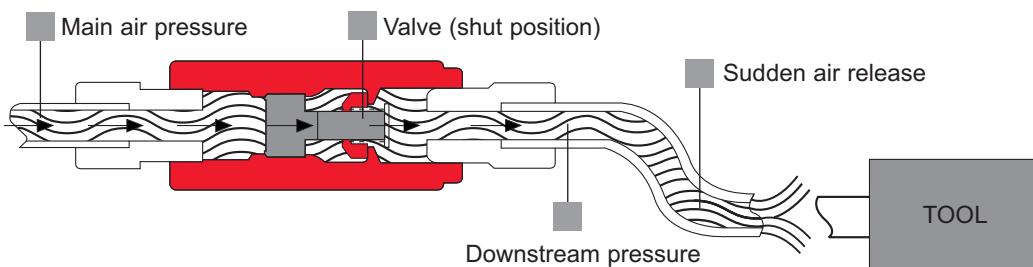
An Air Fuse reduces the likelihood of potentially dangerous hose whip caused when a hose bursts or a fitting becomes detached. Air Fuses quickly shut off the supply and reset automatically as soon as back pressure in the line downstream is restored.

Air Fuses help to meet OSHA requirement 1926.302 (USA) and may eliminate the need for restraining or shielding hose, as required by European Standard EN983.



MATERIALS

| | |
|----------------|--------------------|
| Body | Anodised aluminium |
| Internal parts | Brass |
| Spring | Stainless steel |



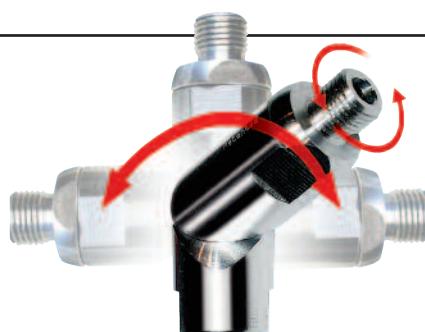
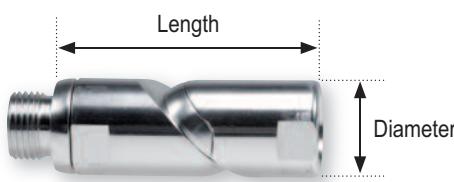
- Reduces risk of hose whip, helping to protect personnel
- Simple and reliable design
- High life expectancy
- Aluminium anodised body for high corrosion resistance
- Auto-Reset to restart downstream activity with the minimum downtime

| PORT SIZE | | PRESSURE DROP AT SHUT OFF FLOW | | SHUT OFF FLOW RATE AT 7 BAR | | TOOL MAXIMUM AIR FLOW | | FOR FLOW RATES | | PART NO. |
|-----------|-----|--------------------------------|------|-----------------------------|--------|-----------------------|--------|----------------|------|----------|
| BSP | NPT | bar | psi | l/s | cfm | l/s | cfm | High | Low | |
| 1/4" | | 0.30 | 4.35 | 13.00 | 27.30 | 10.00 | 21.00 | High | Low | 110402 |
| 3/8" | | 0.14 | 2.03 | 18.00 | 37.80 | 10.00 | 21.00 | High | Low | 110422 |
| 3/8" | | 0.30 | 4.35 | 32.00 | 67.20 | 25.00 | 52.50 | High | High | 110432 |
| 1/2" | | 0.30 | 4.35 | 45.00 | 94.50 | 35.00 | 73.50 | High | High | 110442 |
| 1" | | 0.30 | 4.35 | 86.00 | 180.60 | 70.00 | 147.00 | High | High | 110542 |



Air-Flex Swivel Connector

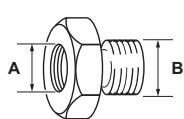
The 360° Experience



| MODEL | PART NUMBER | MAX RECOMMENDED AIR FLOW | | FEMALE INLET | MALE OUTLET | WEIGHT | | LENGTH | | OUTSIDE DIAMETER | |
|-------------------|---------------|--------------------------|-----|--------------|-------------|--------|------|--------|------|------------------|------|
| | | l/s | cfm | | | in. | in. | g | lb | mm | in. |
| AIR-FLEX 1/4" BSP | 615 804 746 0 | 12 | 25 | 1/4 BSP | 1/4 BSP | 79 | 0.17 | 67 | 2.63 | 24.0 | 0.94 |
| AIR-FLEX 3/8" BSP | 615 804 748 0 | 35 | 74 | 3/8 BSP | 3/8 BSP | 126 | 0.28 | 82 | 3.23 | 29.5 | 1.16 |
| AIR-FLEX 1/2" BSP | 615 804 750 0 | 35 | 74 | 1/2 BSP | 1/2 BSP | 132 | 0.29 | 82 | 3.23 | 29.5 | 1.16 |
| AIR-FLEX 1/4" NPT | 615 804 747 0 | 12 | 25 | 1/4 NPT | 1/4 NPT | 79 | 0.17 | 67 | 2.63 | 24.0 | 0.94 |
| AIR-FLEX 3/8" NPT | 615 804 749 0 | 35 | 74 | 3/8 NPT | 3/8 NPT | 126 | 0.28 | 82 | 3.23 | 29.5 | 1.16 |
| AIR-FLEX 1/2" NPT | 615 804 751 0 | 35 | 74 | 1/2 NPT | 1/2 NPT | 132 | 0.29 | 82 | 3.23 | 29.5 | 1.16 |

Pressure drop of 0,2 bar at nominal pressure of 6 bar.

Adaptors & Threaded Fittings



REDUCERS

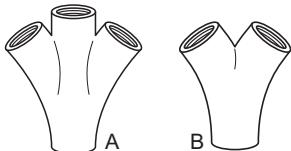
| THREAD A | MALE THREAD B | PART NO. |
|-------------|---------------------|--------------|
| in. | in. | |
| 1/8 BSP | 1/4 BSP | 62972 |
| 1/4 BSP | 1/8 BSP | 615 804 6060 |
| 1/4 NPT | 1/4 BSP | 181523 |
| 1/8 NPT | 1/8 BSP | 61103 |
| 3/8 BSP | 1/4 BSP | 615 804 6070 |
| 1/2 BSP | 3/8 BSP | 615 804 6080 |
| 1/8 BSP | 1/8 NPT | 271463 |
| 1/4 BSP | 1/8 BSP | 209843 |

DOUBLE CONNECTION

| MALE THREAD | PART NO. |
|----------------|--------------|
| in. | |
| 1/8" 1/8" | 615 804 5750 |
| 1/8" 1/4" | 615 804 5760 |
| 1/4" 1/4" | 615 804 5770 |
| 1/4" 3/8" | 615 804 5780 |
| 3/8" 3/8" | 615 804 5790 |
| 3/8" 1/2" | 615 804 5800 |
| 1/2" 1/2" | 615 804 5810 |
| 1/2" 3/4" | 615 804 5820 |
| 3/4" 3/4" | 615 804 5830 |
| 3/4" 1" | 615 804 5840 |

ADAPTOR

| SIZE | PART NO. A | PART NO. B |
|---------|---------------|---------------|
| in. | | |
| 3/8 BSP | 100032 | |
| 1/2 BSP | 98662 | 100042 |



BUSHING

| MALE THREAD | FEMALE THREAD | PART NO. |
|----------------|------------------|--------------|
| in. | in. | |
| 1/4 | 1/8 | 615 804 5860 |
| 3/8 | 1/4 | 615 804 5870 |
| 1/2 | 1/4 | 615 804 5880 |
| 1/2 | 3/8 | 615 804 5890 |
| 3/4 | 1/2 | 615 804 5900 |
| 1 | 3/4 | 615 804 5910 |



HOSE CONNECTION

| MALE THREAD | HOSE NIPPLE | PART NO. | |
|----------------|-------------|----------|--------------|
| in. | in. | mm | |
| 1/8 BSP | 1/8 | 3.2 | 615 804 5920 |
| 1/8 BSPT | 3/16 | 5 | 615 804 5930 |
| 1/8 BSPT | 1/4 | 6.3 | 615 804 5940 |
| 1/4 BSP | 1/8 | 3.2 | 615 804 5950 |
| 1/4 BSPT | 1/4 | 6.3 | 615 804 5960 |
| 1/4 BSPT | 5/16 | 8 | 615 804 5970 |
| 1/4 BSPT | 3/8 | 10 | 615 804 5980 |
| 3/8 BSPT | 3/8 | 10 | 615 804 5990 |
| 3/8 BSPT | 1/2 | 12.5 | 615 804 6000 |
| 1/2 BSPT | 1/2 | 12.5 | 615 804 6010 |
| 1/2 BSPT | 5/8 | 16 | 615 804 6020 |
| 1/2 BSPT | 3/4 | 20 | 615 804 6030 |
| 3/4 BSP | 3/4 | 20 | 615 804 6040 |
| 1 BSP | 1 | 25 | 615 804 6050 |



GASKETS

(between material & nipple)

| FOR COUPLING WITH MALE PARALLEL THREAD | PART NO. |
|--|--------------|
| M5 | 615 804 6090 |
| 1/8 BSP | 615 804 6100 |
| 1/4 BSP | 615 804 6110 |
| 3/8 BSP | 615 804 6120 |
| 1/2 BSP | 615 804 6130 |
| 3/4 BSP | 615 804 6140 |
| 1 BSP | 615 804 6150 |



PRESSURE CLAMPS

| MEDIUM CLAMP FOR DRIVE mm | PART NO. |
|------------------------------|--------------|
| 8.0-14.0 | 615 804 6730 |
| 11.0-17.0 | 615 804 6740 |
| 13.0-20.0 | 615 804 6750 |
| 15.0-24.0 | 615 804 6760 |
| 19.0-28.0 | 615 804 6770 |
| 22.0-32.0 | 615 804 6780 |



Safety Instructions

General Safety Instructions for the Operation of Power Tools

The goal of Desoutter is to produce tools that help the operator work safely and efficiently.

The most important safety device for this or any other tool is the operator. Care and good judgement are the best protection against injury.

All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

Individuals should look for and obey Caution, Warning and Danger signs placed on tools and displayed in the workplace. Operators should read and follow safety instructions packed with each tool. For a copy of these instructions, contact your local Desoutter representative.



Learn how each tool works. Even if you have previously used similar tools, carefully check out each tool before you use it. Get the 'feel' of it and know its capabilities, limitations, potential hazards, how it operates and how it stops.

All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787.

Sound levels +/- 3dB(A)* are measured in accordance with EN ISO15744. Vibration values* are measured in accordance with ISO 8662.

*These declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well upon the exposure time and the physical condition of the user.

We, Desoutter, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites:

<http://www.osha.gov> (USA)

<http://europe.osha.eu.int> (Europe).



COMPRESSED AIR HAZARDS

- Air under pressure can cause injury. Never point an air hose at yourself or anyone else. Never blow your clothes free of dust with compressed air. Always direct exhaust air away from yourself and others in the work area.
- Always check for damaged or loose hoses and fittings before using an air tool, and replace if necessary. Whipping hoses can cause serious injury.
- Disconnect the tool from the air supply when not in use, before changing accessories, setting the torque, or when making repairs.
- Do not exceed rated air pressure to increase the output of the tool. This could cause injury and shorten tool life.
- Do not assemble quick coupler on the tool. Vibration can cause breakage resulting in a whipping air hose. Instead, use quick couplers on the end of a short leader hose.
- When universal twist couplings are used, lock pins must be installed to prevent accidental hose disconnection.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.



ELECTRICAL HAZARDS

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools and equipment. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded metal surfaces. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Do not expose electric power tools and equipment to wet conditions.
- Do not operate power tools in explosive atmospheres. Power tools create sparks which may ignite dust, fumes or flammable liquids.
- Have electric power tools and equipment serviced by a qualified repair person using only identical replacement parts.



PROJECTILE HAZARDS

- Always wear impact resistant eye and face protection when involved with or near the operation or repair of tools.



BREATHING HAZARDS

- Proper breathing protection must be worn when working with materials, which produce airborne particles.



NOISE HAZARDS

- Hearing loss can result from prolonged exposure to excessive sound levels.
- Use hearing protection as recommended by your employer or Occupational Health and Safety Regulations.



VIBRATION HAZARDS

- Repetitive work motions, awkward positions, and exposure to vibration may be harmful to your hands and arms.
- If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.



ENTANGLEMENT HAZARDS

- To reduce the risk of injury from entanglement, do not wear loose clothing when using rotating accessories.



ADDITIONAL HAZARDS

- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excessive hose/cord left on the walking or work surface.
- Operators and maintenance personnel must be physically fit to perform job tasks, and handle the bulk, weight and power of the tool.
- Deburring tools should be used to reduce the risk of cuts and abrasions due to burrs.
- Wear gloves to protect hands from sharp edges.

Safety Instructions

Specific Safety Instructions for Power Tool Groups

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of specific power tool groups.



COMPRESSION TOOLS

- To reduce the risk of injury always keep hands and fingers away from yoke and moving jaws, sets or dies. If possible, hold the tool body with both hands.
- Inspect the yoke daily for cracks. Injury may result if a cracked yoke fails during use.
- All yokes have a life limitation based on cycles and riveting force. This tool and its accessories must not be modified.



DRILLS & TAPPERS

- Keep away from rotating bit and chuck. You can become cut or burned if you come into contact with the drill bit or tap, chips/swarf, or work surface.
- Use intermittent drill feed pressure to avoid long shaved chips/swarf.
- The drill bit or tap can suddenly bind and cause the workpiece or tool to rotate, causing arm and shoulder injuries.
- It is recommended that side handles are used for operator comfort and safety on high torque drilling applications above 4Nm (3 lbf ft) on straight case tools and 10Nm (7.4 lbf ft) on pistol grip drills. Drills with a chuck capacity larger than 10mm (3/8") should always be used with a side handle.



PERCUSSIVE TOOLS

(Riveting Hammers, Air Scribe)

- All chisels, rivet sets and other associated accessories should be checked for cracks, excessive wear, or other physical damage before each use. Accessories that show signs of damage should be replaced immediately.
- Never use a tool without the proper accessory retainer.



IMPACT AND IMPULSE WRENCHES

- Never use hand sockets or accessories. Use only impact sockets and accessories in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- When using a universal joint, never operate the tool off the work. It may run too fast and cause the joint to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adaptors absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.
- For tools using the pin and o-ring socket retainer, use the o-ring to securely retain the socket pin or use a one-piece retainer ring to retain the socket.
- Serious injury can result from overtightened or under-tightened fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

NOTE: So-called 'click' torque wrenches do not check for potentially dangerous over-tightened conditions.



ANGLE WRENCHES

- Never use hand sockets or accessories. Use only power drive sockets and accessories.
- To reduce the risk of injury, always support the handle securely in the direction opposite of the spindle rotation to minimize torque reaction.



ACCESSORIES

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.



OTHER TOOLS

(e.g. Screwdrivers, Shears, Saws, etc.)

- Specific instructions/warnings affecting this group of tools are contained in product-specific documents accompanying each product.



ABRASIVE TOOLS

- Before grinding, test grinding wheel by briefly running tool at full throttle. Be sure to use a barrier (such as under a heavy work table) to protect yourself from possible broken wheel parts.
- Never mount a grinding wheel on a sander.
- Never use a grinding wheel rated at a speed lower than the air grinder speed.
- All grinding wheels and polishing/sanding accessories should be checked for cracks or other damage before mounting and use.
- Always use the recommended wheel guard to prevent injury when performing grinding operations. If a guard has withstood wheel or disk breakage, it must be replaced.
- Position a guard between the grinding wheel or disc and the operator.
- Use barriers to protect others from fragments and grinding sparks.
- Make sure grinding wheels are mounted according to manufacturer's specifications: always use correct mounting flanges.
- Never tamper with or remove a speed governor from a tool to make it run faster. Periodically check tool speed with a tachometer.

For complete safety instructions, please see the documentation provided with each tool.



For more information about ergonomics please ask for the Ergosense booklet LT198 or visit www.desouttertools.com and look in the Industrial Tools on line catalogue

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) |
|------|-------|----------|--|-----------------------------|-------------------|
|------|-------|----------|--|-----------------------------|-------------------|

| | | | | | |
|----|----------------|---------------|------|-----|--|
| 12 | EAP1.5-15-T-2 | 615 165 312 0 | <2.5 | <70 | |
| 12 | EAP1.5-20-T-2 | 615 165 313 0 | <2.5 | <70 | |
| 12 | EAP1.5-26-T-2 | 615 165 314 0 | <2.5 | <70 | |
| 12 | EAP2-15-T-2 | 615 165 315 0 | <2.5 | <70 | |
| 12 | EAP2-20-T-2 | 615 165 316 0 | <2.5 | <70 | |
| 12 | EAP2-20-T-2 | 615 165 317 0 | <2.5 | <70 | |
| 12 | EAP2-65-T-2 | 615 165 318 0 | <2.5 | <70 | |
| 12 | EAP1.5-15-TA-2 | 615 165 323 0 | <2.5 | <70 | |
| 12 | EAP1.5-20-TA-2 | 615 165 324 0 | <2.5 | <70 | |
| 12 | EAP1.5-26-TA-2 | 615 165 325 0 | <2.5 | <70 | |
| 12 | EAP2-20-TA-2 | 615 165 326 0 | <2.5 | <70 | |
| 12 | EAP2-20-TA-2 | 615 165 327 0 | <2.5 | <70 | |
| 12 | EAP2-40-TA-2 | 615 165 328 0 | <2.5 | <70 | |
| 12 | EAP2-65-TA-2 | 615 165 329 0 | <2.5 | <70 | |
| 12 | EAP2-30-TF2 | 615 165 404 0 | <2.5 | <70 | |
| 12 | EAP2-65-TF2 | 615 165 405 0 | <2.5 | <70 | |
| 12 | EAP1.5-15-T-1 | 615 165 334 0 | <2.5 | <70 | |
| 12 | EAP1.5-20-T-1 | 615 165 335 0 | <2.5 | <70 | |
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| 28 | EME26-50 OF | 615 165 513 0 | <2.5 | <70 | |
| 28 | EME30-80 OF | 615 165 514 0 | <2.5 | <70 | |

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) |
|------|---------------|---------------|--|-----------------------------|-------------------|
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| 28 | EIME40-180 OF | 615 165 516 0 | <2.5 | <70 | |
| 28 | EIME44-350 OF | 615 165 602 0 | <2.5 | <70 | |
| 28 | EIME54-600 OF | 615 165 603 0 | <2.5 | <70 | |
| 28 | EIME60-850 OF | 615 165 442 0 | <2.5 | <70 | |
| 40 | EC506 | 615 165 443 0 | <2.5 | <70 | |
| 40 | EC52 | 615 165 444 0 | <2.5 | <70 | |
| 40 | EC57 | 615 165 446 0 | <2.5 | <70 | |
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| 41 | ECP5L | 615 165 200 0 | <2.5 | <70 | |
| 41 | ECP10L | 615 165 201 0 | <2.5 | <70 | |
| 41 | ECP20L | 615 165 202 0 | <2.5 | <70 | |
| 41 | ECP20S | 615 165 203 0 | <2.5 | <70 | |
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| 42 | ECP40S | 615 165 262 0 | <2.5 | <70 | |
| 42 | ECP40LT | 615 165 231 0 | <2.5 | <70 | |
| 42 | ECP50LT | 615 165 232 0 | <2.5 | <70 | |
| 42 | ECP50 | 615 165 450 0 | <2.5 | <70 | |
| 42 | ECP50R | 615 165 451 0 | <2.5 | <70 | |
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| 42 | ECP550-R | 615 165 453 0 | <2.5 | <70 | |
| 42 | ECP950-R | 615 165 454 0 | <2.5 | <70 | |
| 44 | ECA15 | 615 165 192 0 | <2.5 | <70 | |
| 44 | ECA20 | 615 165 100 0 | <2.5 | <70 | |
| 44 | ECA30 | 615 165 101 0 | <2.5 | <70 | |
| 44 | ECA40 | 615 165 102 0 | <2.5 | <70 | |
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| 44 | ECA70 | 615 165 104 0 | <2.5 | <70 | |
| 44 | ECA90 | 615 165 105 0 | <2.5 | <70 | |
| 44 | ECA1 | | | | |

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) | PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) |
|------|----------------------|---------------|--|-----------------------------|-------------------|------|----------------------|---------------|--|-----------------------------|-------------------|
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| 61 | SL0023-L1000-S4Q | 1464924 | <2.5 | 59 | | 78 | SC2-035-A1500-R4Q | 205 147 275 4 | 6.4 | 71 | |
| 61 | SL0032-L1750-S4Q | 1464934 | <2.5 | 59 | | 78 | SC2-045-A1000-R4Q | 205 147 274 4 | 4.6-8 | 71 | |
| 61 | SL0047-L150-S4Q | 1464944 | <2.5 | 59 | | 78 | SC2-055-A700-R4Q | 205 147 273 4 | 4.9-9.3 | 71 | |
| 61 | SL0056-L150-S4Q | 1465370 | 615 165 | 59 | | 78 | SC2-065-A500-R4Q | 205 147 272 4 | 5.1-8.7 | 71 | |
| 61 | SL0036-A1500-C4Q | 1465414 | <2.5 | 59 | | 78 | SD023-AB3500-R4Q | 1462954 | 2.8-3.6 | 73 | |
| 61 | SL0030-A1000-C4Q | 1465424 | <2.5 | 59 | | 78 | SD035-AB2200-R4Q | 1462944 | 3.9-8.3 | 73 | |
| 61 | SL0036-A750-C4Q | 1465434 | <2.5 | 59 | | 78 | SD055-AB1470-R4Q | 1462934 | 5.7-11.5 | 73 | |
| 61 | SL0045-A550-C4Q | 1465444 | <2.5 | 59 | | 78 | SD075-AB100-R4Q | 1462924 | 7.8-15.7 | 73 | |
| 61 | SL0026-L1500-C4Q | 1465584 | <2.5 | 59 | | 78 | SD100-AB820-R4Q | 1462914 | 8.5-17.5 | 73 | |
| 61 | SL0030-L1000-C4Q | 1465594 | <2.5 | 59 | | 78 | SD100-AB850-R4Q | 1462904 | 5.8-13.2 | 73 | |
| 61 | SL0036-L1750-C4Q | 1465594 | <2.5 | 59 | | 78 | SD023-AB3500-R4Q | 1462894 | 2.8-3.6 | 73 | |
| 61 | SL0045-L150-C4Q | 1465594 | <2.5 | 59 | | 78 | SD035-AR2200-R4Q | 1462884 | 3.9-8.3 | 73 | |
| 62 | SL0012-T2000-S4Q | 1465604 | <2.5 | 59 | | 78 | SD055-AB1470-R4Q | 1462874 | 5.7-11.5 | 73 | |
| 62 | SL0017-T1500-S4Q | 1465604 | <2.5 | 59 | | 78 | SD075-AR100-R4Q | 1462864 | 7.8-15.7 | 73 | |
| 62 | SL0023-T1000-S4Q | 1465604 | <2.5 | 59 | | 78 | SD100-AR820-R4Q | 1462854 | 8.5-17.5 | 73 | |
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| 62 | SL0047-T550-S4Q | 1465604 | <2.5 | 59 | | 78 | SD2-025-L2200-R4Q | 205 147 290 4 | 4.5 | 71 | |
| 62 | SL0012-L2000-S90A4H | 1464954 | <2.5 | 59 | | 78 | SC2-035-L1500-R4Q | 205 147 289 4 | 6.4 | 71 | |
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| 72 | 2A89-A-1300 | 1223154 | <2.5 | 64 | | 78 | SD100-LB820-R4Q | 1463174 | 8.5-17.5 | 73 | |
| 72 | 2A89-A-700 | 1223234 | <2.5 | 64 | | 78 | SD100-LB510-R4Q | 1463164 | 5.8-13.2 | 73 | |
| 72 | 2A89-A-400 | 1223314 | <2.5 | 64 | | 78 | SD023-LR3500-R4Q | 1463154 | 2.8-3.6 | 73 | |
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| 72 | SB015-AB1100-S4Q | 1460634 | <2.5 | 69 | | 78 | SD055-LR1470-R4Q | 1463134 | 5.7-11.5 | 73 | |
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| 72 | SB011-AR1600-S4Q | 1460524 | <2.5 | 69 | | 78 | SD100-LR510-R4Q | 1463104 | 5.8-13.2 | 73 | |
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| 72 | SC2-025-A2200-S4Q | 205 147 269 4 | <2.5 | 71 | | 79 | SBP044-T550-R4Q | 1462214 | 1.7-4.7 | 73 | |
| 72 | SC2-035-A1500-S4Q | 205 147 268 4 | <2.5 | 71 | | 79 | SCP024-T2300-R4Q | 1456774 | 0.9-2.5 | 73 | |
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| 72 | SD140-AB510-S4Q | 1462784 | <2.5 | 73 | | 79 | SDP100-T490-R4Q | 1465594 | 7.9 | 75 | |
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| 73 | SB021-L1410-S4Q | 205 147 508 4 | <2.5 | 72 | | 79 | SCP022-A1600-R4Q | 1458954 | 1.8-3.2 | 73 | |
| 73 | SB043-LR1050-S4Q | 205 147 507 4 | <2.5 | 72 | | 79 | SCP044-A1100-R4Q | 1458914 | 2.3-3.9 | 73 | |
| 73 | SD047-LR1050-S4Q | 205 147 506 4 | <2.5 | 72 | | 80 | SDP023-T1200-R4Q | 1465714 | <2.5 | 75 | |
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| 73 | SD140-LR510-S4Q | 1462914 | <2.5 | 73 | | 82 | SCC021-L1500-S45A4S | 1459564 | <2.5 | 73 | |
| 73 | SD160-LR320-S4Q | 1462904 | <2.5 | 73 | | 82 | SCC021-L1050-S45A4H | 1459604 | <2.5 | 73 | |
| 73 | SD070-LB220-S90-A4S | 1462894 | <2.5 | 75 | | 82 | SCC021-L2200-S45A4H | 1459494 | <2.5 | 73 | |
| 73 | SD070-LB320-S90-A4S | 1462884 | <2.5 | 75 | | 82 | SCC043-L1050-S45A4H | 1459504 | <2.5 | 73 | |
| 73 | SD070-LB510-S90-A4S | 1462874 | <2.5 | 75 | | 82 | SCC047-L500-S90A4H | 1459514 | <2.5 | 73 | |
| 73 | SD070-LR1100-S90-A4S | 1462864 | <2.5 | 75 | | 82 | SCC021-L2000-S90A4H | 1459074 | <2.5 | 73 | |
| 73 | SD070-LR820-S90-A4S | 1462854 | <2.5 | 75 | | 82 | SCC021-L1400-S90A4H | 1459064 | <2.5 | 73 | |
| 73 | SD070-LR510-S90-A4S | 1462844 | <2.5 | 75 | | 82 | SCC047-L500-S90A4H | 1459054 | <2.5 | 73 | |
| 73 | SD070-LR100-S90-A4S | 1462834 | <2.5 | 75 | | 82 | SD070-LB1100-S90-A4S | 1463254 | <2.5 | 73 | |
| 73 | SD070-LB820-S90-A4S | 1462824 | <2.5 | 75 | | 82 | SD070-LB820-S90-A4S | 1463244 | <2.5 | 73 | |
| 73 | SD070-LB510-S90-A4S | 1462814 | <2.5 | 75 | | 82 | SD070-LB510-S90 | | | | |

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) |
|------|-------|----------|--|-----------------------------|-------------------|
|------|-------|----------|--|-----------------------------|-------------------|

| | | | | | |
|-----|-----------------------|---------------|---------|-----|-----|
| 83 | SH1200-LR215-S90-A13S | 205 147 476 4 | <2.5 | 82 | |
| 83 | SH2000-LR100-S90-A13S | 205 147 801 4 | <2.5 | 82 | |
| 84 | SC024-L2000-R90A4S | 1459194 | 3.7-8.2 | 73 | |
| 84 | SC022-L1400-R90A4S | 1459184 | 2.7-7.2 | 73 | |
| 84 | SC044-L150-R90A4S | 1459174 | 3.2-9.9 | 73 | |
| 84 | SC044-L500-R90A4S | 1459164 | 4.5-5.2 | 73 | |
| 84 | SC024-L2000-R90A4H | 1459114 | 3.7-8.2 | 73 | |
| 84 | SC022-L1400-R90A4H | 1459104 | 2.7-7.2 | 73 | |
| 84 | SC044-L150-R90A4H | 1459094 | 3.2-9.9 | 73 | |
| 84 | SC044-L500-R90A4H | 1459084 | 4.5-5.2 | 73 | |
| 84 | SD070-LB1100-R90-A4H | 1463334 | 6.9-8.3 | 73 | |
| 84 | SD070-LB1820-R90-A4H | 1463324 | 3.8-8.2 | 73 | |
| 84 | SD070-LB510-R90-A4H | 1463314 | 2.0-4.6 | 73 | |
| 84 | SD070-LB320-R90-A4H | 1463304 | 1.8-3.9 | 73 | |
| 84 | SD070-LB1100-R90-A4H | 1463654 | 6.9-8.3 | 73 | |
| 84 | SD070-LB1820-R90-A4H | 1463644 | 3.8-8.0 | 73 | |
| 84 | SD070-LR510-R90-A4H | 1463634 | 2.0-4.6 | 73 | |
| 84 | SD070-LR320-R90-A4H | 1463624 | 1.8-3.9 | 73 | |
| 84 | SD070-LB1100-R90-A4S | 1463454 | 6.9-8.3 | 73 | |
| 84 | SD070-LB1820-R90-A4S | 1463444 | 3.7-8.0 | 73 | |
| 84 | SD070-LB510-R90-A4S | 1463434 | 2.0-4.6 | 73 | |
| 84 | SD070-LB320-R90-A4S | 1463424 | 1.8-3.9 | 73 | |
| 84 | SD070-LR1100-R90-A4S | 1463694 | 6.9-8.3 | 73 | |
| 84 | SD070-LR1820-R90-A4S | 1463684 | 3.8-8.0 | 73 | |
| 84 | SD070-LR510-R90-A4S | 1463674 | 2.0-4.6 | 73 | |
| 84 | SD070-LR320-R90-A4S | 1463664 | 3.7-8.0 | 73 | |
| 84 | SD097-LB1080-R90-A10S | 1463584 | 9.5 | 73 | |
| 84 | SD130-LB600-R90-A10S | 1463574 | 7.2 | 73 | |
| 84 | SD209-LB370-R90-A10S | 1463564 | 7.4 | 73 | |
| 84 | SD097-LR1080-R90-A10S | 1463724 | 9.5 | 73 | |
| 84 | SD130-LR600-R90-A10S | 1463714 | 7.2 | 73 | |
| 84 | SD209-LR370-R90-A10S | 1463704 | 7.4 | 73 | |
| 84 | 2D4872-LX-550 | 1388614 | 4.1-5.2 | 73 | |
| 85 | SD130-LB500-D90-A4S | 1465974 | <2.5 | 73 | |
| 85 | SD096-LB800-D90-A4S | 1465984 | <2.5 | 73 | |
| 85 | 2D472-LX-550 | 13888534 | <2.5 | 73 | |
| 85 | H410-N-500 | 1302374 | <2.5 | 82 | |
| 85 | H410-N-350 | 1302454 | <2.5 | 82 | |
| 85 | H410-N-150 | 1302534 | <2.5 | 82 | |
| 85 | H410-N-90 | 1302614 | <2.5 | 82 | |
| 85 | H410-N-60 | 1302794 | <2.5 | 82 | |
| 86 | SD160-LB240-S-OE17 | 1463594 | <2.5 | 73 | |
| 86 | SD160-LB240-S-OE13 | 1463604 | <2.5 | 73 | |
| 86 | SD160-LB240-S-OE12 | 1463614 | <2.5 | 73 | |
| 86 | SD160-LB240-S-OE10 | 1463734 | <2.5 | 73 | |
| 86 | SD120-LB320-S-OE8 | 1463744 | <2.5 | 73 | |
| 86 | SD120-LB320-S-OE7 | 1463754 | <2.5 | 73 | |
| 86 | SD160-LB240-S-OE | 1464474 | <2.5 | 73 | |
| 86 | SD120-LB320-S-OE | 1464484 | <2.5 | 73 | |
| 87 | SC2-025-AM1200-S4Q | 205 147 426 4 | <2.5 | 71 | |
| 87 | SC2-035-AM1500-S4Q | 205 147 425 4 | <2.5 | 71 | |
| 87 | SC2-045-AM1000-S4Q | 205 147 424 4 | <2.5 | 71 | |
| 87 | SC2-055-AM700-S4Q | 205 147 423 4 | <2.5 | 71 | |
| 87 | SC2-065-AM500-S4Q | 205 147 422 4 | <2.5 | 71 | |
| 87 | SC2-025-2RM200-S4Q | 205 147 440 4 | <2.5 | 71 | |
| 87 | SC2-035-2RM150-S4Q | 205 147 439 4 | <2.5 | 71 | |
| 87 | SC2-045-2RM100-S4Q | 205 147 438 4 | <2.5 | 71 | |
| 87 | SC2-055-2RM700-S4Q | 205 147 437 4 | <2.5 | 71 | |
| 87 | SC2-065-2RM500-S4Q | 205 147 436 4 | <2.5 | 71 | |
| 87 | SD023-1AM350-S4Q | 1464254 | <2.5 | 73 | |
| 87 | SD035-1AM220-S4Q | 1464244 | <2.5 | 73 | |
| 87 | SD055-1AM170-S4Q | 1464244 | <2.5 | 73 | |
| 87 | SD100-1AM100-S4Q | 1464223 | <2.5 | 73 | |
| 87 | SD100-1AM220-S4Q | 1464214 | <2.5 | 73 | |
| 87 | SD140-1AM510-S4Q | 1464204 | <2.5 | 73 | |
| 87 | SD160-1AM320-S4Q | 1464194 | <2.5 | 73 | |
| 87 | SD023-2RM3500-S4Q | 1464324 | <2.5 | 73 | |
| 87 | SD035-2RM2200-S4Q | 1464314 | <2.5 | 73 | |
| 87 | SD055-2RM1470-S4Q | 1464304 | <2.5 | 73 | |
| 87 | SD075-2RM1100-S4Q | 1464294 | <2.5 | 73 | |
| 87 | SD100-2RM230-S4Q | 1464284 | <2.5 | 73 | |
| 87 | SD140-2RM510-S4Q | 1464274 | <2.5 | 73 | |
| 87 | SD160-2RM320-S4Q | 1464264 | <2.5 | 73 | |
| 92 | PT031-T6000-110S | 205 147 466 4 | <2.5 | 75 | |
| 92 | PT028-T9000-14Q | 205 147 789 4 | <2.5 | 72 | |
| 92 | PT031-T9000-110S | 205 147 467 4 | <2.5 | 75 | |
| 92 | PT052-T7000-110S | 205 147 468 4 | <2.5 | 80 | |
| 92 | PT070-T6000-H13S | 205 147 469 4 | <2.5 | 48 | |
| 92 | PT110-T4500-H13S | 205 147 470 4 | <2.5 | 79 | |
| 92 | PT160-T3500-H13S | 205 147 471 4 | <2.5 | 79 | |
| 92 | PT240-T2800-119S | 205 147 472 4 | 5.7 | 81 | |
| 92 | PT010-T5000-S4Q | 205 146 227 4 | <2.5 | 73 | |
| 92 | PT104-L5000-S4Q | 205 146 225 4 | <2.5 | 70 | |
| 92 | PT104-T6000-S4Q | 205 146 228 4 | <2.5 | 73 | |
| 92 | PT144-L6000-S4Q | 205 146 226 4 | <2.5 | 73 | |
| 92 | PT205-T4500-S10S | 205 147 462 4 | <2.5 | 76 | |
| 92 | PT205-L4500-S10S | 205 147 463 4 | <2.5 | 75 | |
| 92 | PT035-T6000-S4Q | 205 147 790 4 | <2.5 | 74 | |
| 92 | PT040-T6000-S10S | 205 146 229 4 | <2.5 | 77 | |
| 92 | PT070-T4000-S13S | 205 146 230 4 | 3.5 | 82 | |
| 92 | PT125-T3500-S13S | 205 146 231 4 | 3.3 | 79 | |
| 92 | PT250-T4000-S19S | 205 147 464 4 | 8.6 | 80 | |
| 92 | PT450-T3000-S19S | 205 147 465 4 | 9.8 | 85 | |
| 127 | CP6031 HABAD | T021887 | 4.3 | 88 | 98 |
| 127 | CP 6031 HABA | T021884 | 4.3 | 88 | 98 |
| 127 | CP6300 RSR | T025285 | 4.3 | 95 | 105 |
| 127 | CP641 HABAD | T021888 | 5.7 | 90 | 100 |
| 127 | CP6041 HABAR | T022231 | 5.7 | 90 | 100 |
| 127 | CP6500 RS | T025214 | 4.4 | 96 | 106 |
| 127 | CP6500 RSR | T025216 | 4.4 | 96 | 106 |
| 127 | CP6500 RSS | T025215 | 4.4 | 96 | 106 |
| 127 | CP6540 RS | T025312 | 6.9 | 97 | 107 |
| 127 | CP6540 RSR | T025313 | 6.9 | 97 | 107 |
| 127 | CP6540 RSS | T025314 | 6.9 | 97 | 107 |
| 128 | CP6600 SASAB | T022059 | 8.0 | 95 | 105 |
| 128 | CP6600 SASAK | T024060 | 8.0 | 95 | 105 |
| 128 | CP6600 SASAR | T024058 | 8.0 | 100 | 110 |
| 128 | CP61100 GASED | T024425 | 10.5 | 91 | 101 |
| 128 | CP61100 GASEL | T024426 | 10.5 | 91 | 101 |
| 128 | CP61100 PASED | T025100 | 10.5 | 93 | 103 |
| 128 | CP61100 PASEL | T025101 | 10.5 | 93 | 103 |
| 128 | CP61100 GALED | T018046 | 6.4 | 97 | 107 |
| 128 | CP0610 GALED | T018041 | 6.4 | 97 | 107 |
| 128 | CP0610 PALED | T018253 | 6.4 | 97 | 107 |
| 128 | CP0610 PALEL | T018042 | 6.4 | 97 | 107 |
| 129 | CP0611 GASED | T022580 | 10.9 | 97 | 107 |
| 129 | CP0611 GASEL | T022581 | 10.9 | 97 | 107 |
| 129 | CP0611 PASED | T022578 | 10.9 | 97 | 107 |
| 129 | CP0611 PASEL | T022579 | 10.9 | 102 | 112 |
| 129 | CP6120 GASED | T018237 | 12.4 | 102 | 112 |
| 129 | CP6120 GASEL | T017755 | 12.4 | 102 | 112 |
| 129 | CP6120 PASED | T018841 | 12.4 | 102 | 112 |
| 129 | CP6120 PASEL | T018235 | 12.4 | 102 | 112 |

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL ISO 15744 dB(A) |
|------|--------------|---------------|--|-----------------------------|-----------------------------|
| 129 | CP0614 GALED | T020021 | 9.5 | 97 | 107 |
| 129 | CP0614 PALED | T020022 | 9.5 | 97 | 107 |
| 129 | CP0611P RS | T025413 | 12.4 | 102 | 113 |
| 129 | CP0611P RLS | T025414 | 12.4 | 102 | 113 |
| 147 | KC1600-30T | 615 170 313 0 | <2.5 | 71 | |
| 147 | KC1600-32T | 615 170 314 0 | <2.5 | 71 | |
| 147 | KC1600-30 | 615 170 315 0 | 2.4 | 71 | |
| 147 | KC06100-30 | 205 146 635 4 | 2.4 | 71 | |
| 147 | KC06100-32 | 205 146 707 4 | 2.4 | 71 | |
| 147 | 05-X-8000 | 258984 | 2.7 | 76 | |
| 147 | 05-X-8000 | 258564 | 2.7 | 76 | |
| 149 | K340-7 | 615 170 036 0 | <2.5 | 78 | |
| 149 | K331-7 | 615 170 035 0 | 2.7 | 80 | |
| 149 | K325-7 | 615 170 034 0 | 2.9 | 74 | |
| 149 | K320-7 | 615 170 033 0 | 4.0 | 75 | |
| 149 | K340-7 | 615 170 032 0 | <2.5 | 77 | |
| 149 | K331-7 | 615 170 031 0 | 2.5 | 77 | |
| 149 | K325-7 | 615 170 029 0 | <2.5 | 78 | |
| 149 | K320-7 | 615 170 028 0 | 2.5 | 78 | |
| 151 | K325-7 | 615 170 027 0 | <2.5 | 75 | |
| 151 | K320-7 | 615 170 026 0 | 2.5 | 75 | |
| 151 | K324-7 | 615 170 126 0 | <2.5 | 85 | |
| 151 | K624-7 | 615 170 106 0 | <2.5 | 81 | |
| 151 | K922-7 | 615 170 119 0 | <2.5 | 81 | |
| 151 | K619-7 | 615 170 117 0 | <2.5 | 81 | |
| 151 | K917-7 | 615 170 116 0 | 2.7 | 81 | |
| 151 | K912-7 | 615 170 108 0 | <2.5 | 74 | |
| 151 | K912-300-7 | 615 170 108 0 | <2.5 | 74 | |
| 151 | KC162-500-7 | 615 170 109 0 | <2.5 | 74 | |
| 153 | K340-9 | 615 170 145 0 | <2.5 | 78 | |
| 153 | K320-9 | 615 170 145 0 | <2.5 | 78 | |
| 153 | K318-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K316-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K320-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K318-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K320-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K316-9 | 615 170 146 0 | <2.5 | 78 | |
| 153 | K320-9 | 615 170 146 0 | <2.5 | 78 | |

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL dB(A) |
|------|-------|----------|--|-----------------------------|-------------------|
|------|-------|----------|--|-----------------------------|-------------------|

| | | | | | |
|-----|----------------------------------|---------------|------|----|--|
| 175 | KA11120A5F | 615 170 052 0 | 9.0 | 84 | |
| 175 | KA11120B5F | 615 170 055 0 | 9.0 | 84 | |
| 175 | KL1120A5 | 615 170 013 0 | <2.5 | 84 | |
| 175 | KL1120B5 | 615 170 181 0 | <2.5 | 84 | |
| 175 | KA16100B6FVK | 615 170 470 0 | 1.8 | 82 | |
| 177 | KL185B7 | 615 170 012 0 | 3.1 | 78 | |
| 177 | KL285B7 | 615 170 336 0 | 5.0 | 86 | |
| 177 | KL377B7 | 615 170 341 0 | 4.6 | 88 | |
| 177 | KL277B7V | 615 170 471 0 | <2.5 | 86 | |
| 177 | KL377B7V | 615 170 472 0 | <2.5 | 88 | |
| 177 | KA177B7 | 615 170 021 0 | <2.5 | 91 | |
| 177 | KL260B6C | 615 170 334 0 | <2.5 | 87 | |
| 177 | KL360B6C | 615 170 337 0 | <2.5 | 84 | |
| 179 | KL177B7Y | 615 170 182 0 | <2.5 | 91 | |
| 179 | KL277B7Y | 615 170 342 0 | 4.0 | 87 | |
| 179 | KL377B7Y | 615 170 348 0 | 4.6 | 88 | |
| 179 | KL160B7Y | 615 170 183 0 | <2.5 | 77 | |
| 179 | KL260B7Y | 615 170 343 0 | 2.9 | 87 | |
| 179 | KL360B7Y | 615 170 349 0 | 3.1 | 84 | |
| 179 | KA177B7Y | 615 170 179 0 | <2.5 | 91 | |
| 179 | KA160B7Y | 615 170 247 0 | <2.5 | 77 | |
| 179 | KL260B6CY | 615 170 345 0 | <2.5 | 87 | |
| 179 | KL360B6CY | 615 170 351 0 | <2.5 | 84 | |
| 179 | KL245B6CY | 615 170 346 0 | <2.5 | 85 | |
| 181 | KL265B9 | 615 170 335 0 | 3.5 | 84 | |
| 181 | KL365B9 | 615 170 338 0 | 4.0 | 87 | |
| 181 | KL260B9Y | 615 170 344 0 | 2.5 | 86 | |
| 181 | KL360B9Y | 615 170 350 0 | 3.6 | 85 | |
| 181 | KL245B9Y | 615 170 347 0 | <2.5 | 84 | |
| 181 | KL265B9Y | 615 170 473 0 | <2.5 | 84 | |
| 181 | KL365B9Y | 615 170 474 0 | <2.5 | 87 | |
| 181 | KA165B9 | 615 170 020 0 | <2.5 | 90 | |
| 181 | KA160B9Y | 615 170 180 0 | <2.5 | 89 | |
| 181 | K260B9 | 615 170 007 0 | 2.8 | 85 | |
| 185 | KC9060-9 | 615 170 166 0 | <2.5 | 83 | |
| 185 | KC9035-9 | 615 170 167 0 | <2.5 | 82 | |
| 185 | KC9010-9 | 615 170 168 0 | <2.5 | 82 | |
| 185 | KC9060-7 | 615 170 122 0 | <2.5 | 83 | |
| 185 | KC9035-7 | 615 170 121 0 | <2.5 | 82 | |
| 185 | KC9010-7 | 615 170 120 0 | <2.5 | 84 | |
| 187 | KA320EG | 615 170 048 0 | <2.5 | 77 | |
| 187 | KA312EG | 615 170 054 0 | <2.5 | 76 | |
| 187 | KA320G | 615 170 044 0 | <2.5 | 77 | |
| 187 | KA318G | 615 170 310 0 | <2.5 | 77 | |
| 187 | KA312G | 615 170 338 0 | <2.5 | 77 | |
| 187 | KA309G | 615 170 204 0 | <2.5 | 76 | |
| 187 | KA309C | 615 170 203 0 | <2.5 | 76 | |
| 187 | DA6.35 | 615 176 019 0 | <2.5 | 74 | |
| 187 | DA8.20 | 615 176 030 0 | <2.5 | 75 | |
| 189 | KL1120A with pad 615 399 251 0 | 615 170 022 0 | <2.5 | 83 | |
| 189 | KL1120A with pad 615 399 203 0 | 615 170 022 0 | 3.1 | 83 | |
| 189 | KL1120B with pad 615 399 251 0 | 615 170 207 0 | <2.5 | 83 | |
| 191 | KA16120A with pad 615 396 075 0 | 615 170 435 0 | <2.5 | 85 | |
| 191 | KA16120A with pad 615 396 072 0 | 615 170 435 0 | <2.5 | 85 | |
| 191 | KA16120B with pad 615 396 072 0 | 615 170 445 0 | <2.5 | 85 | |
| 191 | KA16085A with pad 615 990 134 0 | 615 170 468 0 | 2.6 | 80 | |
| 191 | KA16085B with pad 615 990 134 0 | 615 170 469 0 | 2.6 | 80 | |
| 191 | KA16075A with pad 615 990 134 0 | 615 170 448 0 | 2.6 | 79 | |
| 191 | KA16075B with pad 615 990 134 0 | 615 170 452 0 | 2.6 | 79 | |
| 191 | KA16060A with pad 615 990 134 0 | 615 170 449 0 | <2.5 | 77 | |
| 191 | KA16060B with pad 615 990 134 0 | 615 170 453 0 | <2.5 | 77 | |
| 191 | KA16120BY | 615 170 447 0 | <2.5 | 86 | |
| 191 | KA16075BY with pad S091836 | 615 170 450 0 | 3.1 | 78 | |
| 191 | KA16060BY with pad S091836 | 615 170 451 0 | <2.5 | 75 | |
| 191 | KA16060BY with pad KF129587 | 615 170 451 0 | <2.5 | 76 | |
| 193 | KA9030A with pad 615 990 134 0 | 615 170 098 0 | <2.5 | 83 | |
| 193 | KA9030B with pad 615 990 134 0 | 615 170 099 0 | <2.5 | 83 | |
| 193 | KA9020A with pad 615 990 134 0 | 615 170 096 0 | <2.5 | 80 | |
| 193 | KA9020B with pad 615 990 134 0 | 615 170 097 0 | <2.5 | 80 | |
| 193 | KA9030A16 with pad 615 990 139 0 | 615 170 102 0 | <2.5 | 83 | |
| 193 | KA9030B16 with pad 615 990 139 0 | 615 170 103 0 | <2.5 | 83 | |
| 193 | KA9020A16 with pad 615 990 139 0 | 615 170 100 0 | <2.5 | 83 | |
| 193 | KA9020B16 with pad 615 990 139 0 | 615 170 101 0 | <2.5 | 83 | |
| 193 | KA9030BY with pad S091836 | 615 170 309 0 | <2.5 | 84 | |
| 193 | KA9030BY with pad KF129587 | 615 170 309 0 | <2.5 | 84 | |
| 195 | KL165B | 615 170 011 0 | <2.5 | 77 | |
| 195 | KL245B with pad 615 396 134 0 | 615 170 333 0 | <2.5 | 84 | |
| 195 | KL265B with pad 615 396 134 0 | 615 170 339 0 | <2.5 | 86 | |
| 195 | KL265B with pad 615 396 131 0 | 615 170 339 0 | <2.5 | 85 | |
| 195 | KL360B with pad 615 396 134 0 | 615 170 340 0 | <2.5 | 84 | |
| 195 | KA165B | 615 170 025 0 | <2.5 | 85 | |
| 195 | KL185BY with pad S091836 | 615 170 240 0 | <2.5 | 77 | |
| 195 | KL165BY with pad S091836 | 615 170 241 0 | <2.5 | 77 | |
| 195 | KA165BY with pad S091836 | 615 170 245 0 | <2.5 | 77 | |
| 197 | KL245B with brush 615 396 133 0 | 615 170 333 0 | <2.5 | 80 | |

| PAGE | MODEL | PART NO. | VIBRATION LEVEL ISO 8662 (m/s ²) | NOISE LEVEL ISO 15744 dB(A) | SOUND LEVEL ISO 15744 dB(A) |
|------|-------|----------|--|-----------------------------|-----------------------------|
|------|-------|----------|--|-----------------------------|-----------------------------|

| | | | | | |
|-----|---------------------------------|---------------|------|----|--|
| 197 | KL265B with brush 615 396 133 0 | 615 170 339 0 | 3.7 | 85 | |
| 197 | KL360B with brush 615 396 133 0 | 615 170 340 0 | 3.7 | 85 | |
| 197 | KL260B6CY | 615 170 345 0 | <2.5 | 87 | |
| 197 | KL360B6CY | 615 170 351 0 | <2.5 | 87 | |
| 197 | KL245B6CY | 615 170 346 0 | <2.5 | 85 | |
| 209 | SXR5B35 | 615 170 209 0 | <2.5 | 76 | |
| 209 | SXR5B50 | 615 170 210 0 | <2.5 | 76 | |
| 209 | SXR5B60 | 615 170 211 0 | <2.5 | 76 | |
| 209 | SXR5B35C | 615 170 215 0 | <2.5 | 78 | |
| 209 | SXR5B50C | 615 170 216 0 | <2.5 | 78 | |
| 209 | SXR5B60C | 615 170 217 0 | <2.5 | 78 | |
| 209 | SXR5B35V | 615 170 212 0 | <2.5 | 85 | |
| 209 | SXR5B50V | 615 170 213 0 | <2.5 | 85 | |
| 209 | SXR5B60V | 615 170 214 0 | <2.5 | 85 | |
| 209 | SXRA35 | 615 170 218 0 | <2.5 | 76 | |
| 209 | SXRA50 | 615 170 219 0 | <2.5 | 76 | |
| 209 | SXA60 | 615 170 220 0 | <2.5 | 76 | |
| 209 | SXRA35C | 615 170 224 0 | <2.5 | 78 | |
| 209 | SXA60C | 615 170 226 0 | <2.5 | 78 | |
| 209 | SXA35V | 615 170 221 0 | <2.5 | 85 | |
| 209 | SXA50V | 615 170 222 0 | <2.5 | 85 | |
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Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

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What is ergonomics?

Ergonomics at work deals with the interactions between operators and their work equipment, work environment and work process.

Ergonomically designed work systems enhance safety, effectiveness and efficiency, improve human working and living conditions and counteract adverse effects on human health and performance.

Best Practice with ErgoSense™

Desoutter promotes the use of Ergonomic Best Practice amongst their customers at all times and are happy to establish working partnerships to help reach this goal. The following chart shows how this may be achieved.

People

This includes not only the person who will be using a power tool, but also those people who work in the vicinity of the power tool, as they may also be affected by noise, dust etc. Their health before starting to work with or near a power tool needs to be assessed as well as monitored when the tool is in use. Training is of course very important before anyone uses a power tool and Desoutter are happy to provide guidance and training material specific to the use of our products.

Environment

Attention needs to be paid to aspects of the working area such as heating, comfort, noise, dust and rest areas. Desoutter Sales Consultants can provide guidance on exposure levels and other requirements.

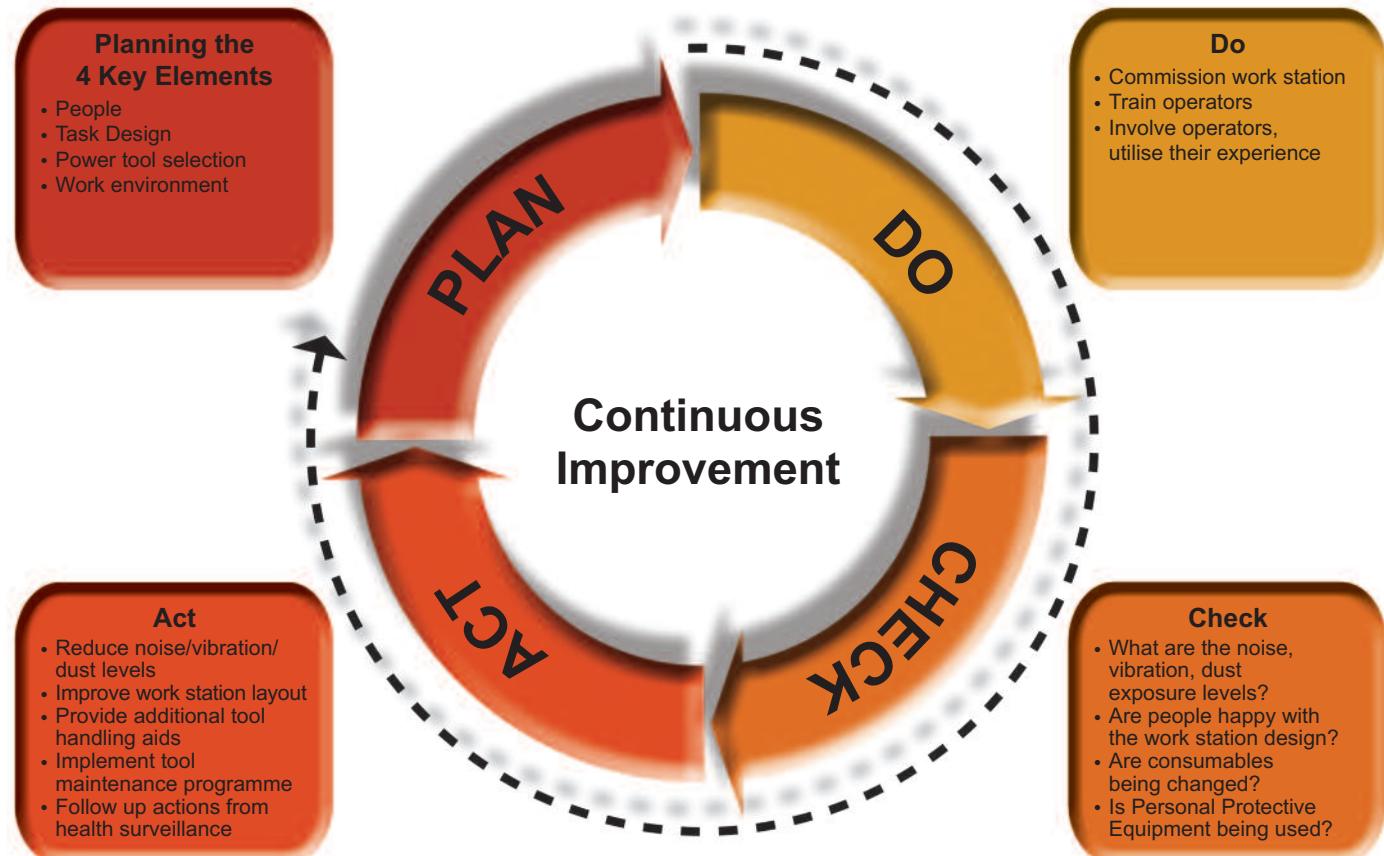
Task Design

The design of the workstation and the way in which a task is performed are critical in avoiding long term problems. Critical items include: design of the working envelope, neutral wrist position, correct tool selection for task, design of workpiece fixturing and provision of handling aids such as side handles / stands / balancers.

Power Tool Selection

Desoutter power tools embody the latest thinking on ergonomic principles. Look for the following features:

- Correct shape & size for optimal handling
- Low torque reactions, reduced loads & forces on the operator for maximum comfort in use
- Low emissions of noise/dust/vibrations/oil help improve the working environment
- Conformance to all relevant standards, worldwide.



International Ergonomic Standards

Desoutter has a long history of active participation with the International Standards Organisation & other NGOs responsible for formulating the standards that are now accepted worldwide. Desoutter staff participate on Committees, Working Groups and Trade Associations to ensure they keep up to date with developments in legislation & standards in all parts of the world. Desoutter are happy to share this knowledge with our customers through the ErgoSense™ Programme. Please call us.

More Than Productivity