



Industrial ^{TOOLS}



More Than Productivity





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Unless specified all inlet threads are BSP or NPT dependentv of market

100 YEARS OF INNOVATION



In Desoutter's earliest days one hundred years ago, who would have imagined that it would become today's global leader in its sector? How many industrial companies can claim, like Desoutter, to have weathered the years with such success, never forgetting the values that have formed the foundation of their prosperity?

This one century of existence would not have been possible without that drive for innovation that characterises our company, without that perpetual determination to evolve along with the changing world around us, always acting with vision to anticipate the needs of tomorrow.

This longevity is also the fruit of dedicated devotion on the part of all those employees who have shared their ideas, their skills and their technological expertise in order to turn that thrust for innovation into reality and to give it meaning.

But this history is also - and primarily - that of our customers and partners who remain the sole reason for our existence. It is for them and alongside them that we strive for perfection day after day, and our intention has been to pay tribute to them in the name of this shared success by compiling some of their testimonials in this book.

Together we have written the beginning of a great story. And together we will continue to move forward, to look to the future with the same ambition: always to offer "more than productivity".

Find more on what customers tell about their Desoutter's customer experience in the **Desoutter's anniversary book!**

- 1914** Foundation of Desoutter. First Duralumin artificial limbs are created.
- 1918** Foundation of Georges Renault. Spare parts for portable pneumatic tools are manufactured.
- 1930** First flight of the Desoutter Mk.I.
- 1960** Patents approved for torque controlled angle wrench.
- 1977** Scan Rotor is founded. **SCANROTOR**.
- 1990** First models of Georges Renault transducerized tools: SE hand held tools with the Case 40 controllers.
- Early 1990** First models of Tech-motive transducerized tools: the 37-Series with the CS40 controller. **tech-motive tool**.
- 1998** CVIS controller series.
- 2005** Creation of Seti-Tec Line. Advanced Drilling Units.
- 2012** E-Pulse low torque reaction Electric tool.
- 2015 - 2016** EPB Wireless transducerized battery tool.

Philippe Artzet, President

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 more than productivity



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 airline systems, for instance, keep our pneumatic nutrunners spinning at exactly the right speed and power, saving you precious seconds for each operation.

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.

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.



EXPERTISE YOU CAN GROW ON...

From motors vehicles to appliances, planes to construction machines, electronics to energy – there is a Desoutter air powered and electric tool solution for you.

Covering all segments

Motor vehicle industry
A wide range of tool solutions for vehicle makers, tier one suppliers and linebuilders. Solutions include fixed systems for powertrain assembly and handheld solutions for final assembly processes.

Aerospace
A long history of providing tools solutions to aerospace companies. We cover a wide range of their needs, from airframe and engine construction to system assembly.

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.

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.

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.

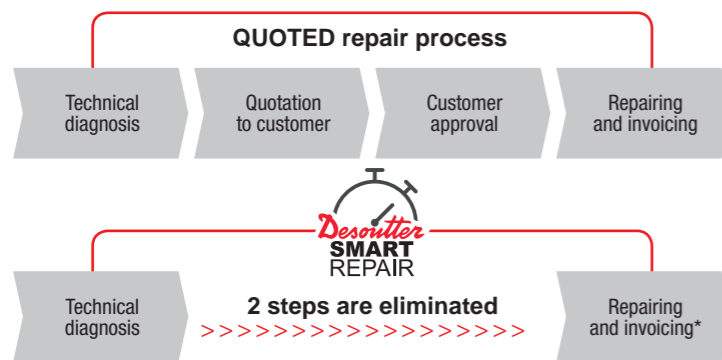


Service solutions - FIT Concept

For all your needs



REPAIR FAST AND HIGH QUALITY REPAIRS

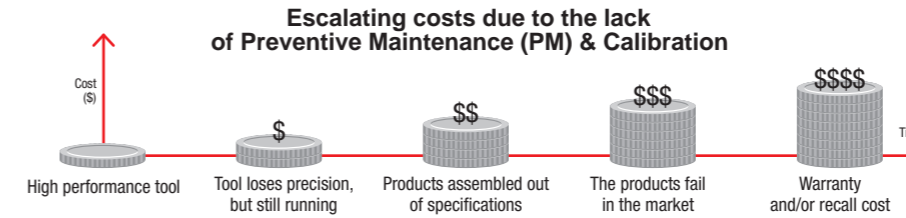


*Just one invoice per month.



- Shorter repair turnaround time
- High quality repair
- Reduce on Administrative time
- Efficiency on spare parts stock
- Better MTBF

PREVENTIVE MAINTENANCE QUALITY ASSURANCE AT LOWEST COST



- Assembly process more reliable
- Avoid escalating quality costs
- Minimize production losses
- Reduce the repair costs
- Predictable maintenance budget

PEACE OF MIND KEEP THE FOCUS ON YOUR CORE BUSINESS



- TO OUR CUSTOMERS**
- No concerns about tools
 - Fixed budget no surprises

ON-SITE SUPPORT SUPERIOR SERVICE AT YOUR CONVENIENCE

- Process optimisation
- Emergency calls
- Preventive Maintenance
- Repair
- Calibration
- Training
- Communication network



- Quick response time
- Reduction in the equipment downtime
- Highly qualified team at your disposal
- Optimize the reliability of your processes
- Reduction of the total cost of ownership

BENEFITS

- Increase customers productivity
- One supplier accountable for tools management
- Ensure tools reliability and assembly quality
- Minimise production stoppage and consequential losses
- Increase tools availability
- Quicker response and shorter turnaround time
- Production line support
- Costs reduction on:
 - quality: reworks, warranty and recalls
 - logistics process
 - administration (one invoice per month)
- Controlled budget during the year
- Solutions including backup tools
- Monthly KPIs report - definition of improvements plan
- Customised solutions to meet customer requests



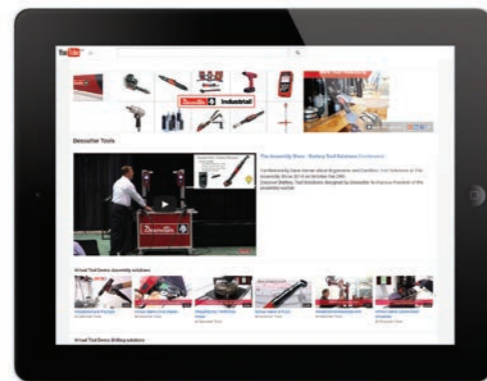
CONSULT
our Service catalogue, we have much more BENEFITS to you!
www.desouttertools.com



EASY TO FIND QUICK TO GET

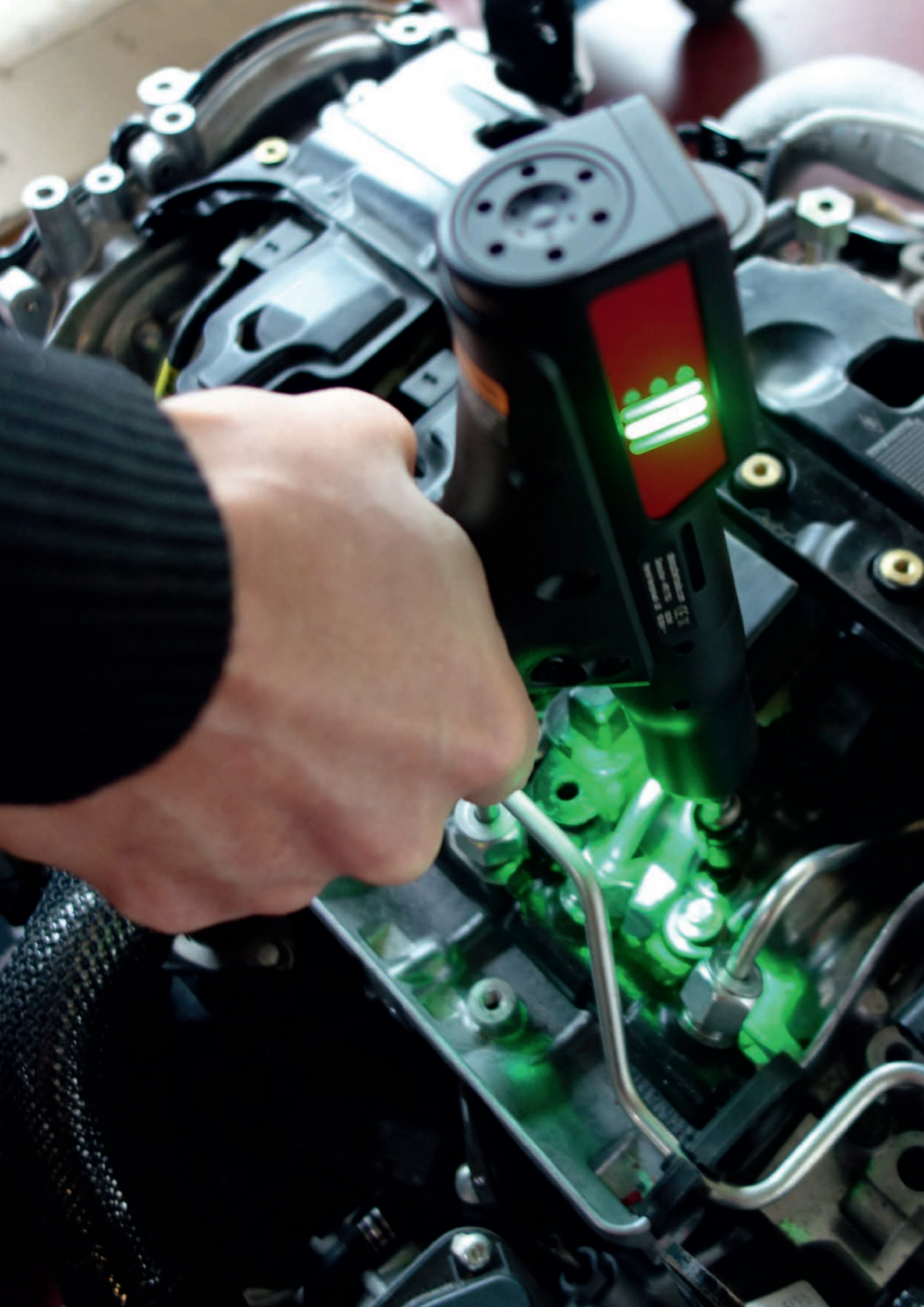
Product brochures, exploded views,
certificates of conformity, CAD files...
Find all the Technical documentation that you need!

GET TO KNOW DESOUTTER INDUSTRIAL TOOLS
from another perspective and stay in touch with us!



Assembly Tools - Selection Guide

TOOL TYPE	PAGE
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E-LIT Series - Optimize your performance





Clutch Battery Tool range



desoutter.info/E-LIT

FOCUS



3 MODELS TO CHOOSE FROM	 BRUSHLESS MOTOR	 LI-ION BATTERY	 E-LIT CONFIG SOFTWARE	 SPEED MODULE	 E-LIT BOX
E-LIT PLUS ELECTRONIC BRUSHLESS (ELB) PISTOL AND ANGLE 	✓	✓	✓		
E-LIT PREMIUM ELECTRONIC BRUSHLESS SPEED CONTROL (ELS) PISTOL AND ANGLE 	✓	✓	✓	✓	
E-LIT WIRELESS COMMUNICATION WITH E-LIT BOX (ELC) PISTOL AND ANGLE 	✓	✓	✓	✓	✓

Tool management device

Speed setting
For ELS and ELC models

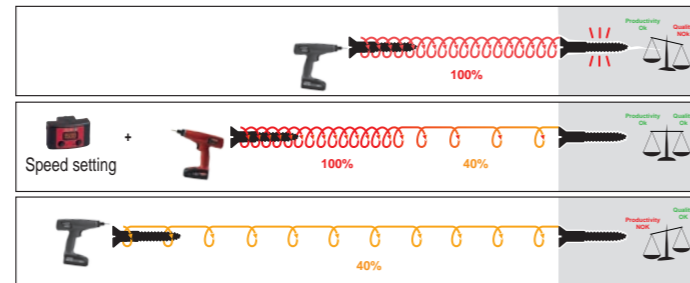
Two speed setting easily controlled by external module



Everything needed to optimize your assembly process

Guarantee quality and keep high productivity

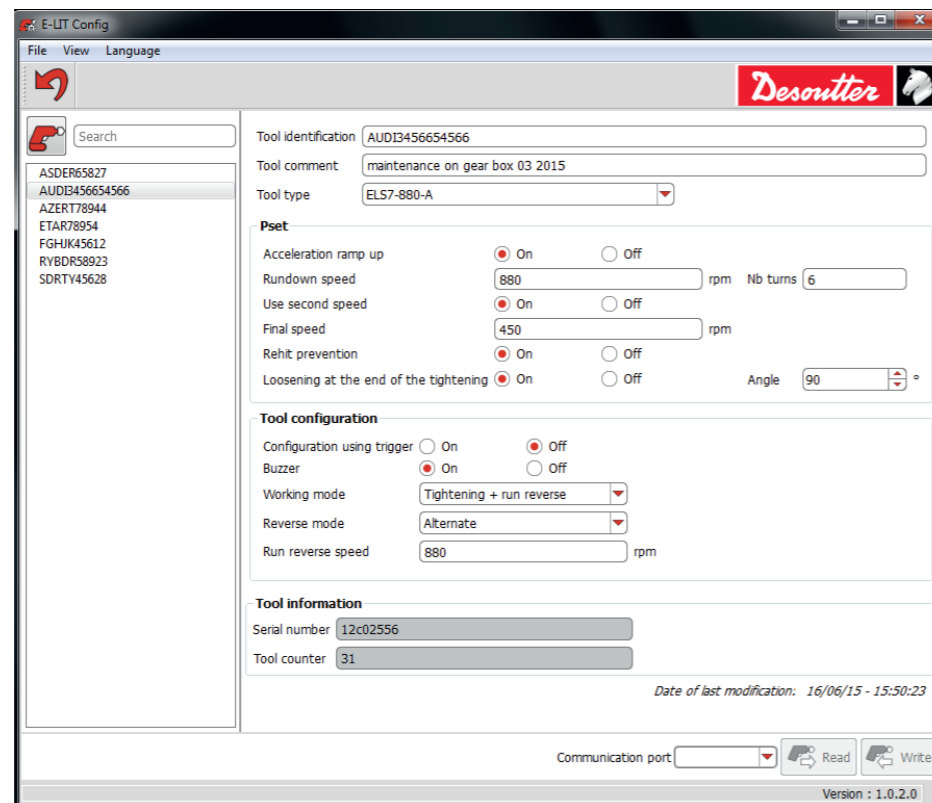
- Decrease final speed to ensure tightening quality
- Avoid quality defects in your final product
- Decrease starting speed to facilitate bolt engagement



E-LIT CONFIG software

Manage your E-LIT tools

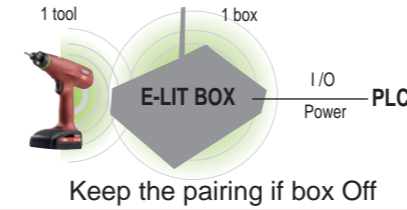
- Save your E-LIT tool setting
- Use your own tool ID
- Upload saved setting on new tools
- Go further on the setting possibility



E-LIT BOX

For Poka-Yoke Application

FOCUS



Keep the pairing if box Off

Pairing

- Easy Pairing with dedicated button
- Keep the pairing if box Off

Poka-Yoke application

- OK/NOK Management
- Batch count : up to 4 different batch settings
- Batch count strategy
- Cross thread prevention

Connection

- Integrated power supply switch (24 V power switch)
- M12 male connector 24 V power supply and 4 digital INPUTS
- M12 female connector 8 Digital OUTPUTS
- USB port for an easy and fast connection to setting software

Wireless communication
IEEE 802.15.4 standard
Fast reconnection time & Low consumption



EASY PAIRING PROCESS

1. Press the "Easy Pairing" Button
2. Power on the E-LIT BOX
3. Press both, tool trigger and reverse, while inserting battery pack
4. Pairing completed



NO DATA LOSS



Integrated buffer memory
up to 25 results

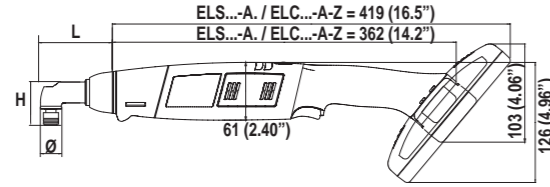
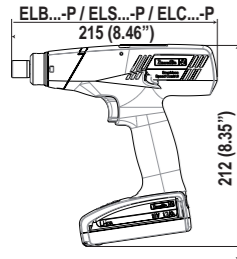
When wireless communication is stopped, reports are stored within ELC tool

You can decide to lock (or not) tool when memory buffer is full in order to prevent losing reports

Accessories

E-LIT Series

0.4 to 45 Nm (3.5 to 398 in.lb) - 50 to 1550 rpm



MODEL	H		L		Ø	
	mm	in	mm	in	mm	in
ELS7 / ELC7	45.5	1.79	75.7	2.98	22	0.87
ELS15 / ELC15	41.5	1.63	75.7	2.98	22	0.87
ELS30 / ELC30	45.5	1.79	134.2	5.28	28	1.10
ELS45 / ELC45	51.1	2.01	144.6	5.69	35	1.38

OPTIONAL ACCESSORIES

ITEM		PISTOL	ANGLE HEAD 18V	ANGLE HEAD 36V	ELC TOOLS	PART NO.
Battery type						
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	✓	✓		✓	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	✓	✓		✓	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)			✓	✓	615 811 924 0
Chargers						
4	For Li-ion Battery 18 / 36V - 100 / 240V	✓	✓	✓	✓	615 811 654 5
Protective covers - Tools						
5	For Pistol - Clear	✓			✓	615 396 870 0
5	For Pistol - Black	✓			✓	615 211 030 0
5	For Pistol - Blue	✓			✓	615 211 031 0
5	For Pistol - Red	✓			✓	615 211 032 0
5	For Pistol - Grey	✓			✓	615 211 033 0
6	For Body angle head - Black		✓	✓	✓	615 211 004 0
6	For Body angle head - Blue		✓	✓	✓	615 211 025 0
6	For Body angle head - Red		✓	✓	✓	615 211 026 0
6	For Body angle head - Grey		✓	✓	✓	615 211 027 0
6	For Angle <15Nm - Black		✓		✓	615 397 672 0
6	For Angle 30Nm - Black			✓	✓	615 573 214 0
6	For Angle 45Nm - Black			✓	✓	615 573 215 0
Protective covers - Battery						
7	For Battery 18V 2.1Ah - Clear	✓	✓		✓	615 396 871 0
7	For Battery 18V 2.1Ah - Black	✓	✓		✓	615 211 041 0
7	For Battery 18V 2.1Ah - Blue	✓	✓		✓	615 211 042 0
7	For Battery 18V 2.1Ah - Red	✓	✓		✓	615 211 043 0
7	For Battery 18V 2.1Ah - Grey	✓	✓		✓	615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	✓	✓	✓	✓	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	✓	✓	✓	✓	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	✓	✓	✓	✓	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	✓	✓	✓	✓	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	✓	✓	✓	✓	615 211 049 0
Miscellaneous						
	• Kit Overmould Presto (x10 pcs)					615 211 057 5
8	Speed Setting Module (ELS/ELC version)	✓	✓	✓	✓	615 396 829 0
9	Pistol tool holster	✓			✓	615 804 914 0
10	Side handle - Pistol	✓			✓	615 396 757 0
11	Suspension bail - Pistol	✓			✓	443 703
12	Kit colour rings - Pistol (7 colors: white, yellow, orange, green, blue, purple, grey)	✓			✓	615 396 742 5
12	Kit colour rings - Angle tools (8 colors: white, yellow, orange, green, blue, purple, grey, black)		✓	✓	✓	615 970 114 5
13	Kit Nose Crowfoot	✓			✓	615 810 695 0
14	E-LIT BOX-V2				✓	615 936 310 0
15	Power supply E-LIT BOX				✓	615 927 053 0
16	eDOCK	✓	✓	✓	✓	615 811 976 0
	• E-LIT CONFIG software		✓	✓	✓	615 927 778 0
Desoutter Tool Holsters						
17	DTH-42	✓			✓	107892
18	DTH90	✓			✓	615 812 119 0
19	DTH TWIN (single) without rail		✓	✓	✓	615 811 411 0
20	DTH TWIN rail kit with 2 Twin holders		✓	✓	✓	615 811 412 5
21	DTH TWIN stand kit with 2 Twin holders		✓	✓	✓	615 811 413 5



A



B



C

PIC REF	MODEL	PART NUMBER	TORQUE RANGE		ROTATIONAL SPEED	OUTPUT DRIVE	WEIGHT WITHOUT BATTERY		VOLTAGE
			Nm	in.lb			kg	lb	
E-LIT PLUS - ELECTRONIC BRUSHLESS MOTOR									
A	ELB 2.5-1250-P	615 165 415 0	0.4-2.5	3.5-22	1250	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-900-P	615 165 416 0	0.8-6	7.1-53	900	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-670-P	615 165 440 0	0.8-6	7.1-53	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 8-670-P	615 165 417 0	1.5-8	13.3-70	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 12-600-P	615 165 418 0	3-12	26.5-106	570	Hex. 1/4 F	0.8	1.76	18
E-LIT PREMIUM - ELECTRONIC BRUSHLESS SPEED SETTING									
A	ELS 2.5-1550-P	615 165 419 0	0.4-2.5	3.5-22	500-1550	Hex. 1/4 F	0.8	1.76	18
A	ELS 6-1000-P	615 165 420 0	0.8-6	7.1-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P	615 165 605 0	1.5-8	13.3-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-800-P	615 165 421 0	1.5-8	13.3-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P4S	615 165 825 0	1.5-8	13.3-70	120-400	Sq. 1/4	0.8	1.76	18
A	ELS 12-600-P	615 165 422 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
A	ELS 12-400-P4S	615 165 826 0	3-12	26.5-106	120-400	Sq. 1/4	0.8	1.76	18
B	ELS 7-360-A4S	615 165 725 0	1.5-7	13.3-62	120-360	Sq. 1/4	1.2	2.6	18
B	ELS 7-880-A	615 165 628 0	1.5-7	13.3-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELS 15-480-A	615 165 629 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
B	ELS 15-480-A4S	615 165 839 0	5-15	44.2-133	200-480	Sq. 1/4	1.2	2.6	18
C	ELS 30-300-A	615 165 630 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELS 45-180-A	615 165 631 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36
E-LIT WIRELESS - COMMUNICATION WITH E-LIT BOX									
A	ELC 6-1000-P-Z	615 165 701 0	3-6	26.5-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-400-P-Z	615 165 702 0	3-8	26.5-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-800-P-Z	615 165 703 0	3-8	26.5-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELC 12-600-P-Z	615 165 704 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
B	ELC 7-360-A4S-Z	615 165 726 0	3-7	26.5-62	150-360	Sq. 1/4	1.2	2.6	18
B	ELC 7-880-A-Z	615 165 707 0	3-7	26.5-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELC 15-480-A-Z	615 165 708 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
C	ELC 30-300-A-Z	615 165 709 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELC 45-180-A-Z	615 165 710 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36

Battery not included in standard offering

B-FLEX: performance and flexibility



desoutter.info/B-FLEX-video

FOCUS

- Wide range from 1.5 to 17 Nm
- Long life, spiral cut bevel gears
- 4 colors reporting Led
- PC Free for Pset setting
- Compatible 18V / 36V Battery for pistol tools
- Torque transducer accuracy
- Password protection
- Patented non contact and effort trigger
- 36 Volt, long life Li-ion battery technology
- Wide range from 5 up to 95 Nm
- 2 battery positions for the highest ergonomics

KEY POINTS

BEST ERGONOMICS	HIGH TECHNOLOGY	QUALITY CONTROL
Ergostop technology to avoid RSI (Repetitive Strain Injury)	Smart embedded HMI on tool	Direct feedback for the operator
Perfectly balanced grip design	High resolution transducer	Visible tightening results on tool HMI
Rebalancing with the two different battery positions	New motor dedicated to battery tools: high speed, high torque, low temperature	Torque control and angle monitoring
Operator comfort		

B-FLEX: Ergonomics and Control



desoutter.info/B-FLEX

ERROR PROOF QUALITY CONTROL

- Direct feedback for the operator
- Torque and Angle tightening result
- Torque control tightening strategy

No PC needed

100 last results on CVI monitor

USB cable included

- Data to collect
- Password protection
- Battery level
- Easy setting
- Ergostop
- Program setting
- Results: 10.03Nm, 162.30Deg

B-FLEX ADVANCED (Standard features +)

6 Pset

6 TOOLS in 1 B-FLEX

Angle Strategy

Error proof your standard tightenings

Full data collection

(up to 10 000 on CVI Analyzer)

CVI ANALYZER

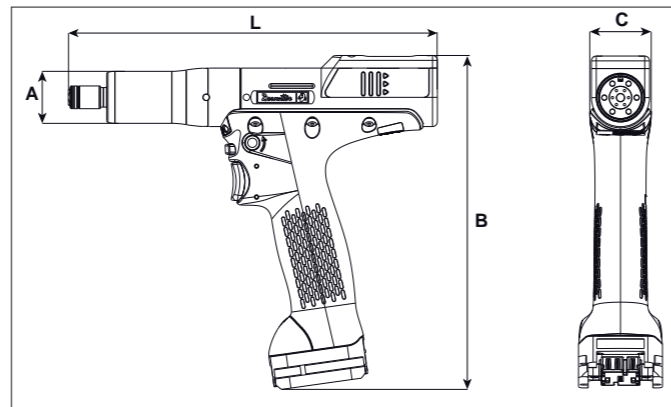
USB cable included

B-FLEX Series - Pistol grip

1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm



MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPB 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



ACCESSOIRES
see page 22

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE					ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.	18V	36V	kg	

B-FLEX - TRANSDUCERIZED BATTERY TOOL

A	EPB 8-1800-4Q	615 165 899 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPB 8-1800-10S	615 165 903 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPB14-900-4Q	615 165 978 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPB14-900-10S	615 165 977 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPB 17-700-4Q	615 165 905 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPB 17-700-10S	615 165 901 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36

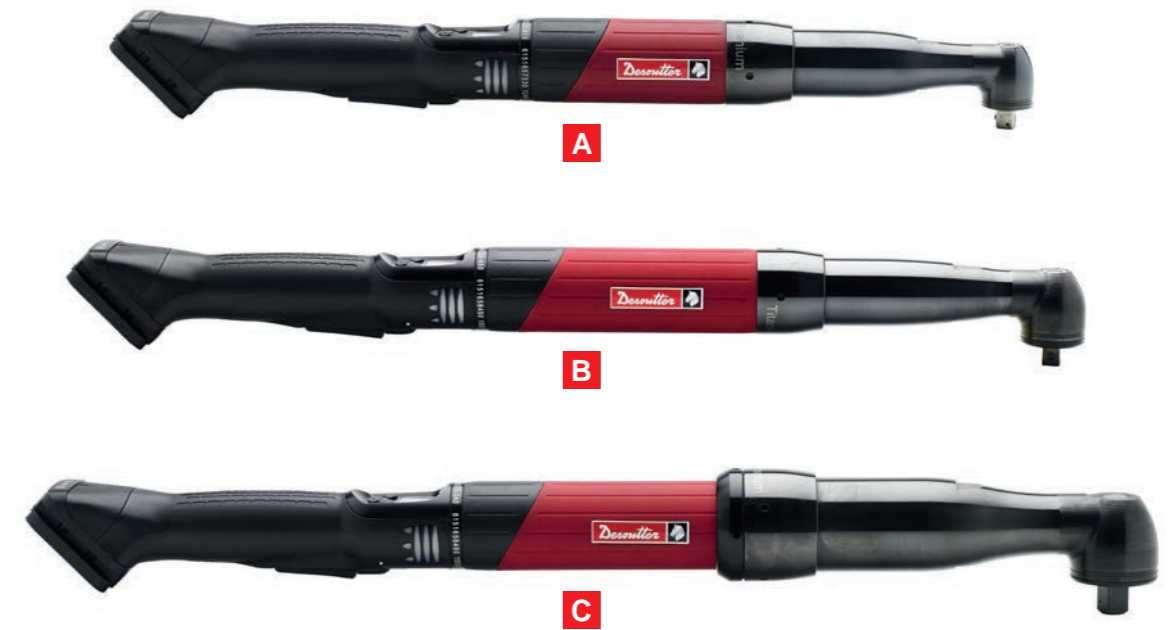
B-FLEX - ADVANCED

A	EPBA 8-1800-4Q	615 165 972 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPBA 8-1800-10S	615 165 971 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPBA14-900-4Q	615 165 974 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPBA14-900-10S	615 165 973 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPBA 17-700-4Q	615 165 976 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPBA 17-700-10S	615 165 975 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36

• Battery not included in standard offering
• Battery 18V, 2.1Ah - Weight: 0.35kg (0.77lb) / 18V, 4.2Ah & 36V, 2.1Ah - Weight: 0.60kg (1.32lb)

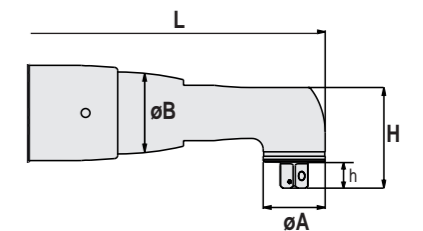
B-FLEX Series - Angle head

5 to 95 Nm (3.7 to 70 ft.lb) - 10 to 900 rpm



MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAB 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EAB 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EAB 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EAB 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91

L = Tool length without battery



ACCESSOIRES
see page 22

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE						ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		rpm	kg	

B-FLEX - TRANSDUCERIZED BATTERY TOOL

•	EAB 15-900	615 165 731 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EAB 26-560	615 165 732 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EAB 32-410	615 165 733 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EAB 45-330	615 165 734 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EAB 50-450	615 165 735 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EAB 60-370	615 165 736 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EAB 75-300	615 165 737 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EAB 95-240	615 165 738 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

B-FLEX - ADVANCED

•	EABA15-900	615 165 961 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABA26-560	615 165 962 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABA32-410	615 165 963 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABA45-330	615 165 964 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABA50-450	615 165 965 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABA60-370	615 165 966 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABA75-300	615 165 967 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABA95-240	615 165 968 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard offering
• Battery 36V, 2.1Ah - Weight: 0.60 kg

Accessories



EPB / EAB

ACCESSORIES INCLUDED

	EPB/EPBA
• Pistol protective cover Red	615 211 022 0

OPTIONAL ACCESSORIES

ITEM	EAB/EABA	EPB/EPBA
Battery type		
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0
Charger		
4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5
Protective covers - Tools		
5	For Angle head EAB 15	615 211 003 0
5	For Angle head EAB 26/32	615 573 207 0
5	For Angle head EAB 45/50	615 573 208 0
5	For Angle head EAB 60	615 573 209 0
5	For Angle head EAB 75/95	615 573 210 0
6	Pistol protective cover Black	615 211 019 0
Protective covers - Battery		
7	For Battery 18V 2.1Ah - Clear	615 396 871 0
7	For Battery 18V 2.1Ah - Black	615 211 041 0
7	For Battery 18V 2.1Ah - Blue	615 211 042 0
7	For Battery 18V 2.1Ah - Red	615 211 043 0
7	For Battery 18V 2.1Ah - Grey	615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0
Miscellaneous		
8	Nose crowfoot adapter for EPB	615 565 518 0
9	eDOCK	615 811 976 0
10	Side handle	615 397 016 0
Desouter Tool holster		
11	DTH TWIN (single) without rail	615 811 411 0
12	DTH TWIN rail kit with 2 Twin holders	615 811 412 5
13	DTH TWIN stand kit with 2 Twin holders	615 811 413 5
14	DTH90	615 812 119 0

Advanced Tightening Systems

ELECTRIC TRANSDUCER CORDLESS

EABcom	5 - 95 Nm	
EPBcom	1.5 - 17 Nm	

ELECTRIC TRANSDUCER CORD



EAD	3 - 660 Nm	
EID	3 - 270 Nm	
EFDE / EFDS	1 - 280 Nm	
EFDA	12 - 580 Nm	



ELRT	10 - 25 Nm	
ERAL	2 - 480 Nm	
ERDL	0.5 - 250 Nm	
ERP	0.35 - 42 Nm	
EME	1 - 1900 Nm	



EMEL	10 - 800 Nm	
EME OF	4 - 350 Nm	
ERP HT	75-1700 Nm	
ERS (M20)	0.6 - 22 Nm	
ERSA	0.6 - 27 Nm	
ERSF	1.5 - 12 Nm	

ELECTRIC CURRENT CONTROL



ECS (M20)	0.12 - 16 Nm	
ECSA	0.55 - 11.5 Nm	
ECSF	0.12 - 16 Nm	



ECP.L	1 - 20 Nm	
ECA15	5 - 15 Nm	
ECD5	2 - 6 Nm	
MC35-10	2.5 - 8 Nm	

ECA	7 - 200 Nm	
ECD	7 - 120 Nm	
ECP	7 - 4000 Nm	
ECP HT	7 - 4000 Nm	
MC	5 - 135 Nm	



The new standard of Value in Efficient Tightening...

In an era of FLEXIBLE manufacturing and the race to ZERO-fault assembly, Desoutter is proud to introduce the new standard of Value in Efficient Tightening for safety-critical applications: CVI3 assembly system

This new system offers unequalled EFFICIENCY for all plants thanks to the best combination of advanced process control, easy integration, user-friendly interface & unmatched flexibility

The CVI3 system integrates UNIQUE added value INNOVATIONS:
Reduce rework cost: complete station process control including tightening

& logical operations without need for a dedicated PLC > **Assembly Process**
Decrease installation/re-balance cost: Fast & easy line re-balancing with multiple Battery transducerized tools connected to 1 CVI3 controller > **EAB cordless tools**

Improve quality with intuitive software: User-friendly & visual interface to view tightening data & detect quality issues > **CVI ANALYZER**

Optimize flexibility: 2 fixtured spindles synchronized or asynchronous in standard > **TWINCVI3**



**ADVANCED
PROCESS
CONTROL**



**EASY
INTEGRATION**



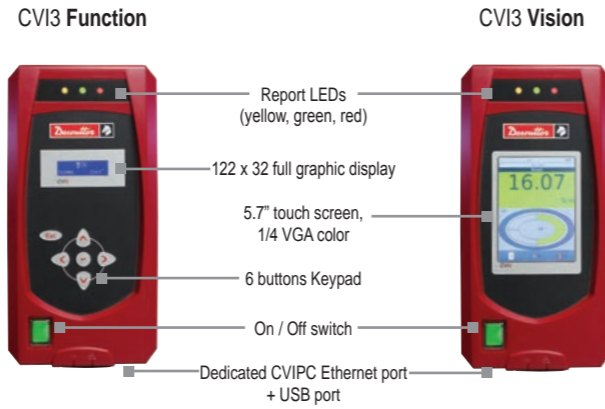
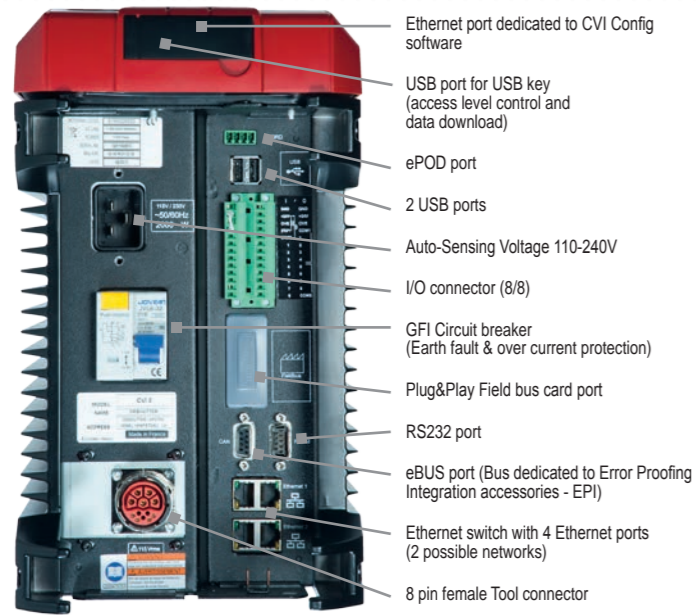
**UNMATCHED
FLEXIBILITY**



**USER-FRIENDLY
INTERFACE**



Technical features



FEATURES	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
Controllers			
Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm3)	19.5	19.5	29.6
Color touchscreen		✓ (5.7")	✓ (5.7")
Storage			
Pset results (torque, angle, date, time, report)	10000	10000	10000/20000
Pset curves (OK/NOK)	20	20	20/40
Assembly Process results	1000	1000	1000/2000
Event log storage (number of events)	500	500	500
Basic Functions			
Nbr of Psets	250	250	250
Nbr of steps per Pset	15	15	15
Barcode reading (standard and 2D)	✓	✓	✓
Learning mode	✓	✓	✓
Quick Pset	✓	✓	✓
Tube nut release	✓	✓	✓
Advanced Functions			
Access Level Control/Management with unlimited profiles	✓	✓	✓
ID input to select Assembly Process (up to 4 different identifiers)	✓	✓	✓
Number of Assembly Process	250	250	250
Advanced Soft PLC (in option with CVILOGIX)	✓	✓	✓
1 Network/Fieldbus Access point per group of up to 14 controllers		✓	✓
Full synchronized control for a group of up to 14 controllers (static/dynamic)		✓	✓
Tightening strategies			
*Control: torque, angle, torque OR angle, torque AND angle, yield point, torque rate	✓	✓	✓
*Monitoring: yield point, torque rate, 2nd torque, 2nd angle, 2nd part angle, current, slip off, stick slip	✓	✓	✓
Connectivity			
Configurable I/O	8/8	8/8	8/8
USB ports (2 + 1 front)	✓	✓	✓
Embedded Ethernet switch (4 ports + 1 front – 2 networks)	✓	✓	✓
Dedicated Bus for up to 15 accessories in daisy chain	✓	✓	✓
Optional Fieldbus			
Plug&Play Fieldbus card port (EthernetIP, ProfiNet A/B, Modbus TCP, DeviceNet, Profibus, CC-Link)	✓	✓	✓
Fieldbus dynamic memory mapping	✓	✓	✓

Controllers



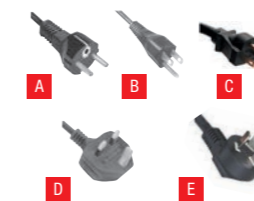
PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS			WEIGHT				
			115V	220V		50/60 Hz	WIDTH	HEIGHT	DEPTH	kg	lb.		
A	CVI3 Vision	615 932 691 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	TWINCVI3	615 932 697 0	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15.0	33.1
C	CVI3 Function	615 932 690 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5

CVIMONITOR included with controller: License free remote software for realtime monitoring of results, curves, I/O status, Fieldbus diagnostic, calibration & maintenance indicators

POWER CORD

to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 069 0
B	US NEMA 5-15	615 917 060 0
C	US NEMA 5-20	615 917 063 0
D	UK	615 917 070 0
E	Chinese	615 917 061 0



OPTIONAL ACCESSORIES

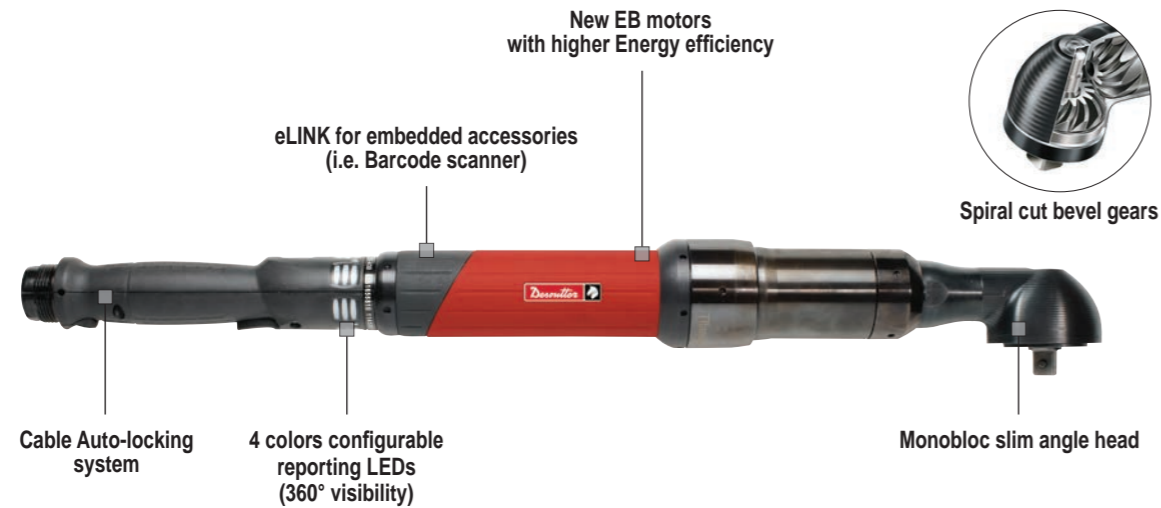
ITEM		PART NO.
Fieldbus modules		
1	Profibus module	615 927 595 0
2	ProfiNet module (1 port)	615 927 596 0
3	ProfiNet module (2 ports)	615 927 597 0
3	ProfiNet IRT module (2 ports)	615 927 070 0
4	DeviceNet module	615 927 599 0
4	CC-Link module	615 927 598 0
5	EtherNet IP module	615 927 594 0
6	Modbus TCP module	615 927 615 0
ePOD		
7	ePOD1	615 936 075 0
7	ePOD2	615 936 076 0
7	ePOD3	615 936 077 0
Others Accessories		
8	Table mounting	615 397 399 5
9	Wall mounting CVI3 Function/Vision	615 397 631 5
10	Wall mounting TWINCVI3	615 811 897 0



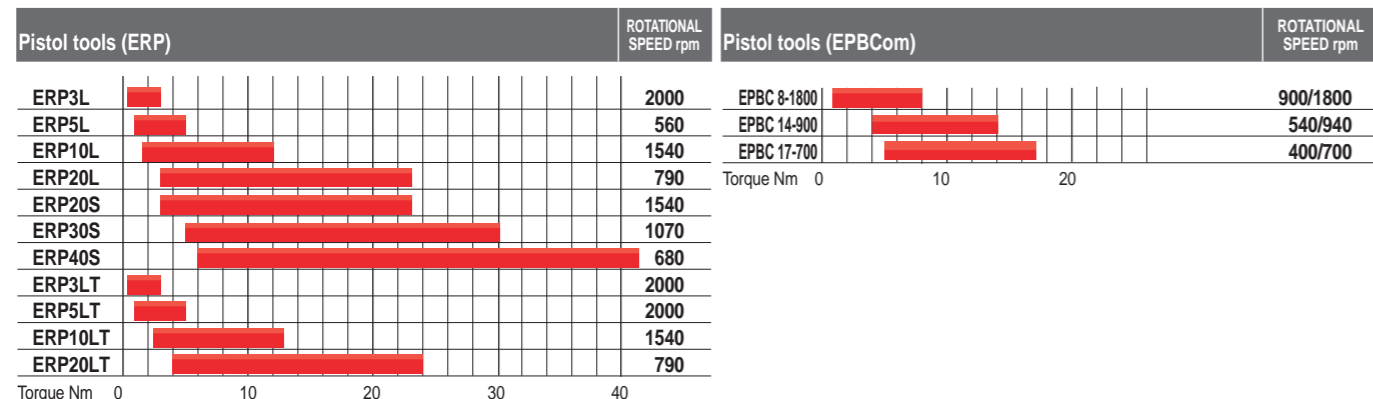
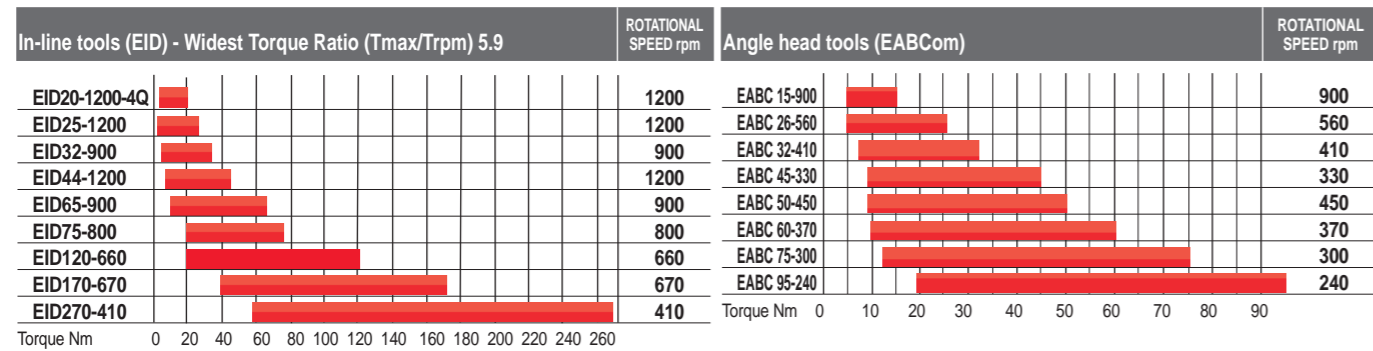
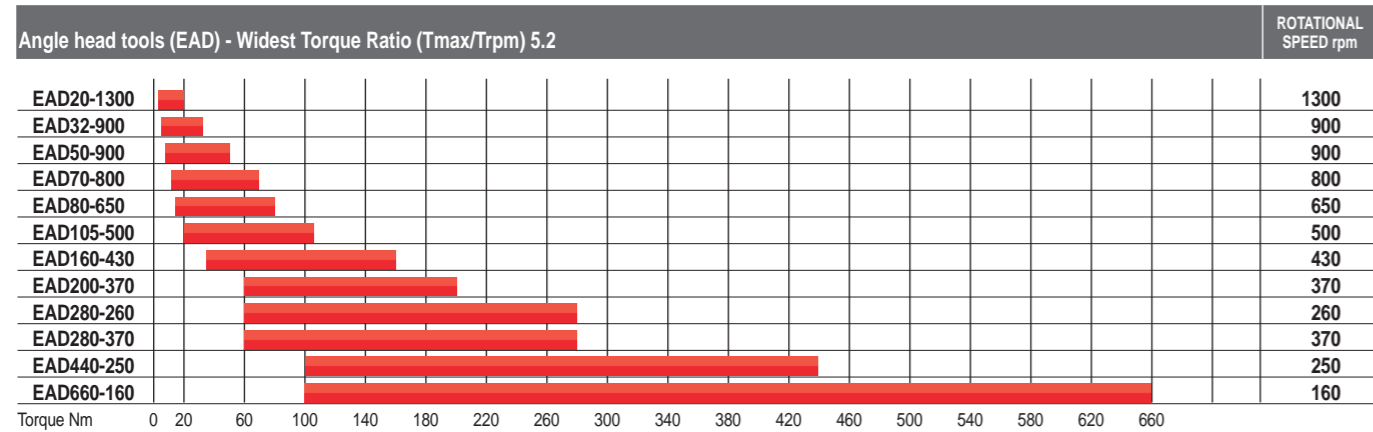
OPTIONAL ACCESSORIES

	PART NO.
Software	
• CVI CONFIG - 1 user	615 927 699 0
• CVI CONFIG - 5 users	615 927 700 0
• CVI CONFIG - 25 users	615 927 701 0
• CVI ANALYZER - 1 user	615 927 696 0
• CVI ANALYZER - 5 users	615 927 697 0
• CVI ANALYZER - 25 users	615 927 698 0
• CVINET WEB - 1 cont.	615 927 736 0
• CVINET WEB - 10 cont.	615 927 737 0
• CVINET WEB - 25 cont.	615 927 738 0
• CVINET WEB - 50 cont.	615 927 739 0
• CVINET WEB - 100 cont.	615 927 747 0
• CVINET WEB - 200 cont.	615 927 748 0
• Upgrade from CVI NET to CVINET WEB 1 cont.	615 927 740 0
• Upgrade from CVI NET to CVINET WEB 10 cont.	615 927 741 0
• Upgrade from CVI NET to CVINET WEB 25 cont.	615 927 742 0
• Upgrade from CVI NET to CVINET WEB 50 cont.	615 927 743 0
• Upgrade from CVI NET to CVINET WEB 200 cont.	615 927 744 0
• CVIKEY (access level management on USB key)	615 927 676 0

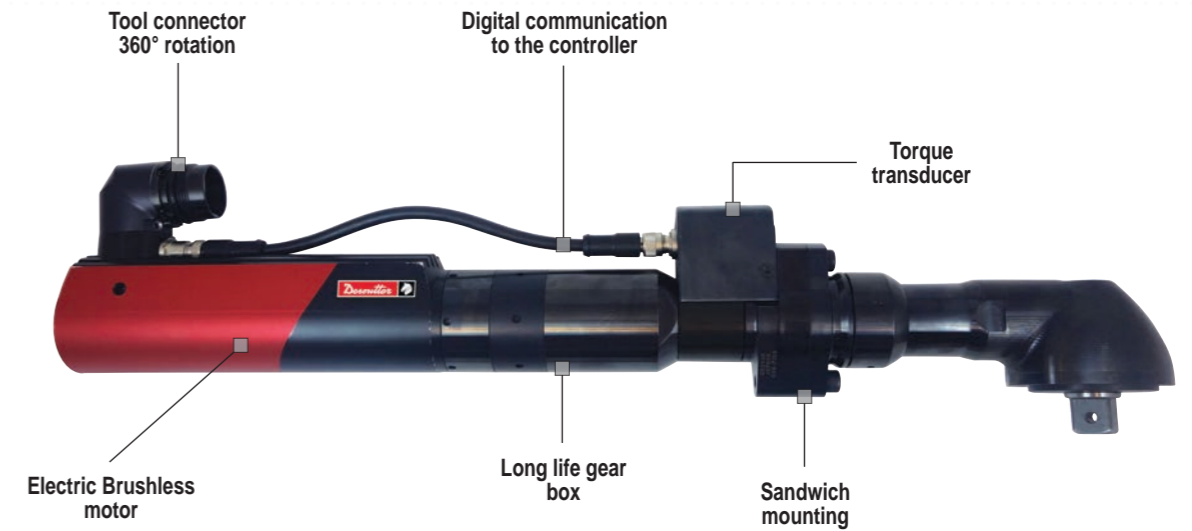
Torque Range - Portable electric nutrunners



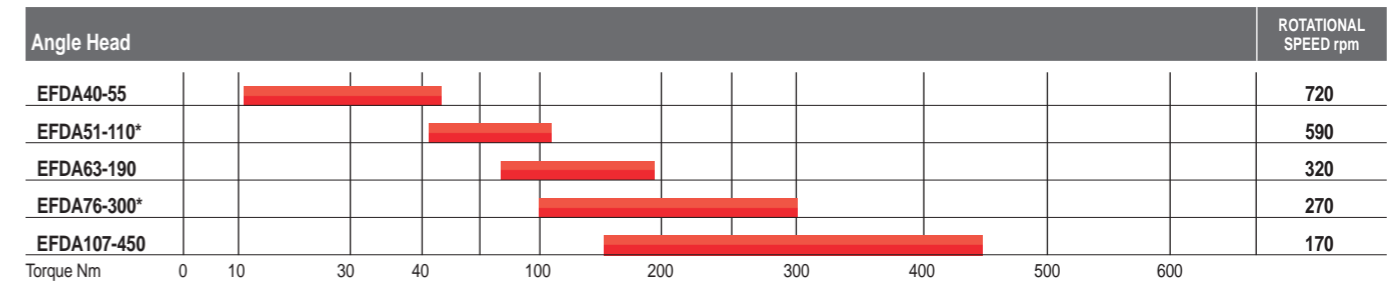
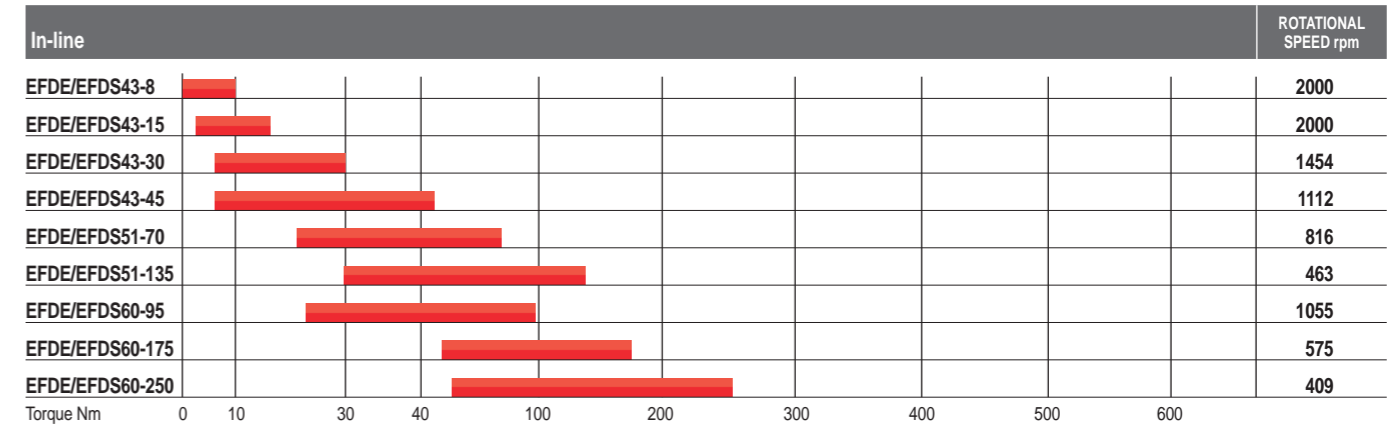
Performance of Portable electric nutrunners - EAD, EID, EABC, EPBC and ERP



Torque Range - Fixtured electric spindles



Performance of Fixtured electric spindles - Series EFDE, EFDS and EFDA



*On request, contact your Desoutter representative

For Higher torque, please refer to the section EME tools (page 57)
 - EME up to 1900 Nm (1400 ft.lb)
 - EME Offset up to 300 Nm (221 ft.lb)
 - EMEL up to 800 Nm (590 ft.lb)

Pistol grip electric nutrunners - CVI3

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



A



B



C



D

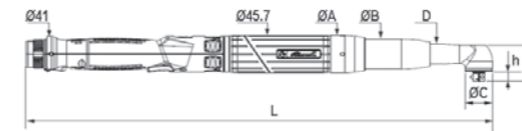
ACCESSORIES
see pages 42-43

CVI II Adapter needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		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. 1/4 F	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. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
A	ERP10L	615 165 195 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
A	ERP20L	615 165 196 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
A	ERP20S	615 165 197 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
B	ERP30S	615 165 198 0	Sq. 3/8	5	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
C	ERP40S	615 165 263 0	Sq. 3/8	6	40	42	4.4	29.5	31	680	274	11	1.7	3.7
D	ERP3LT	615 165 227 0	Hex. 1/4 F	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. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
D	ERP10LT	615 165 229 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
D	ERP20LT	615 165 230 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4

Angle head electric nutrunners - CVI3

3 to 105 Nm (2.2 to 77.4 ft.lb) - 500 to 1300 rpm



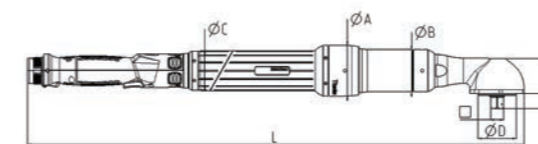
MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD20-1300	12.0	0.47	45.5	1.79	46	1.81	37	1.46	28	1.10	25	0.98
EAD32-900	12.0	0.47	45.5	1.79	46	1.81	37	1.46	28	1.10	25	0.98
EAD50-900	12.0	0.47	51.1	2.01	46	1.81	37	1.46	35	1.38	28	1.10
EAD70-800	12.0	0.47	56.7	2.23	58	2.28	43	1.69	40	1.57	32	1.26
EAD70-800 - 1/2"	17.0	0.67	62.0	2.43	58	2.28	43	1.69	40	1.57	32	1.26
EAD80-650	17.5	0.69	60.4	2.38	58	2.28	48	1.89	45	1.77	40	1.57
EAD105-500	17.5	0.69	60.4	2.38	58	2.28	48	1.89	45	1.77	40	1.57

ACCESSORIES
see pages 42-43

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD20-1300	615 165 606 0	3/8	3	18	20	2.2	13.3	14.8	1300	481	19.2	1.4	3.08
EAD32-900	615 165 607 0	3/8	5	30	32	3.7	22.1	23.6	900	481	19.2	1.4	3.08
EAD50-900	615 165 609 0	3/8	8	45	50	5.9	33.2	40.6	900	531	20.9	1.8	3.96
EAD70-800	615 165 611 0	3/8	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD70-800	615 165 882 0	1/2	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD80-650	615 165 612 0	1/2	15	75	80	11.1	55.3	59	650	567	22.3	2.4	5.72
EAD105-500	615 165 613 0	1/2	20	90	105	14.8	66.4	77.4	500	567	22.3	2.4	5.72

Angle head electric nutrunners - CVI3

35 to 660 Nm (26 to 487 ft.lb) - 160 to 430 rpm



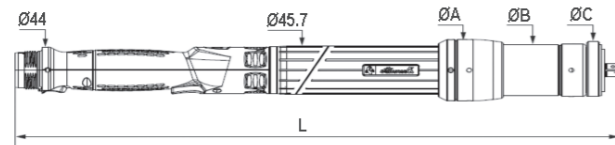
MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD160-430	17.1	0.67	65	2.56	66	2.6	55	2.17	52	2.05	50	1.16
EAD200-370	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-260	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-370	23	0.91	85	3.35	76	2.99	55	2.17	62	2.60	62	2.44
EAD440-250	24	0.94	91	3.58	76	2.99	67	2.64	66	2.60	75	2.95
EAD660-160	33.1	1.3	110	4.33	76	2.99	67	2.64	66	2.60	106	4.17

ACCESSORIES
see pages 42-43

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD160-430	615 165 681 0	1/2	35	150	160	26	111	118	430	650	25.6	4.3	9.5
EAD200-370	615 165 682 0	3/4	60	170	200	44	125	148	370	673	26.5	5.1	11.2
EAD280-260	615 165 683 0	3/4	60	250	280	44	184	207	260	673	26.5	5.1	11.2
EAD280-370	615 165 684 0	3/4	60	250	280	44	184	207	370	681	26.8	6.1	13.5
EAD440-250	615 165 685 0	3/4	100	400	440	74	295	325	250	735	28.9	8.4	18.5
EAD660-160	615 165 686 0	1	100	600	660	74	443	487	160	774	30.4	11.0	24.3

In-line electric nutrunners - CVI3

3 to 75 Nm (2.2 to 57.5 ft.lb) - 800 to 1200 rpm



MODEL	ØA		ØB		ØC	
	mm	in.	mm	in.	mm	in.
EID20-1200-4Q	62	2.44	37	1.46	60	2.36
EID25-1200	62	2.44	37	1.46	60	2.36
EID32-900	62	2.44	37	1.46	60	2.36
EID44-1200	62	2.44	48	1.89	54	2.13
EID65-900	58	2.28	48	1.89	54	2.13
EID75-800	58	2.28	48	1.89	54	2.13

ACCESSORIES
see pages 42-43

MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
EID20-1200-4Q*	615 165 992 0	Hex. 1/4 F	3	18	20	2.2	13.3	14.8	1200	430	16.9	1.20	2.64
EID25-1200*	615 165 614 0	Sq. 3/8	3	20	25	2.2	14.8	18.4	1200	430	16.9	1.20	2.64
EID32-900*	615 165 615 0	Sq. 3/8	5	30	32	3.7	22.1	25.1	900	430	16.9	1.20	2.64
EID44-1200*	615 165 616 0	Sq. 3/8	7	40	44	5.2	29.5	33.2	1200	489	19.3	1.95	4.29
EID65-900	615 165 617 0	Sq. 1/2	10	60	65	7.4	44.3	47.9	900	489	19.3	1.95	4.29
EID75-800	615 165 618 0	Sq. 1/2	20	70	75	14.8	51.6	57.5	800	489	19.3	1.95	4.29

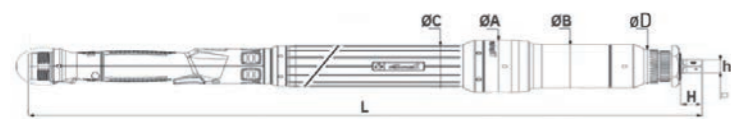
(*): Tools mounted with second lever start in standard

Crowfoot and tube nut tools



In-line electric nutrunners - CVI3

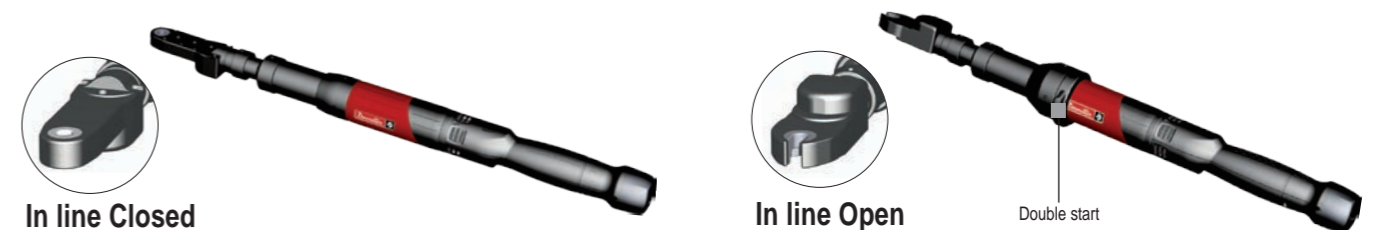
20 to 270 Nm (15 to 199 ft.lb) - 410 to 670 rpm



MODEL	ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.
EID120-660	66	2.60	55	2.17	52	2.05	42.0	1.65
EID170-670	72	2.83	55	2.17	66	2.60	42.0	1.65
EID270-410	76	2.99	67	2.64	66	2.60	53.5	2.11

ACCESSORIES
see pages 42-43

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
EID120-660	615 165 677 0	1/2	20	110	120	15	81	89	660	583	22.9	3.3	7.3
EID170-670	615 165 678 0	1/2	40	150	170	30	111	125	670	591	23.3	4.6	10.1
EID270-410	615 165 679 0	3/4	60	250	270	44	184	199	410	625	24.6	6.1	13.5



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 also provide customized tools.

Wireless transducerized battery tool

EPBcom Series

1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm

Multi Battery Tools

Virtual controllers management by Desoutter

Optimized footprint - free from cable - Full Traceability

Access point



WITH 1 CVI3 VISION
ADD UP TO 3 VIRTUAL CONTROLLERS
GET UP TO 4 BATTERY TOOLS CONNECTED

EP0D 2C up to 2 battery tools



EP0D 3C up to 3 battery tools



EP0D 4C up to 4 battery tools



Accessories can be dedicated to only one virtual controller or to the whole virtual controllers

Tool overview

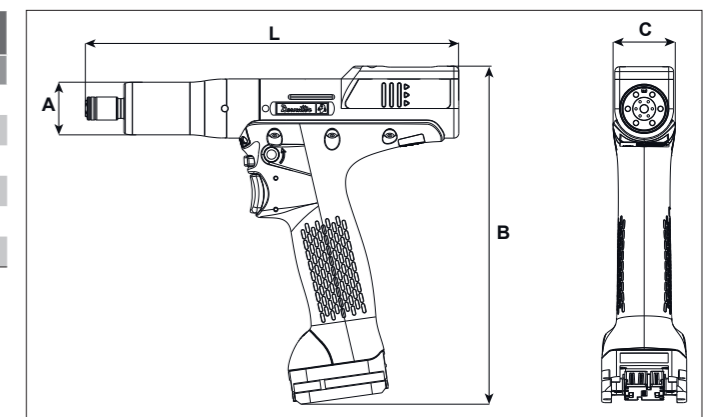


Pistol Version : additional features

- Torque 1,5-17 Nm
- Compatible with both 18v and 36V batteries
- White LED activated by movement



MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPBC 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



ADVANCED ERGONOMICS

- Low weight tools
- Effortless trigger
- 45° oriented battery (angle version)
- Slim angle head for tight areas access

INCREASED PRODUCTIVITY

- High speed tool and increased autonomy with 36V battery & 2.1 Ah capacity
- Embedded display for pset selection
- Strong & efficient wireless communication, tested in industrial environment

EASY INTEGRATION

- Quick wireless installation - Directly on an existing CVI3 controller
- Data collection through wireless communication
- Improve error-proofing control with advanced tightening strategies
- Easy attachment for crowfoot & tubenuts

OPTIMIZED MAINTENANCE

- Long life batteries, no memory effect on Li-ion battery
- Dust & oil proof trigger
- Common spare parts with all CVI3 range

ACCESSORIES
see page 37

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE						ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.	18V	36V	kg	lb	
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb					

EPBcom - TRANSDUCERIZED BATTERY TOOL

A	EPBC 8-1800-4Q	615 165 900 0	Hex.1/4"F	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
B	EPBC 8-1800-10S	615 165 904 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
A	EPBC14-900-4Q	615 165 980 0	Hex.1/4"F	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
B	EPBC14-900-10S	615 165 979 0	Sq. 3/8	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
A	EPBC 17-700-4Q	615 165 906 0	Hex.1/4"F	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36
B	EPBC 17-700-10S	615 165 902 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36

• Battery not included in standard offering

• Battery 18V, 2.1 Ah: 0.35 kg (0.77lb) / 18V, 4.2 Ah & 36V, 2.1Ah: 0.60 kg (1.32lb)

EABcom Series

5 to 95 Nm (3.7 to 70 ft.lb) - 10 to 900 rpm

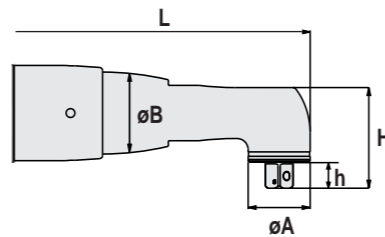
Accessories



A
B
C

MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EABC 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EABC 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EABC 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EABC 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EABC 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EABC 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91

L = Tool length without battery



PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE						ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		kg	lb	
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm			V
	EABC 15-900	615 165 841 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABC 26-560	615 165 842 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABC 32-410	615 165 843 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABC 45-330	615 165 844 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABC 50-450	615 165 845 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABC 60-370	615 165 846 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABC 75-300	615 165 847 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABC 95-240	615 165 848 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard offering
• Battery 36V, 2.1Ah - Weight: 0.60 kg (1.32lb)



EPBcom / EABcom

ACCESSORIES INCLUDED

	EPBcom
• Pistol protective cover - Black	615 211 019 0

OPTIONAL ACCESSORIES

ITEM	EABcom	EPBcom
Battery type		
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0
Charger		
4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5
Protective covers - Tools		
5	For Angle head EAB 15	615 211 003 0
5	For Angle head EAB 26/32	615 573 207 0
5	For Angle head EAB 45/50	615 573 208 0
5	For Angle head EAB 60	615 573 209 0
5	For Angle head EAB 75/95	615 573 210 0
6	For Pistol EPB - Red	615 211 022 0
Protective covers - Battery		
7	For Battery 18V 2.1Ah - Clear	615 396 871 0
7	For Battery 18V 2.1Ah - Black	615 211 041 0
7	For Battery 18V 2.1Ah - Blue	615 211 042 0
7	For Battery 18V 2.1Ah - Red	615 211 043 0
7	For Battery 18V 2.1Ah - rey	615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0
Miscellaneous		
8	Nose crowfoot adapter for EPB.	615 565 518 0
9	eDOCK	615 811 976 0
10	Barcode Reader for EPB.	615 812 281 0
	• barcode reader for EAB.	Contact Desoutter
	• Access point Wifi 802.11N-US:	615 811 417 5
	• Access point Wifi 802.11N-EU:	615 811 419 5
	• Access point Wifi 802.11N-N	615 811 650 5
	• Plug UK	615 917 202 0
11	Side handle	615 397 016 0
Desoutter Tool holster		
12	DTH TWIN (single) without rail	615 811 411 0
13	DTH TWIN rail kit with 2 Twin holders	615 811 412 5
14	DTH TWIN stand kit with 2 Twin holders	615 811 413 5
15	DTH90	615 812 119 0

Virtual controllers management

	PART NUMBER	Maximum number of tools for ePOD xC	Maximum number of	
			cable tools	Battery tools
16	ePOD2C	615 936 311 0	3	1
16	ePOD3C	615 936 312 0	3	1
16	ePOD4C	615 936 318 0	4	1



Workgroup System

A multi spindle machine up to 14 fixtured spindles

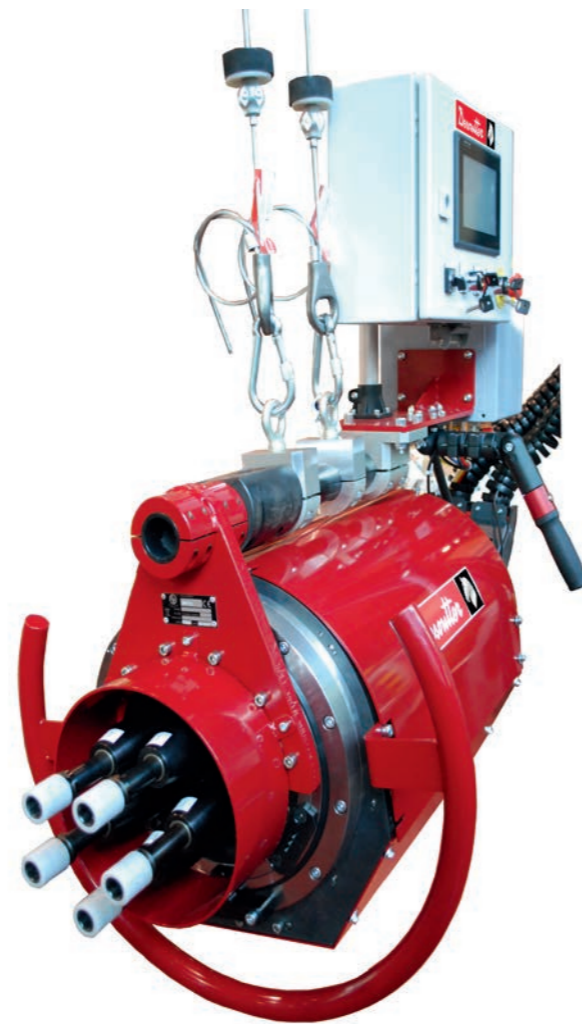
One **TWINCVI3** or One **CVI3 Vision** as a primary controller to synchronize and collect results from all controllers
 Several **TWINCVI3** or/and **CVI3 Vision** or/and **CVI3 Function** as Secondary controllers

All connection to the Primary:

- Ethernet network (CVI3 Config, CVI NET Web, Open protocol, HMI, etc....)
- Fieldbus like Profibus, Profinet, Ethernet IP, Devicenet, etc....
- 8 inputs and 8 outputs and much more with I/O expander
- eBus for:
 - Operator panel
 - Stack light
 - Socket tray
 - I/O expander

FIXTURED SPINDLES

EFDE: straight with telescopic output
EFDS: straight without telescopic output
EFDA: angle head
 Fully compatible with EME range via the adaptor



ACCESSORIES

	PART NO.
Cables for EFDx tools	
Toolcable 2.5m (8.2ft)	615 917 651 0
Toolcable 5m (16ft)	615 917 652 0
Toolcable 10m (32.8ft)	615 917 654 0
Toolcable 15m (49.2ft)	615 917 655 0
Extension cable	
Extension cable 8m (26.2ft)	615 917 581 0
Extension cable 16m (52.5ft)	615 917 584 0
Extension cable 32m (105ft)	615 917 587 0
Extension cable 50m (164ft)	615 917 589 0
Transducer holders for EFDE tools	
3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
3/4" Square drive EFDE60-175/250	615 396 428 0
Miscellaneous	
Spare transducer cable length 340mm (13.4")	615 917 426 0

BENEFITS

Flexibility thanks to the use of standard controllers with an additional ePod3
 Synchronization of the controllers via the integrated Ethernet network

Workgroup System

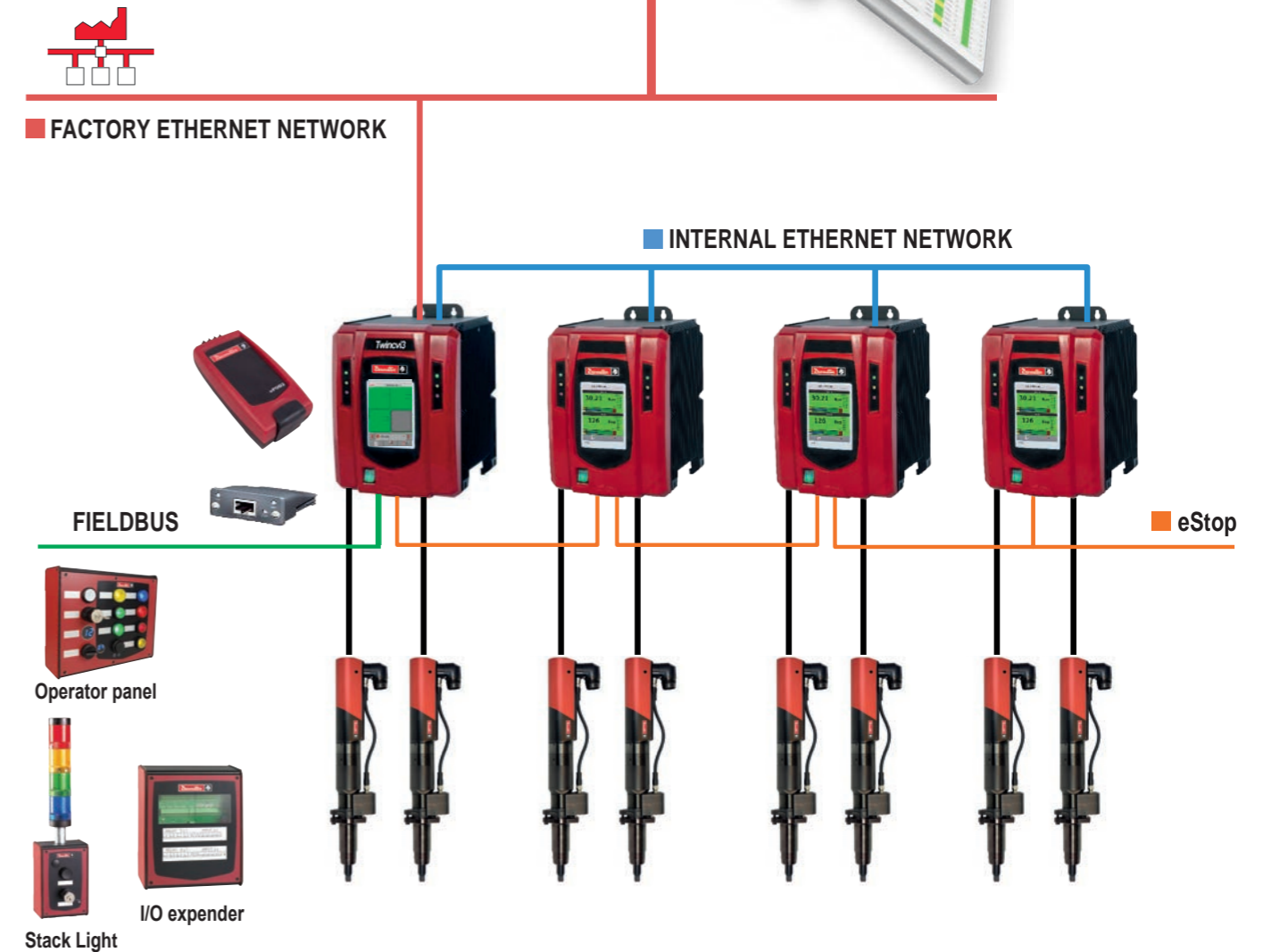
CVI3
suite

CVI
CONFIG
CVI
ANALYZER
CVI
NET WEB
CVI
KEY



Advanced tightening strategies

- Optimization of tightening via CVI Config
- Torque and/or Angle control
- Yield point
- Plastic zone
- Redundant T&A transducer



Advanced monitoring

- The primary controller displays all tightening results and events and its own tightening curves.
- Each controller displays its own results, curves and events.

Advanced Process control

- Multi tightening programs, 250 Psets with 40 steps, for all spindles or per group of spindles, action/retry in case of NOK.
- Assembly Process to manage multi Pset and simple processes.
- A soft PLC (CVI Logix) is integrated for more complex processes

Accessories

Cable for ERP / EAD / EID / EFDE / EFDS / EFDA

CABLE FOR ERP TOOLS	PART NO.
Nutrunner cable 2.5m (8.2ft)	615 917 570 0
Nutrunner cable 5m (16ft)	615 917 492 0
Nutrunner cable 10m (32.8ft)	615 917 494 0
Nutrunner cable 15m (49.2ft)	615 917 495 0

CABLE FOR EAD & EID TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 601 0
Tool cable 5m (16ft)	615 917 602 0
Tool cable 10m (32.8ft)	615 917 604 0
Tool cable 15m (49.2ft)	615 917 605 0
Tool cable eFLEX 2.5m (8.2ft)	615 917 631 0
Tool cable eFLEX 5m (16.4ft)	615 917 632 0

CABLE FOR EFDE & EFDA TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 651 0
Tool cable 5m (16ft)	615 917 652 0
Tool cable 10m (32.8ft)	615 917 654 0
Tool cable 15m (49.2ft)	615 917 655 0

EXTENSION CABLE FOR ERP TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 083 0
Extension cable 10m (32.8ft)	615 917 084 0
Extension cable 15m (49.2ft)	615 917 085 0
Extension cable 20m (65.6ft)	615 917 086 0
Extension cable 25m (82ft)	615 917 087 0
Extension cable 30m (98ft)	615 917 088 0

EXTENSION CABLE FOR EAD - EID - EFDE & EFDA TOOLS	PART NO.
Ext. cable 8m (26.2ft)	615 917 581 0
Ext. cable 16m (52.5ft)	615 917 584 0
Ext. cable 32m (105ft)	615 917 587 0
Ext. cable 50m (164ft)	615 917 589 0

eBUS CABLE	PART NO.
eBUS cable 1m (3.3ft)	615 917 621 0
eBUS cable 3m (9.9ft)	615 917 622 0
eBUS cable 5m (16.4ft)	615 917 623 0
eBUS cable 15m (49.2ft)	615 917 624 0
eBUS Termination plug	615 917 625 0

TRANSDUCER HOLDERS FOR EFDE TOOLS	PART NO.
3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
3/4" Square drive EFDE60-175/250	615 396 428 0



Accessories



CVI3 Controllers

OPTIONAL ACCESSORIES

ITEM	PART NO.
Controllers	
1 Socket tray with tubes & inserts	615 936 095 0
• Socket tray	615 936 071 0
2 Kit tubes & Inserts for Socket tray	615 398 035 5
3 Bit holder module for Socket tray	615 398 083 5
4 Bit Tray	615 936 080 0
5 Operator Panel (advanced)	615 936 072 0
6 Stack Light	615 936 073 0
7 I/O Expander	615 936 074 0
• Y cable for RS232 port	615 917 620 0

ERP / EAD / EID

OPTIONAL ACCESSORIES

ITEM	PART NO.
Suspension bail	
8 Non swivelling - All tools up to EAD105/EID75	615 397 412 0
9 Swivelling - All tools up to EAD105/EID75	615 397 413 0
9 Swivelling - for tools EAD160/200/280-260 & EID120	615 571 072 0
Front trigger	
10 Mechanical kit for tools EAD20 to EAD105 & EID25 to EID75 (must be mounted on tool by authorized Desoutter service technician)	615 397 812 5
10 Electric kit for EAD20 to EAD32 & EID25 to EID32	615 911 013 5
10 Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 012 5
Telescopic output for EID tools	
11 3/8" for EID25/32	615 397 811 0
11 3/8" for EID44	615 398 178 0
11 1/2" for EID65/75	615 398 079 0
11 1/2" for EID120/170	615 398 080 0
11 3/4" for EID270/300	615 398 081 0
Telescopic output for EAD / EFDA tools	
12 1/2" for EAD160	615 398 076 0
12 3/4" for EAD200/280 & EFDA63-190	615 398 077 0
12 3/4" for EAD440	615 398 078 0
12 1" for EFDA107-450	615 398 161 0
Angle head protection for EAD tools	
13 For EAD20/32	615 573 207 0
13 For EAD50	615 573 208 0
13 For EAD70	615 573 209 0
13 For EAD80/105	615 573 210 0
In-line protection for EID tools	
14 For EID25/32	615 573 211 0
14 For EID44/65/75	615 573 212 0
Finger Protection for EAD tools	
15 For EAD20/32	615 397 635 0
15 For EAD50	615 397 636 0
15 For EAD70	615 397 637 0
Miscellaneous	
16 Handle lever	615 397 831 0
17 Trigger locker	615 397 842 0
18 Barcode reader + Headlight accessory - EAD/EID	615 812 138 0
19 Headlight accessory - EAD/EID	615 812 139 0
• Mounting plate for custom arm - EAD160/200/280/440/660	Contact Desoutter
Desoutter Tool Holster	
20 DTH42 (For ERP3/5/10/20/30)	107892
21 DTH90 (For ERP3/5/10/20/30)	615 812 119 0
22 DTH TWIN (single) without rail	615 811 411 0
23 DTH TWIN rail kit with 2 Twin holders	615 811 412 5
24 DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5
• D53 arms	See page 148
• TRA telescopic reaction arms	See page 156
• Balancers	See page 162

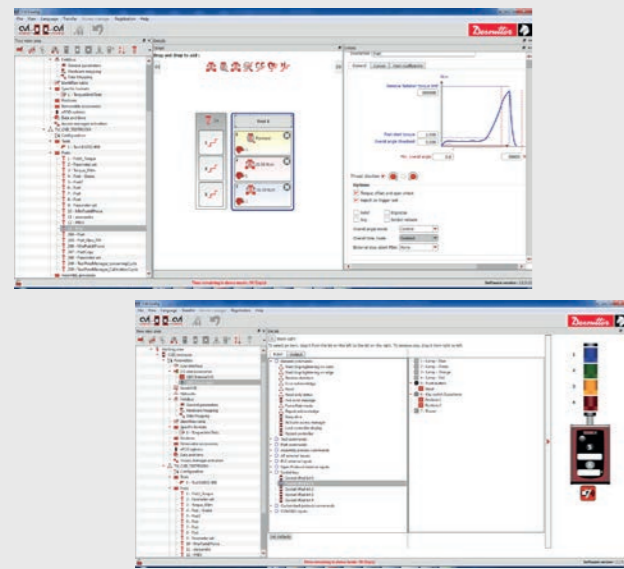
ADAPTER FOR ERAL/ERDL/ERP AND EME	PART NO.
CVI II Adapter	615 936 070 0

Programming and Real Time Monitoring Software

Traceability and Data Collection Software

CVI CONFIG - PROGRAMMING (INCLUDING CVI MONITOR)

CVIKEY - ACCESS LEVEL MANAGEMENT



FEATURES

CVI CONFIG to set any point to point or via network with an intuitive and guided interface

- User-friendly interface
- Configurable complete Assembly line view in the tree area
- Easy Tool/PSet setting including Quick Pset & learning mode
- PSet steps definition with drag&drop feature and Intuitive settings with curve template
- Fast learning curve with contextual help
- Real time error-proofing consistency check

Advanced process control

- Complete process logic mapping including tightening & non-tightening operations with Assembly Process

High flexibility

- Dynamic mapping for I/O, fieldbus with drag&drop feature
- Including Geopositioning set up
- 2 ways transfer of all parameters between stations & PC
- Real time access to tool parameters/counters (partial/ total number of cycles performed by the tool/cable)
- Test mode to check torque transducer, angle encoder, brushless motor
- Complete backup/restore of stations

CVI MONITOR (included in CVI CONFIG) to monitor results, maintenance and diagnostic in real time

- Real-time Monitor
- Results
- Curves
- Statistics
- Export in csv format

Maintenance

- read the counters of the tools, controller and cables
- set preventive maintenance alarms
- reset the counters and alarms
- tool calibration
- autocalibration with Delta 6D

User info History

- Alarms history (logs)
- Problem solving guidance

CVIKEY to create & manage tailor-made access rights per user profile

- Tailor made protection
- Intuitive software to create/manage access level
- Protection guaranteed by unique profile keys created by the administrator (locked against copy)

Simple interface

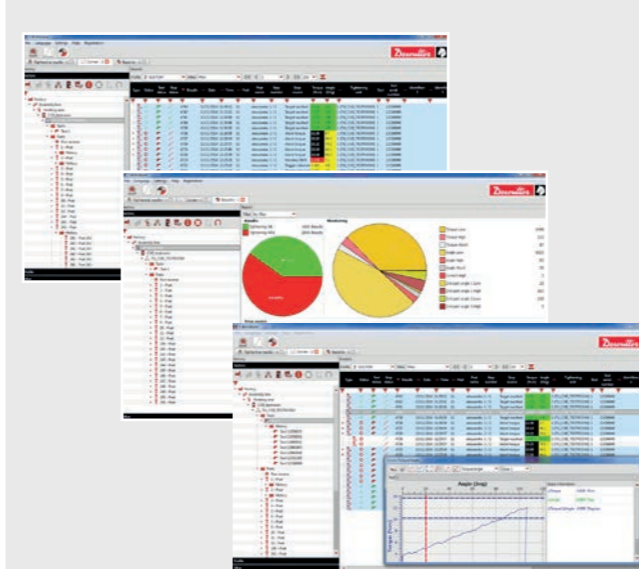
- Plug&Play USB key
- 4 profiles already available by default

High flexibility

- Unlimited number of profiles
- Set up the right access level for the right

CVI ANALYZER - TIGHTENING DATA ANALYSIS

CVI NET WEB - DATA COLLECTION



FEATURES

CVI ANALYZER to import tightening data and analyze results thanks to customized filter and report.

Flexibility

- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Advanced customized filter definition
- Advanced data searching
- Multi tab view

Traceability

- Unlimited CVI3 results and curves collection in local DB through plant network
- Complete back-up solution
- PSet history
- Including data import from USB key
- Result and Curve export in cvs format

Analysis

- OK/NOK distribution
- NOK distribution reasons analysis

CVI NET WEB to collect in real time 100% tightening data in server database and review with web based interface. Any PC connected to network can access to results without any software installation on different client, it's enough to type web page address.

Full Traceability

- Real Time result and curve collection
- Real Time tightening errors
- Data storage in Server architecture
- SQL Server, Oracle, MySQL support
- Automatic uploading of missing data from Controller
- Alarm in case of disconnection and FIFO inside controllers
- Curve overlay

Statistical Analysis and Documentation

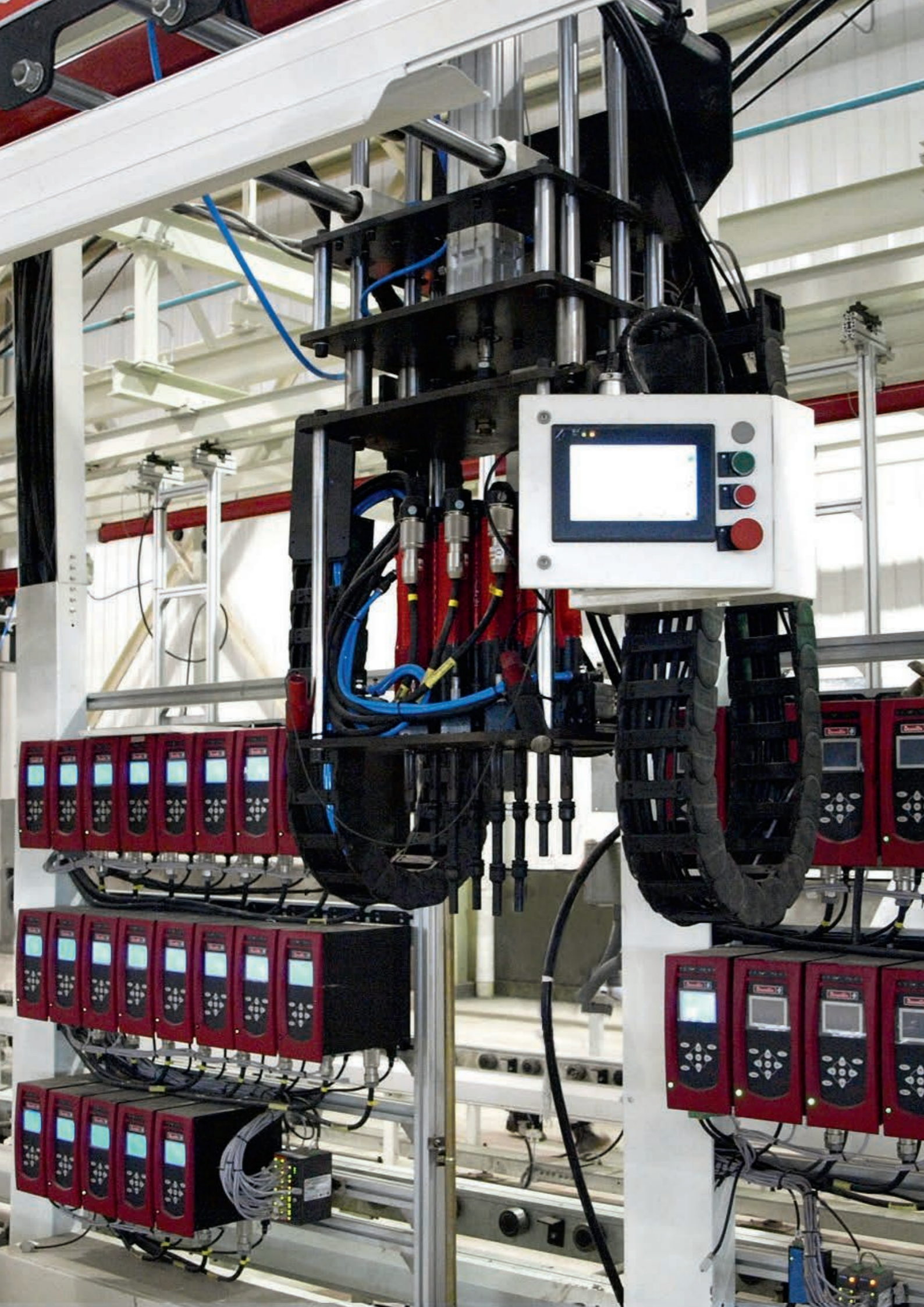
- Advanced OK/NOK reports and control charts
- Advanced NOK pareto analysis
- Cm/Cmk analysis according different standards (ISO, CNOMO, NF)

Flexibility

- Administrator User
- Customized Profiles and Filters
- Complete Plant layout definition
- Smart Identifier filtering

Report printing

- Export all results and curve directly from web page
- PDF, csv or txt export format
- Direct Printing from web page
- Printing of all tightening of a vehicle or a components by scanning the proper bar code



CVI II Range

Transducerized Tools

- Handheld Tools**
- Brushless AC motor: virtually maintenance free
 - Resolver: smooth angle control at any speed
 - 6 leds OK / NOK signals

- Fixtured electric spindles**
- Long life gear boxes
 - Brushless motor
 - High output torque transducer for a larger torque range



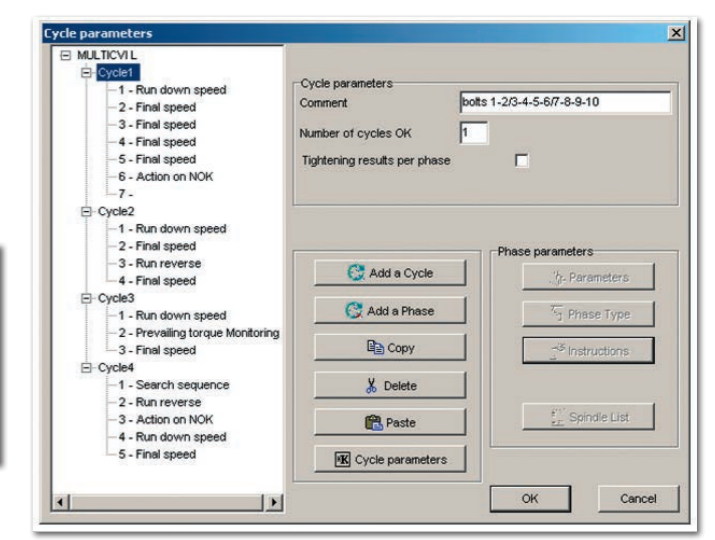
Controllers



Communication

CVIPC2000 software is a user friendly tool able to program tightening cycles, collect and display results and curves

CVINET WEB to collect & store 100% tightening data in real-time database with advanced analytics via a web based software in service mode from all Desoutter tightening controllers



Controller - CVIR II-H4



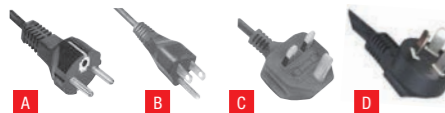
MAIN FUNCTIONS	CVIR II H4
Programming modes	
Number of cycles	50
Number of phases	15
Reverse	✓
1 sequence	8 cycles
Batch count	999
Barcode reading (cycle selection)	✓
LCD screen and display	✓
CVIPC software	✓
Phases characteristics	
Search sequence	✓
Run down speed phase	✓
Final speed phase	✓
Jump to another phase	✓
Cycle characteristics	
Autorized directions	✓
Disengagement parameters	✓
Tigtning results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Date+Time+Report	2000 to 10000 according to configuration
Number of curves	10
Tightening strategies	
Torque control	✓
Torque control + Angle monitoring	✓
Angle control + Torque monitoring	✓
Maintenance	
Access to all tool memory parameters	✓
Autotest of the complete system	✓
Calibration of the tool (supervisor mode)	✓

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS				WEIGHT			
			115 V	230 V		WIDTH	HEIGHT	DEPTH	kg	lb.			
CVIR II H4	615 932 685 0	ERP-HT	4A	2A	50/60 hertz	130	5.1	278	10.9	291	11.5	5.9	13

Software, Upgrade kits...

POWER CORD to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 736 0
Open Protocol 5 licences	615 927 581 0



OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54 CVIx2	615 932 684 5
• Shelf support - Aluminium profile	615 397 403 5
• BRDx2 (Backup Rescue Device)	615 936 328 0

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
Devicenet Module	615 927 599 0
MODBUS TCP Slave	615 927 615 0

Electric transducerized High torque - CVIR II

75 to 1700 Nm (55 to 1253 ft.lb) - 85 to 822 rpm

The transducerized nutrunners range ERP is dedicated to high torque applications, especially structural assemblies requiring accuracy and traceability



desoutter.info/ERP



PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE				MAX RUNDOWN TORQUE	SPEED	GEARBOX DIAMETER		LENGHT		WEIGHT		SPLINE
				MIN.	MAX.	MIN.	MAX.			mm	in.	mm	in.	kg	lb	
A	ERP250	615 165 883 0	3/4	75	250	55	184	18	822	54	2.13	355	13.9	5.1	11.2	3
B	ERP500	615 165 884 0	3/4	150	500	110	368	37	347	67	2.64	390	15.3	5.8	12.8	4
C	ERP750	615 165 885 0	1	225	750	165	553	56	245	67	2.64	410	16.1	6.2	13.7	5
C	ERP1000	615 165 886 0	1	300	1000	221	737	75	205	67	2.64	420	16.5	6.4	14.1	5
•	ERP1700	615 165 887 0	1	510	1700	376	1253	127	85	84	3.31	455	17.9	8.3	18.3	9

OPTIONAL ACCESSORIES



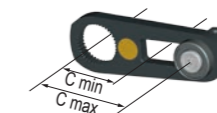
REACTION BARS	SPLINE	1	2	3	4	5	6	7	8
		STRAIGHT	S-TYPE	L TYPE ALUMINIUM	SQUARE	SLIDING DRIVE	SLIDING DRIVE EXTENDED C-C	SUSPENSION BAIL	SIDE HANDLE
ERP250	3	615 812 097 5	615 812 068 5	615 812 072 5	615 812 057 5	615 812 113 5	N/A	615 812 123 0	615 576 038 0
ERP500	4	615 812 054 5	615 812 069 5	615 812 073 5	615 812 058 5	615 812 062 5	615 812 063 5	615 812 123 0	615 576 038 0
ERP750 / ERP1000	5	615 812 055 5	615 812 070 5	N/A	615 812 059 5	615 812 064 5	615 812 065 5	615 812 123 0	615 576 038 0
ERP1700	9	615 812 056 5	615 812 071 5	N/A	615 812 060 5	615 812 066 5	615 812 067 5	615 812 123 0	615 576 038 0

NUTRUNNER CABLE	PART NO.
Tool cable 3m (9.8ft)	615 917 461 0
Tool cable 5m (16ft)	615 917 462 0
Tool cable 10m (32.8ft)	615 917 464 0
Tool cable 15m (49.2ft)	615 917 465 0

EXTENSION CABLE	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32.8ft)	615 917 224 0

Slidding drive C-C

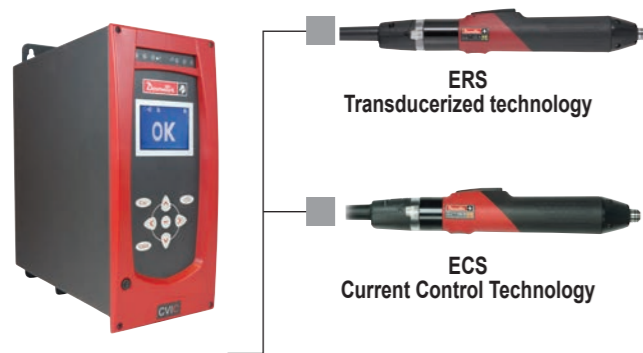
PART NO.	C MIN	C MAX
	mm (in.)	mm (in.)
615 812 113 5	70 (2.76)	120 (4.72)
615 812 062 5	76 (3)	126 (4.96)
615 812 063 5	82 (3.23)	218 (8.58)
615 812 064 5	80 (3.15)	125 (4.92)
615 812 065 5	82 (3.23)	218 (8.58)
615 812 066 5	80 (3.15)	130 (5.11)
615 812 067 5	80 (3.15)	280 (11.0)



Controller - CVIR II

Error proofing and flexibility

- Advanced control unit with flexibility and technology
- Easy integration into your assembly line with multiple choices of connectivity



MAIN FUNCTIONS	CVIR II
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	50
Number of phases available	15
Phase characteristics	
Search sequence	✓
Approach	✓
Run down speed	✓
Final speed phase	✓
Action on NOK	✓
Run reverse	✓
Jump to another phase	✓
Prevailing Torque	✓
Synchronisation phase	✓
Tightening strategies	
Torque	✓
Torque with angle monitoring	✓
Angle with torque monitoring	✓
Yield point	✓
Seating detection	✓
Number of stored results	2000 to 10000 according configuration

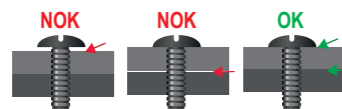
COMMUNICATION

- 1 Ethernet port for CVIPC or network communication
- 1 RS232 port to connect barcode readers or CVIPC 2000
- 8 Inputs and 8 Outputs
- 1 Optional fieldbus module

Innovative Tightening Strategy

Seating detection

Detect the screw head contact on your part by torque rate management, even with material variation



QUALITY GUARANTEED

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
			115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
CVIR II	615 932 681 0	ERS/ECS	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5	11

Electric transducerized screwdrivers - CVIR II

0.6 to 27 Nm (5.3 to 239 ft.lb) – 280 to 3000 rpm

The transducerized screwdrivers range ERS is dedicated for all type of tightening which required accuracy and traceability



Visible & Programmable reporting LED System



Good Report

Bad Report

Programmable

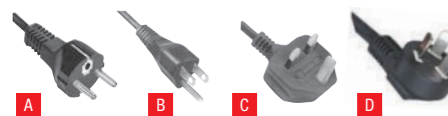
Tool Ready, Tool in Cycle, Maintenance Alert, and more.

ACCESSORIES see page 59

Software, Upgrade kits...

POWER CORD to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 736 0
Open Protocol 5 licences	615 927 581 0



OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	615 917 047 0
• 37 pin D-Sub female I/O adapter	615 919 003 0
• Shelf support - Aluminium profile	615 397 403 5
• BRDx2 (Backup Rescue Device)	615 936 328 0

Fieldbus / Protocol

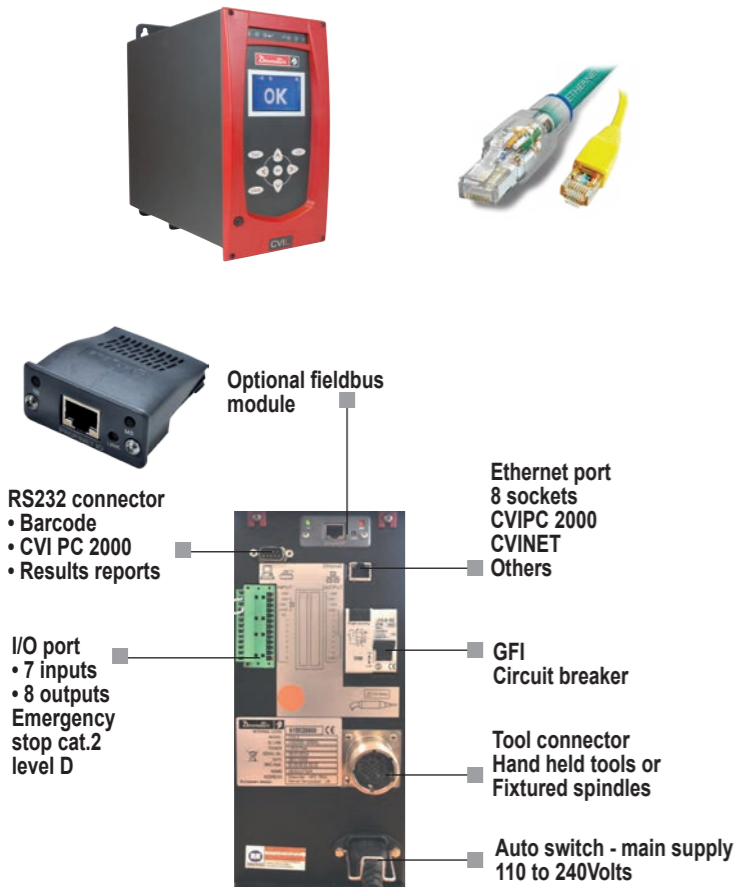
MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
Devicenet Module	615 927 599 0
MODBUS TCP Slave	615 927 615 0

To connect with CVI3 controller, ERS module is needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				SPEED	WEIGHT	
				MIN. Nm	MAX. Nm	MIN. ft.lb	MAX. ft.lb		kg	lb
A	ERS2	615 165 688 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6	615 165 689 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12	615 165 690 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS2-M20	615 165 691 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6-M20	615 165 692 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12-M20	615 165 693 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS22-M20	615 165 916 0	Sq.3/8	6.0	22	53.1	194.7	380	1.05	2.31
B	ERSA2	615 165 697 0	Hex.1/4F	0.6	2.5	5.3	22.1	2500	1.0	2.2
B	ERSA6	615 165 698 0	Hex.1/4F	1.0	6.0	8.8	53.1	1450	1.0	2.2
B	ERSA12	615 165 699 0	Hex.1/4F	2.0	12	17.7	106.2	800	1.0	2.2
B	ERSA27	615 165 917 0	Sq.3/8	8.0	27	70.8	239	280	1.25	2.75
C	ERSF2	615 165 694 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
C	ERSF6	615 165 695 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
C	ERSF12	615 165 696 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54

Controller - CVIL II

Flexible integration



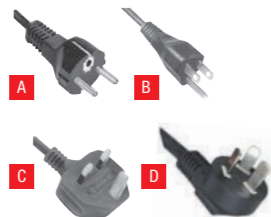
FEATURES	CVIL II
General functions	
Number of cycles	50
Number of phases	15
Batch count	999
Bar code reading via RS232 port	✓
Programming	
LCD screen and display	✓
CVIPC software	✓
Tightening results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Data+Time+Report	up to 10 000
Number of curves (flexibility with OK and NOK)	10

MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS				WEIGHT			
		115 V	230 V		WIDTH	HEIGHT	DEPTH	kg	lb.			
		mm	in.	mm	in.	mm	in.	mm	in.			
CVIL II	615 932 680 0	4A	2A	50/60 hertz	130	5.1	278	10.9	291	11.5	5.9	13

Software, Upgrade kits...

POWER CORD
to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 736 0
Open Protocol 5 licences	615 927 581 0

OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	615 917 047 0
• 37 pin D-Sub female I/O adapter	615 919 003 0
• Shelf support - Aluminium profile	615 397 403 5
• BRDX2 (Backup Rescue Device)	615 936 328 0



Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
Devicenet Module	615 927 599 0
MODBUS TCP Slave	615 927 615 0

Electric pulse nutrunners - E-PULSE

10 to 25 Nm (7.4 to 18.4 ft.lb) - 4600 rpm



desoutter.info/ELRT



A



B

ADVANCED ERGONOMICS

- Reaction free
- Soft grip and slim handle
- Low weight tool

INCREASED PRODUCTIVITY

- Max. speed 4600 rpm
- Point and shoot solution
- Pistol tool 30% shorter time to locate bolt

OPTIMIZED MAINTENANCE

- No oil to change
- Brushless electric motor
- Long life gearbox

IMPROVED ENVIRONMENT

- Reduce CO2 emission
- Clean workspace
- Reduce energy consumption



ACCESSORIES
see page 59

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE		SPEED	WEIGHT		LENGTH	
				Nm	ft.lb		kg	lb	mm	in.
A	ELRT025-P4600-10S	615 165 838 0	Sq. 3/8	10-25	7.4-18.4	4600	1.2	2.64	221	8.7
B	ELRT025-P4600-4Q	615 165 890 0	Hex. 1/4F	10-25	7.4-18.4	4600	1.2	2.64	221	8.7

Controllers - MultiCVIL II



MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
		115 V	230 V		50/60 hertz	WIDTH		HEIGHT		DEPTH		kg
CVIL II M (Master)	615 932 682 0	4A	2A	Single phase	130	5.1	278	10.9	291	11.5	5.9	13
CVIL II S (Slave)	615 932 683 0	4A	2A	Single phase	130	5.1	278	10.9	291	11.5	5.9	13
Multicombox	615 929 044 0											

OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54	615 932 684 0

Fieldbus module

MODEL	PART NO.
• Ethernet IP Module	615 927 594 0
• Profi bus DP Module	615 927 595 0
• ProfiNet Module (1 port)	615 927 596 0
• ProfiNet Module (2 ports)	615 927 597 0
• Devicenet Module	615 927 599 0
• MODBUS TCP Slave	615 927 615 0
• Shelf support - Aluminium profile	615 397 403 5

Kit version

One CVIL-Master n.CVIL-Slaves Software CVIPC 2000 + Power cord Multicombox

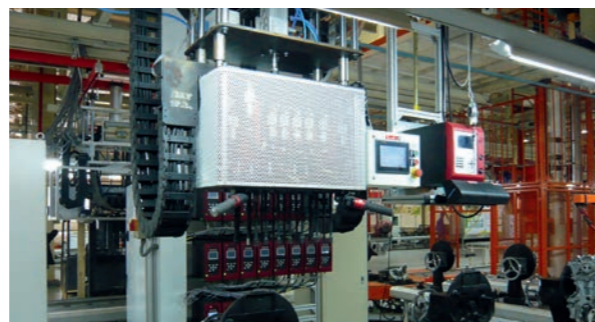
Contact your Desoutter representative for assistance

Also available: Specially designed a frame to secure controllers and ensure safe and tidy wiring

Turn Key Solution

One CVIL-Master n.CVIL-Slaves Software CVIPC 2000 + Network cables & Power cord Powerbox depending on power supply

One power box supply with E Stop - Ethernet switches
Multicombox - Circuit breakers



Fixtured electric spindles

High durability of EME tools

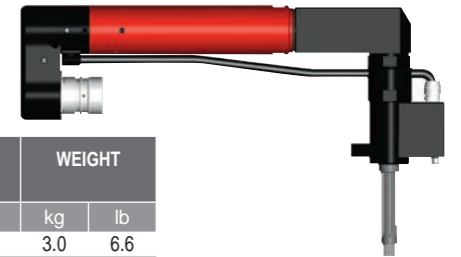
- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EME35-10J	615 165 423 0	3/8	1-8	0.7-5.9	2067	43.2	1.7	283	11.1	1.7	3.7
EME35-20J	615 165 424 0	3/8	4-15	2.1-11	2067	43.2	1.7	308	12.1	2.0	4.4
EME38-10J	615 165 425 0	3/8	9-30	6.6-22	1287	43.2	1.7	355	14	2.0	4.4
EME38-20J	615 165 426 0	3/8	10-45	7.4-33	1092	43.2	1.7	355	14	2.0	4.4
EME51-10J	615 165 427 0	1/2	20-70	15-52	650	51.2	2.0	374	14.7	2.9	6.4
EME51-20J	615 165 428 0	1/2	30-135	22-99	403	51.2	2.0	401	15.8	3.5	7.7
EME60-10J	615 165 429 0	1/2	20-95	15-70	923	60.2	2.4	431	16.9	4.8	10.6
EME60-20J	615 165 430 0	3/4	50-175	37-129	507	60.2	2.4	431	16.9	4.8	10.6
EME60-30J	615 165 431 0	3/4	70-250	52-184	299	60.2	2.4	467	18.4	5.2	11.5
EME80-10J	615 165 432 0	3/4	80-300	59-221	286	80.2	3.2	494	19.5	9.8	21.6
EME80-20J	615 165 433 0	3/4	120-450	88-221	195	80.2	3.2	494	19.5	9.8	21.6
EME80-30J	615 165 434 0	1	180-650	133-479	130	80.2	3.2	494	19.5	9.8	21.6
EME80-40J	615 165 435 0	1	220-800	162-590	91	80.2	3.2	494	19.5	9.8	21.6
EME80-50J	615 165 436 0	1	220-1000	162-737	72	80.2	3.2	494	19.5	9.8	21.6
EME106-10J	615 165 437 0	1	430-1500	317-1105	52	106.2	4.2	564	22.2	15	33.1
EME106-20J	615 165 438 0	1	540-1900	398-1400	39	106.2	4.2	564	22.2	15	33.1



EMEL shape for close access

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EMEL38-20J	615 165 517 0	3/8	10-45	7.4-33.2	1092	43.2	1.7	140.5	5.5	3.0	6.6
EMEL51-20J	615 165 518 0	1/2	30-135	22-99.5	403	51.2	2.0	166	6.5	4.0	8.8
EMEL60-20J	615 165 519 0	3/4	50-175	37-129	481	60.2	2.4	178	7	6.0	13.2
EMEL60-30J	615 165 520 0	3/4	70-250	52-184	312	60.2	2.4	178	7	6.0	13.2
EMEL80-40J	615 165 521 0	1	220-800	162-590	91	80.2	3.2	241	9.5	11	24.2



EME Offset with torque transducer in line with the output shaft

Increase access by using smallest CC distances offered

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LONGUEUR		LENGTH	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EME24-20 OF	615 165 512 0	3/8	4-20	2.9-15	1225	24	0.95	375.2	14.8	2.7	5.9
EME26-50 OF	615 165 513 0	3/8	7-50	5.2-40	985	26	1.02	387.5	15.2	2.7	5.9
EME30-80 OF	615 165 514 0	1/2	10-80	7.4-59	580	30	1.18	414.3	16.3	3.9	8.6
EME36-140 OF	615 165 515 0	1/2	19-140	14-103	375	36	1.42	454.4	17.7	4.7	10.4
EME40-180 OF	615 165 516 0	3/4	25-180	18-133	475	40	1.57	481.7	18.9	6.4	14.1
EME44-300 OF	615 165 602 0	3/4	80-300	59-221	217	45	1.77	632.5	24.9	11	24.2



ACCESSORIES
see page 59



Accessories

ERP / ERAL / ERDL

ACCESSORIES INCLUDED

ITEM		PART NO.		
		ERP	ERAL	ERDL
1	Side handle	467033		
2	Suspension bail	467003		
3	Horizontal bail ERAL - ERDL1.5 / 2		615 396 562 0	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

ITEM		PART NO.		
		ERP	ERAL	ERDL
5	Long lever start (included with ERD5J)			615 396 584 0
6	2nd lever start ERAL-ERDL1.5 / 2		615 396 553 0	615 396 553 0
7	High resistance side handle ERP	615 397 012 0		
7	Side reaction handle ERAL-ERDL1.5 / ERDL2		615 396 554 0	615 396 554 0
8	Suspension ring ERAL1.5-2		615 571 063 0	
8	Suspension ring ERAL4		615 571 070 0	
8	Suspension ring ERAL6		615 571 064 0	
9	Reaction bar ring for ERAL2-80		615 396 622 0	
9	Reaction bar ring ERAL4-90/170 / ERAL6-135/170		615 396 227 0	
9	Reaction bar ring ERAL4-225		615 396 230 0	
10	Rotary connector 90° ER		615 396 299 0	615 396 299 0
	• Extension 200mm ERA(D)L1.5-2		615 396 865 0	615 396 865 0
	• Extension 200mm ERA(D)L 4		615 396 866 0	615 396 866 0
11	Mounting plate with telescopic spindle ERDL1.5 / ERDL2			615 396 547 0

Plastic cover

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 ERAL1.5-15 / 25 / ERAL2-30 / 40	615 573 064 0		
13	Plastic cover AH2 for ERAL2-60		615 573 065 0	
13	Plastic cover AH3 for ERAL2-80		615 573 066 0	
14	Plastic cover AH4 for ERAL4-90 / 110 / 120		615 573 069 0	
14	Plastic cover AH5 for ERAL4-140 / 170 / ERAL6-135		615 573 070 0	
14	Plastic cover AH6 for ERAL4-225		615 573 071 0	
15	Plastic cover for ERDL1.5 / 2			615 573 067 0

Desouter Tool Holster

16	DTH TWIN (single) without rail	615 811 411 0	615 811 411 0	
17	DTH TWIN rail kit with 2 Twin holders	615 811 412 5	615 811 412 5	
18	DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5	615 811 413 5	
19	DTH90	615 812 119 0		

CABLE FOR ERP / ERAL / ERDL TOOLS	PART NO.
Nutranner cable 5m (16ft)	615 917 492 0
Nutranner cable 10m (32ft)	615 917 494 0
Nutranner cable 15m (49.2ft)	615 917 495 0

HEAVY DUTY CABLE FOR ERP / ERAL / ERDL TOOLS	PART NO.
Cable 2.5m (8.2ft)	615 917 570 0
Cable 5m (16ft)	615 917 571 0
Cable 10m (32ft)	615 917 572 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

Accessories

ERS / ERSA / ERSF / ELRT

OPTIONAL ACCESSORIES

ITEM	ERS.	ELRT
1	Long lever Kit	615 321 254 0
2	Suspension yoke kit	615 791 080 0
3	Reaction handle	615 397 016 0
4	Plastic cover for ELRT	615 211 012 0
5	Pistol grip kit for ERS	615 390 059 0
6	D53-25 Linear arm (tool clamp included) - (see page 148)	615 810 702 0
6	D53-25X Linear arm, extended reach (tool clamp included) - (see page 148)	615 810 703 0
7	D53-25S Folder arm (tool clamp included) - (see page 148)	615 810 708 0
8	Bit Tray	615 929 025 0
9	Spring suspension balancer	50522
10	Tool Holster DTH90	615 812 119 0
11	ERS Module	615 936 537 0

EXTENSION CABLE FOR ERS TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32ft)	615 917 224 0

HEAVY DUTY THIN CABLE FOR ELRT TOOLS	PART NO.
Cable 5m (16ft)	615 917 574 0

HEAVY DUTY EXTENSION CABLE FOR ELRT TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0

EME / EMEL

OPTIONAL ACCESSORIES

TRANSDUCER-HOLDER FOR 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 - MULTICVIL & CVIL II	PART NO.
Cable 5m (16ft)	615 917 541 0
Cable 10m (32ft)	615 917 542 0
Cable 15m (49.2ft)	615 917 543 0

EXTENSION CABLE FOR EME TOOLS - MULTICVIL & CVIL II	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0

Protocol, Software



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

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



CVIC Range Current controlled



Easy to integrate

Small size and smooth design for a simple installation.
Speed up the set up time by using the self learning process. Provides automatic set up for the tool to optimize your fastening process.

Multi torque capability

Replace multiple pneumatic tools with one electric tool per station.



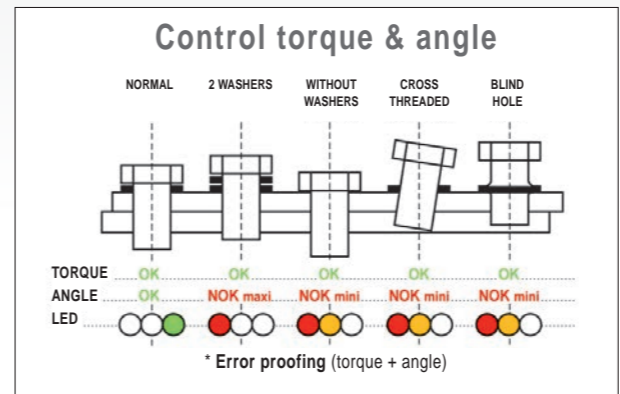
Fastening quality guaranteed in all your products

Set up a batch count to ensure all bolts are tightened with correct strategy.



Quality of tightening

Control torque and angle with multi phases strategies.



Advanced ergonomics

Maximize your operators' comfort with ergo stop and direct reporting led in the controller and on the tool.



Open to peripherals

Increase your assembly quality and process through barcode reader, socket tray or bit 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				
Torque + Angle + Date + Time + Report	5000 to 20000 according configuration			
TYPES OF PHASES IN A CYCLE				
Search Sequence	✓	✓		
Run Down speed	✓	✓	✓	✓
Final speed	✓	✓	✓	✓
Run reverse	✓	✓		
Action on NOK	✓	✓		
Prevailing torque monitoring	✓	✓		
FINAL SPEED STRATEGIES				
Torque control + Angle monitoring	✓	✓	✓	✓
Angle control + Torque monitoring	✓	✓	✓	✓
DISPLAY AND PROGRAMMING				
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				
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				
Input/Output	8/8	8/8	8/8	8/8
Serial port RS232 (PC transfer, Bar code, Report output)	✓	✓	✓	✓
Ethernet connection (CVIPC2000 / CVInet)	✓	✓	✓	✓
MODEL				
CONTROLLER for low torque tools	CVIC II L-2	CVIC II H-2		
CONTROLLER for the other tools	CVIC II L-4	CVIC II H-4	CVIC II L-4	CVIC II H-4
MAINS SUPPLY				
Single-phase, automatic switching 110V/230V	✓	✓	✓	✓

Controllers - CVIC

Electric current control



CVIC II-L2
CVIC II-H2



CVIC II-L4
CVIC II-H4

ECS (M20) 0.12 - 16 Nm	
ECSA 0.55 - 11.5 Nm	
ECSF 0.12 - 16 Nm	
ECPL/LT 1 - 20 Nm	
ECFL 1 - 20 Nm	
ECA15 5 - 15 Nm	
ECD5 2 - 6 Nm	
MC35-10 2.5 - 8 Nm	
ECA 7 - 200 Nm	
ECD 7 - 120 Nm	
ECP 7 - 40 Nm	
ECFS 7 - 30 Nm	
ECP HT 30 - 4000 Nm	
MC 5 - 135 Nm	

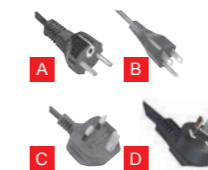
MODEL	PART NUMBER	TOOLS	CONSUMPTION (current)		MAINS SUPPLY	DIMENSIONS			WEIGHT	
			115V	230V		WIDTH	HEIGHT	DEPTH	kg	lb.

CVIC II CONTROLLERS

CVIC II-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
CVIC II-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
CVIC II-L4	615 932 678 0	Other tools	8A	4A	Single-phase	130	5.1	278	10.9	291	11.5	5	11
CVIC II-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	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



OPTIONAL ACCESSORIES

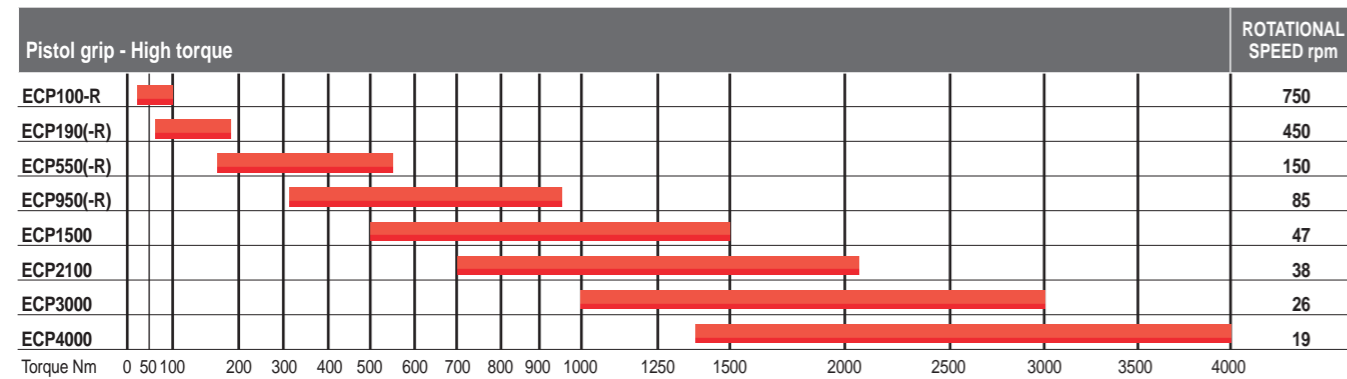
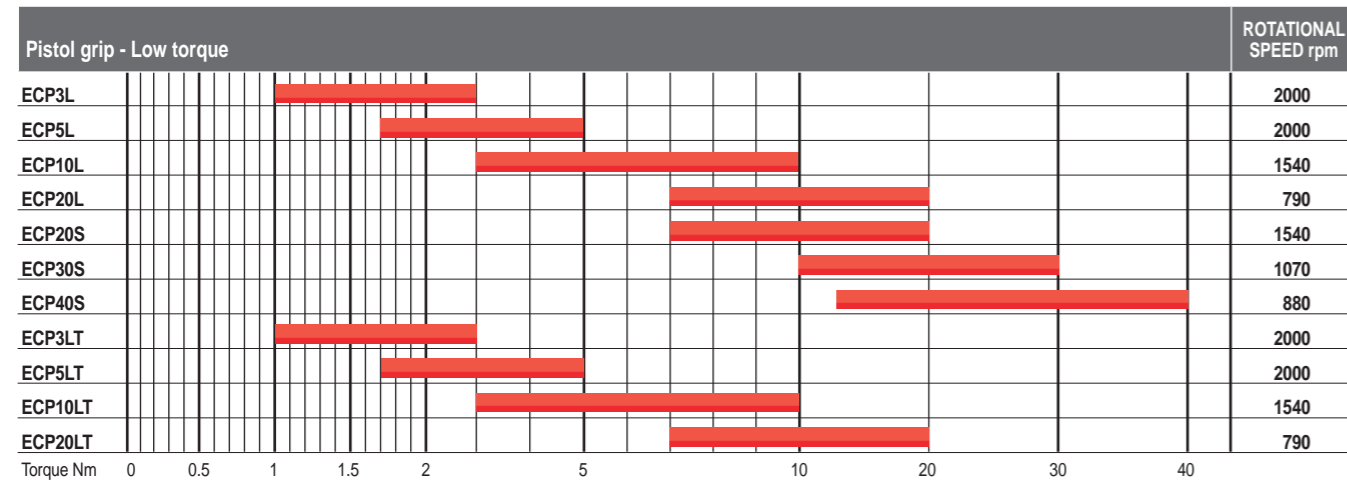
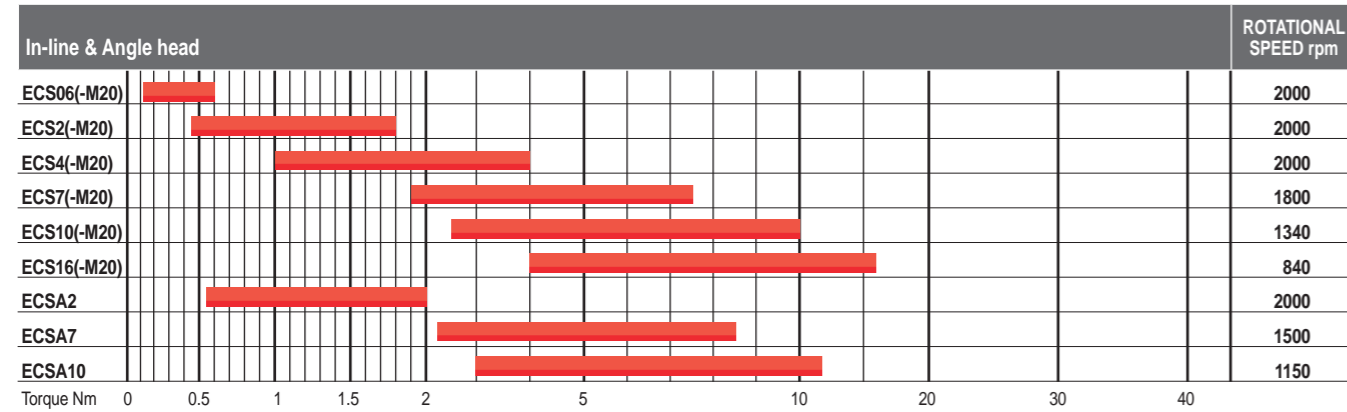
	PART NO.
• PC cable Length 2m (78.7")	615 917 047 0
• Printer cable Length 2m (78.7")	615 917 011 0
• BRDx2 (Backup Rescue Device)	615 936 328 0

Fieldbus / Protocol

MODEL	PART NO.
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0

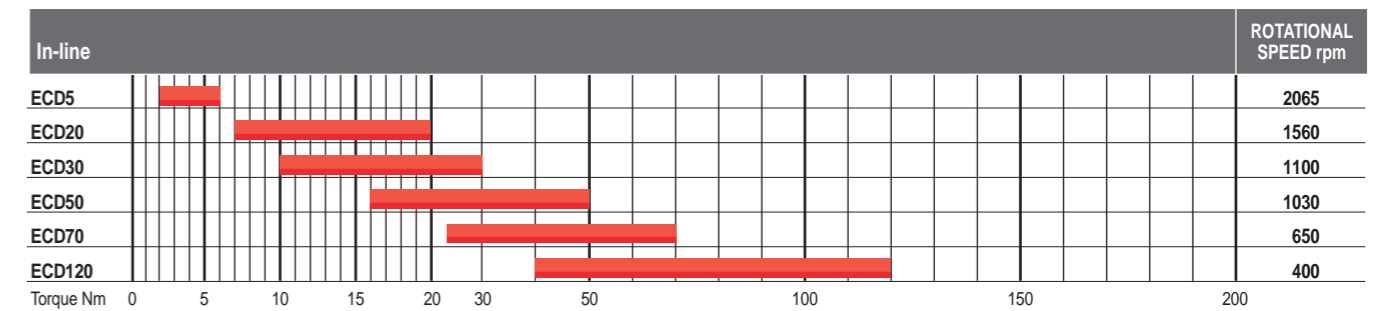
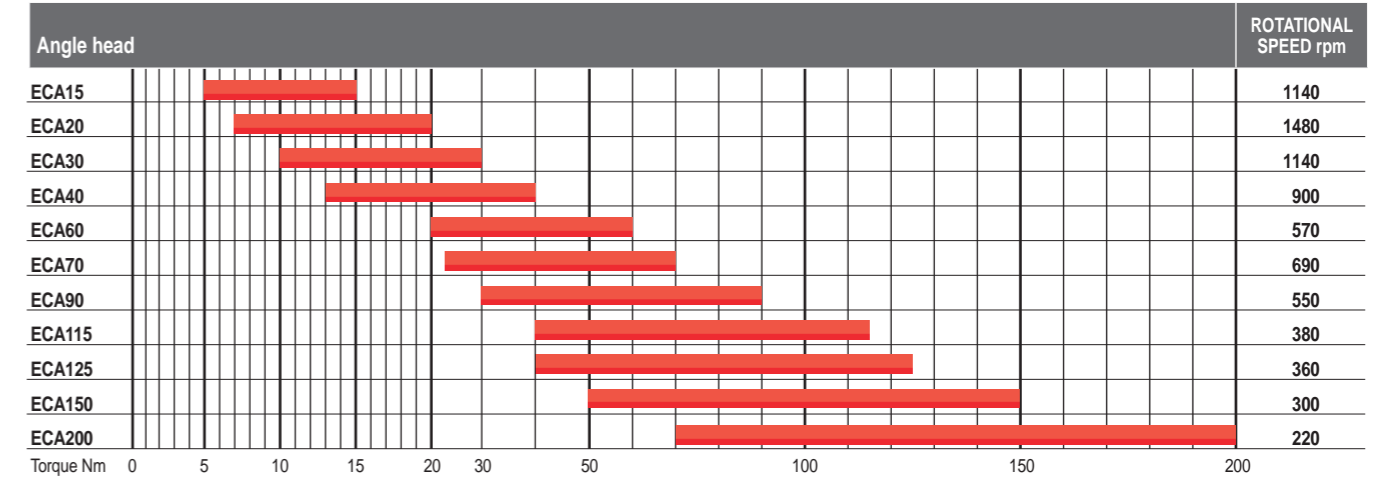
Torque Range

Performances of Portable electric nutrunners
ECS, ECSA and ECP Series

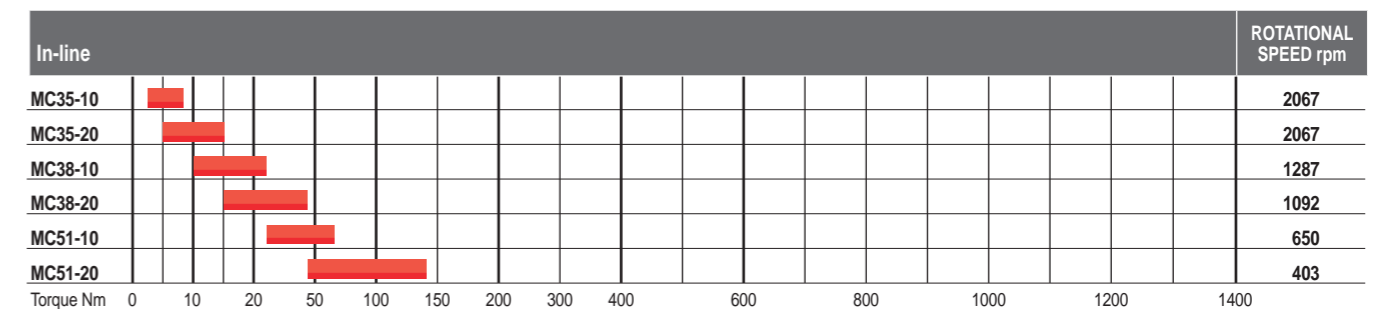
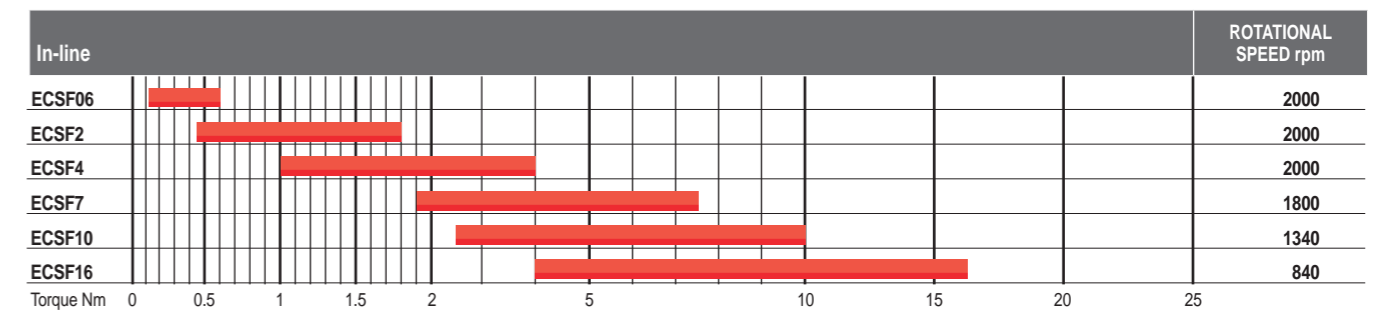


Torque Range

Performances of Portable electric nutrunners
ECA and ECD Series



Performances of Fixtured electric spindles
ECSF and MC 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



Adapt your tool with accessories



A



B



C



OK



NOK



BATCH OK

Get the best tightening feedback directly on the tool

ACCESSORIES
see pages 76-77

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN. Nm	MAX. Nm	MIN. in.lb	MAX. in.lb		rpm	mm	in.	kg

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	15.9	2000	285	11.2	0.6	1.3
A	ECS4	615 165 445 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
A	ECS7	615 165 446 0	Hex. 1/4 F	1.9	7.5	16.8	66.4	1800	285	11.2	0.7	1.5
A	ECS10	615 165 444 0	Hex. 1/4 F	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
A	ECS16	615 165 459 0	Hex. 1/4 F	4	16	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	15.9	2000	285	11.2	0.6	1.3
B	ECS4-M20	615 165 456 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
B	ECS7-M20	615 165 457 0	Hex. 1/4 F	1.9	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	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
B	ECS16-M20	615 165 460 0	Hex. 1/4 F	4	16	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	2.2	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	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



A



B



C



D

ACCESSORIES
see pages 76-77

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



Over 360° Swivel for operator safety and comfort



For your quality-critical applications

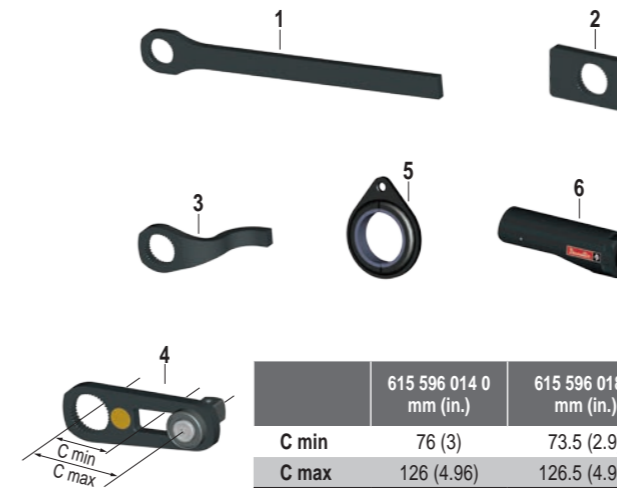
Impact and impulse tools have been a production favourite for many years.

This current controlled swing bar tool allows you a 1st step to switch from pneumatic to DC tools, error-proof your high torque tightenings in medium duty applications, save on energy costs and reduce your carbon footprint.

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

Electric High Torque Pistol Grip - CVIC



	615 596 014 0 mm (in.)	615 596 018 0 mm (in.)	615 596 111 0 mm (in.)
C min	76 (3)	73.5 (2.9)	80 (3.15)
C max	126 (4.96)	126.5 (4.98)	150 (5.9)



OPTIONAL ACCESSORIES	1	2	3	4	5	6
	STRAIGHT REACTION BAR	BLANK REACTION BAR	S TYPE REACTION BAR	SLIDING DRIVE REACTION BAR	SUSPENSION BAIL	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

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	MAX.	MIN.	MAX.		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

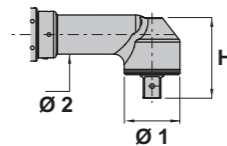


Angle head electric nutrunners - CVIC

5 to 200 Nm (3.7 to 147 ft.lb) - 200 to 1480 rpm



MODEL	H		Ø1		Ø2	
	mm	in.	mm	in.	mm	in.
ECA15	45.5	1.8	28	1.10	27	1.06
ECA20 - ECA30	45.5	1.8	28	1.10	27	1.06
ECA40	51.5	2.0	35	1.40	27	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	1.46
ECA125 - ECA150	69.0	2.7	50	1.97	42	1.65
ECA200	86.0	3.4	60	2.36	42	1.65



ACCESSORIES
see pages 76-77

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

In-line electric Nutrunners - CVIC

2 to 120 Nm (1.5 to 88 ft.lb) - 400 to 2065 rpm



ACCESSORIES
see pages 76-77

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				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	2065	346	13.6	1.0	2.4
B	ECD20	615 165 093 0	Hex 1/4	7-20	5.2-15	1560	1560	388	15.3	1.5	3.3
B	ECD30	615 165 094 0	Sq 3/8	10-30	7.4-22	1100	1100	380	15.0	1.5	3.3
C	ECD50	615 165 095 0	Sq 3/8	16-50	11.8-37	1030	1030	456	17.9	2.6	5.7
C	ECD70	615 165 096 0	Sq 1/2	23-70	16.9-52	650	650	461	18.1	2.6	5.7
C	ECD120	615 165 097 0	Sq 1/2	40-120	29.5-88	400	400	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



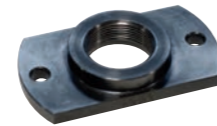
A



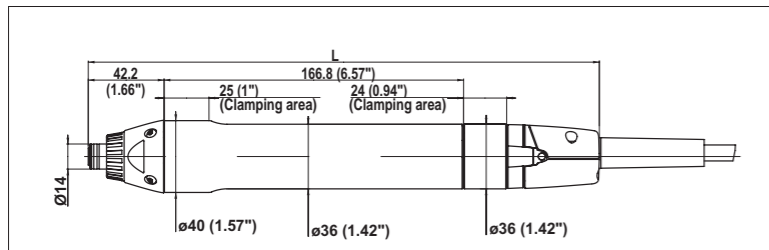
Offset head for application with close centers (minimum 19mm)



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 76

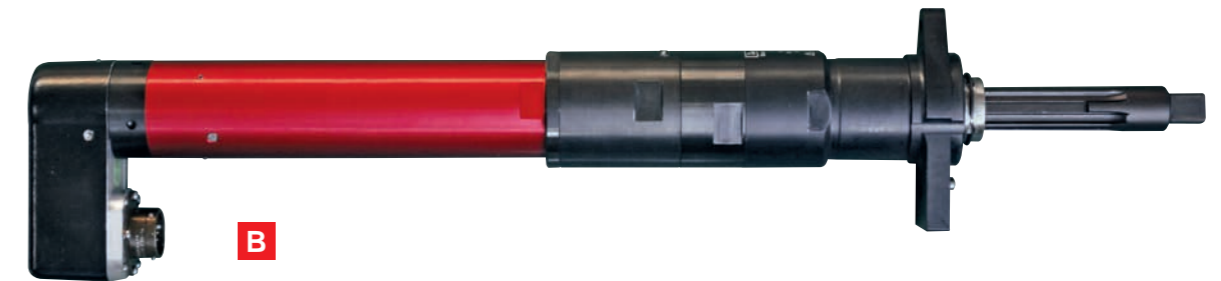
PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE		ROTATIONAL SPEED AT	LENGTH		WEIGHT	
				Nm	in.lb		mm	in.	kg	lb.
A	ECSF06	615 165 501 0	Hex. 1/4 F	0.12-0.6	1.1-5.3	2000	285	11.2	0.6	1.3
A	ECSF2	615 165 502 0	Hex. 1/4 F	0.45-1.8	4.0-15.9	2000	285	11.2	0.6	1.3
A	ECSF4	615 165 503 0	Hex. 1/4 F	1.0-4.0	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 135 Nm (1.8 to 99 ft.lb) - 403 to 2067 rpm



A



B

ACCESSORIES
see page 77

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	
				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	2067	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	2067	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	1287	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	1092	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	650	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	403	50	1.97	51.2	2.0	393	15.4	3.5	7.7

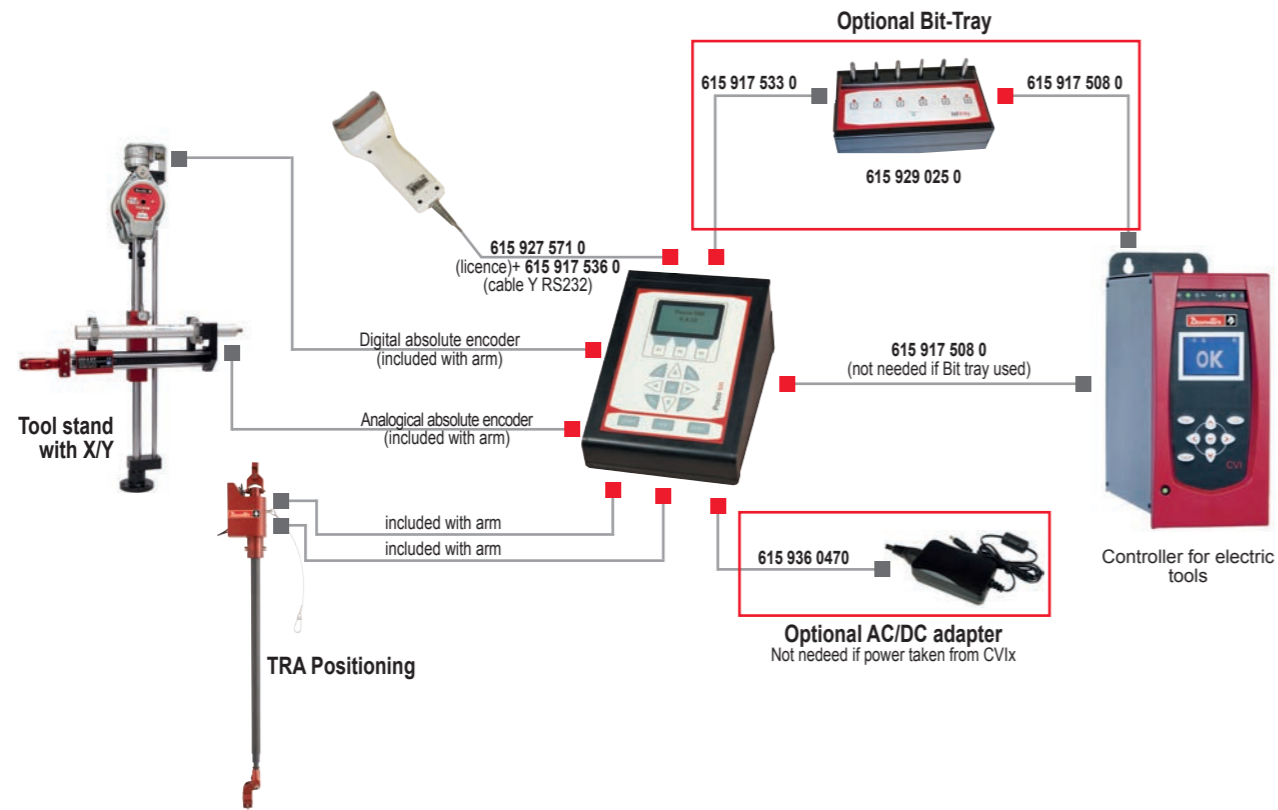
Posco 500 Positioning system

Flexibility and control

Used in conjunction with encoders equipped arms stand or carbon arm, the system ensures that the tool is positioned at the right screw during the operation. An output signal 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.



POSCO 500 BOX	PART NO.
Posco 500 controller desk	615 932 656 0
Posco 500 controller desk with I/O extension	615 932 658 0
Posco500 controller wall with I/O extension	615 932 659 0
AC/DC adapter 90-260V/24V 30W	615 936 047 0
I/O add-on board	615 929 026 0
OTHERS	PART NO.
Bit tray module	615 929 025 0
Mounted set	615 930 777 0

CABLE	PART NO.
Cable Posco 500 / I-O CVI	615 917 534 0
Cable Posco 500 / Bit-Tray	615 917 533 0
Cable Y RS232	615 917 536 0
Cable Posco 500 / Bit-Tray / CVIxII	615 917 508 0
I/O Adapter for CVIx II controllers	615 919 003 0
SOFTWARES & LICENCES	PART NO.
Barcode license	615 927 571 0
Advanced Programming Licence	615 927 572 0
PC Connection licence 1 User	615 927 573 0
PC Connection licence 5 Users	615 927 574 0
PC Connection licence 10 Users	615 927 575 0
FAS support licence	615 936 048 0

How to order?

The ordering diagram shows the following components:

- Controller & Tool CVI3 or CVIx2**
- Positioning Arm D53 X/Y or TRA X/Y**
- POSCO 500** (615 932 656 0 or 615 932 658 0 or 615 932 659 0)
- Options:**
 - AC / DC Adapter** (615 936 047 0)
 - Accessories**



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

OPTIONAL ACCESSORIES

ITEM		PART NO.
ECP		
5	High resistance Side handle for ECP L/S/LT versions	615 397 012 0
6	Rotary right angle tool connector	615 396 300 0
	• Suspension bail on a swivel for ECP L/S	615 396 121 0
7	Suspension bail on a swivel for ECP HT	615 571 072 0
	• Top cable length 4m for ECP.LT	615 917 420 0
8	Protection sleeve for ECP HT	615 573 131 5
9	Tool holster DTH90	615 812 119 0

ECA / ECD

6	Rotary right angle tool connector	615 396 300 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 / ECD5	615 396 229 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

ECS / ECSA

13	Reaction handle for ECS	615 397 016 0
3	Stationary suspension bail for ECSA	615 791 080 0
	• Tool clamp for ECS	615 396 616 0
14	Pistol grip kit for ECS	615 390 059 0

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

15	Bit Adaptor	103782
16	Spring Loaded Shaft 25mm (1" stroke, 3/8" Sq Drive)	108342
17	Shaft Support and Nose Mount	108412

Nose Mounts for ECS-M20/ECSF

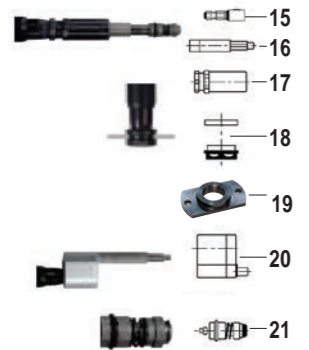
18	Nose Mount	205 052 876 3
19	Flange	205 052 875 3

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

16	Spring loaded shaft 25mm (1" stroke, 3/8" square drive)	108352
20	Offset Head, Offset 30mm (1.18")	384993

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

21	3/8" Square to 1/4" HexPower Adaptor	108322
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Accessories

ECS / ECP / ECA / ECD

SOCKETS TRAY & BITS TRAY	PART NO.
• Socket tray (sockets not supplied)	615 936 005 0
• Bit tray (bits not included)	615 929 025 0

CABLE FOR SOCKET TRAY	PART NO.	CABLE FOR BIT TRAY	PART NO.
Cable 1m (3.3ft)	615 917 241 0	Extension cable 2m (6.4ft)	615 917 535 0
Cable 5m (16ft)	615 917 242 0		
Cable 10m (32.8ft)	615 917 244 0		
Cable 15m (49.2ft)	615 917 245 0		

CABLE FOR ECP / ECA / ECD TOOLS	PART NO.	EXTENSION CABLE FOR ECS / ECP / ECA / ECD TOOLS	PART NO.
Nutrrunner cable 3m (9.8ft)	615 917 461 0	Extension cable 5m (16ft)	615 917 222 0
Nutrrunner 5m (16ft)	615 917 462 0	Extension cable 10m (32.8ft)	615 917 224 0
Nutrrunner 10m (32.8ft)	615 917 464 0		
Nutrrunner 15m (49.2ft)	615 917 465 0		



MC

OPTIONAL ACCESSORIES

	PART NO.
• Motor/In-line connector assembly kit for MC35-10 to MC51-20	615 396 198 0

Transducer-holder from MC tool

• 3/8" square drive MC35/MC38	615 396 426 0
• 1/2" square drive MC51-10	615 396 427 0

CABLE FOR MC TOOLS	PART NO.	EXTENSION CABLE FOR MC TOOLS	PART NO.
Tool cable 5m (16ft)	615 917 232 0	Tol extension cable 5m (16ft)	615 917 222 0
Tool cable 10m (32.8ft)	615 917 234 0	Tool extension cable 10m (32.8ft)	615 917 224 0
Tool cable 15m (49.2ft)	615 917 235 0		





SLBN screwdrivers controllers

Advanced controller for SLBN screwdrivers

Flexible speed

- Speed adjustment

Protection of The parameters

- Setting locked by key

Universal

- Compatible with all the SLBN range

Fastening Strategies

- PreRun reverse
- Slow start
- Final fastening
- Post run reverse

Batch counting

- Incremental or decremental counting up to 99



INPUTS AND OUTPUTS FOR PLC COMMUNICATION

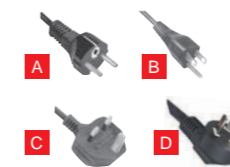
- Inputs:**
- Remote Start
 - Remote Reverse
 - Enable tool A
 - Enable tool B
 - Enable Reverse
 - Reset Batch
 - NOK Acknowledgment
 - Psets 1 to 5
 - PreRun Reverse enable

- Outputs:**
- OK
 - NOK
 - OK Batch
 - Tool running forward
 - Tool running reverse
 - 24/12 Vdc

START-UP KIT to be ordered with the controller

Including: Power cable and plug

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



PIC REF	MODEL	PART NUMBER	DIMENSIONS						WEIGHT		VOLTAGE VAC	COMPATIBLE TOOLS
			WIDTH		HEIGHT		DEPTH		kg	lb		
A	ESP1	615 932 635 0	160	6.3	75	2.95	55	2.17	0.50	1.1	100-240	SLBN003/012/020
B	ESP1-HT	615 932 637 0	213	8.4	131	5.20	65	2.60	1.80	3.9	100-240	SLBN030/050
B	ESP1-HT PLUS	615 932 707 0	213	8.4	131	5.20	65	2.60	1.63	3.6	100-240	SLBN90/120
C	ESP2-A	615 932 708 0	135	5.3	285	11.2	105	4.1	2.8	4.4	100-240	SLBN003-SLBN120

Low Voltage Screwdriver with clutch shut off - SLB

Standard Version - SLBN

0.02 to 12 Nm (0.18 to 106.2 in.lb) - 160 to 2000 rpm

Flexibility

- Installation by clamping in the top or in the front by a torque fixing ring

ESD Certification

- Dedicated version for Electrostatic discharge component protection

Productivity

- Speed up to 2000 rpm
- Maintenance free thanks to brushless motor

Ergonomy

- Soft Rubber grip
- Low noise level <70dB(A)



A



B



C



D



E



F

MODEL	LENGTH		WEIGHT	
	mm	in.	kg	lb.
SLBN001	174	6.8	0.17	0.37
SLBN003/010	182	7.2	0.38	0.34
SLBN012/020	245	9.6	0.58	1.28
SLBN030/050	283	11.1	0.80	1.76
SLBN090/120	301	11.8	1.25	2.76

ACCESSORIES
see page 85

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED		TORQUE RANGE		TORQUE RECOMMENDED		VOLTAGE VDC	CONTROLLER
				in	Hi rpm	Lo rpm	Nm	in.lb	Nm		

LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

A	SLBN001-L1000-SWS	615 165 873 0	whing shank	1000	700	0.02-0.14	0.18-1.32	0.10	0.91	15	ESP1.LT included
A	SLBN003-L230-S4Q	615 165 922 0	1/4	230	160	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN003-L1000-S4Q	615 165 923 0	1/4	1000	750	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN010-L1000-S4Q	615 165 955 0	1/4	1000	750	0.1-1	0.88-8.8	0.70	6.16	25	ESP1
B	SLBN012-L1000-S4Q	615 165 924 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN012-L2000-S4Q	615 165 925 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN020-L1000-S4Q	615 165 926 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
C	SLBN030-L1000-S4Q	615 165 927 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN030-L2000-S4Q	615 165 928 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN050-L1000-S4Q	615 165 929 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-L800-S4Q	615 165 947 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-L550-S4Q	615 165 948 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS

PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

E	SLBN012-A1000-S4Q	615 165 934 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN012-A2000-S4Q	615 165 935 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN020-A1000-S4Q	615 165 936 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
F	SLBN030-A1000-S4Q	615 165 937 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN030-A2000-S4Q	615 165 938 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN050-A1000-S4Q	615 165 939 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-A800-S4Q	615 165 951 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-A550-S4Q	615 165 952 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS

ESP C / ESP CA

Advanced controller SLC range

- Auto stop after elapsed time and auto reverse
- OK/NOK with rehit protection
- I/O for integration with PLC for multiple functions
- Easy to use
- Flexible keypad
- Multi languages
- Speed control at all steps of operation: start, rundown and final phase
- Replace several tools by one
- Multi torque strategy
- Automatic sequence
- Up to 8 programs
- User friendly interface
- Avoid time and Energy lost in programming
- POKE YOKE & Fastening Assurance System
- User friendly interface
- Avoid time and Energy lost in programming
- USB key
- Results saving
- Statistics
- High Torque Phase (HLT)
- For all Self Tapping/Cutting applications

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

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0

PIC REF	MODEL	PART NUMBER	TORQUE RANGE		SUPPLY VOLTAGE	DIMENSIONS						WEIGHT	
			Nm	in.lb		WIDTH	HEIGHT	DEPTH	kg	lb			
A	ESP C 220V	615 165 480 0	0.5-15	4.4-132.7	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C 110V	615 165 484 0	0.5-15	4.4-132.7	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 220V	615 165 481 0	0.5-7.0	4.4-61.9	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 110V	615 165 485 0	0.5-7.0	4.4-61.9	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
B	ESP CA 220V	615 165 482 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 220V	615 165 483 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA 110V	615 165 486 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 110V	615 165 487 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5

High power screwdrivers - SLC

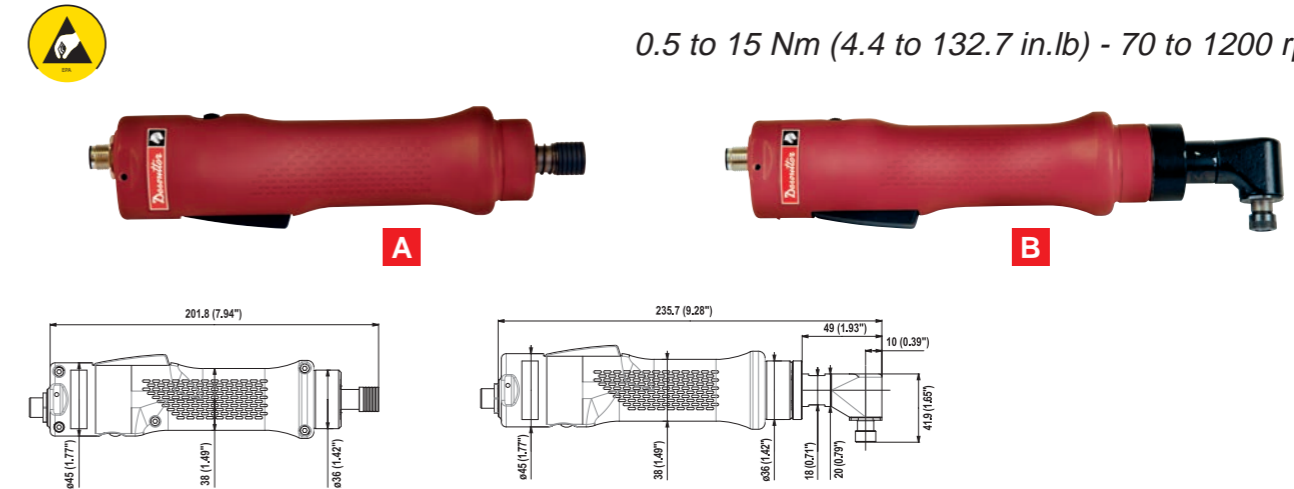
Torque Range

Performance of Electric Screwdrivers - Series SLC

MODEL	FUNCTIONS	SPEED RANGE		SHAPE
		rpm		
SLC 30 / ESP C(A)LT	Soft joint Hard joint	400-1200		In-line - Angle Head Pistol - Spindle
SLC 100 / ESP C(A)LT	Soft joint Hard joint	130-400		In-line - Angle Head Pistol - Spindle
SLC 100 / ESP C(A)	Soft joint Hard joint Soft joint & Hard joint	200-600		In-line Pistol - Spindle Angle Head
SLC 150 / ESP C(A)LT	Soft joint Hard joint	70-220		In-line Pistol - Spindle
SLC 150 / ESP C(A)	Soft joint Hard joint	100-320		In-line Pistol - Spindle

In-line and Angle head screwdrivers - SLC

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



ACCESSORIES see page 85

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT	SOFT	HARD	HARD	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	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-L320-C4Q	615 165 467 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)
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
B	SLC100-L600-C90A4H	615 165 479 0	1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.7	1.5	ESP C(A)

Pistol grip screwdrivers - SLC

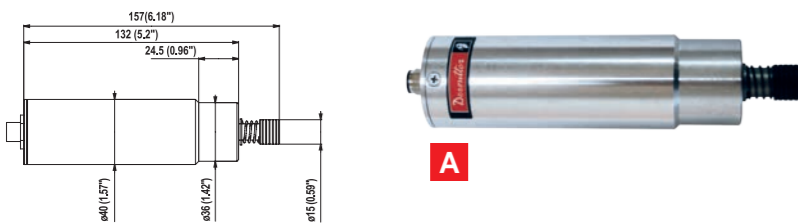
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT	SOFT	HARD	HARD	kg	lb	
			in.	rpm	Nm	in.lb	Nm	in.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	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			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	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
			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



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT	SOFT	HARD	HARD	kg	lb	
			in.	rpm	Nm	in.lb	Nm	in.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	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
			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)

Accessories

SLBN / SLC

ACCESSORIES INCLUDED

	SLBN	SLC
• Suspension bail		615 360 222 0
• Torque fixing ring for SLB003	615 225 053 0	
• Torque fixing ring for SLB012/020	615 548 218 0	
• Torque fixing ring for SLB030/050	615 548 219 0	
• Tool / Controller cable L = 2.5m (8.2ft)	-	615 360 223 0
• Cable L = 1.83m (6ft)	615 397 416 0	

OPTIONAL ACCESSORIES

ITEM	SLBN	SLC
------	------	-----

SLBN Tools

1	Control Box	615 932 709 0
2	Spiral cable 3m (9.9 ft)	615 360 838 0
3	Pistol grip (Trigger) for SLB030/050	615 397 918 0
3	Pistol grip (Push) for SLB030/050	615 397 919 0
3	Pistol grip (Push) for SLB012/020	77562
•	Cable, 10m (32.8 ft)	615 360 379 0
•	Wall fixing plate for ESP1-HT	615 571 085 5
•	Clamp ring for SLB012/020	615 399 057 0
•	Clamp ring for SLB030/050	615 397 815 0
•	Adaptor M20 SLB012/020	615 548 151 5
•	Adaptor M20 SLB 030/050	615 548 152 5
4	Angle head for SLB012/020	615 398 033 0
4	Angle head for SLB030/050	615 398 034 0

SLC Tools

5	Side Handle	615 397 016 0
6	Color ring (3)	615 397 008 5
•	Cable extension L = 2m (6.6ft)	615 917 593 0
7	Spiral cable L = 2m (6.6ft)	615 917 594 0
•	M20 adaptor	615 567 132 0
8	Bit tray	615 936 068 0
9	Switch box	615 936 069 0

Spring Loaded Shafts and Bearings Support

10	Bit Adaptor	103782
11	Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive	108342
12	Shaft Support and Nose Mount	108412

Nose Mounts for SLC-M20

13	Nose Mount	205 052 876 3
14	Flange	205 052 875 3

Offset Head and Spring Loaded Shaft

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

Screwdriver Bit Adaptor

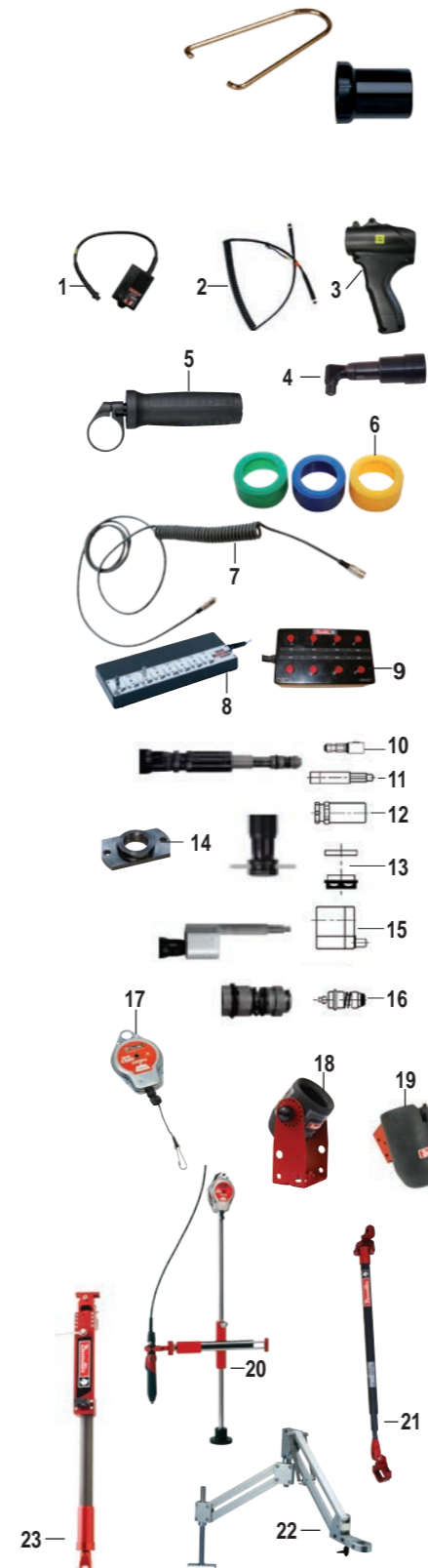
16	3/8" Square to 1/4" HexPower Adaptor	108322
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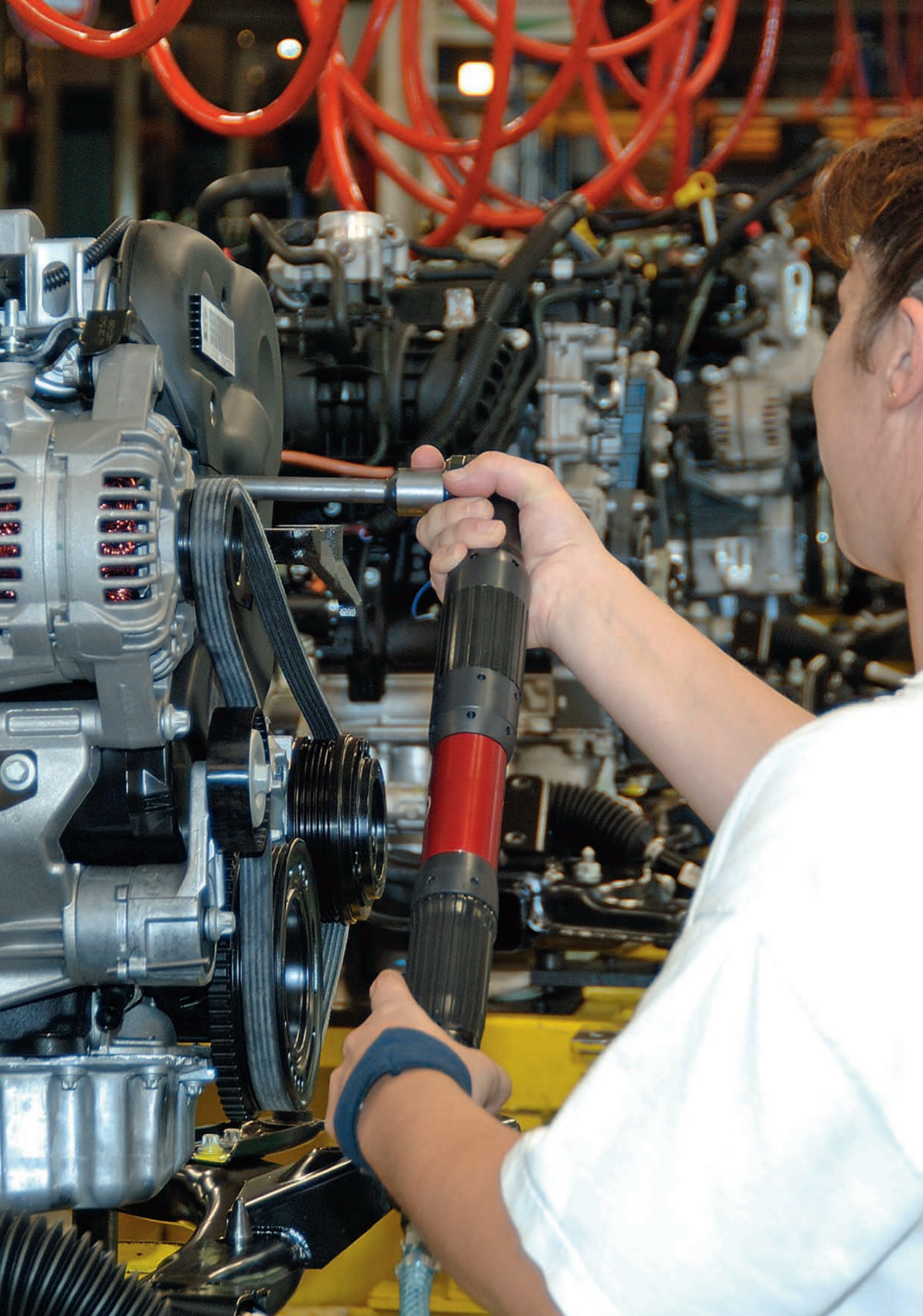
Balancers and Holster

17	Spring Suspension Balancer	50522
18	Tool holster DTH-42	107892
19	Tool holster DTH90	615 812 119 0

Ergonomic accessories

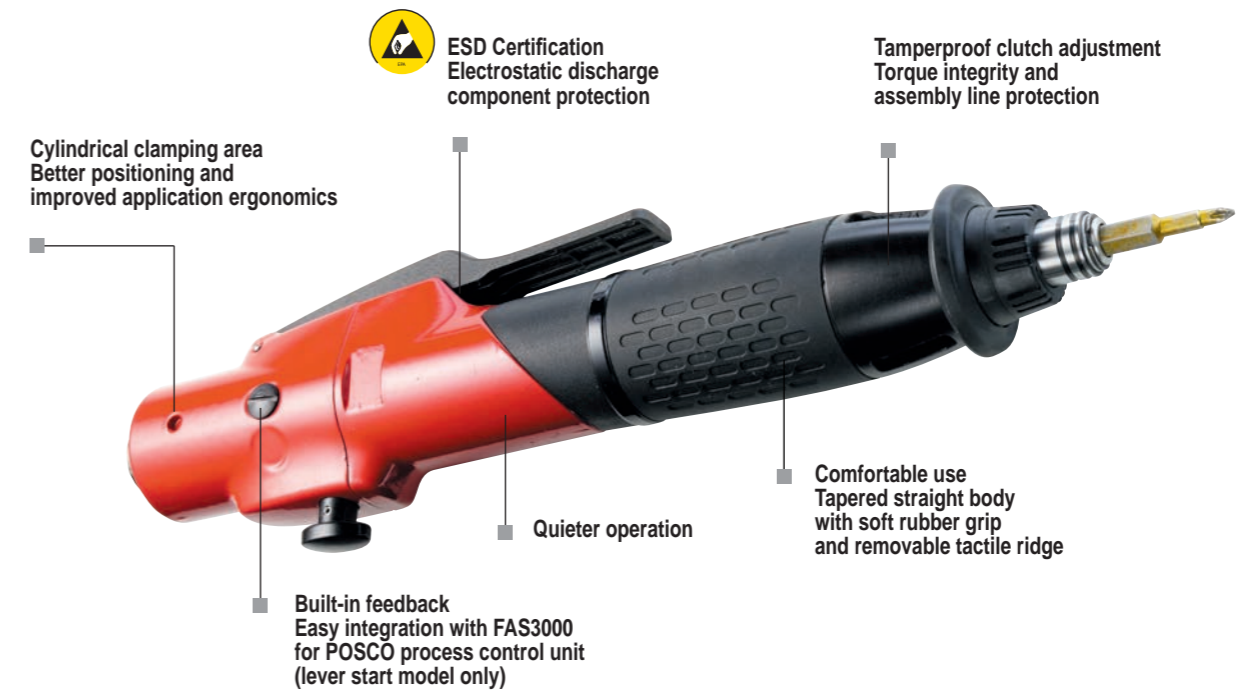
20	D53 - Linear & Folder arms	see page 147
21	TRA - Telescopic arms	see page 156
22	D57, D58 - Balancing arms	see page 160
23	Torque tube	see page 159





Pneumatic fastening tools

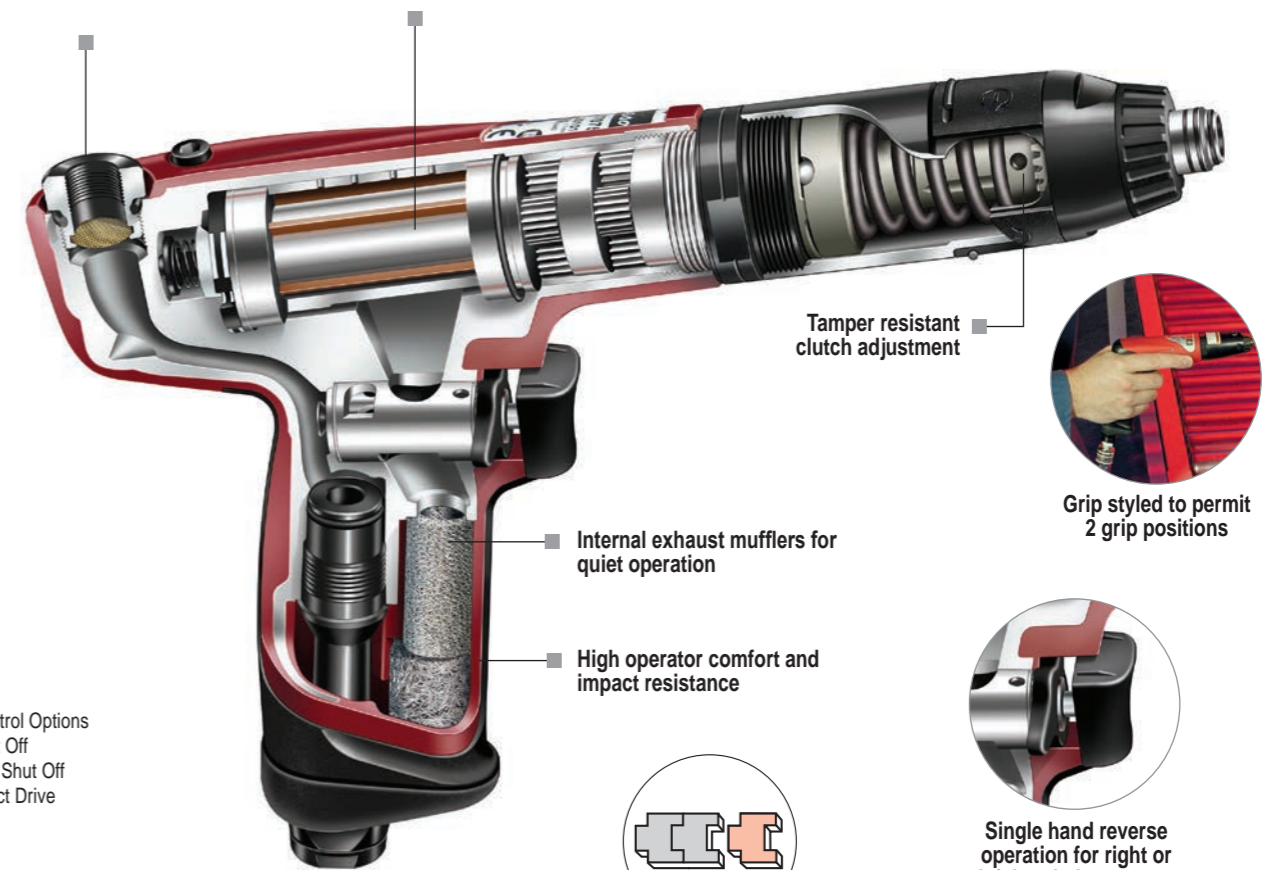
Shut Off, Non Shut Off, Direct Drive, Automatic Reverse



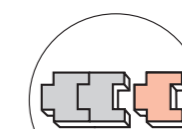
T shape grip for better balance to enhance operator comfort

Powerful, efficient, Dryline™ motor

CLUTCH AND MOTOR PROLONGING TOOL LIFE



- 3 Control Options**
- Shut Off
 - Non Shut Off
 - Direct Drive



Modularity



Single hand reverse operation for right or left handed operators

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
	4.6	5.8	8.8	10.9	12.9	8.8
THREAD SIZE	RECOMMENDED TORQUE (NM)					RECOMMENDED TORQUE (NM)
M1.6	0.07	0.12	0.19	-	-	-
M2	0.15	0.24	0.38	-	-	0.5
M2.2	0.19	0.31	0.51	-	-	-
M2.5	0.28	0.48	0.77	-	-	-
M3	0.51	0.85	1.4	1.9	2.3	1.4
M3.5	0.80	1.34	2.2	3.0	3.6	-
M4	1.20	2.00	3.2	4.5	5.4	3.2
M5	2.40	4.00	6.4	9.0	10.7	6.5
M6	4.10	6.80	10.9	15.3	18.3	11
M8	9.80	16.3	26.1	36.8	44.1	26
M10	19.3	32.2	51.5	72	86.9	52
M12	33.6	56.0	90	126	151	91
M14	53.0	89.0	142	200	239	-
M16	82.0	136	218	307	368	-
M18	114	190	304	428	513	-
M20	160	266	426	598	718	-
M22	215	358	573	806	967	-

SELF TAPPING/DRILLING SCREWS	
THREAD SIZE	RECOMMENDED TORQUE (NM)
ST2.2 (B2)	0.2
ST2.9 (B4)	1.0
ST3.5 (B6)	1.8
ST4.2 (B8)	2.9
ST4.8 (B10)	4.2
ST5.5 (B12)	6.7
ST6.3 (B14)	9.1

CONVERSION FACTORS

- Nm x 141.6 = oz in
- Nm x 8.851 = in lb
- Nm x 0.73756 = ft lb
- Nm x 0.102 = kgf m/kpm
- Nm x 10.2 = kgf cm

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%
 Torque values are recommended values for a working pressure of 6,3 bar (90 PSIG)

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

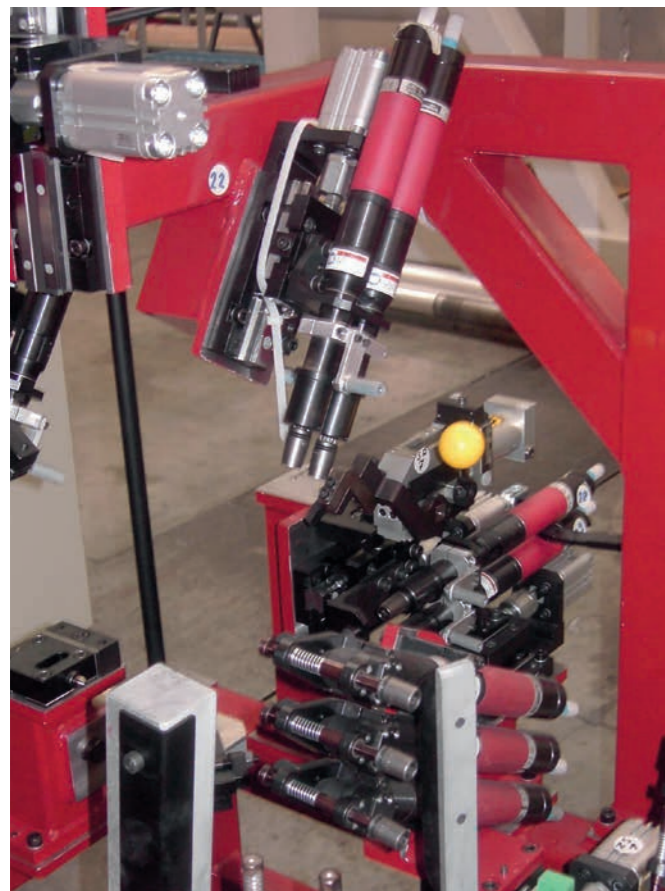
Recommended Maximum Torque Values – UNC Thread

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	5.43	4	10.3	7.6	11	8.2
5/16	11.2	8.3	21.3	15.7	23	16.9
3/8	19.9	14.7	37.9	27.9	40	30.2
7/16	31.9	23.5	60.7	44.8	65	48.31
1/2	48.8	36	92.7	68.4	100	73.8
9/16	70.4	51.9	134	98.8	144	106
5/8	97.4	71.8	185	136.4	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	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	6.3	4.6	11.9	8.8	12.9	9.5
5/16	12.5	9.2	23.8	17.5	25.7	18.9
3/8	22.7	16.7	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
9/16	79	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

Modularity

ACCESS



90° Angle Heads



45° Angle Heads



Crowfoot Open Ended Wrenches

ERGONOMIC BENEFITS

- Lightweight
- Short Length
- Light Start Load

Pistol options of 'P' or 'T' style to suit the application and operator preference

'Warm feel' friction grip



Tapered nose for improved visibility

Tamper resistant clutch adjustment

Single hand reverse operation for right and left handed operators without any modification

Contoured grip

Correct grip orientation



Contoured grip

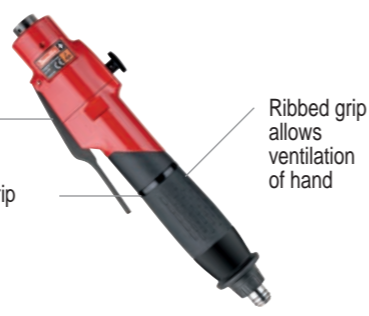
Friction grip

Thrust bump

Tamper resistant clutch adjustment

Adjustable lever

'Warm feel' grip



Ribbed grip allows ventilation of hand

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
- Multi orientation
- Top air inlet
- Requires balanced tool

- Use P Shape - arm in line with body of tool for thrust
- Use P Shape - allows wrist to rotate into position
- Can only use T Shape
- Use T Shape - especially with screwfeeder

Button Reverse versus Rotary Reverse

- Rapid Reverse Required
- Thread Chasing Cleaning
- Rivnuts/Threaded Fasteners
- Long Periods in Reverse

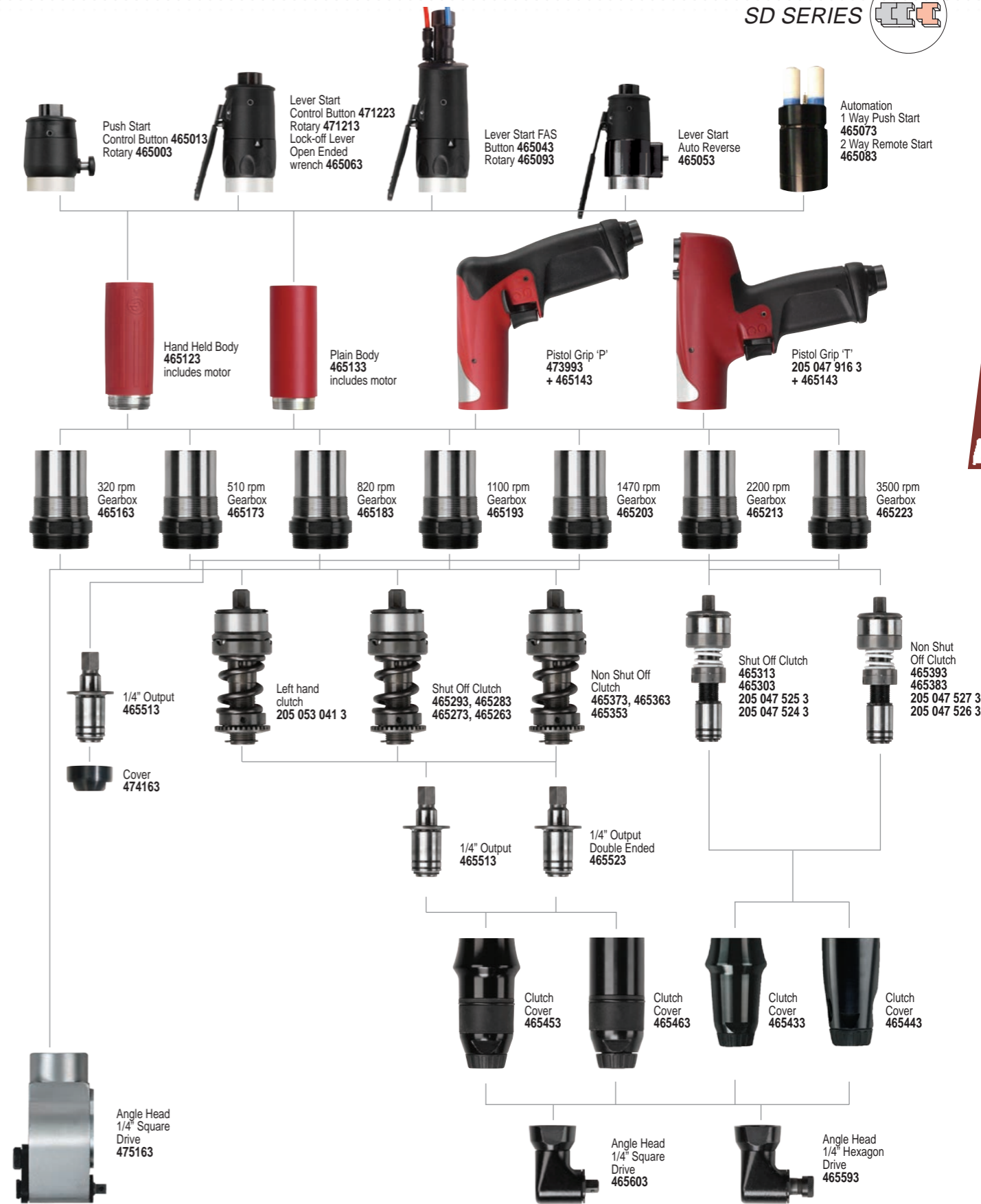
- Use button reverse
- Use button reverse (auto reverse for blind holes)
- Use auto reverse tools
- Use rotary reverse

Push Start versus Lever Start

- Fast Cycle Rate
- Single Hand Operation Required
- Need to Align/Position Components First

- Use push start
- Use push start
- Use lever start or push + trigger start (SBP/SDP only)

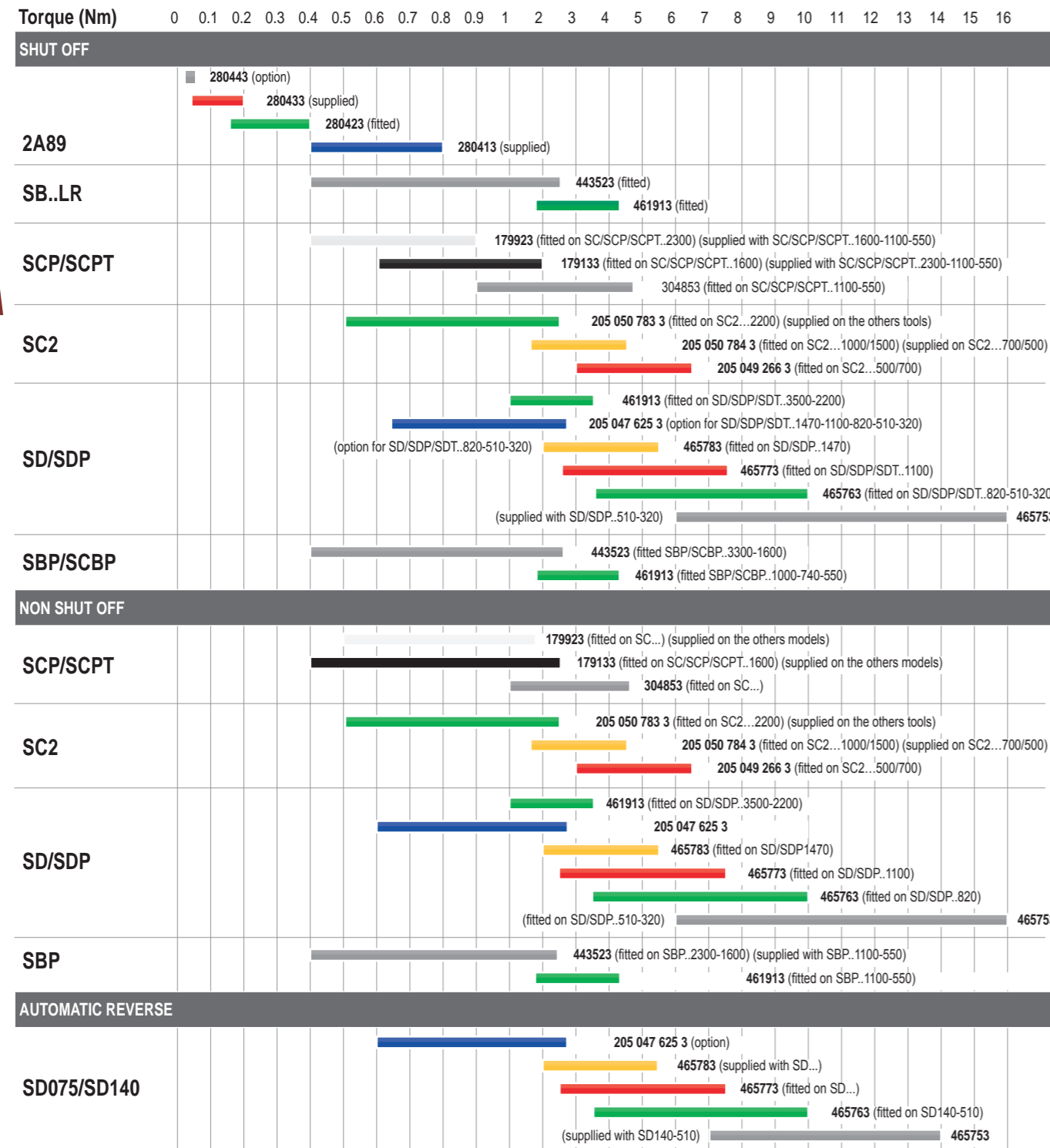
SD SERIES



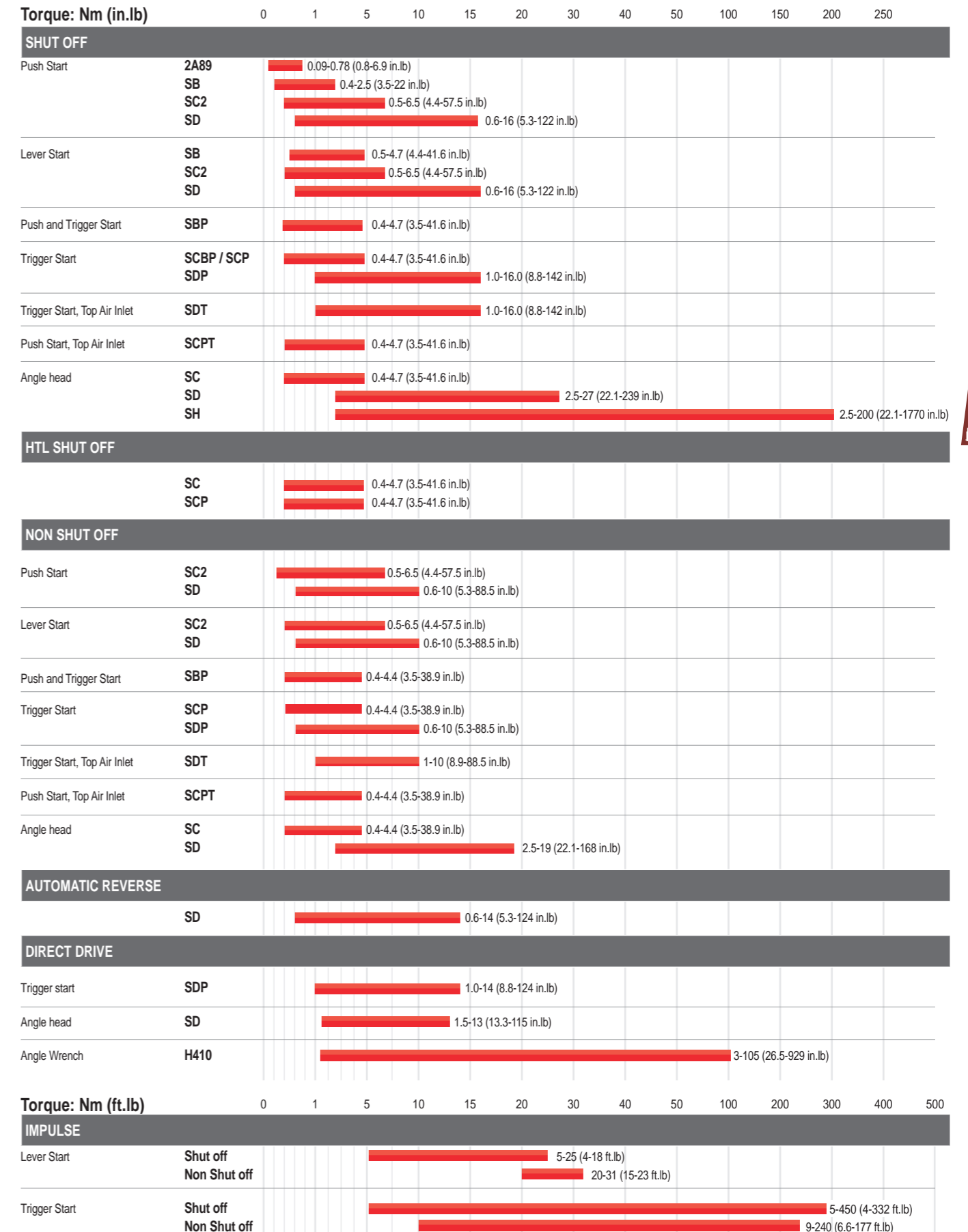
Modularity, a concept for all Desoutter pneumatic screwdrivers range

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

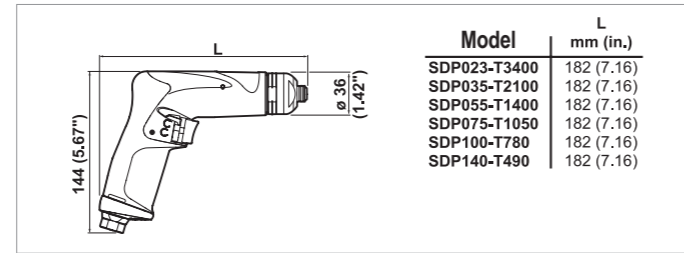


Screwdrivers - Direct drive Pistol grip

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



A



Model	L mm (in.)
SDP023-T3400	182 (7.16)
SDP035-T2100	182 (7.16)
SDP055-T1400	182 (7.16)
SDP075-T1050	182 (7.16)
SDP100-T780	182 (7.16)
SDP140-T490	182 (7.16)

ACCESSORIES
see page 111

PIC REF	MODEL	PART NUMBER	FREE SPEED rpm	OUTPUT HEX in.	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET in.	HOSE INT. Ø	
					Nm	in.lb	kg	lb.	l/s	cfm		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	31-66.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP100-T780-D4Q	1465674	780	1/4	3.5-10	31-88.5	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP140-T490-D4Q	1465664	490	1/4	3.5-14	31-124	0.8	1.76	9.0	19.1	1/4	10	3/8

Screwdrivers - High torque & Torque Controlled Shut off

9 to 22 Nm (27 to 195 in.lb) - 320 rpm



A



B

Screwdrivers - Left hand tightening - Shut off Push start Automatic reverse

0.6 to 16 Nm (5.3 to 142 in.lb) - 320 to 1100 rpm

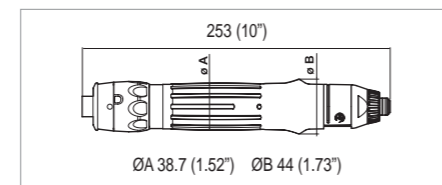
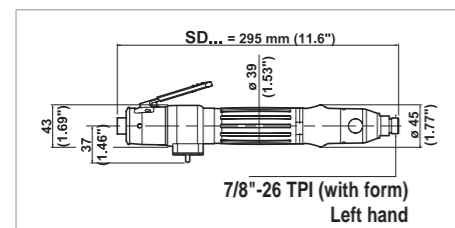


A

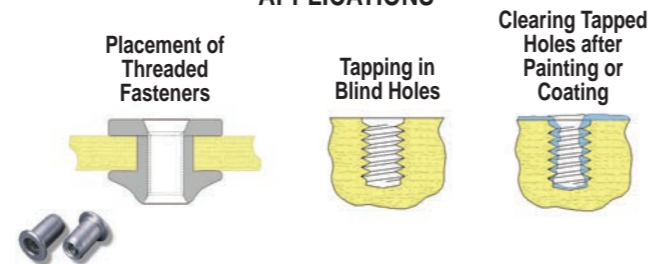


B

Tool shown with optional clutch HSG and bit adaptor

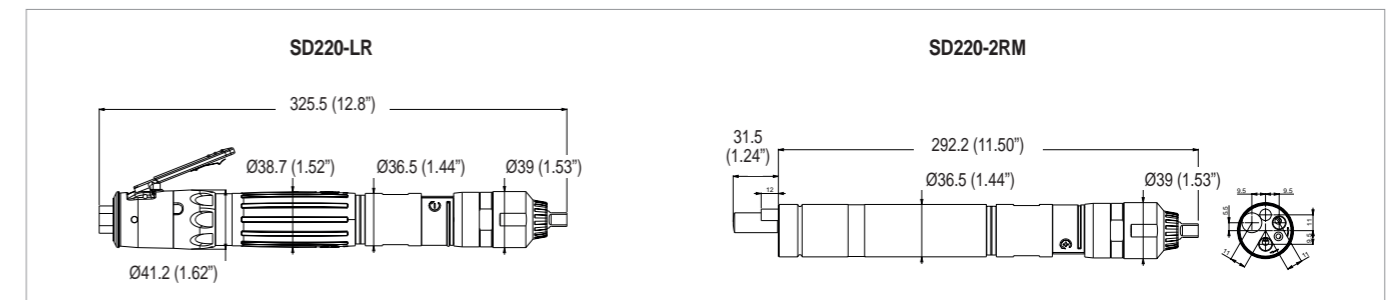


APPLICATIONS



ACCESSORIES
see page 110

PIC REF	MODEL	PART NUMBER	FREE SPEED rpm	OUTPUT HEX in.	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET in.	HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm		mm	in.
LEFT HAND TIGHTENING - SHUT OFF - PUSH START															
A	SD160L-AR320-S4Q	205 147 799 4	320	1/4	0.6-16	5.3-142	3.5-10	31-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
AUTOMATIC REVERSE															
B	SD140-LA510-S4	1464584	510	See	0.6-14	5.3-124	-	-	1.0	2.2	8.7	18.4	1/4	10	3/8
B	SD075-LA1100-S4	1464604	1100	Accessories	0.6-7.5	5.3-66.4	-	-	1.0	2.2	8.7	18.4	1/4	10	3/8



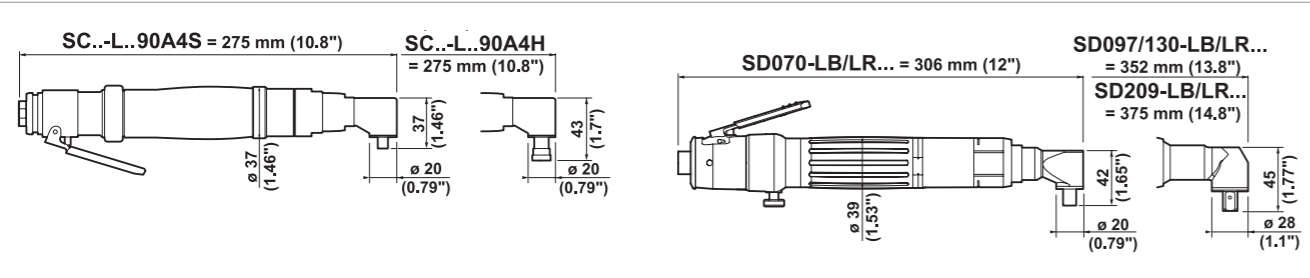
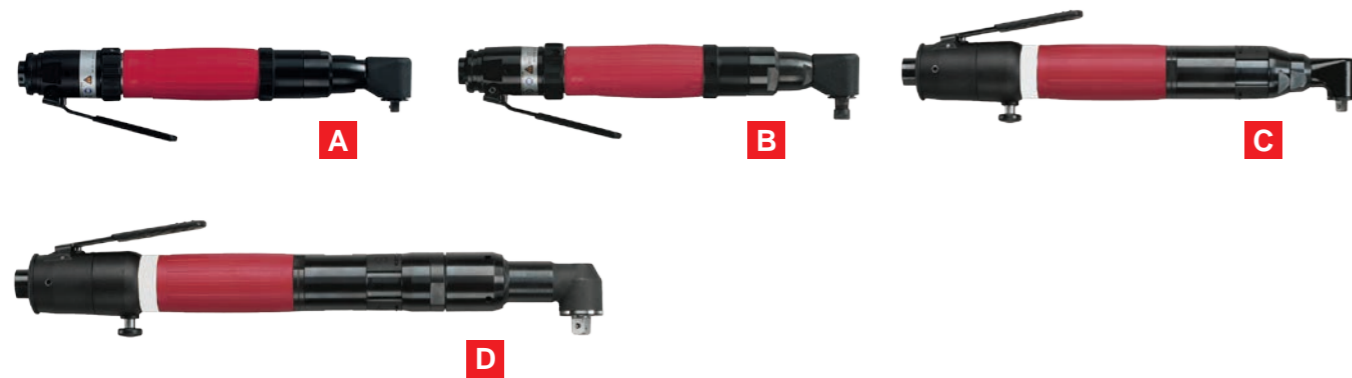
ACCESSORIES
see page 110 and 113

PIC REF	MODEL	PART NUMBER	FREE SPEED rpm	OUTPUT DRIVE in.	TORQUE RANGE				WEIGHT		AIR FLOW		HOSE INT. Ø		
					HARD JOINT Nm	in.lb	SOFT JOINT Nm	in.lb	kg	lb.	l/s	cfm	mm	in.	
SCREWDRIVERS - LEVER START - SHUT OFF															
A	SD220-LR320-S4Q	205 147 937 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4	10	3/8	
A	SD220-LR320-S10S	205 147 979 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4	10	3/8	
AUTOMATION - REMOTE START - SHUT OFF - 2 WAY															
B	SD220-2RM320-S4Q	205 147 939 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4	10	3/8	
B	SD220-2RM320-S10S	205 147 941 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4	10	3/8	

* Air inlet: SD 220-LR : 1/4" BSP / SD 220-2RM: 1/8 BSP ** Pistol version and slower speed on request - Please contact your local Desoutter

Angle head - Non Shut off

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

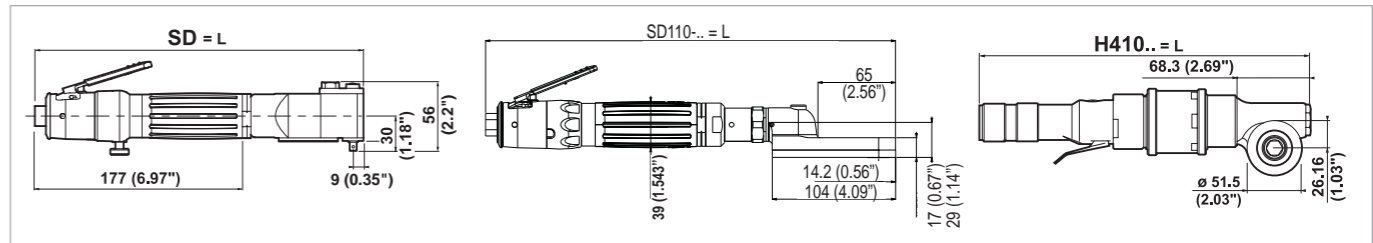


ACCESSORIES
see page 112

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

Angle Head - Direct drive

1.5 to 105 Nm (13.3 to 929 in.lb) - 60 to 800 rpm



ACCESSORIES
see page 112

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

MODEL	REGULATOR POSITION						
	1	2	3	4	5	6	OPEN
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
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	REGULATOR POSITION									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	OPEN
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	-	-	-	-	-	-
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 screwdrivers, it is strongly advised to equip the machines with a reaction bar to compensate against potentially high torque reaction and avoid operator injury

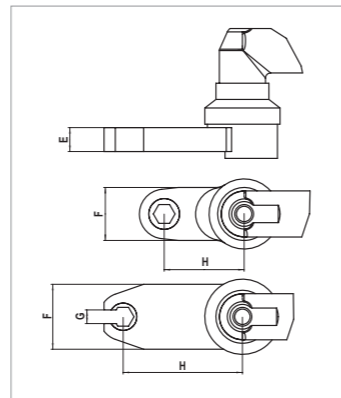
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		LENGTH L		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.	
A	SD130-LB500-D90-A4S	1465974	500	1/4 sq	2-13	17.7-115	326	12.8	1.08	2.38	8.7	18.4	1/4	10	3/8	
A	SD096-LB800-D90-A4S	1465984	800	1/4 sq	1.5-9.6	13.3-85	326	12.8	1.08	2.38	8.7	18.4	1/4	10	1/4	
B	SD110-LX450	205 148 131 4	450	0.445 hex	1.5-11.8	13.3-104	346	13.6	1.34	2.95	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

16 to 41 Nm (142 to 363 in.lb) - 330 to 430 rpm



MODEL	ACROSS FLATS		E		F		G		H	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
SH330-LB430-CE13-CC53	13	0.51	19	0.75	32	1.26	N/A		52.8	2.07
SH410-LB400-CE17-CC68	17	0.67	19	0.75	39	1.54	N/A		67.6	2.66
SH330-LB330-OE11-CC53	11	0.43	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE11-CC75	11	0.43	18	0.71	40	1.57	10.4	0.41	75.3	2.96
SH330-LB330-OE13-CC53	13	0.51	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE13-CC75	13	0.51	18	0.71	40	1.57	10.4	0.41	75.3	2.96



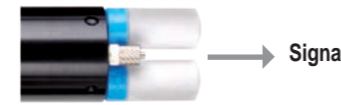
ACCESSORIES
see page 112

* Up to 14mm sockets possible as an option
* Possibility to have extension drive sockets
* Contact your local Desoutter sales engineer for all other requests

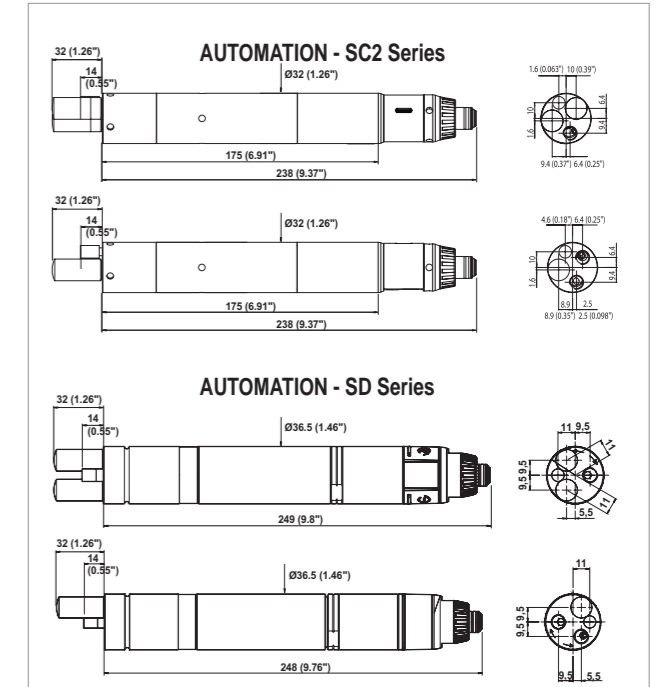
PIC REF	MODEL	PART NUMBER	FREE SPEED	ACROSS FLATS		TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
				mm	in.	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.	
A	SH330-LB430-CE13-CC53	205 147 815 4	430	13	16-33	142-212	508	20.0	2.6	5.7	18	38.1	1/4	10	3/8		
A	SH410-LB400-CE17-CC68	205 147 817 4	400	17	18-41	159-363	600	23.6	3.9	8.6	28	59.3	1/2	10	3/8		
B	SH330-LB330-OE11-CC53	205 147 818 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8		
B	SH330-LB330-OE11-CC75	205 147 819 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8		
B	SH330-LB330-OE13-CC53	205 147 820 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8		
B	SH330-LB330-OE13-CC75	205 147 821 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8		

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 113

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
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
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	6	1/4	
AUTOMATION - PUSH START - SHUT OFF - 1 WAY																
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	
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	10	3/8	

Accessories

STRAIGHT - PUSH START & LEVER START

ACCESSORIES INCLUDED

ITEM	SB	SC2	SD
• Suspension bail(s)	443703	205 049 537 3	467003
• Suspension bail internal		205 051 289 3	
• Exhaust hose	443723	205 049 584 3	467073
• Clutch adjustment keys	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	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	50522	50522	52862
5 Hose reel balancer	50552	50552	50562
6 Tool holster DTH-42	107892	107892	107892

Bench Stands (for more information, see pages 148-161)

7 D53-25 Linear arm (tool clamp included)	615 810 701 0	615 810 701 0	615 810 701 0
7 D53-25X Linear arm (tool clamp included)	615 810 703 0	615 810 703 0	615 810 703 0
8 D53-25S Folder arm (tool clamp included)	615 810 708 0	615 810 708 0	615 810 708 0
9 D57 Balancing arm	408903	408903	408903
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
9 D57X Balancing arm	408913	408913	408913
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
10 D58 Balancing arm	408923	408923	408923
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
11 TRA12 / TRA25 Telescopic reaction arm		(see page 156)	
12 TT10 / TT25 Torque Tube Arm		(see page 159)	

Vacuum Pick Up - Order Pick Up kit, Finder Sleeve & Vacuum Source

13 Vacuum pick up kit (spring only for 2A89)	108892		108892
14 Finder sleeve blank - plastic	464093		464093
• Finder sleeve blank - steel	464103		464103
15 Vacuum source AV201 for use with filter/regulator unit			112063

Miscellaneous

16 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 2200-3500 rpm			465443

PISTOL GRIP & HLT

ACCESSORIES INCLUDED

	SCBP	SBP	SCP SCPT	SDP 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

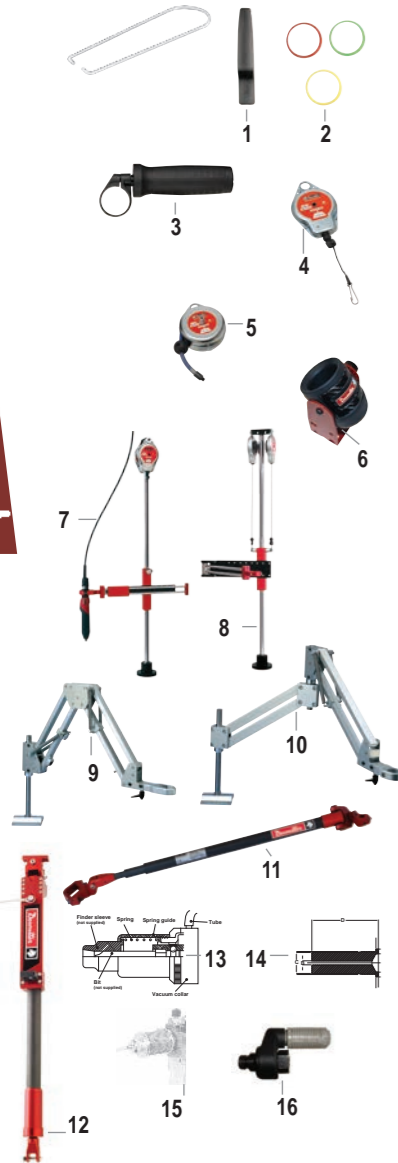
ITEM	SBP SCBP	SCP SCPT	SDP SDT
Balancers & Holster			
1 Spring suspension balancer	52862	52862	52862
2 Hose reel balancer	50552	50552	50562
• Hose reel balancer conversion kit	107403	107403	115193
3 Tool holster DTH-90	615 812 119 0	615 812 119 0	615 812 119 0

Bench Stands (for more information, see pages 160-161)

4 D59 Pantographic arm	408933	408933	408933
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Miscellaneous

5 Side handle	70442	70442	467033
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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 Tool holster DTH-42	107892		
4 Tool holster DTH-90		615 812 119 0	

Suspension Shackle

5 Suspension shackle		70082	615 571 050 0
• Swivel suspension shackle			615 396 229 0

Bench Stands (for more information, see pages 160-161)

6 D59 Pantographic arm	408933		
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Miscellaneous

7 Side handle	467033		
• Offset exhaust		205 047 623 3	
• Square drive adaptor 3/8" Square drive, 48mm (1.89") long			14422
• Square drive adaptor 1/2" Square drive, 46mm (1.81") long			14442
• Square drive adaptor 1/2" Square drive, 76mm (2.99") long			14482
• Exhaust collector			72163



AUTO REVERSE

ACCESSORIES INCLUDED

	SD
• Suspension bail(s)	467003
• Side handle	467033
• Clutch adjustment keys	29932

OPTIONAL ACCESSORIES

ITEM	SD
------	----

Placement of Threaded Inserts

1 M3 x 0.5 Nose kit	76552
1 M4 x 0.7 Nose kit	76562
1 M5 x 0.8 Nose kit	76572
1 M6 x 1.0 Nose kit	76582
1 M8 x 1.25 Nose kit	76592

Blind Hole Tapping/ Cleaning - 3 parts Required

• Bit adaptor*	465513
2 Thread adaptor	96743
3 Chuck capacity 8mm (5/16")	205 053 013 3

Balancers & Tool Holster

4 Spring suspension balancer	50532
5 Reaction free self-lock balancer	54432
6 Tool holster DTH-42	107892

Bench Stands (for more information, see pages 160-161)

7 D57 Balancing arm	408903
• Tool clamp	615 396 614 0
7 D57X Balancing arm	408913
• Tool clamp	615 396 614 0
8 D58 Balancing arm	408923
• Tool clamp	615 396 614 0
9 TRA25 Telescopic reaction arm	(see page 156)

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



Accessories

ANGLE HEAD

ACCESSORIES INCLUDED

	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	
1 Spring suspension balancer for SH70/150/200/280				52862
2 Spring suspension balancer for SH420 to SH2000				50052
3 Hose reel balancer	50562	50552	50562	
3 Hose reel balancer for SH70/150/200/280				50562

Suspension Shackle

• Suspension shackle	95842	70082		
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Suspension bails

4 Suspension bail for SH70/150/200/280				205 051 632 3
4 Suspension bail for SH420/500/700/850				205 051 113 3
4 Suspension bail for SH1200/2000				615 396 562 0

Swiveling bails

5 Swiveling bail for SH420/500/750/850				205 051 115 3
5 Swiveling bail for SH1200/2000				205 051 232 3

Bench Stands (for more information, see pages 148-155)

6 D53-25 Linear arm (tool clamp included)	615 810 701 0	615 810 701 0	615 810 701 0	615 810 704 0
6 D53-25X Linear arm, extended reach	615 810 703 0	615 810 703 0	615 810 703 0	
7 D53-25S Folder arm (tool clamp included)	615 810 707 0	615 810 707 0	615 810 707 0	615 810 709 0

Bench Stands (for more information, see pages 160-161)

8 D57 Balancing arm	408903	408903	408903	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
8 D57X Balancing arm	408913	408913	408913	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
9 D58 Balancing arm	408923	408923	408923	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
10 TRA12 / TRA25 Telescopic reaction arm		(see page 156)		
11 TT10 / TT25 Torque Tube Arm		(see page 159)		

Miscellaneous

• Offset exhaust			205 047 623 3	
• Bench mounted swing arm	66542	66542	66542	66542
12 Protective cover for SH70/150/200/280				205 011 426 2
12 Protective cover for SH420/500				205 050 182 3
12 Protective cover for SH700/850				205 050 235 3
12 Protective cover for SH1200/2000				205 050 252 3
13 Complete reaction bar kit for SH850/1200/2000				205 051 121 3
14 Reporting kit for SH70 (for connexion with FAS)				205 011 424 2
14 Reporting kit for SH150/200/280 (for connexion with FAS)				205 011 425 2
14 Reporting kit for SH420/500/700/850 (for connexion with FAS)				205 050 175 3
14 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

Suspension Shackle

3 Suspension shackle	70082
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Bench Stands (for more information, see pages 160-161)

4 D57 Balancing arm	408903
• Tool clamp	615 396 614 0
4 D57X Balancing arm	408913
• Tool clamp	615 396 614 0
5 D58 Balancing arm	408923
• Tool clamp	615 396 614 0

Miscellaneous

• Offset exhaust	205 047 623 3
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Accessories

TORQUE CONTROLLED

ACCESSORIES INCLUDED

ITEM	SC / SD
1 Muffler	205 045 792 3
2 Straight fitting	205 044 497 3

OPTIONAL ACCESSORIES

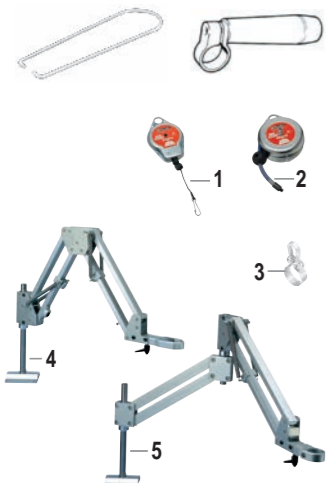
ITEM	PART NO.
------	----------

• Spring Loaded Shats and Bearings Support (including 3, 4, 5)

3 Bit Adaptor	103782
4 Spring Loaded Shaft 25mm (1")	108342
5 Shaft Support and Nose Mount	108412
6 Nose Mounts	205 052 876 3
7 Flange M20	205 052 875 3

• Offset Head & Spring Loaded shaft (Including 8, 9)

8 Offset Head , offset 30mm (1.18")	384993
9 Spring Loaded Shaft 25mm (1") stroke	108342
10 3/8" Square to 1/4" Hex Power Adaptor	108322



Data Analyzer

Delta 1D / Delta 6D / Delta 7D

This generation of Delta analyzer is the compact portable solution to monitor all types of production tools at just 500g. Combined with standard Desoutter DRT or DST transducers it's capable of calibrating pulse tools, electric nutrunners or torque wrenches. Divided into three models for Torque measurement only (DELTA 1D), Torque & Angle (Delta 6D) and capable of residual torque check and production strategy with DWTA wrench (Delta 7D)

MAIN FEATURES

- Display: Large color screen shows clear test results, Torque&Angle curves. Real time statistics, Tools description and Routes
- Connectivity: Ethernet and USB port for Delta QC software communication and RS232 for CVI II, CVIC II and CVI3 calibration or barcode reader
- Power: Li-Ion high capacity battery of 16 hours of autonomy or external power supply
- Transducer: Standard Desoutter connector for digital transducers. Analog CMD and GSE transducer connection through an adapter
- Barcode (Delta 7D): Embedded Barcode for automatic Pset selection or VIN traceability



Measurement Unit

Delta 1D / Delta 6D / Delta 7D

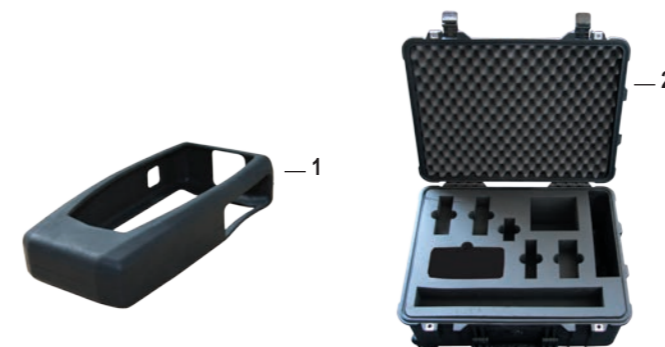


MAIN FEATURES	DELTA 1D	DELTA 6D	DELTA 7D
Transducer			
Connection to DRT4, DRT5, DST	✓	✓	✓
Connection to DWT, DWTA			✓
Connection to CMD and GSE type	✓	✓	✓
	Through optional analog/digital adapter		
On board functionality			
Wrench test	✓	✓	✓
Nutrunner test	✓	✓	✓
Pulse Tool test	✓	✓	✓
Tools	1	1000	1000
Pset		1000	1000
Integrated Statistic	Min, Max Avg	Cm, Cmk (ISO, NF and CNOMO standards)	Cm, Cmk (ISO, NF and CNOMO standards) + SPC
Residual Check Strategy			✓
Production Strategy			✓
Results	1000	5000	5000
Curve	10	10	10
CVI autocalibration		✓	✓
External Barcode connectivity		✓	✓
Embedded Barcode			✓

MODEL	PART NUMBER	POWER REQUIREMENTS		DIMENSIONS						WEIGHT	
		BATTERY LIFE hours	CHARGER Volt	DEPTH		WIDTH		HEIGHT		kg	lb
Delta 1D	615 935 101 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 6D	615 935 102 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 7D	615 935 147 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1

ACCESSORIES INCLUDED

	PART NO.
• Delta Battery	615 936 142 0
• Universal Power Supplier	615 936 143 0



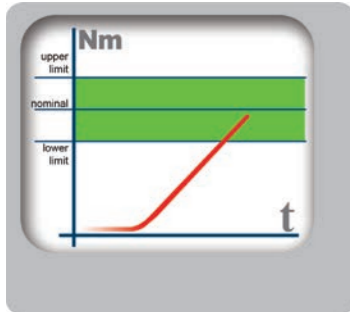
OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Rubber Protection	615 936 141 0
	• CMD & ST 4000 Adapter	615 917 671 0
	• CMD 5000 Adapter	615 917 672 0
	• RS232 Adapter	615 917 670 0
	• GSE 2500 Adapter	615 917 674 0
	• GSE 8500T Adapter	615 917 675 0
	• GSE 8500T/A Adapter	615 917 676 0
2	Delta Demo Case (Empty)	615 936 140 0
	• Delta QC Licensed - 1 user	615 927 651 0
	• Delta QC Licensed - 5 user	615 927 652 0
	• Delta QC Advanced 1 user	615 927 653 0
	• Delta QC Advanced 5 user	615 927 654 0

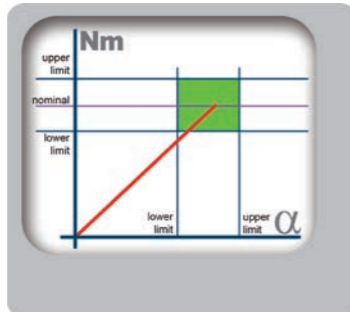
DWTA

Digital Wrench for Torque and Angle Measurement

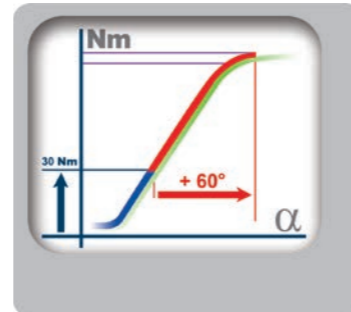
PRODUCTION AND QUALITY strategies: In combination with Delta 7D, the torque and angle wrench for residual automatic torque check and Joint analysis with Yield point detection.



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)



DWTA

■ Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position 1% of torque reading (from 10% to 100% of torque range)



Delta 7D

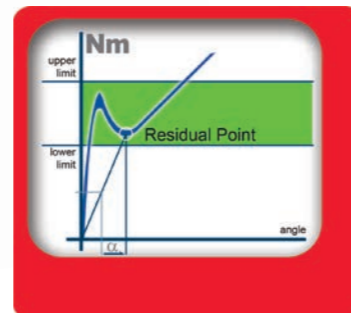
DWTA



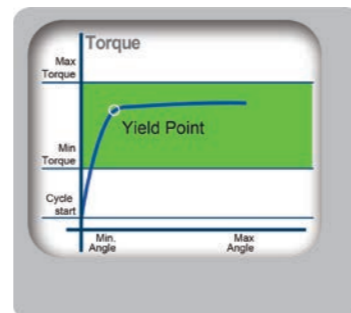
■ Military connector for standard transducer cable



■ Gyroscope for angle measurement.



Automatic Residual torque check



Joint analysis

Delta Wrench

Digital Wrench for Torque & Angle Measurement

The digital wrench integrates is a unique device and flexible solution for both production and quality strategy in tightening. Delta Wrench provides high accuracy solution for torque controlled joints tightening. Delta Wrench ensures perfect tightening operator independent thanks to automatic PSet selection and double bridge transducer, also introduces a quality strategy with angle measurement and traceability for a perfect quality audit.



Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position

1% of torque accuracy along a wide range

Standard interchangeable heads

Wrench accessories see page 126

Intelligent RFI-TAG for PSet automatic selection

USB Port for DELTA QC free software communication for programming 10 predefined PSet or to Export result in XLS report

Optional Wireless Communication

Ergonomic keyboard to recall the predefined PSet

Backlight RGB colour display for operator guidance plus acoustic buzzer

Embedded high capacity Li-Ion battery

Optional gyroscope for angle measurement

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
DWTA 30	615 165 760 0	3-30	2.21	□	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
DWTA 150	615 165 761 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
DWTA 400	615 165 762 0	40-400	29.5-295	□	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2

Delta Wrench



MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30	615 165 771 0	3-30	2.21	X	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150	615 165 772 0	15-150	11.06-110.6	X	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 400	615 165 773 0	40-400	29.5-295	X	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800	615 165 774 0	80-800	59-590	X	Ø28	Ø1.1	1	1309	51.5	4.7	10.4
Delta Wrench 30-A	615 165 775 0	3-30	2.21	□	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150-A	615 165 776 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 150-A Short	615 165 767 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	418	16.5	1.0	2.2
Delta Wrench 400-A	615 165 777 0	40-400	29.5-295	□	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800-A	615 165 778 0	80-800	59.0-590	□	Ø 28	Ø 1.1	1	1309	51.5	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom



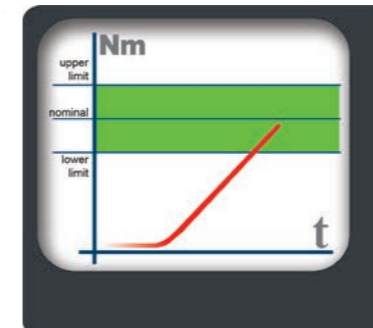
Li-Ion Battery and battery charge

MODEL	PART NUMBER	HEIGHT		LENGTH		WIDTH		WEIGHT	
		mm	in	mm	in	mm	in	gr	lb
Delta Wrench Battery	615 936 150 0	-	-	110	4.33	Ø 22	Ø 8,86	80	0.18
Delta Wrench Battery Charger	615 936 151 0	60	2.36	140	5.51	80	3.15	240	0.53

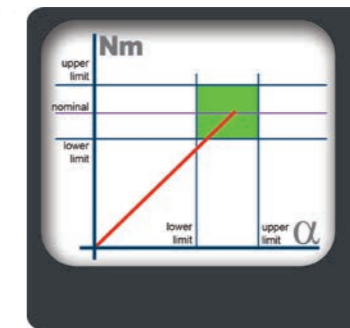
DELTAQC SOFTWARE	FREE	LICENSED	ADVANCED
PSet programming	□	□	□
Result viewer	□	□	□
Result excel export	□	□	□
Curve viewer	□	□	□
Result Database	□	□	□

MODEL	PART NUMBER
DeltaQC Licensed 1 user	615 927 651 0
DeltaQC Licensed 5 users	615 927 652 0
DeltaQC Advanced 1 user	615 927 653 0
DeltaQC Advanced 5 users	615 927 654 0

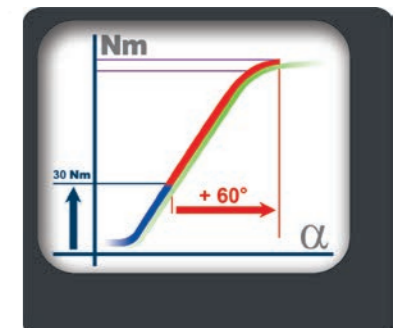
Production Strategies



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)

BENEFITS

- Accuracy for critical tightenings
- Wide torque range to replace click wrenches
- Production data traceability
- Repair station fastening capability
- Difficult access joints tightening
- Re-hit detection
- Low calibration cost
- Back up tool

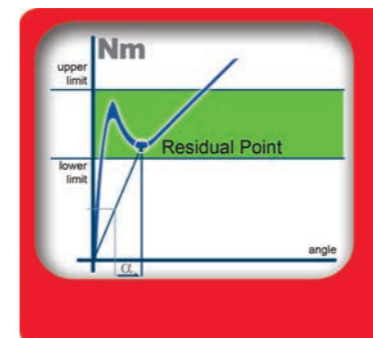
Extension Application

TECHNICAL SPECIFICATION

10 predefined Pset	Pset with T/A limits defined by Delta QC Software
Batch Count	Up to 99
Production Strategies	Torque/Time, Torque & Angle, Torque + Angle CW/CCW Tightenings
Quality Audit Strategy	Peak Torque, Torque plus Angle Automatic residual detection CW/CCW Tightenings
Torque Accuracy	1% of torque reading +/- 1 digit
Angle Accuracy	+/- 1%
Battery	Li-Ion Battery
Power Autonomy	up to 10 hours for stand alone, 8 hours for wireless
USB Communication	Bi-directional communication to Delta QC Software
Results	1000 + 10 curves with Delta Licensed QC
RGB Display	Red Green or Blue backlight
Buzzer	Extension Torque and Angle bending correction
Multi-units	N*m, N*cm, Kg*f*cm, Kg*f*m, Oz*f*in, Lb*f*in, Lb*f*ft
Languages	French, English, Spanish, Italian, Deutsch, Portuguese
Software	Free Delta QC software to define Pset and downloads results

Quality Strategies

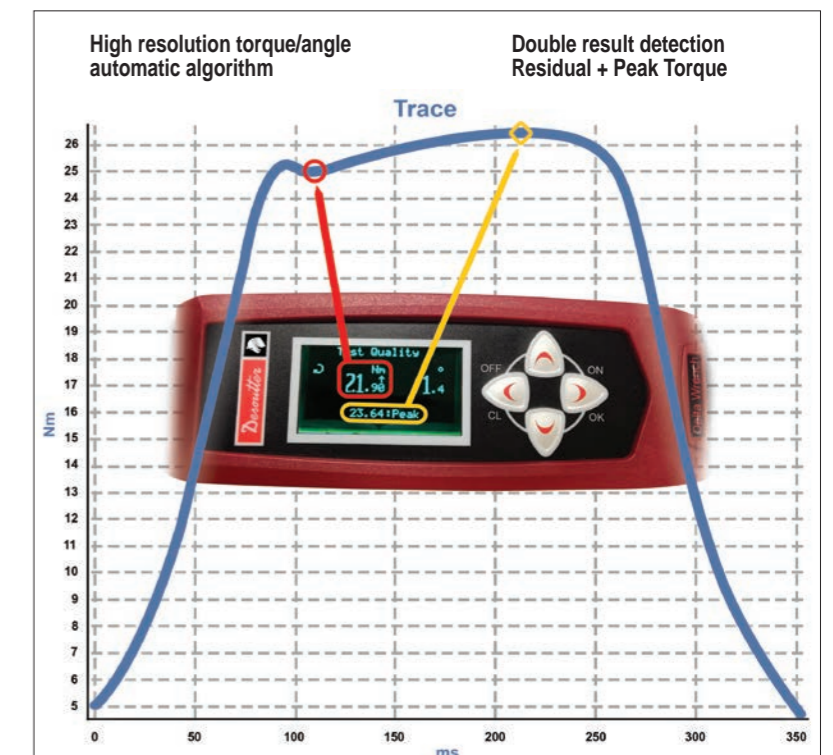
Perfect for joint inspection and auditing Delta Wrench detects automatically the real residual torque of the fastener.



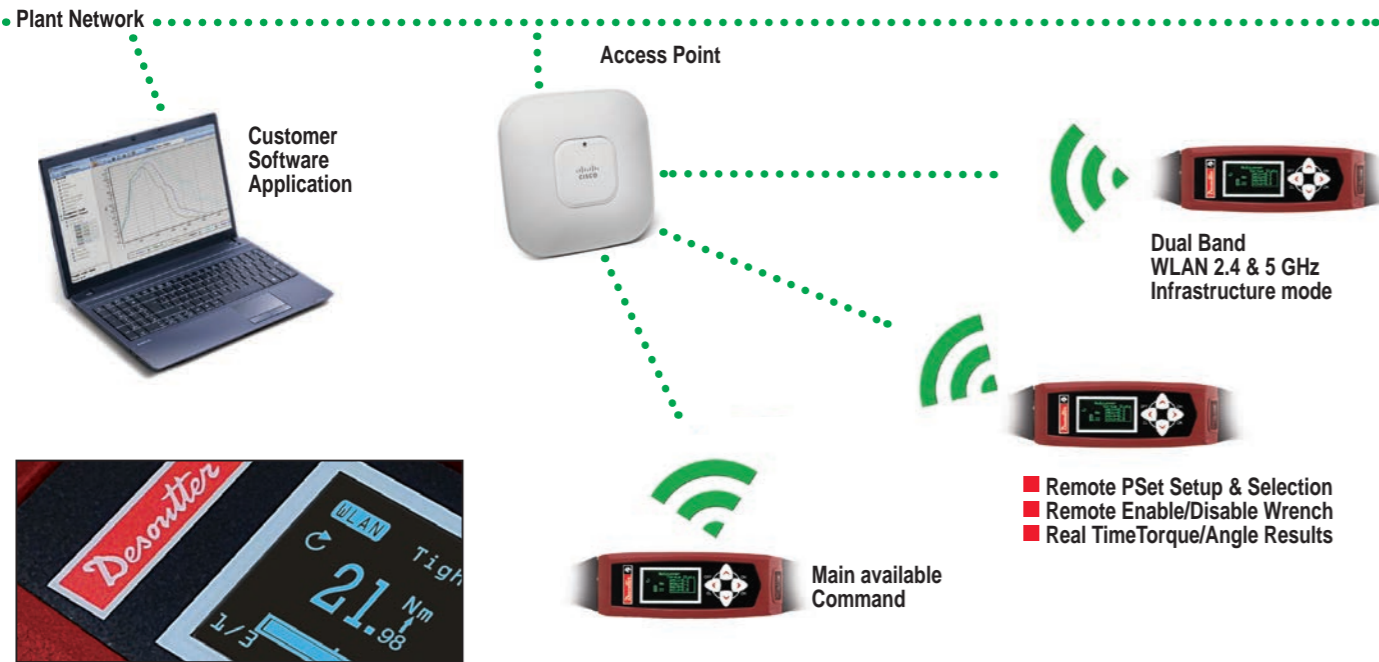
Automatic residual point detection

BENEFITS

- Real residual torque value without any special programming or setting from operator
- Save time no PC setting are required
- No risk to release an over loaded fastener as mean value is saved
- Residual value operator independent
- Export data for quality & statistic analysis
- Perfect for fast & accurate pulse tools setting



Delta Wrench WLAN



Thanks to simple bidirectional communication protocol, DeltaWrench Wlan (TCP Client), can be easily interfaced to custom applications (TCP Server), by developing a communication bridge software.

BENEFITS

- Real Time communication
- OPEN Protocol or DESOUTTER Protocol (ASCII format) fully available for easy custom integration
- Dual Band Wlan Module fully configurable by DeltaQC Software

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30 Wlan	615 165 781 0	3-30	2.21	X	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 Wlan	615 165 782 0	15-150	11.06-110.6	X	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 Wlan	615 165 783 0	40-400	29.50-295.0	X	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 Wlan	615 165 784 0	80-800	59.00-590.0	X	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A Wlan	615 165 785 0	3-30	2.21	□	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A Wlan	615 165 786 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A Wlan Short	615 165 789 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 400-A Wlan	615 165 787 0	40-400	29.50-295.0	□	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A Wlan	615 165 788 0	80-800	59.00-590.0	□	Ø28	Ø1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom

MODEL	PART NUMBER
Access point Wifi 802.11N - US	615 811 417 5
Access point Wifi 802.11N - Europe	615 811 419 5



MODEL	PART NUMBER
Access Point Wifi7 802.11N - C	615 811 420 5
Access Point Wifi7 802.11N - N	615 811 650 5
Access Point Power Cord UK	615 917 202 0

E-LIT BOX

FOCUS

1. Wireless communication
2. Fast to connect
3. Safe report
4. Visual feedback



CHARACTERISTICS

- 1 Wireless communication**
 - Low consumption
 - Fast connection
 - Long range communication
 - Industrial wireless communication system (with 802-15-4 Technology)
- 2 Fast to connect**
 - Automatic free channel search
 - Easy pairing process
- 3 Safe report**
 - Memorize up to 25 OK/NOK reports if lost communication
 - Possibility to lock if memory full
- 4 Visual feedback**
 - Feedback directly on Wrench display
 - Wireless communication
 - Tightening OK / NOK



Delta Wrench ZigBee

WIRELESS SYSTEM

802-15-4 Standard

1 tool | 1 tool E-LIT | I/O PLC

EASY PAIRING PROCESS

No PC needed to pair E-LIT Box and Delta Wrench, just fast selection from wrench display

- 8 available outputs including:**
- OK
 - NOK
 - Tool ready
 - Tool disable
 - Batch complete

- 4 available inputs including:**
- Lock tool
 - Unlock tool
 - Unlock tool and reset

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30 ZigBee	615 165 800 0	3-30	2.21	X	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 ZigBee	615 165 801 0	15-150	11.06-110.6	X	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 ZigBee	615 165 802 0	40-400	29.50-295.0	X	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 ZigBee	615 165 803 0	80-800	59.00-590.0	X	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A ZigBee	615 165 805 0	3-30	2.21	□	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A ZigBee	615 165 806 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A ZigBee Short	615 165 810 0	15-150	11.06-110.6	□	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 400-A ZigBee	615 165 807 0	40-400	29.50-295.0	□	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A ZigBee	615 165 808 0	80-800	59.00-590.0	□	Ø28	Ø1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom

ACCESSORIES FOR ELC TOOLS

	PART NO.
• E-LIT BOX-Z	615 936 086 0
• Power supply E-LIT BOX	615 927 053 0

Low Torque Analyzer



■ Embedded Transducer & Battery

TECHNICAL SPECIFICATION

Torque Transducer	Embedded
Torque Accuracy	1% of readings
Tools Testing	Torque Wrench, Nutrunner or Pulse Tools
Statistic	Min. Max, Average, Standard Deviation
Results Storage	1000 + 10 curves with DeltaQC Licenced
Multi-units	N.m, Kg.m, Kg.cm, Oz.in, Lb.in, Lb.ft, N.cm
Display	Red, Green, Blue backlight
Power Supply	Embedded Battery External power supply
Battery Autonomy	Up to 12 hours
Languages	French, English, Spanish, Italian, Deutsch, Portuguese
Software	Free Delta QC Software to export by USB result

Alpha Low Torque Analyzer

MAIN FEATURES

- Alpha D Series is designed to monitor and collect torque check results from screwdrivers, torque wrenches or click wrenches.
- Ideal to tune the tools thanks to real time statistics on color display and high capacity torque results storage.
- Traceability with included software result acquisition with time stamp, including PDF or XLS reports.
- Three models with embedded transducer to cover torque range from 0,1 to 16 Nm. All models are provided with two included joint simulators to test nutrunner according to different joint stiffness condition.



- Backlight RGB color display with acoustic buzzer
- Hard & Soft Joint Simulator

MODEL	PART NUMBER
DJS for Alpha_D1 Soft	615 936 120 0
DJS for Alpha_D1 Hard	615 936 121 0
DJS for Alpha_D5 Soft	615 936 122 0
DJS for Alpha_D5 Hard	615 936 123 0
DJS for Alpha_D16 Soft	615 936 124 0
DJS for Alpha_D16 Hard	615 936 125 0
Universal Power Supplier	615 936 143 0

MODEL	PART NUMBER	P. CHARGER	TORQUE RANGE		DEPTH		WIDTH		HEIGHT		WEIGHT	
			Nm	in. - lb	mm	in.	mm	in.	mm	in.	kg	lb
Alpha D1	615 935 140 0	110/240V	0.1 - 1	0.88 - 8.85	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D5	615 935 141 0	110/240V	0.5 - 5	4.42 - 44.25	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D16	615 935 142 0	110/240V	1.6 - 16	14.1 - 141.6	106	4.17	180	7.09	70	2.76	0.95	2.1

All models are supplied with external power supply, suitable hard and soft joint simulators and Delta QC Software CD-ROM

Digital Rotary Transducers

Torque

TORQUE ROTARY TRANSDUCER:

The Rotary Torque Transducer DRT4 is designed to measure the torque output of any non-impact assembly tool. The transducer is suitable for use with impulse type assembly tools brushes with minimal maintenance requirements.



BENEFITS

- Automatic recognition thanks to internal memory chip storing main data values eliminating any setting mistakes and time losses.
- High reliability due to immunity from external noise thanks to digital communication.
- Communication to data analyzer not sensitive to the cable length.
- Long life durability thanks to industrial design from transducer to housing.



FEATURES

- Torque range from 0,2 to 5000 Nm (0.15 to 3685 ft.lb).
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features: - type of transducer - sensitivity nominal load - serial number.

MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
		Nm	ft lb	
DRT 4 H 2	615 165 209 0	0.2 - 2	0.15 - 1.5	Hex ¼"
DRT 4 H 5	615 165 210 0	0.5 - 5	0.37 - 3.7	Hex ¼"
DRT 4 H 20	615 165 211 0	2 - 20	1.47 - 14.7	Hex ¼"
DRT 4 Sq 20	615 165 212 0	2 - 20	1.47 - 14.7	Sq ¼"
DRT 4 Sq 25	615 165 213 0	2.5 - 25	1.84 - 18.4	Sq ⅜"
DRT 4 Sq 75	615 165 214 0	7.5 - 75	5.53 - 55.3	Sq ⅝"
DRT 4 Sq 180	615 165 215 0	18 - 180	13.2 - 132	Sq ½"
DRT 4 Sq 500	615 165 216 0	50 - 500	36.8 - 368	Sq ¾"
DRT 4 Sq 1400	615 165 217 0	140 - 1400	103.2 - 1032	Sq 1"
DRT 4 Sq 3000	615 165 536 0	300 - 3000	221.1 - 2211	Sq 1-½"
DRT 4 Sq 5000	615 165 540 0	500 - 5000	368.5 - 3685	Sq 1-½"

Digital Rotary Transducers & Accessories

Torque & Angle

A version DRT5 is available with an angle measurement encoder which allows with a DELTA 6D or DELTA 7D, the measurement of the angle of rotation in addition to torque.



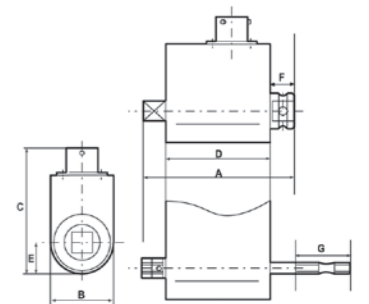
MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
		Nm	ft lb	
DRT5				
DRT 5 H 2	615 165 218 0	0.2 - 2	0.15 - 1.5	Hex ¼"
DRT 5 H 5	615 165 219 0	0.5 - 5	0.37 - 3.7	Hex ¼"
DRT 5 H 20	615 165 220 0	2 - 20	1.47 - 14.7	Hex ¼"
DRT 5 Sq 20	615 165 221 0	2 - 20	1.47 - 14.7	Sq ¼"
DRT 5 Sq 25	615 165 222 0	2.5 - 25	1.84 - 18.4	Sq ⅜"
DRT 5 Sq 75	615 165 223 0	7.5 - 75	5.53 - 55.3	Sq ⅝"
DRT 5 Sq 180	615 165 224 0	18 - 180	13.2 - 132	Sq ½"
DRT 5 Sq 500	615 165 225 0	50 - 500	36.8 - 368	Sq ¾"
DRT 5 Sq 1400	615 165 226 0	140 - 1400	103.2 - 1032	Sq 1"
DRT 5 Sq 5000	615 165 780 0	500 - 5000	368.5 - 3685	Sq 1-½"



FEATURES

- Torque range from 0.2 to 1400 Nm (0.15 to 1032 ft.lb).
- Angle counting system 0.35° resolution.
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features: - type of transducer - sensitivity nominal load - serial number.

OUTPUT	SAME SIZE FOR TORQUE OR TORQUE & ANGLE TRANSDUCER													
	A		B		C		E		H		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Hex ¼"	116	4.56	31	1.22	71.9	2.83	56	2.2	15.5	0.61	39	1.53	25.5	1
Sq ¼"	71.5	2.81	31	1.22	71.9	2.83	56	2.2	15.5	0.61	6	0.24		
Sq ⅜"	77	3.03	31	1.22	71.9	2.83	56	2.2	15.5	0.61	8	0.31		
Sq ½"	87	3.42	42	1.65	82.9	3.26	58	2.28	21	0.83	12	0.47		
Sq ¾"	106	4.17	52	2.05	92.9	3.66	66	2.60	26	1.02	21	0.83		
Sq 1"	125	4.92	65	2.56	104.9	4.13	73	2.87	32.5	1.28	29	1.14		
Sq 1-½"	165	6.5	106	4.17	148.5	5.85	88	3.46	53	2.09	35.2	1.39		



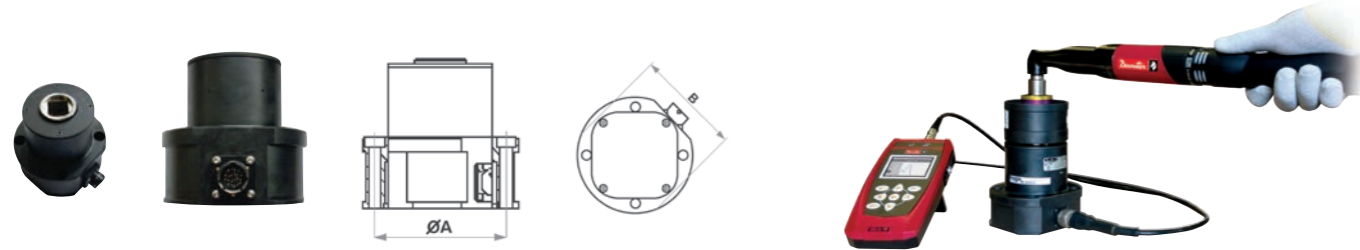
TRANSDUCER CABLES

CABLE TYPE	DATA COLLECTOR TYPE	FOR TRANSDUCER	LENGTH	PART NUMBER
Digital 10 pins	All types of Delta	All digital transducers	2m (78.7") long	615 917 430 0
Digital 10 pins	All types of Delta	All digital transducers	2m (78.7") long, spiral	615 917 432 0
Digital 10 pins	All types of Delta	All digital transducers	5m (196.8") long	615 917 433 0

DST - Digital Static Transducers

Calibration Bench

Designed for testing wrenches, click wrenches or for tightening tools where rotary action is not desired during measurement. In the case of a Shut-Off tool test a joint simulator as an accessory is required. Torque Accuracy: 0.35% of Torque Reading.



MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE	DIMENSIONS				WEIGHT	
		Nm	lb		Ø A		Ø B		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	2.2	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	2.2	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	1-1/2	133	5.24	144	5.57	12.0	26.4

DSA - DELTA STATIC TRANSDUCERS ACCESSORIES

MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.
3/4" M-1/4" F	615 397 205 0	1/2" M-3/8" F	615 936 111 0	HEX 1/4" M-1/4" F	615 936 118 0
3/4" M-3/8" F	615 397 206 0	1/2" F-3/8" F	615 936 112 0	HEX 1/4" M-3/8" F	615 936 119 0
1" M-1/2" F	615 397 207 0	1/2" M-1/2" F	615 936 113 0	1" F-3/4" F	615 936 126 0
1" 1/4 M-1/2" F	615 397 208 0	1" 1/4 M-3/4" F	615 936 114 0	3/4" F-1/2" F	615 936 130 0
1" 1/4 M-3/4" F	615 397 209 0	1/4" F-3/8" F	615 936 115 0	1" 1/2 F-1" 1/2 F	615 936 131 0
1/4" F-1/4" F	615 397 210 0	1" 1/4 M-1" F	615 936 116 0	1/2" F-1/2" F	615 165 573 0
3/8" F-3/8" F	615 397 211 0	1" F-1" F	615 936 117 0	3/4" F-3/4" F	615 165 576 0
1" M-3/4" F	615 936 110 0				



EMBEDDED TRANSDUCERS:

Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines. Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes.

Delta Cart offers a wide torque range since it can be configured up to 4 static transducers to cover from 0.2 Nm to 1 000 Nm (0.15 to 738 ft.lb) in a very compact dimensions (510mm width), making the Delta Cart the ideal solution for tool testing in assembly production lines.



Embedded PC equipped with wide 12" color touch screen lets operators to start tool testing in a few seconds and few steps.

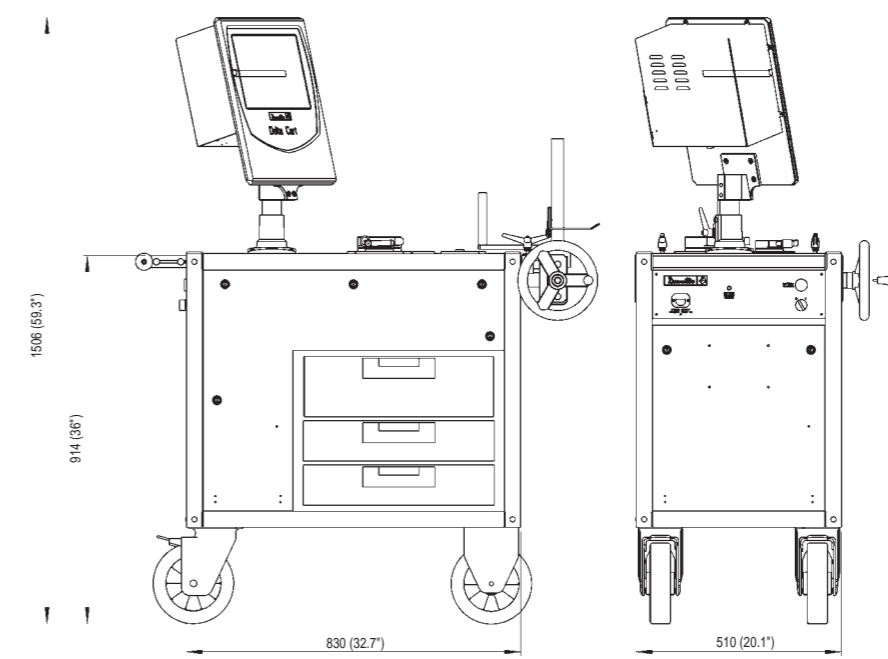


DJS - Digital Joint Simulator

A wide range of mechanical joint simulators are available to reproduce the joint behavior; installing the joint simulator on a transducer allows you to test a tool in the same real working conditions. Each joint simulator reproduces a specific stiffness as described in its torque/angle characteristics. For each capacity, there are two versions: one reproducing a softer joint and one reproducing a harder joint.



MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE		COLOUR		WEIGHT	
		Nm	lb	in	in	INSIDE	OUTSIDE	kg	lb
DJS for DST 2 Soft	615 165 529 0	2	1.5	1/2	Hex 1/4	Yellow	Yellow	0.12	0.26
DJS for DST 2 Hard	615 165 530 0	2	1.5	1/2	Hex 1/4	Yellow	Black	0.12	0.26
DJS for DST 5 Soft	615 165 531 0	5	3.7	1/2	Hex 1/4	Green	Yellow	0.12	0.26
DJS for DST 5 Hard	615 165 571 0	5	3.7	1/2	Hex 1/4	Green	Black	0.12	0.26
DJS for DST 10 Soft	615 165 574 0	10	7.4	3/4	3/8	Red	Yellow	0.64	1.41
DJS for DST 10 Hard	615 165 575 0	10	7.4	3/4	3/8	Red	Black	0.64	1.41
DJS for DST 30 Soft	615 165 577 0	30	22	3/4	3/8	Blue	Yellow	0.65	1.43
DJS for DST 30 Hard	615 165 579 0	30	22	3/4	3/8	Blue	Black	0.65	1.43
DJS for DST 80 Soft	615 165 584 0	80	59	1	1/2	Purple	Yellow	2.50	5.51
DJS for DST 80 Hard	615 165 587 0	80	59	1	1/2	Purple	Black	2.50	5.51
DJS for DST 200 Soft	615 165 588 0	200	147	1	1/2	Grey	Yellow	2.60	5.73
DJS for DST 200 Hard	615 165 589 0	200	147	1	1/2	Grey	Black	2.60	5.73
DJS for DST 500 Soft	615 165 590 0	500	369	1-1/4	3/4	Black	Yellow	5.00	11.0
DJS for DST 500 Hard	615 165 591 0	500	369	1-1/4	3/4	Black	Black	5.00	11.0
DJS for DST 1000	615 165 572 0	1000	737	1-1/4	1			10.3	22.7
DJS for DST 2000	615 165 137 0	2000	1475	1-1/2	1			14.1	28.8



Delta Cart includes all adapters, reaction bars and suitable joint simulators. Optional ISO RIG for torque wrench to eliminate operator influence during calibration, reducing efforts for high torque range.

Delta Cart Tool Calibration

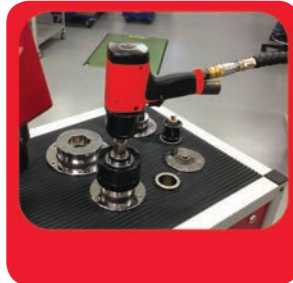
Delta QC Software

EMBEDDED TRANSDUCERS:

Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes



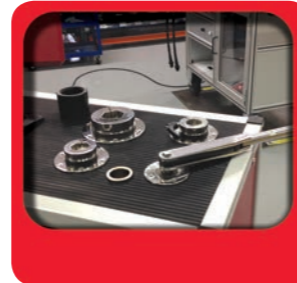
Electric and Pneumatic Nutrunner



Shut off and non shut off Pulse Tool



Torque wrench



Click wrench

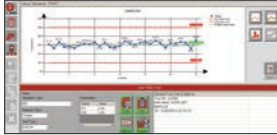

The Delta Cart is able to follow your tools during the complete life span: by performing capacity test (Cm/Cmk) before tool is introduced into production, or monitoring tool performance during production assembly process by performing Statistic Process Control (SPC) test

TECHNICAL FEATURES

- Configurable torque range from 1 Nm to 1000Nm
- Torque reaction bar and joint simulator included
- External DRT communication for in-line calibration
- Angle Strategy with external DRT5



Embedded Software with local tool DB (SQL Server) containing all Tool of the line including:

- **Calibration STATUS** ● ● ●
- **Cm/Cmk Reports** 
- **Next Calibration** 
- **X/R Charts**
- PST High accuracy static transducers with locking system specially designed for pulse tool calibration
- ISO RIG System for torque wrench calibration
- **CLIENT - SERVER Architecture**
 - Ideal for >1 cart management
 - All Calibration data always synchronized with unique Server database
 - Fast Ethernet communication
- **ROUTE MANAGEMENT**
 - Send to Delta Cart just the Tool to be tested

SOFTWARE FEATURES	
Torque Wrench, Electric or Pneumatic Nutrunner Test, Pulse Test Cm/Cmk - ISO 3534	Local Test Database up to 30000 Tests - Setting: Nominal Min Max Torque, unit of measure, Test Id, Test Description, Transducer number, Timeout setting Cm/Cmk, min, max, average, sigma
ISO 6789 - ISO 5393	Automatic test report
Statistic Control - ISO 8258 Print	X/R Charts for trend control Direct Printing from Delta Cart PC software
Export Curve	Certificate export to PDF or XLS Torque/Time or Torque/Angle with external DRT5
Barcode Configurable for each test	External USB N.m - gf.cm - Kgf.cm - ozf.in - lbf.in - lbf.ft
Languages	English, French, Italian, German, Russian

DELTA QC LICENSED

The Delta QC software is the common software platform for all Delta QC measurement equipment. Included features are programming, results and curve viewer ensuring production data traceability Statistic machine capability tool or SPC are also ensured thanks to local database available in the Advanced version



Result and Curve Viewer, Excel EXPORT and PRINTING

Licensed version for on-line device programming and online result export

MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
Delta D			
Pset programming	✓	✓	✓
Tool Definition	✓	✓	✓
Route Definition		✓	✓
Transducer Definition	✓	✓	✓
Pset Database		✓	✓
Tool Database		✓	✓
Route Database		✓	✓
Statistic (online only)		✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓
Curve excel, JPEG export		✓	✓
Curve comparison		✓	✓
RESULT Database			✓
Curve Database			✓
Offline statistic			✓

MODEL	PART NUMBER
Delta QC Licensed 1 User	615 927 651 0
Delta QC Licensed 5 User	615 927 652 0
Delta QC Advanced 1 User	615 927 653 0
Delta QC Advanced 5 User	615 927 654 0

Delta QC Advanced

Advanced version provides a local result database and offline programming. All results, curves and statistics are available for review, export and reporting in both on line and off line mode. All Tools, Status and Pset are always available in the local SQL DB



Local Database

STATISTIC MANAGEMENT

MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
Delta Wrench			
Pset programming	✓	✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
PSet Database		✓	✓
Curve viewer		✓	✓
Result Database			✓
Delta Cart			
Pset programming			✓
Pset Database			✓
Result viewer			✓
Result excel export			✓
Result Database			✓
Offline statistic			✓

Delta QC FreeVersion

Delta Wrench and Alpha D product range are supplied with the Delta QC software Without any registration the Delta QC is able to program Delta Wrench, Delta D and Alpha D, download results, export to excel and print

MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
ALPHA D			
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓



Specific Nutrunners and Spindles



- | | |
|--|---|
| <p>Specific nutrunners</p> <ul style="list-style-type: none"> • Flush socket • Crowfoot (open or close ended) • Hold and Drive • Crowfoot Hold and Drive • Insulated • 2 output shafts • With multiplier • Quick Change | <p>Specific spindles</p> <ul style="list-style-type: none"> • U-Shape • Specific output shaft • Second torque transducer <p>Specific reaction bars</p> |
|--|---|

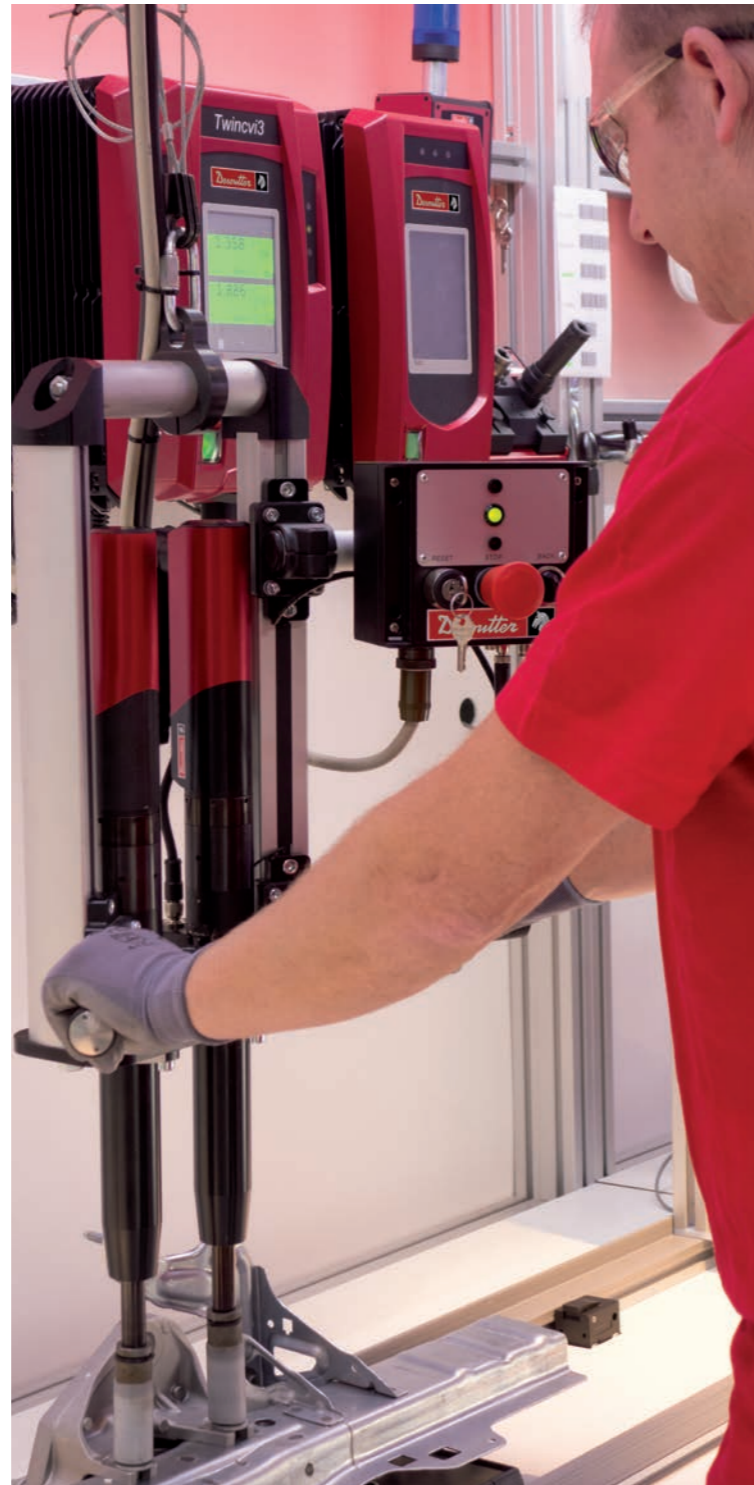
AND MUCH MORE ON REQUEST !

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

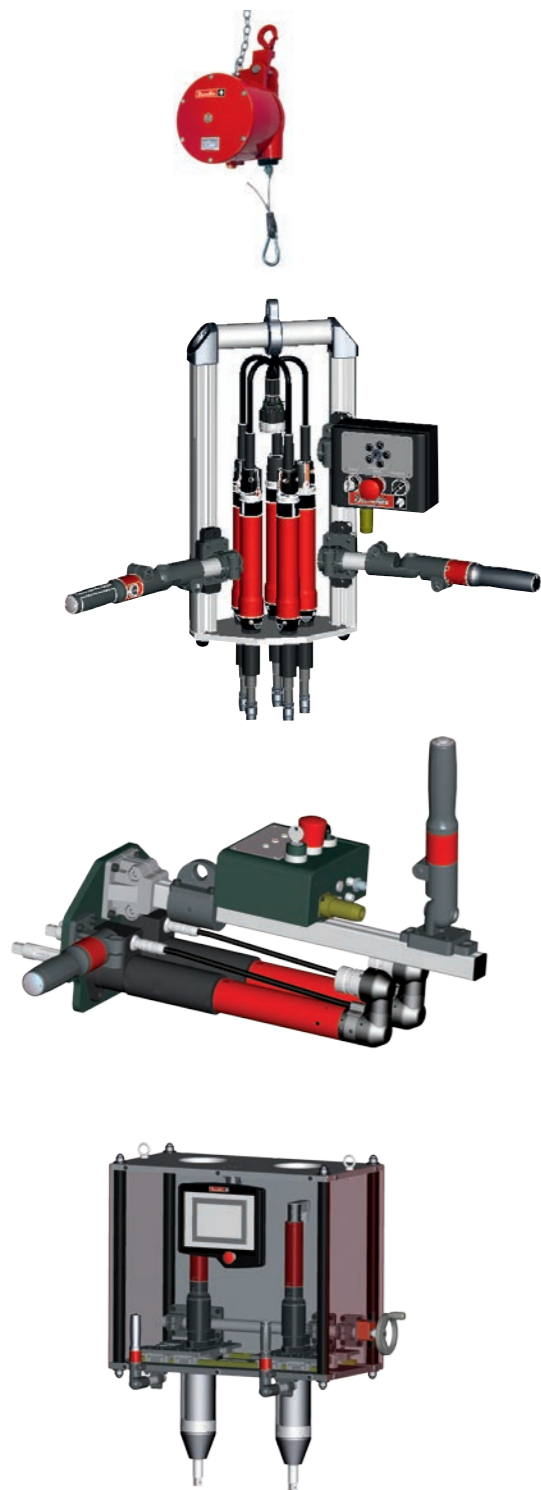
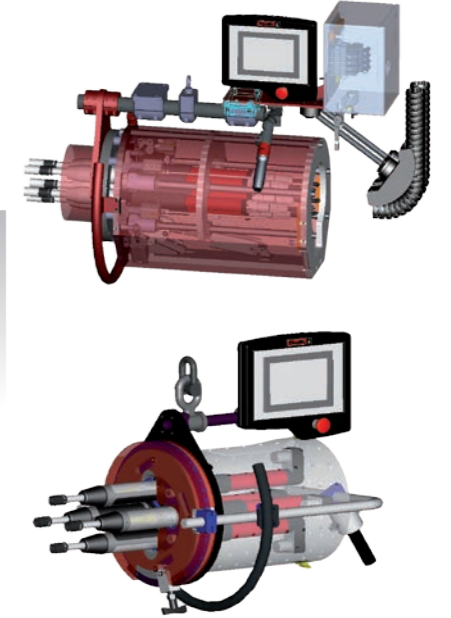
Multiplus

Customized Machine

Single spindle, Multi spindles, Manual or automatic center distance adjustment



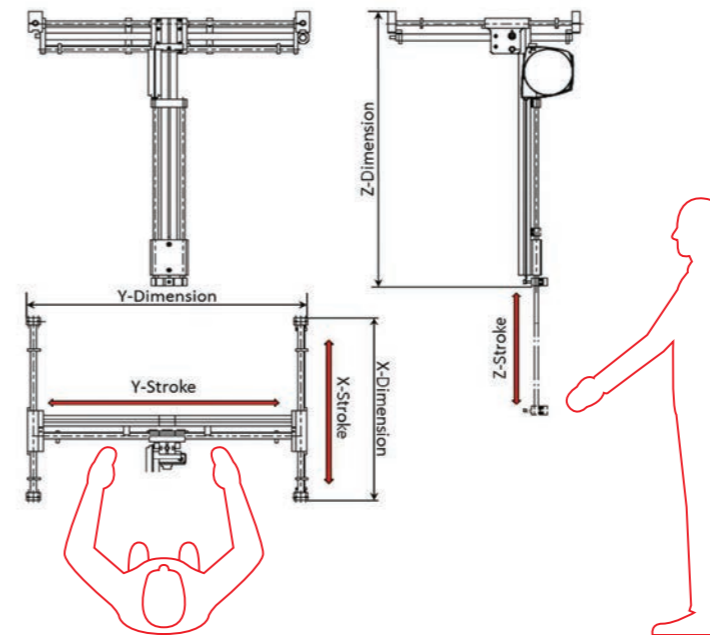
- Standard build components
- Increased customer configuration
- Simplified maintenance
- Proven solution
- Shorter lead time
- Improved ergonomics



PART NO.	DESCRIPTION	
615 396 875 0	Handle start horizontal	
615 396 876 0	Handle start vertical	
615 396 877 0	Handle support cpte	
615 396 878 0	Handle reverse	
615 398 135 0	2 additional buttons kit	
615 398 136 0	1 LED + 1 additional button kit	

- Options**
- Suspension (cable balancer or cylinder)
 - Transducer holders
 - Variable center distance (manual, automatic by cylinder or motorized)

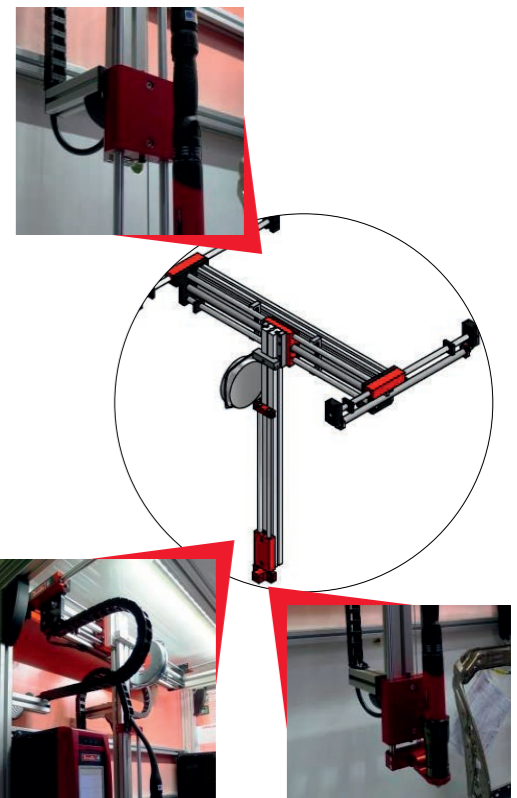
For further information about technical data, please contact your Desoutter representative or Project Manager for assistance



DESCRIPTION	UNIT	TORQUE		
Maximum Torque	Nm (ft.lb)	30 (22.1)	60 (44.2)	90 (66.4)
X-Stroke (min-max)	mm (in.)	250-450 (every 50) 9.8-17.7 (every 1.97)	250-450 (every 50) 9.8-17.7 (every 1.97)	250-450 (every 50) 9.8-17.7 (every 1.97)
Y-Stroke (min-max)	mm (in.)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)
Z-Stroke (min-max)	mm (in.)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)
X-Dimensions	mm (in.)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)
Y-Dimensions	mm (in.)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)
Z-Dimensions	mm (in.)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)
Maximum Tightening head weight	kg (lb)	20 (44.1)	25 (55.1)	25 (55.1)

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

ROLLEX



Arms and Torque Tubes



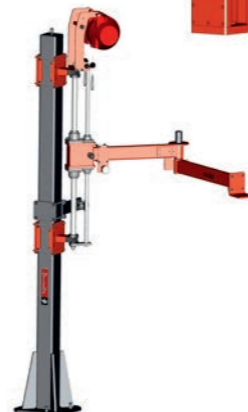
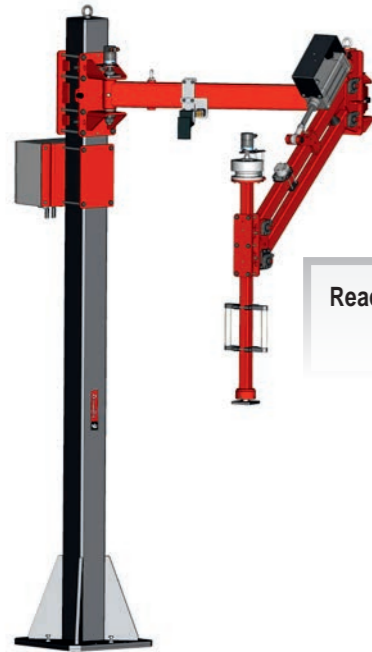
desoutter.info/arms-video

Torque Tubes

- Aluminium (0-250 Nm) (0-185 ft.lb)
- Steel (250-2000 Nm) (185-1480 ft.lb)
- Balancer or pneumatic cylinder suspension



Reaction Arms



300-600-1000-2000 Nm
(221-442-737-1475 ft.lb)
Pneumatic cylinder suspension
Radius 1600 to 4000 mm (5.25 to 13.12 ft)

175 Nm (129.5 ft.lb)
Balancer suspension
Radius 1000 mm (3.28 ft)

150 Nm (111 ft.lb)
Balancer suspension
Radius 1200 to 2000 mm (3.94 to 6.56 ft)

OPTIONS

Torque Tubes options

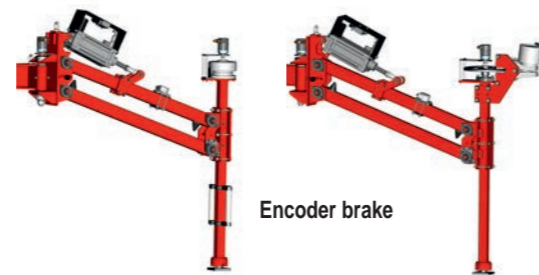
- Controller and accessories stand
- Parking position sensor
- Encoder
- Pneumatic suspension
- Balancers suspension
- Trolley for rails mounting



Controller support

Arms options

- Controller and accessories stand
- Parking position sensor
- Encoder (possible on each axis)
- Rotating pillar
- Brakes



Encoder brake

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Accessories and Options

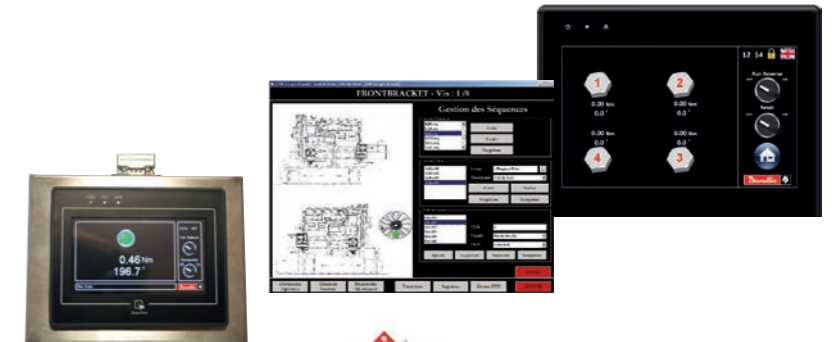
Tool holders



CVI3 HMI & Positioning System

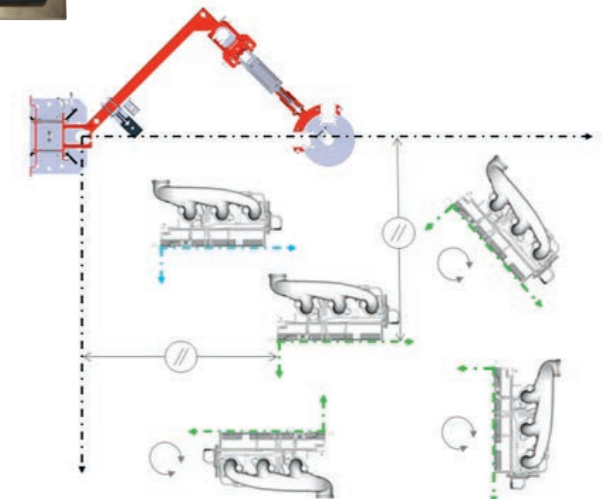
CVI3 HMI

- Standard or specific 4", 7" and 8"
- PC or non PC based
- Plastic or stainless steel enclosure
- From basic input keypad to CVI Advanced HMI



CVI3 Positioning System

- can be used in many different cases:
 - DSM Arms, D53 Linear and Folded arms, TRA or special Arms
- Based on connected encoders, positioning system permit to control & guaranty every tightening in order to prevent to forget some bolts or to tighten a bolt already tightened
- Controlled tightening system
- Standard, "Relative X & Y" or "Relative X & Y + Z Rotating" mode



For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Customized Solutions

CONTROLLER STAND

- 1 Controller CVI3 and accessories or 2 controllers
- 1 Controller Twin CVI3 and accessories or 2 controllers
- Multi CVIL2 - Multi CVI3 - Retractable controller stand
- Different options and cable management included



SOCKET TRAY AND HMI SUPPORT



SPECIAL FUNCTIONS:

- Trombons (vertical and horizontal)
- Special gear boxes simple or with Hold and Drive
- Special gear boxes with 2 spindles



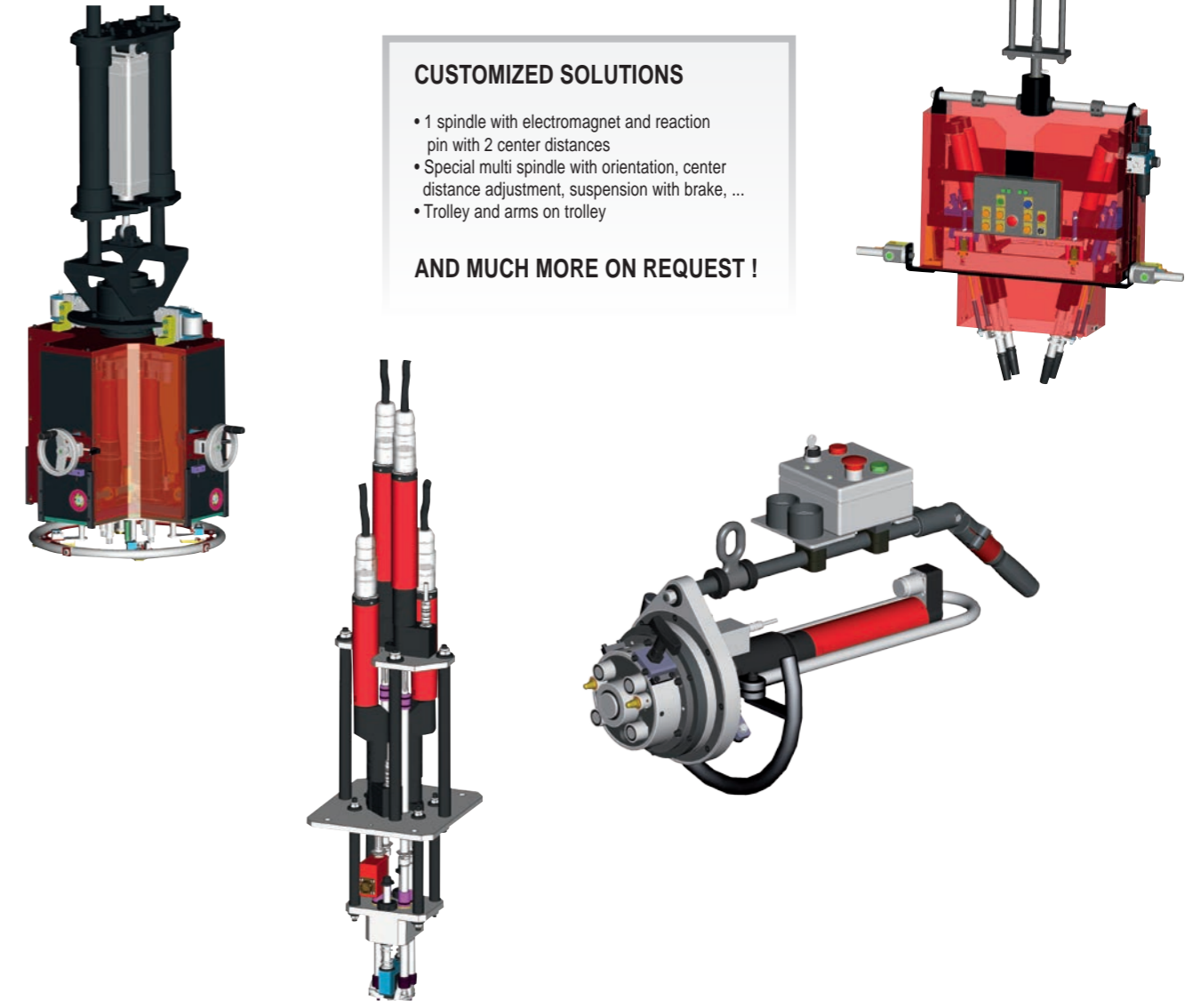
Other Customized Solutions



CUSTOMIZED SOLUTIONS

- 1 spindle with electromagnet and reaction pin with 2 center distances
- Special multi spindle with orientation, center distance adjustment, suspension with brake, ...
- Trolley and arms on trolley

AND MUCH MORE ON REQUEST !



Screwfeeder Solutions - Handheld & Fixtured units

HST - TELESCOPIC HANDHELD UNIT

- High Productivity
- Light and Compact
- Easy to use/ Easy to maintain
- Push Start System



HSF - ADVANCED HANDHELD UNIT

- High performance rate
- Protuding system (retention in jaws)
- Easy to use/ Easy to maintain
- Optional Advanced Nozzle with swivelling arm



SEL/SRL – STATIONARY UNITS

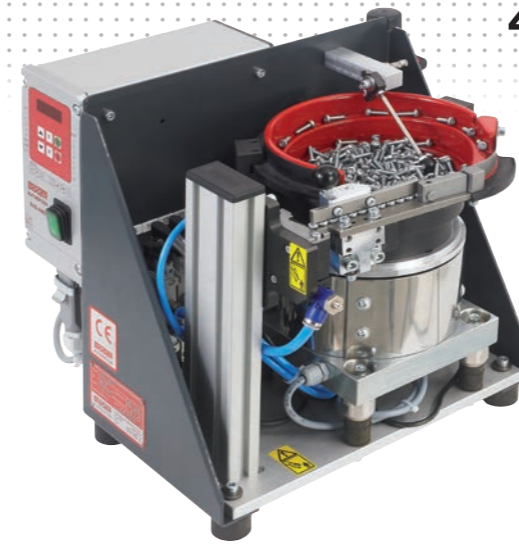
- Simple & flexible
- Dedicated solution robot with SRL / MTB
- Easy to integrate / Easy to maintain
- SEL with 2 strokes / SRL with 1 stroke



	HST	HSF	SEL	SRL
Type	Hand held	Hand held	Fixture	Fixture
Start	Push	Lever	Remote	Remote
Stroke	up to 78mm	up to 110mm	up to 80/180mm	up to 180mm
Torque	up to 10Nm	up to 15Nm	up to 100Nm	up to 100Nm
Pneumatic & Electric Tools	✓	✓	✓	✓
Screw retention in jaws	✗	✓	✗	✗
Recommended installation	Balancer or Arm	Arm	Fixture Installation	Fixture Installation Robot

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

ZSE – Modular Bowls feeders



Our bowl units have been strongly designed for a quick and easy access to the critical elements, improving effective efficiency and reducing maintenance time

Accessories

SENSORS



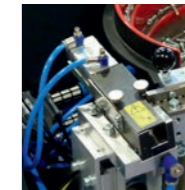
Screw present sensor
Screw feeding detection on hose



Home sensor
Home position detection of cylinders on SEL/SRL



Depth sensor
Depth tightening detection when required by application



Escapement sensors
Control/Secure escapement mechanism

BOWL OPTIONS



Control level
Detect and inform when the bowl is empty

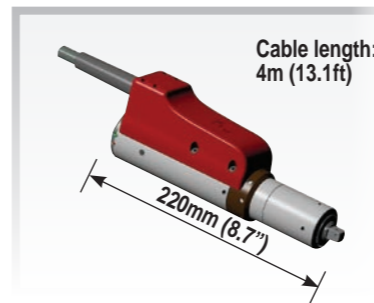
Hopper
increase your bowl capacity

LINEAR ARMS



Fixtured electric spindles ERF-ECF

For your assembly applications, Desoutter offers a range of fixtured electric spindles, transducerized or current controlled with integrated cable



CVIL II Range

MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ERF3L	615 165 286 0	0.35 - 3	0.26 - 2.2
ERF5L	615 165 287 0	0.5 - 5	0.37 - 3.7
ERF10L	615 165 288 0	3 - 10	2.2 - 7.4
ERF20L	615 165 289 0	5 - 20	3.7 - 14.8
ERF20S	615 165 290 0	5 - 20	3.7 - 14.8
ERF30S	615 165 291 0	7 - 30	5.2 - 22.1

CVIC Range

MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ECF3L	615 165 292 0	0.35 - 3	0.26 - 2.2
ECF5L	615 165 293 0	0.5 - 5	0.37 - 3.7
ECF10L	615 165 294 0	3 - 10	2.2 - 7.4
ECF20L	615 165 295 0	5 - 20	3.7 - 14.8
ECF20S	615 165 296 0	5 - 20	3.7 - 14.8
ECF30S	615 165 297 0	7 - 30	5.2 - 22.1

For further information about the technical data see pages 54 and 67

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Optimized Workstation

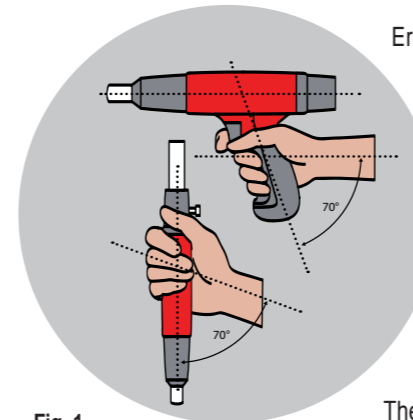
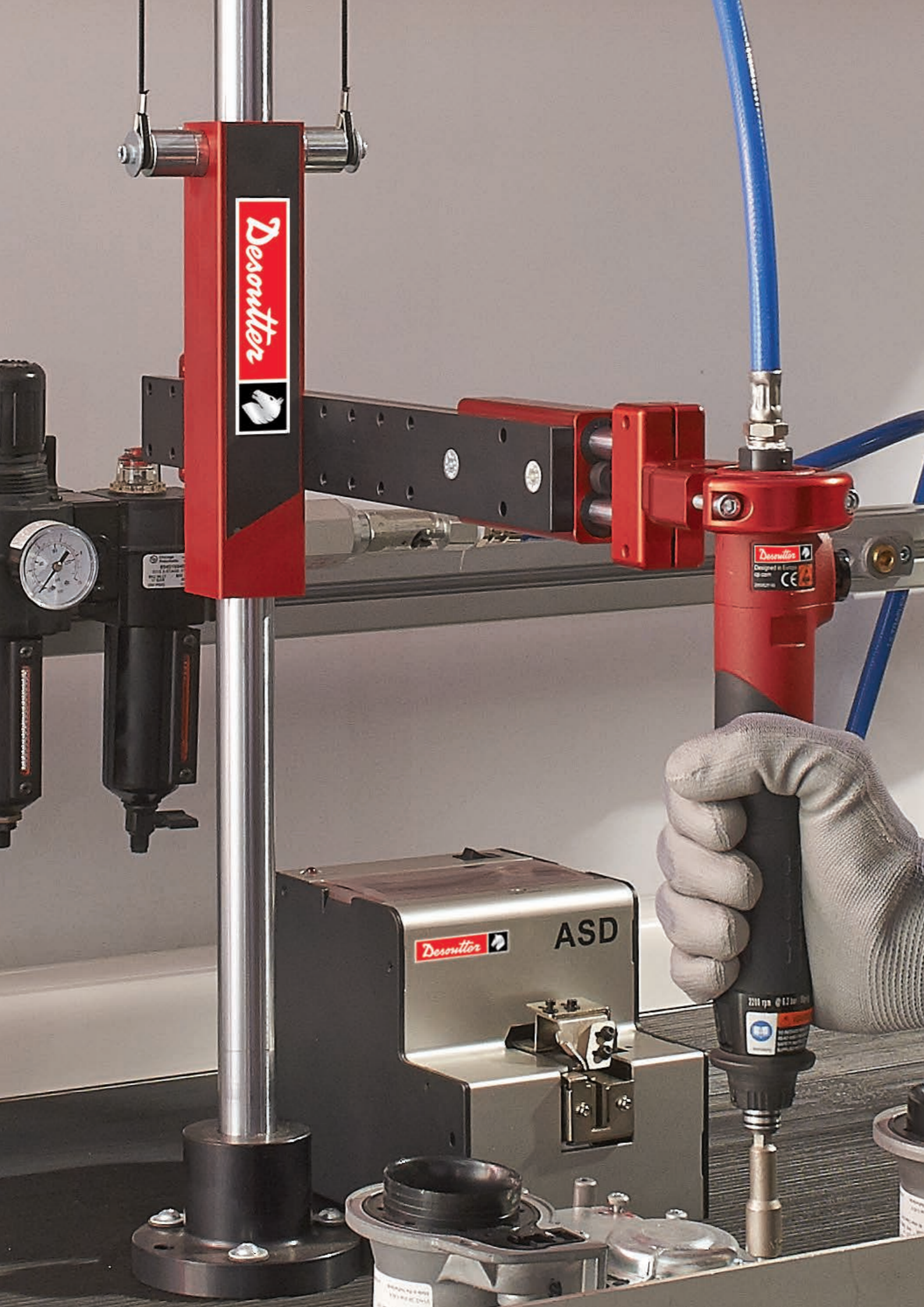


Fig. 1
Holding tools in an ergonomically neutral position

Ergonomics 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

Desoutter has been developing products to improve the comfort of use and counter balance some of the below situations:

1. Hand position on the tool: based on application a straight or pistol grip tool is suggested (Fig. 1)
2. Tool position in the workspace: easy to reach and at the right height to minimize the unnecessary movement of the operator (Fig. 2 and 3)
3. Forces exerted: pulling force, torque reaction and the repetitiveness of these forces (Fig. 2 and 3)

The potential benefits of using Desoutter ergonomic accessories together with tools as described in this brochure are:

- Reduce repetitive stress injuries (RSI)
- Reduced operator fatigue
- Greater productivity
- Improved quality
- Reduced handling time
- Greater operator satisfaction
- Lower recruitment costs

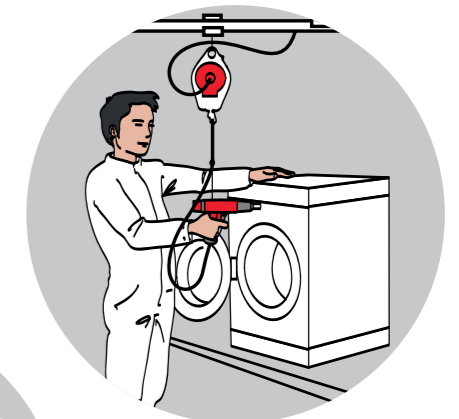


Fig. 2
Desoutter balancer

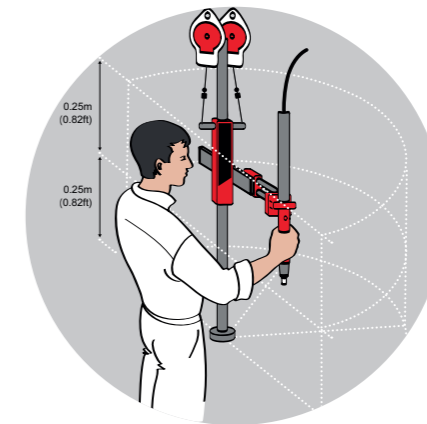
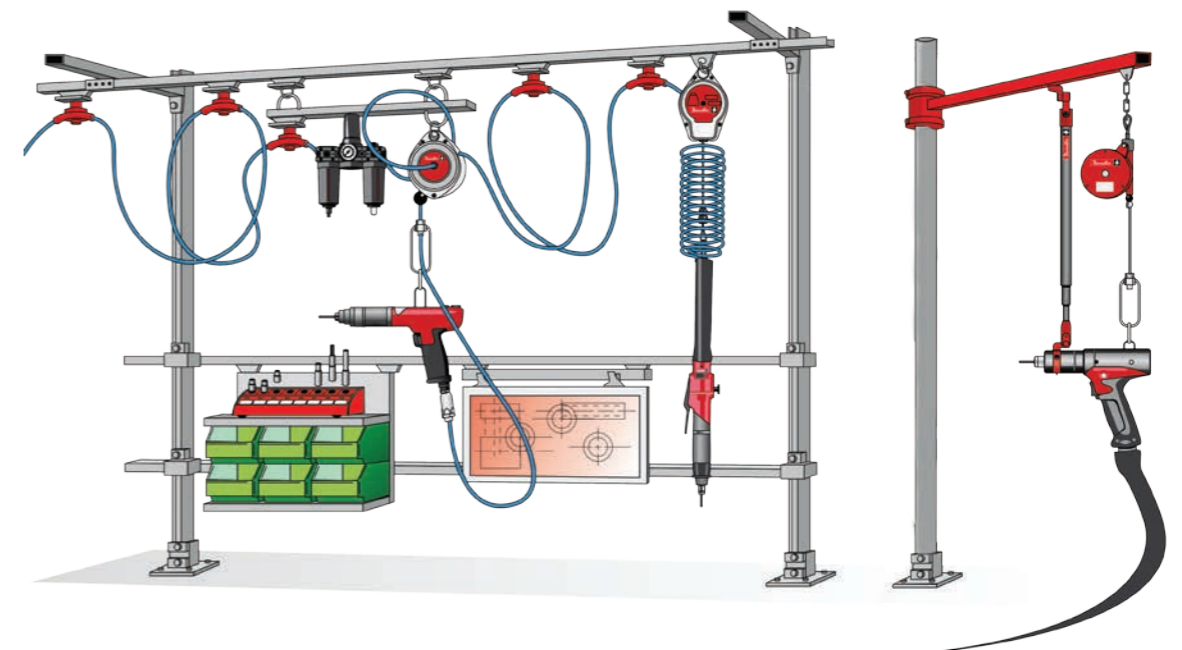
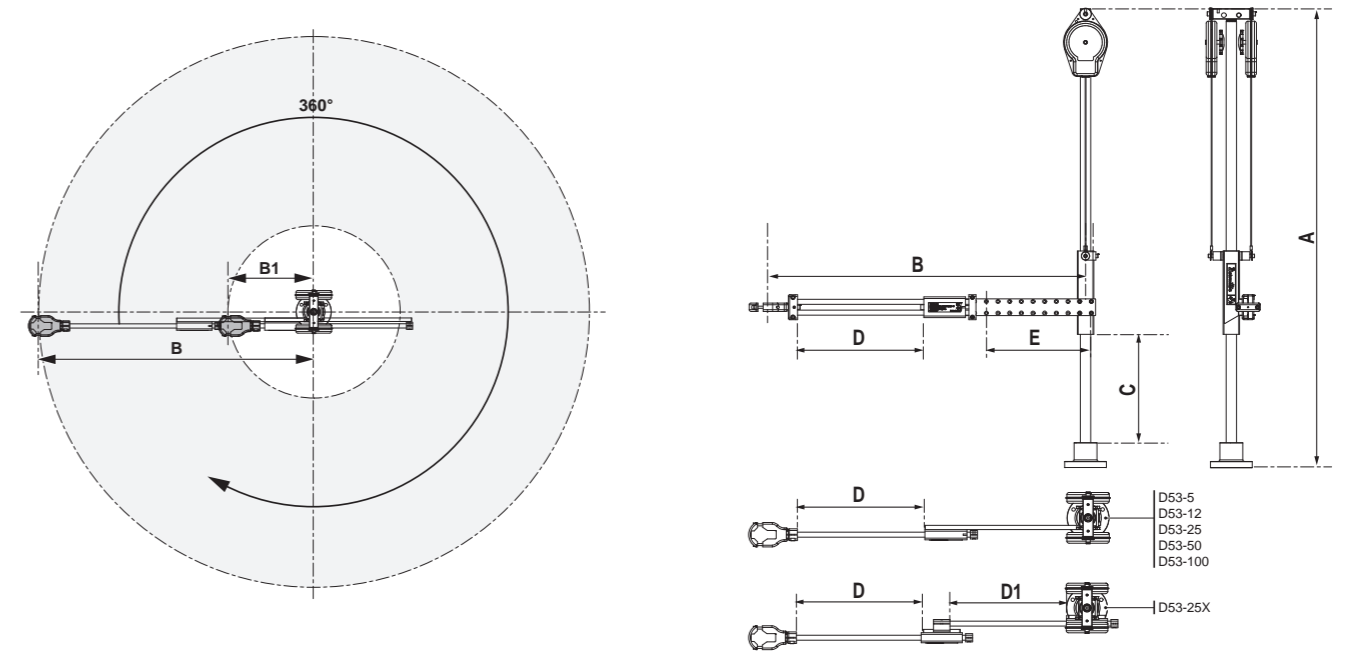
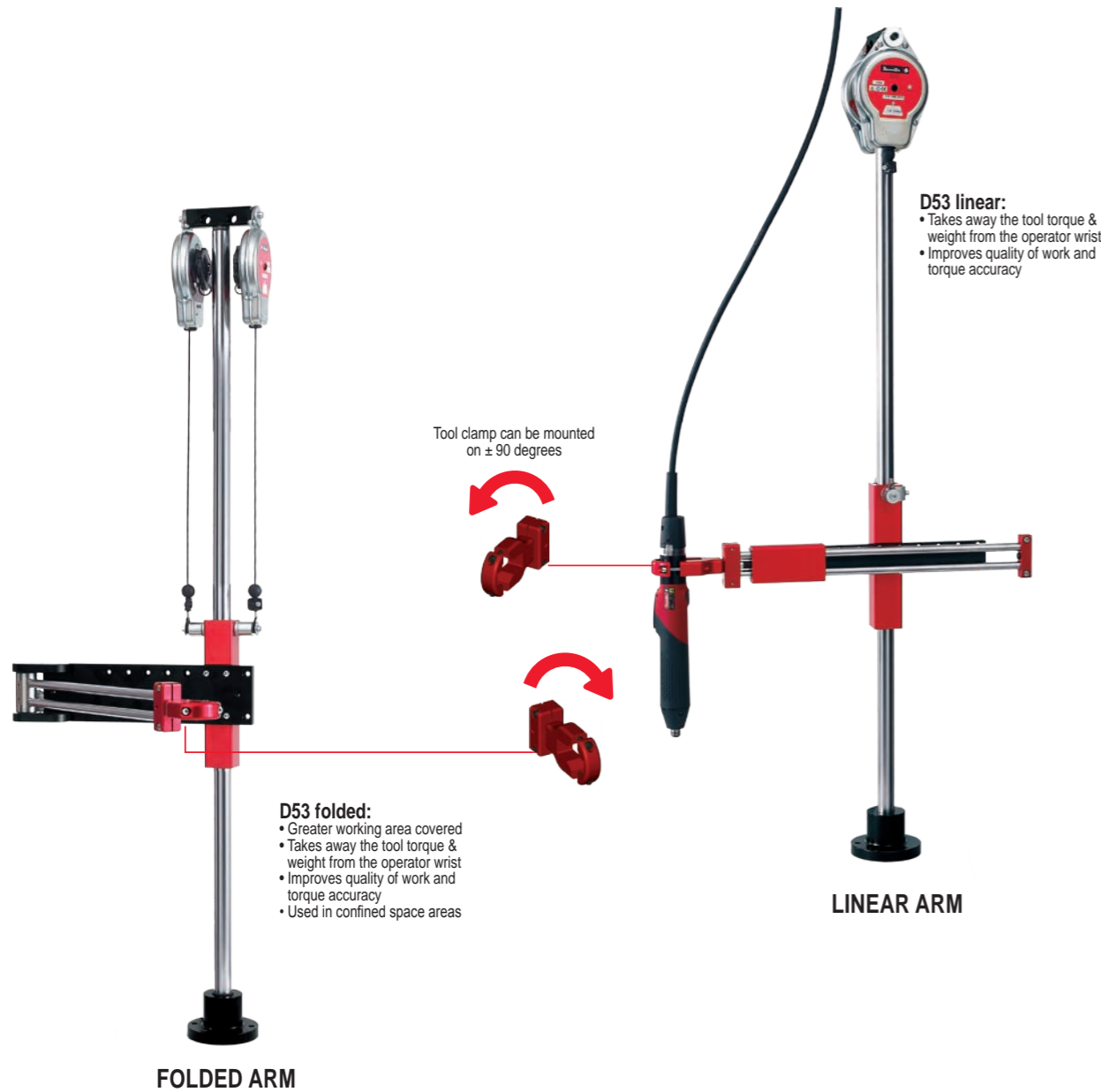


Fig.3
Desoutter torque reaction arm



Linear and Folded torque reaction arms

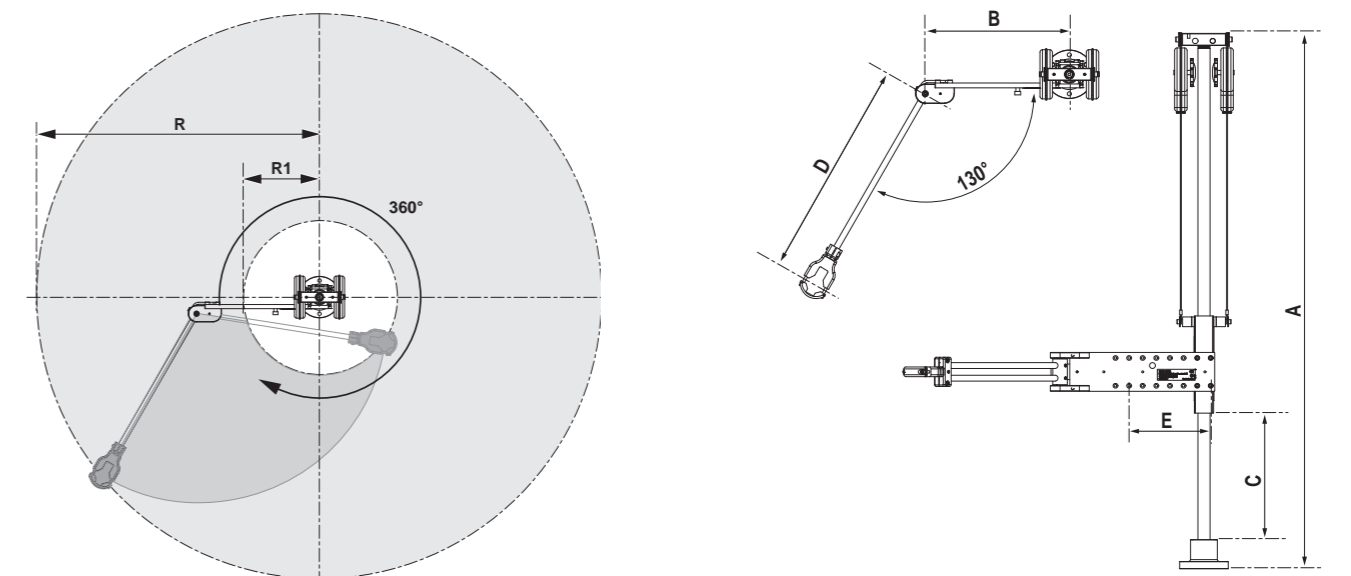
D53 - Dimensions



D53 linear working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH			VERTICAL STROKE C		HORIZONTAL STROKE D			FIXED STROKE E		TOOL WEIGHT MAX			
		Nm	ft. lb	mm	in	MAXI-B	MINI-B	mm	in	mm	in	mm	in	mm	in	kg	lb		
D53-5	615 810 700 0	5	3.7	732	28.8	592*	23.3*	220*	8.7*	310	12.2	205	8.1	-	-	168	6.6	0.8	1.76
D53-12	615 810 701 0	12	8.9	888	35.0	710*	28*	260*	10.2*	465	18.3	255	10.0	-	-	196	7.7	1.5	3.3
D53-25	615 810 702 0	25	18.4	1132	44.6	779*	30.7*	231*	9.1*	615	24.2	290	11.4	-	-	252	9.9	2.5	5.5
D53-25X	615 810 703 0	25	18.4	1132	44.6	794*	31.2*	230*	9.0*	615	24.2	290	11.4	275	10.8	-	-	2.2	4.85
D53-50	615 810 704 0	50	36.9	1147	45.2	888*	35.0*	267**	10.5**	515	20.3	355	14.0	-	-	266	10.5	5.0	11.0
D53-100	615 810 705 0	100	73.8	1147	45.2	916*	36.0*	255**	10.0**	515	20.3	395	15.6	-	-	266	10.5	6.0	13.2

(*) With clamp - (**) Without clamp



D53 folded working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH B		VERTICAL STROKE C		RADIUS D		FIXED STROKE E		RADIUS R		RADIUS R1		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53-5S	615 810 706 0	5	3.7	732	28.8	248	9.76	270	10.6	370*	14.6*	168	6.6	546	21.5	140	5.5	0.8	1.76
D53-12S	615 810 707 0	12	8.9	888	35.0	298	11.73	425	16.7	420*	16.5*	168	6.6	639	25.2	146	5.8	1.5	3.3
D53-25S	615 810 708 0	25	18.4	1132	44.6	296	11.65	580	22.8	470*	18.5*	168	6.6	685	27	183	7.2	2.5	5.5
D53-50S	615 810 709 0	50	36.9	1147	45.2	336	1.1	520	20.5	440**	17.3**	228	9.0	698	27.5	154	6.1	5.0	11.0
D53-100S	615 810 710 0	100	73.8	1147	45.2	391	15.4	500	19.7	490**	19.3**	228	9.0	788	31	158	6.2	6.0	13.2

(*) With clamp - (**) Without clamp

For full tool clamp program, please see details on page 154

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5*	615 810 700 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12*	615 810 701 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25*	615 810 702 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25X Extended reach*	615 810 703 0	25	18.4	2.2	4.8	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50	615 810 704 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100	615 810 705 0	100	73.7	6.0	13.2	2 x 22D	To order separately	

FOLDED ARM								
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
D53-5S*	615 810 706 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S*	615 810 707 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S*	615 810 708 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S	615 810 709 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S	615 810 710 0	100	73.7	6.0	13.2	2 x 22D	To order separately	

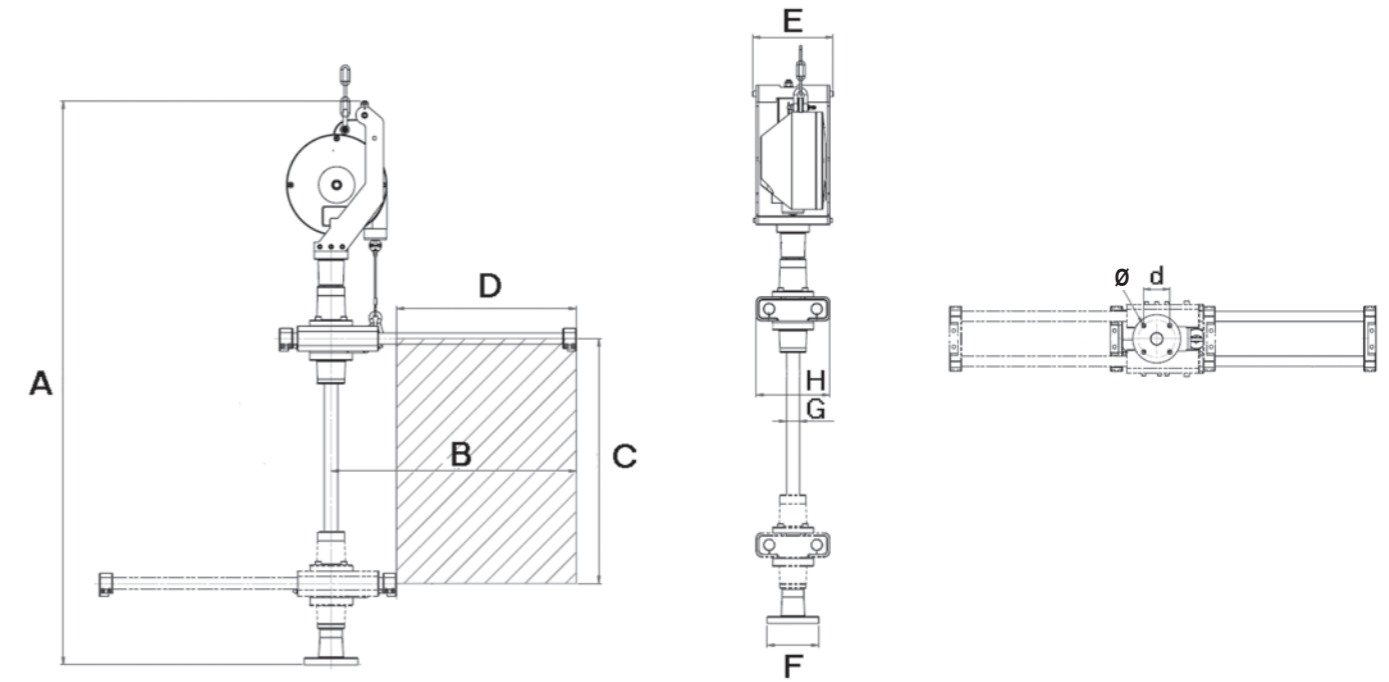
(*) Universal D53 tool clamp included

Linear high torque reaction arms

D53HT - Dimensions



D53-150/1000 linear:
 • High torque arms from 150 to 1000Nm (111 to 740 ft.lb)
 • Standard and extended versions



MODEL	PART NUMBER	HEIGHT		WIDTH (WO/CLAMP)				VERTICAL STROKE				TOOL WEIGHT	
		A		MIN-B		MAX-B		MIN-C		MAX-C			
		mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53-150	615 811 658 0	1049	41.3	240	9.4	600	23.6	154.5	6.1	644	25.4	7	15.4
D53-150XL	615 811 659 0	1159	45.6	240	9.4	840	33.1	154.5	6.1	754	29.7	6	13.2
D53-300	615 811 660 0	1216	47.9	260	10.2	660	26.0	180.0	7.1	720	28.3	14	30.9
D53-300XL	615 811 661 0	1296	51	260	10.2	860	33.9	180.0	7.1	780	30.7	12.5	27.6
D53-500	615 811 662 0	1346	53	290	11.4	730	28.7	209.5	8.2	815	32.1	30	66.2
D53-500XL	615 811 663 0	1561	61.5	290	11.4	1090	42.9	209.5	8.2	1009	39.7	27.4	60.4
D53-1000	615 811 664 0	1556	61.3	320	12.6	800	31.5	278.5	11.0	968	38.1	21	46.3
D53-1000XL	615 811 665 0	1691	66.6	320	12.6	1120	44.1	278.5	11.0	1078	42.5	18	39.3

MODEL	HORIZONTAL STROKE									
	D		E		F		G		H	
	mm	in	mm	in	mm	in	mm	in	mm	in
D53-150	360	14.4	170	6.7	90	3.5	25	1.0	150	5.9
D53-150XL	600	24	170	6.7	90	3.5	25	1.0	150	5.9
D53-300	400	16	186	7.3	119	4.7	30	1.2	170	6.7
D53-300XL	600	24	186	7.3	119	4.7	30	1.2	170	6.7
D53-500	440	17.6	180	7.1	119	4.7	40	1.6	170	6.7
D53-500XL	800	32	180	7.1	119	4.7	40	1.6	170	6.7
D53-1000	480	19.2	182	7.2	129	5.1	50	2.0	220	8.7
D53-1000XL	800	32	182	7.2	129	5.1	50	2.0	220	8.7

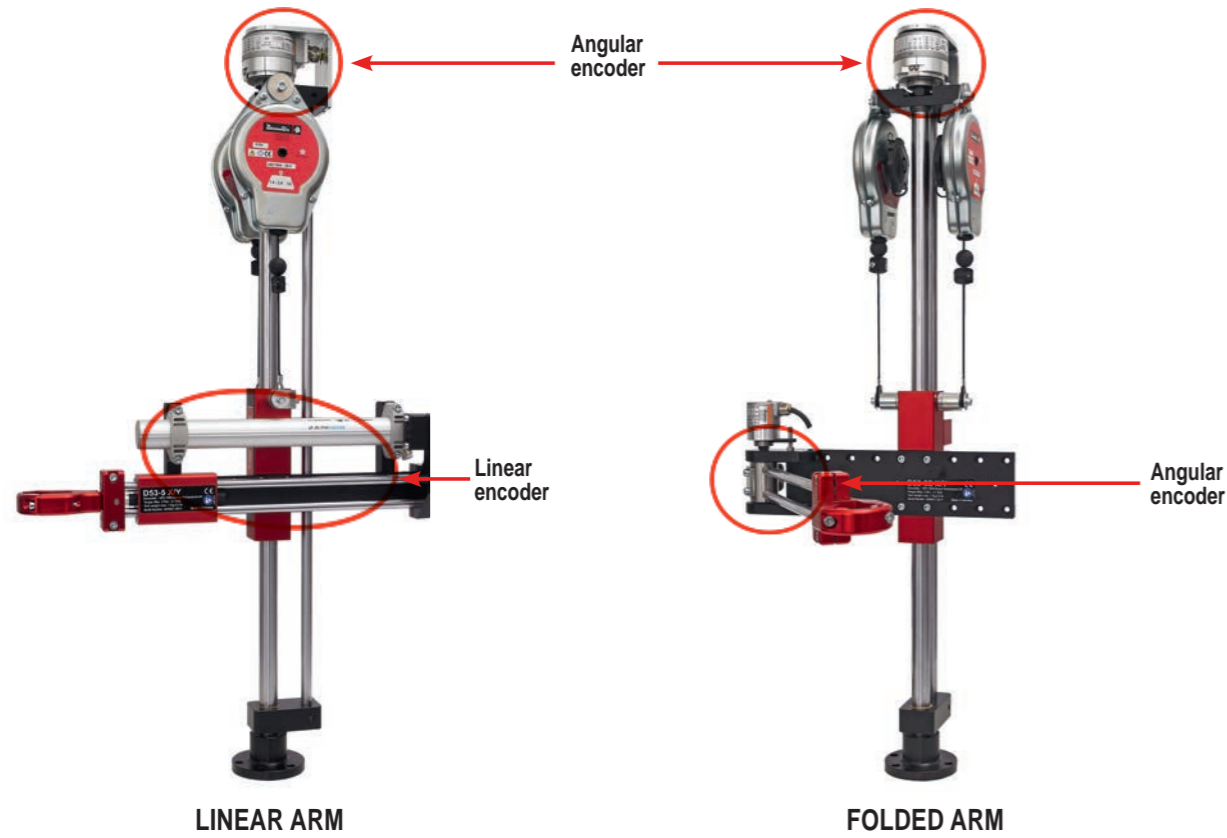
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		BALANCER INCLUDED	TOOL CLAMP DIAMETER
		Nm	ft. lb	kg	lb.		
D53-150	615 811 658 0	150	111	7	15.4	1 x 14DF	
D53-150XL	615 811 659 0	150	111	6	13.2	1 x 14DF	
D53-300	615 811 660 0	300	222	14	30.9	1 x 25DF	
D53-300XL	615 811 661 0	300	222	12.5	27.6	1 x 25DF	
D53-500	615 811 662 0	500	370	30	66.2	1 x 45DF	
D53-500XL	615 811 663 0	500	370	27.4	60.4	1 x 45DF	
D53-1000	615 811 664 0	1000	740	21	46.3	1 x 45DF	
D53-1000XL	615 811 665 0	1000	740	17.8	39.3	1 x 45DF	

To order separately contact your Desoutter representatives

MODEL	D		Ø		ARM WEIGHT	
	mm	in	mm	in	kg	lb
D53-150	50	2.0	11	0.4	12.5	27.6
D53-150XL	50	2.0	11	0.4	13.7	30.2
D53-300	65	2.6	11	0.4	26.7	58.9
D53-300XL	65	2.6	11	0.4	28.2	62.2
D53-500	65	2.6	11	0.4	40.9	90.2
D53-500XL	65	2.6	11	0.4	43.7	96.3
D53-1000	72	2.8	13.5	0.5	57.9	127.7
D53-1000XL	72	2.8	13.5	0.5	61.5	135.7

D53 X/Y - Positioning arms

- D53 X/Y stands allows to track the tool position during assembly process
- Same tool stand as D53 standard one
- 2 different versions with encoders
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Linear arm: Linear/Angular/Encoders
- Swivel arm: Angular/Angular/Encoders

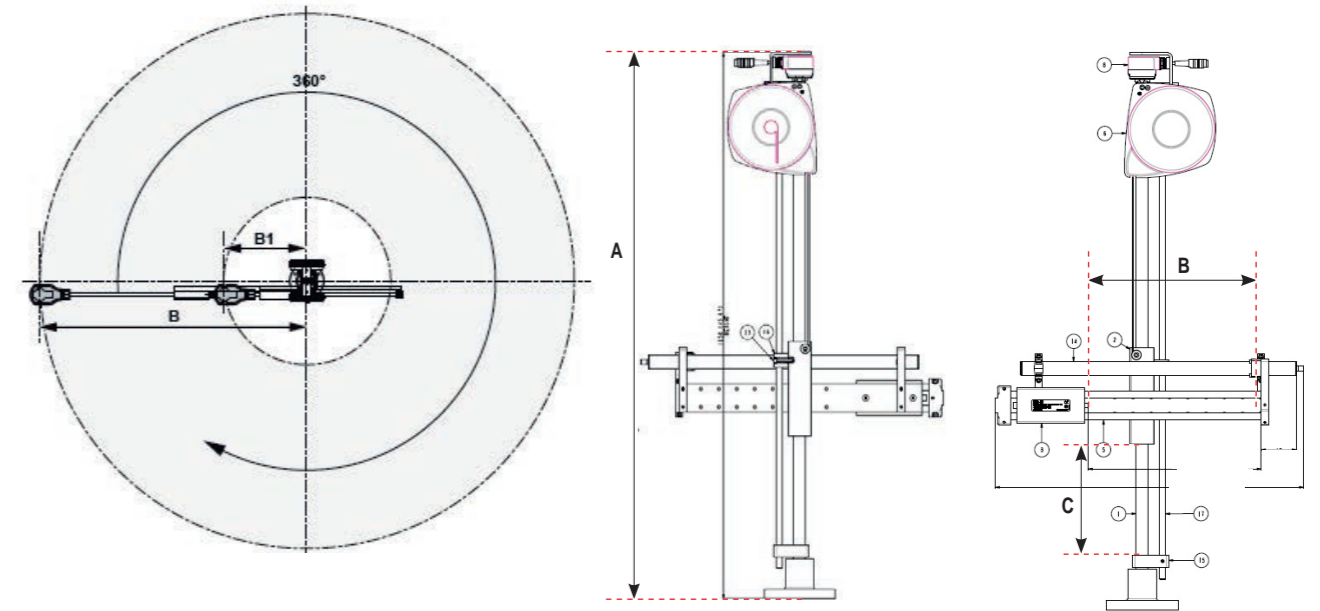


For full tool clamp program, please see details on page 154

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft.lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5 X/Y AXLE*	615 397 874 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12 X/Y AXLE*	615 397 875 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25 X/Y AXLE*	615 397 876 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50 X/Y AXLE*	615 397 877 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100 X/Y AXLE*	615 397 878 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S X/Y AXLE*	615 397 879 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S X/Y AXLE*	615 397 880 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S X/Y AXLE*	615 397 881 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S X/Y AXLE	615 397 882 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S X/Y AXLE	615 397 883 0	100	73.7	6.0	13.2	2 x 22D		

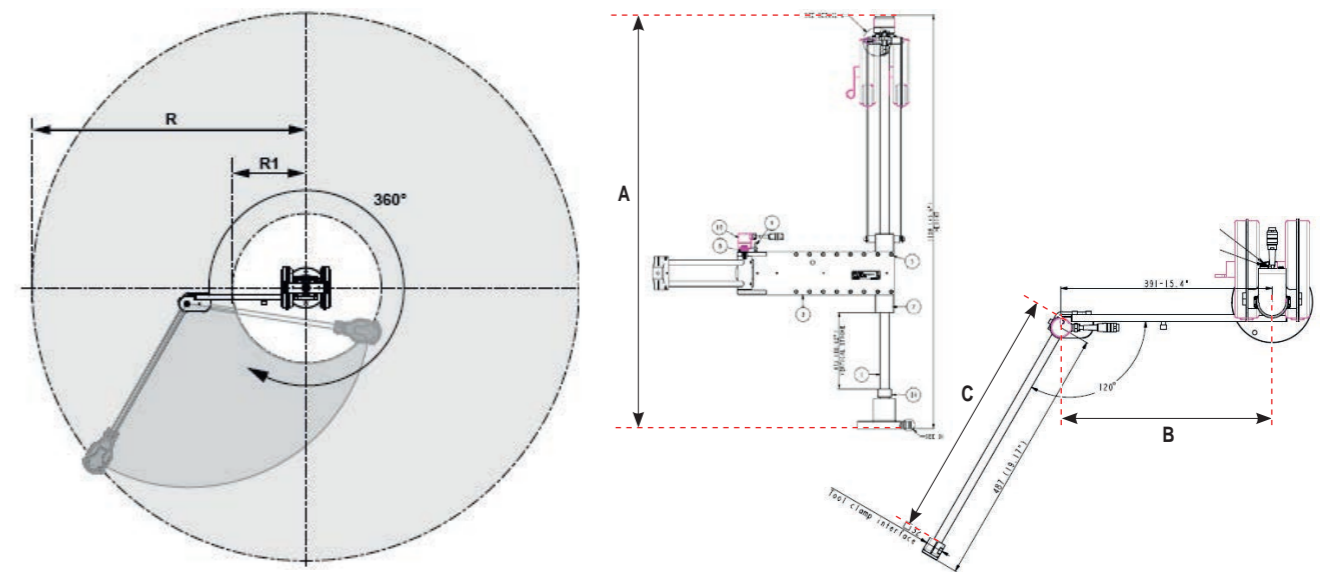
(*) Universal D53 tool clamp included

D53 X/Y - Dimensions



Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 397 874 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 397 875 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 397 876 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 397 877 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 397 878 0	1189	46.8	398.5	15.7	486	19.1



Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 397 882 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 397 883 0	1158	45.6	391	15.4	490	19.3	788	31	158	6.2

Tool clamp guide for D53 arms

Tool clamps

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED		ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM				ADD ADAPTORS IF YOU USE ROTATION CLAMPS	
STEP 1	STEP 2		STEP 3				STEP 4	
TOOL MODEL	D53 MODELS		TOOL CLAMP REFERENCES				COMMENTS	
	Linear arms	Swiveling arms	Universal Clamp	Spline	Vertical 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 1 axe rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	
SB/SBP/SC2/SC/ SCP(T)SH70 SLB SLC(P) Nose mount ECS/ERS/ECD 5	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm	615 396 615 0 + 409083 NOT Included To be ordered	615 396 615 0 + 409113 NOT Included To be ordered	615 396 615 0 + 409173 NOT Included To be ordered		
SD/SDP/SDT ERP 3/5/10/20 ECP 3/5/10/20	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm	615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered	SD Top mount: adaptor ref. 409273 To be ordered with rotation clamps SD Nose mount: 465463 for 320-1470rpm / 465443 for 2200- 3500rpm - To be ordered with rotation clamps	
SLC Top mount	D53-5 / D53-12	D53-5S D53-12S	615 810 838 0 NOT Included To be ordered (B) 40-50 mm	615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered		
ECA 15/20/30	D53-5 D53-12 D53-25	D53-5S D53-12S D53-25S	615 810 838 0 NOT Included To be ordered (B) 40-50 mm					
SH 150/200/280/420/500 SH 700/850 ERP 30/40 ERAL1.5/2 ECS/ERS	D53-25(X) D53-50 D53-100	D53-25S(X) D53-50S D53-100S	615 811 029 0 NOT Included To be ordered (B) 28-55 mm					
ERDL 4 ECD 50/70/120	D53-50 / D53-100	D53-50S D53-100S	615 810 203 0 NOT Included To be ordered (C)					
EID 44-1200 EID 75-900 EID 65-800	D53-50 / D53-100	D53-50S D53-100S	615 812 136 0 NOT Included To be ordered (C)					
ERDL 6	D53-100	D53-100S	615 810 205 0 NOT Included To be ordered (C)					
ECD20/30	D53-25(X) D53-50	D53-25S(X) D53-50S	615 810 628 0 + 615 396 191 0 NOT Included To be ordered (D)				Parts to be welded	
ERAL 4-90/110/120 ERAL 6-135 ECA 70... 150	D53-100	D53-100S	615 810 628 0 + 615 396 227 0 NOT Included To be ordered (D)				Parts to be welded	
EID25-1200 EID 32-900 EDP/ERDL 1.5/2	D53-50	D53-50S	615 810 628 0 + 615 396 551 5 NOT Included To be ordered (D)				Parts to be welded	

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp.



A



B



E



C



D

Specific Clamps

MODEL E	PART NUMBER
SB	615 810 123 0
SC2 / SBP / SCP(T) / SLB / ECS / SLC(P) SDP(T)	615 810 125 0
SD SH70/150/200/280 /420/500	615 810 129 0
SH700/850	615 810 131 0

D53 Tool positioning

Straight tool



Pistol grip tool



Angle nutrunner



TRA - Telescopic reaction arms

Telescopic carbon arm: Ideal for busy workspace!

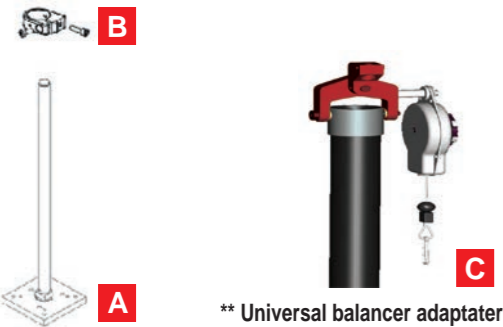
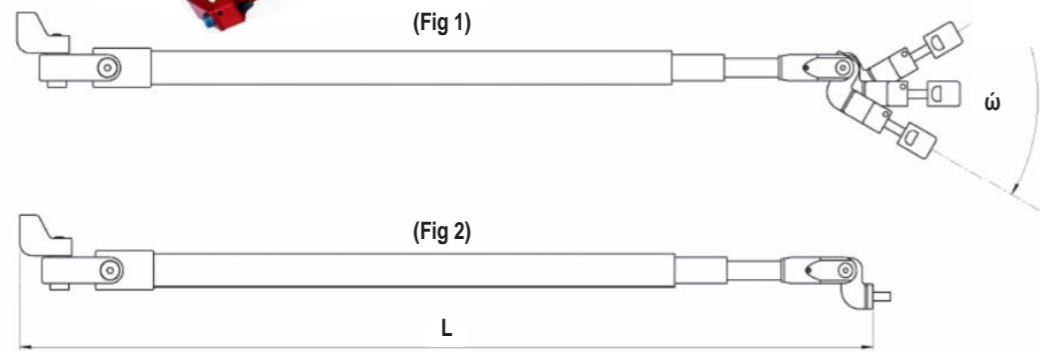
- From 12 up to 200 Nm (8.9 up to 148 ft.lb) torque capacity
- Several lengths available
- 90 degrees tool clamp interface for straight or pistol grip tools
- Limited tool clamp angle rotation to avoid side forces in the operator arm ($\dot{\omega}$) (Fig 1)

Benefits:

- Extremely lightweight carbon made torque arm for improved comfort of use
- Flexible solution



Need to order a balancer separately see page 163



OPTIONAL ACCESSORIES		
ITEM	DESCRIPTION	PART NUMBER
A	Bench stand Ø 32mm (1.26") - H 753mm (29.64")	615 810 194 0
B	Bench stand holder Ø 32mm (1.26") for TRA 12/25	615 810 121 0
B	Bench stand holder Ø 32mm (1.26") for TRA 50/100	615 810 140 0
C	Universal balancer adapter	615 397 922 5

MODEL	PART NUMBER	MAXIMUM TORQUE		MAX. MIN LENGTH L		$\dot{\omega}$ (DEG)	WEIGHT		TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	mm	in.		kg	lb	mm	in.
TRA12 1150*	615 810 089 0	12	8.9	516-1128	20-44	170	0.46	1.01	28-49	1.10-1.92
TRA12 1600*	615 810 090 0	12	8.9	666-1578	26-62	170	0.51	1.12	28-49	1.10-1.92
TRA12 2100*	615 810 091 0	12	8.9	835-2083	32-82	170	0.57	1.26	28-49	1.10-1.92
TRA25 1150*	615 810 092 0	25	18.4	524-1124	20-44	170	0.60	1.32	28-49	1.10-1.92
TRA25 1600*	615 810 093 0	25	18.4	674-1574	26-62	170	0.70	1.54	28-49	1.10-1.92
TRA25 2100*	615 810 094 0	25	18.4	841-2075	33-82	170	0.77	1.70	28-49	1.10-1.92
TRA25 2600*	615 810 095 0	25	18.4	1007-2573	39-101	170	0.86	1.89	28-49	1.10-1.92
TRA50 1600*	615 810 096 0	50	36.9	712-1624	28-64	40	1.14	2.51	28-50	1.10-1.97
TRA50 2100*	615 810 097 0	50	36.9	878-2125	34-84	40	1.24	2.73	28-50	1.10-1.97
TRA50 2600*	615 810 098 0	50	36.9	1045-2626	41-103	40	1.34	2.95	28-50	1.10-1.97
TRA100 1600	615 810 099 0	100	73.8	722-1628	28-64	30	1.47	3.24	To order separately (see page 158)	
TRA100 2100	615 810 100 0	100	73.8	889-2129	35-83	30	1.41	3.11		
TRA100 2600	615 810 101 0	100	73.8	1056-2630	41-103	30	1.53	3.37		
TRA200 1600	615 810 102 0	200	148	726-1628	28-64	20	1.98	4.36		
TRA200 2100	615 810 103 0	200	148	893-2129	35-84	20	2.18	4.80		
TRA200 2600	615 810 104 0	200	148	1060-2630	41-103	20	2.39	5.27		

(*) Universal TRA tool clamp included (**) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types: Part No. 615 397 922 5

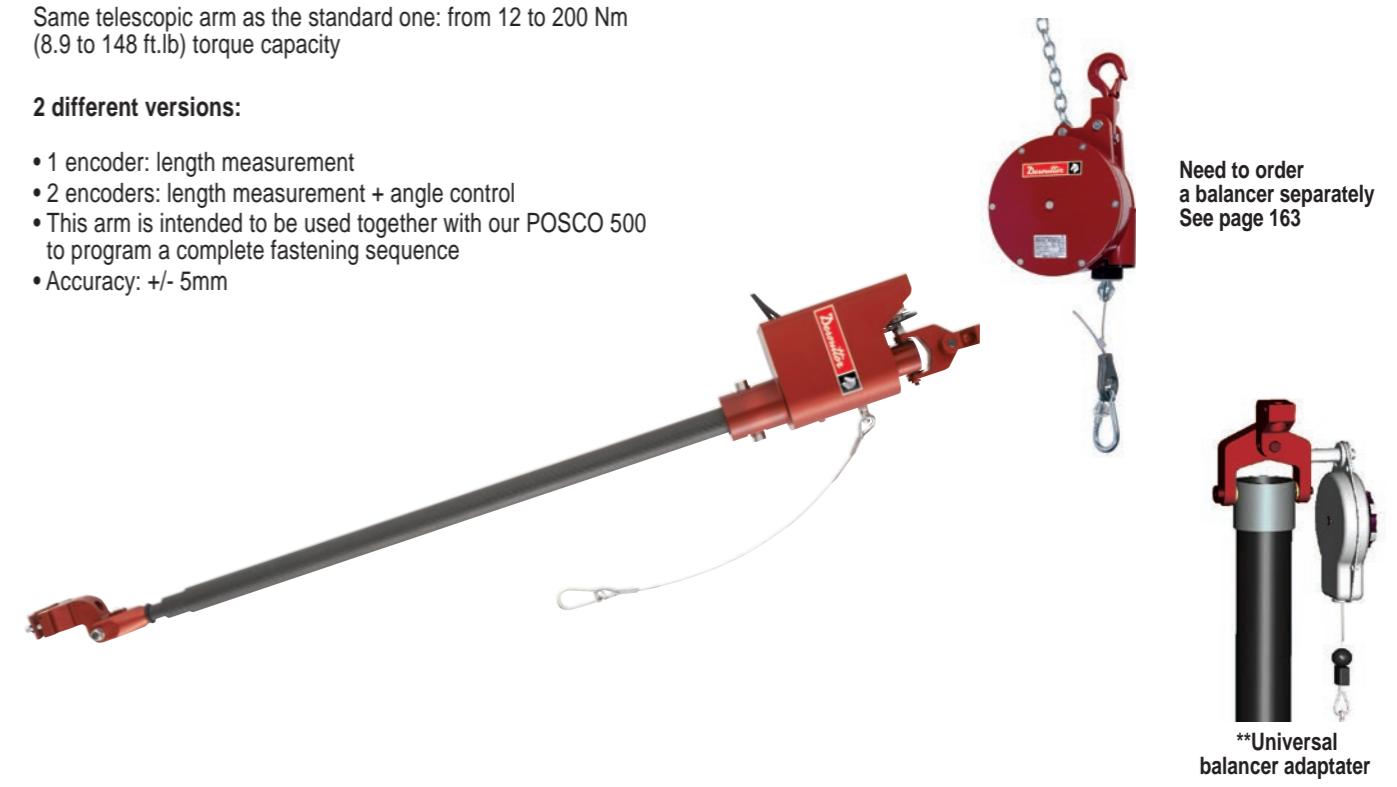
TRA - Positioning telescopic arms

TRA with positioning system allows to track the tool position during the assembly process

Same telescopic arm as the standard one: from 12 to 200 Nm (8.9 to 148 ft.lb) torque capacity

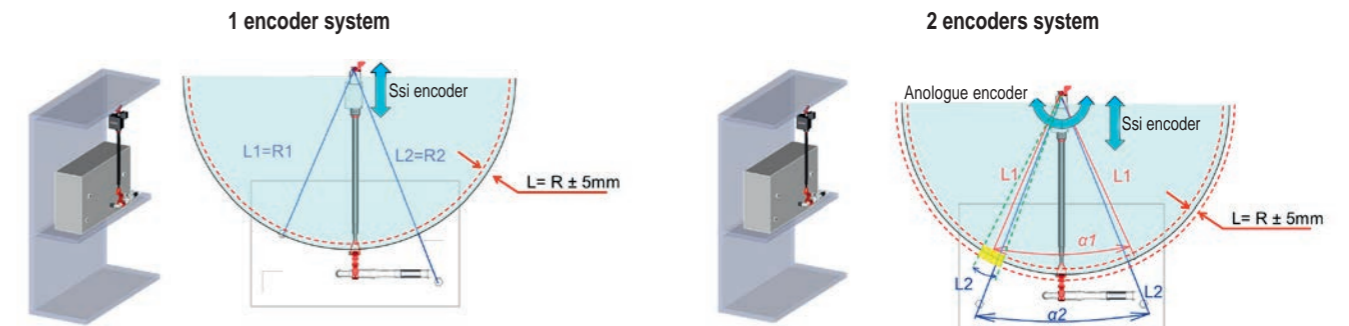
2 different versions:

- 1 encoder: length measurement
- 2 encoders: length measurement + angle control
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Accuracy: +/- 5mm



Need to order a balancer separately See page 163

**Universal balancer adapter



MODEL	PART NUMBER	NUMBER OF ENCODER	MAXIMUM TORQUE		MAX. MIN. LENGTH		TOOL CLAMP DIAMETER	
			Nm	ft.lb	mm	in.	mm	in.
TRA 12 1600 UNI P *	615 811 694 0	1	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P *	615 811 670 0	1	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P *	615 811 676 0	1	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P	615 811 682 0	1	100	73.7	2315	91	To be ordered separately (page158)	
TRA 200 2100 P	615 811 688 0	1	200	147.4	2317	91	To be ordered separately (page158)	
TRA 12 1600 UNI P2 *	615 811 695 0	2	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P2 *	615 811 671 0	2	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P2 *	615 811 677 0	2	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P2	615 811 683 0	2	100	73.7	2315	91	To be ordered separately (page158)	
TRA 200 2100 P2	615 811 689 0	2	200	147.4	2317	91	To be ordered separately (page158)	

(*) Universal TRA tool clamp included

(**) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types. Part No. 615 397 922 5

Tool clamps guide for TRA

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM	ADD ADAPTORS IF NEEDED
STEP 1	STEP 2	STEP 3	STEP 4
TOOL MODEL	TRA MODEL	TOOL CLAMP REFERENCE	DESCRIPTION
SB/SBP - SC2/SCP/SCPT SD/SDP/SDT SH 70/150/200/280 SLB 003/007/010 ECS/SLC/SLCP - ERP 3/5/10/20 ECA 15/20 - ECD 5	TRA12* / 25* * Clamp included with the arm	615 810 118 0 Included with the arm	Universal Clamp 28 - 49mm (1.1 - 1.92")
SH 420/500 - ERP 30/40 - EAP ERDL 1.5/2 - ERAL 1.5/2 ERAL 4-90 - ECA 30/40/60/70/90	TRA50* / 100 * Clamp included with the arm	615 810 137 0 Included with TRA50. To be ordered for TRA100	Universal Clamp 28 - 50mm (1.1 - 1.97")
SH 700/850	TRA 100	615 811 363 0 NOT Included with the arm To be ordered	Special clamp
EAD 50-900	TRA 100	615 811 129 0 NOT Included with the arm To be ordered	Special clamp
EAD 70-800	TRA 100	615 811 130 0 NOT Included with the arm To be ordered	Special clamp
EAD 80-650	TRA 100	615 811 131 0 NOT Included with the arm To be ordered	Special clamp
EAD 105-500	TRA 200	615 811 132 0 NOT Included with the arm To be ordered	Special clamp
ERDL 4 - 60/80/135 ECD 50/70/120	TRA 100 TRA 200	615 810 203 0 for TRA100 615 810 202 0 for TRA200 NOT Included with the arm To be ordered	Spline G1 D40,5
EID 44/65/75	TRA50 TRA100	615 812 136 0 NOT Included with the arm To be ordered	Spline G1 D41,5
ERDL 6 - 170/220/250	TRA 200	615 810 204 0 NOT Included with the arm To be ordered	Spline G1 D50
EID 25/32	TRA 50	615 810 628 0 + 615 396 551 5 NOT Included with the arm To be ordered	Clamp to be welded
ECD 20/30	TRA 50	615 810 628 0 + 615 396 191 0 NOT Included with the arm To be ordered	Clamp to be welded
ERAL 4 - 110/120/140/170 ECA 115/125/150	TRA100 TRA200	615 810 631 0 + 615 396 227 0 NOT Included with the arm To be ordered	Clamp to be welded
ERAL 4 - 225 ECA 200	TRA 200	615 810 631 0 + 615 396 230 0 NOT Included with the arm To be ordered	Clamp to be welded

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp

Torque Tubes

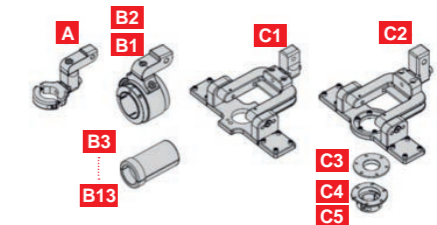
Telescopic arm for vertical and horizontal fastening applications

- From 0 to 100 Nm (0 to 73.7ft.lb) torque capacity
- Different strokes available
- Designed to be used with all Desoutter tools
- Gravity center adjustment and rigid fixation as options

MODEL	PART NUMBER	MAX TORQUE		STROKE		WEIGHT	
		Nm	ft lb	mm	in	kg	lb
TT10-850/300	615 812 260 0	12	8.9	300	11.8	1.4	3.1
TT25-1150/300	615 812 082 0	25	18.4	300	11.8	3.5	7.8
TT25-1600/600	615 812 261 0	25	18.4	600	23.6	3.9	8.7
TT50-1700/600	615 812 262 0	50	36.9	600	23.6	5.3	11.7
TT50-2100/900	615 812 263 0	50	36.9	900	35.4	6.3	13.8
TT100-1700/600	615 812 264 0	100	73.7	600	23.6	8.6	18.9
TT100-2100/900	615 812 265 0	100	73.7	900	35.4	10	22

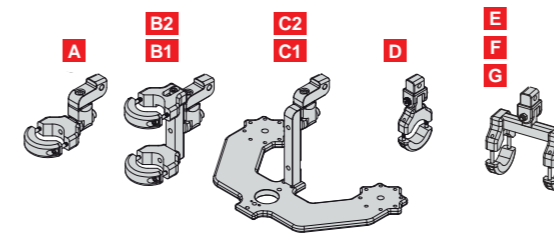


Tool Clamps TT50/TT100



ITEM	PART NUMBER	FOR TUBE	FOR TOOLS
A	615 812 575 0	TT50	ERDL1.5-2, ECD30
B1	615 812 903 0	TT50	FOR B3, B4, B5, B6, B7, B8, B9
B2	615 812 904 0	TT100	FOR B7, B10, B11, B12, B13
B3	615 812 888 0	TT50/TT100	EAB(C) 26-32-45, EAD 20-32
B4	615 812 889 0	TT50/TT100	ERDL 2-80, ERAL 2-60
B5	615 812 890 0	TT50/TT100	SH700
B6	615 812 891 0	TT50/TT100	EAB 50, EAD 50
B7	615 812 892 0	TT50/TT100	EAB(C) 60, EAD 70-80-105
B8	615 812 893 0	TT50/TT100	ECA 20-30-40-50
B9	615 812 894 0	TT50/TT100	SH 420, SH 500
B10	615 812 896 0	TT100	ERAL 4-90-110-150
B11	615 812 897 0	TT100	SH850
B12	615 812 898 0	TT50/TT100	ECA 70-90-115-125-150
B13	615 812 895 0	TT100	EAD 70-80-105
C1	615 812 542 0	TT50	EFDE(S) 30-43-45, EME 51-60, MC 51-10, 20
C1	615 812 576 0	TT100	EFDE(S) 51-70, EME 51-60, MC 51-10, 20
C2	615 812 574 0	TT50	EID 25-32, EID 44, ERDL 1,5-30
C2	615 812 577 0	TT100	EID 65-75
C3	615 812 900 0	TT50/TT100	EID 44-65-75
C4	615 812 901 0	TT50	EID 25-32
C5	615 812 902 0	TT50	ERDL 1,5/2

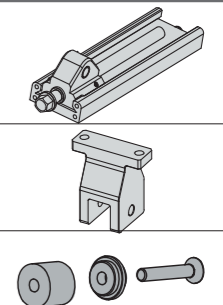
Tool Clamps TT10/TT25



ITEM	PART NUMBER	FOR TUBE	FOR TOOLS
A	615 812 215 0	TT10	SB, SC2 SD, SD220, SLC, ECD5, ECS, ECSF, ECSM, ERDL1-5-20, ERS02, ERS06, ERSF-12
A	615 812 161 0	TT25	ERSF-12, ECS, ECSF, ECD 30, SLB090, SLB120, SD160, SD220
B1	615 812 195 0	TT25	EID 25
B2	615 812 196 0	TT25	ECD20, ERDL
C1	615 812 197 0	TT25	MC 35-20, MC 38-10, EME 35-20J, EME 38-10J
C2	615 812 198 0	TT25	EFDE 43-15
D	615 812 218 0	TT10	SD070, SD072, SLCP
D	615 812 199 0	TT25	SH200-LR550 S90-A10S
E	615 812 200 0	TT25	EAD20, EAB15-26, ERAL20-30-40, SPD209-300-LR90, SH150-280
F	615 812 220 0	TT10	SH70, SH150
F	615 812 201 0	TT25	ECA 15, ECA 20-30, ERAL 1-5-15-25-35
G	615 812 221 0	TT10	ECSA, ERSAD2, ERSAD06, ERSAD12
G	615 812 202 0	TT25	ERSA 12

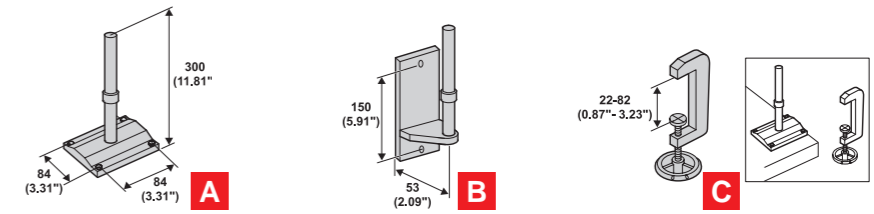
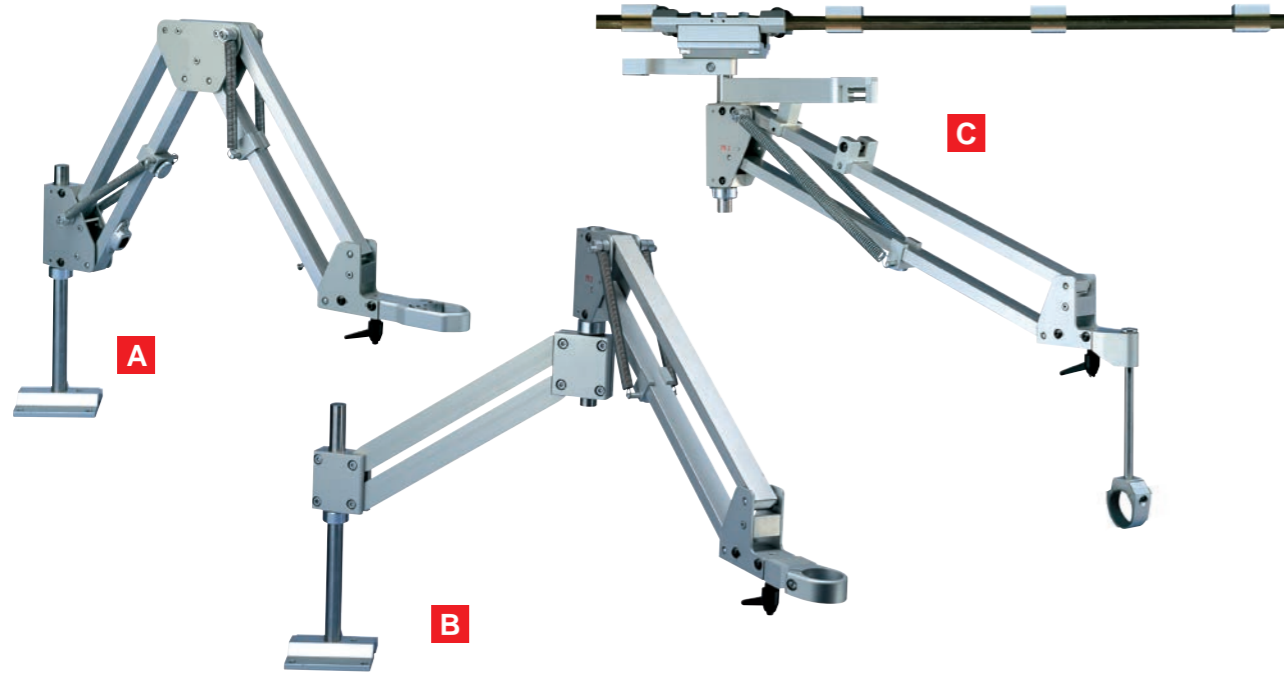
OPTIONAL ACCESSORIES

PART NUMBER	DESCRIPTION	FOR TORQUE TUBE
615 812 203 0	Gravity center adjustment	TT10
615 812 149 0	Gravity center adjustment	TT25
615 812 532 0	Gravity center adjustment	TT50
615 812 539 0	Gravity center adjustment	TT100
615 812 211 0	Rigid fixation	TT10
615 812 157 0	Rigid fixation	TT25
615 812 535 0	Rigid fixation	TT50 / 100
615 812 141 0	Balancer DU fixation	TT10 / 25
615 812 145 0	Balancer D fixation	TT25/50
615 812 522 0	Balancer DF fixation	TT50 / 100



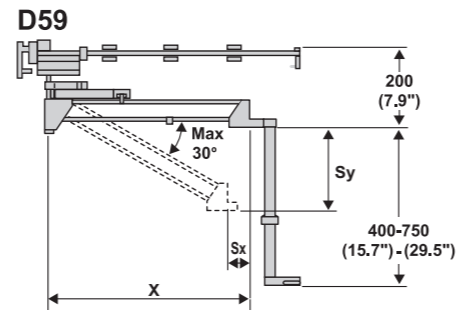
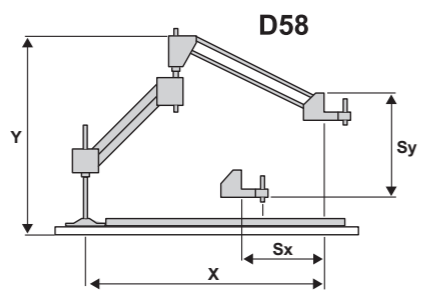
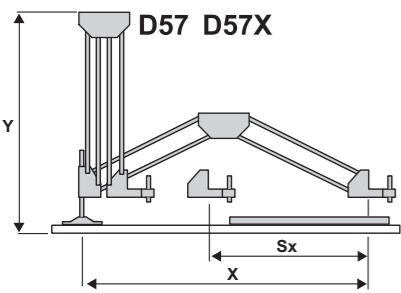
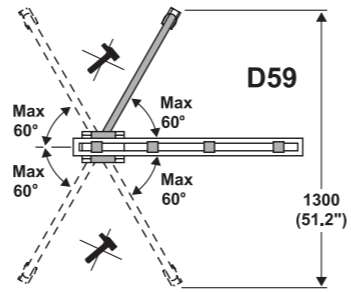
Balancing arms D57, D58, D59

Tool clamps



- 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



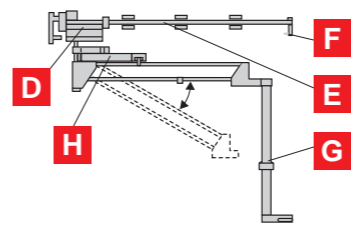
D57 / 58 / 59 BALANCING ARMS

PIC REF.	MODEL	PART NUMBER	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

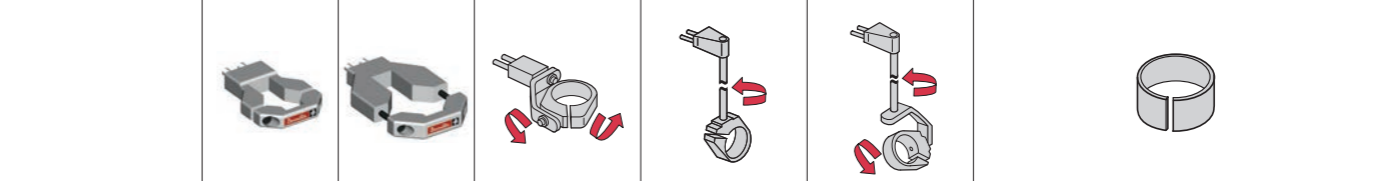
ACCESSORIES

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

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)	409273 Ø46mm (1.8) (OUTSIDE) Ø30mm (1.18) (INSIDE) 409023 Ø56mm (2.2) (OUTSIDE) Ø40mm (1.57) (INSIDE)



Pneumatic Screwdrivers

SB / SBP	<input type="checkbox"/>		409083	409113	409173	
SC2 / SCP / SCPT	<input type="checkbox"/>		409083	409113	409173	
SD / SDP	<input type="checkbox"/>		409093	409123	409183	Ring adaptor PN 409273 for SD
SH70 / SH150	<input type="checkbox"/>		409093	409123	409183	

Electric Screwdrivers

SLB	<input type="checkbox"/>		409093	409123	409183	Ring adaptor PN 409273
SLC (nose mount)	<input type="checkbox"/>		409083	409113	409173	
SLC (top mount)	<input type="checkbox"/>		409093	409123	409183	
SLE	<input type="checkbox"/>	<input type="checkbox"/>	409093	409123	409183	Ring adaptor PN 409273
ECS	<input type="checkbox"/>		409083	409113	409173	
ECD5	<input type="checkbox"/>		409083	409113	409173	
ERD5	<input type="checkbox"/>		409083	409113	409173	

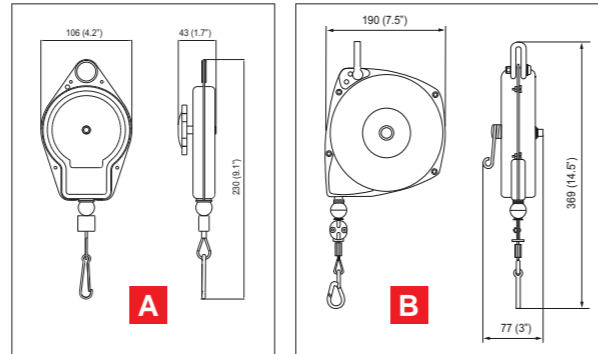
Drills

DR 300	<input type="checkbox"/>		409083	409113	409173	
DR 350	<input type="checkbox"/>			409113	409173	
DR 750	<input type="checkbox"/>			409123	409183	Ring adaptor PN 409273

Balancers D, HU & R Series



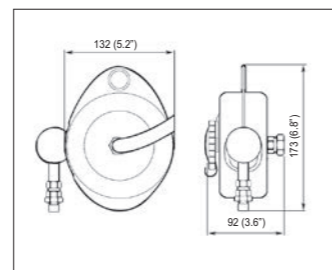
- Steel housing
- Nylon (pic A) Steel (pic B) cable
- Additional support chain included
- 10S / 15S / 22S with drum lock feature: operates only on spring failure



BALANCERS - 1DU - 22S

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	1DU	52542	0	0	0.5	1.1	1.5	4.9	0.6	1.3
	2DU	50522	0.5	1.1	1.0	2.2	1.5	4.9	0.6	1.3
	2DUS	54532	0.5	1.1	1.0	2.2	3.0	9.8	0.6	1.3
	3DU	52862	1.0	2.2	1.5	3.3	1.5	4.9	0.6	1.3
	4DU	50532	1.0	2.2	2.0	4.4	1.5	4.9	0.6	1.3
B	5DU	50542	1.4	3.1	2.4	5.3	1.5	4.9	0.6	1.3
	10D	50052	2.5	5.5	5.0	11.0	2.4	7.8	2.7	6.0
	15D	50062	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22D	50072	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1
	10S*	50572	2.0	4.4	5.0	11.0	2.4	7.8	2.7	6.0
	15S*	50582	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22S*	50592	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1

* Balancers with drum lock features



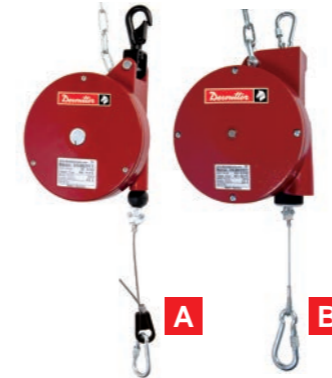
- Steel housing
- Additional support chain included
- Polyurethane hose
- 1/4" thread

HOSE BALANCERS - 1HU - 4HU

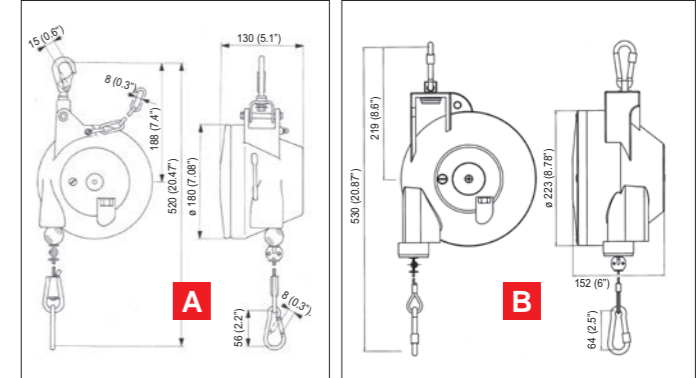
MODEL	PART NUMBER	LOAD RANGE				HOSE TRAVEL		HOSE ID		WEIGHT	
		MIN. CAPACITY		MAX. CAPACITY		m	ft	mm	in.	kg	lb
		kg	lb	kg	lb						
1HU	52552	0	0	0.5	1.1	1.5	4.9	6.5	1/4	1.2	2.6
3HU	50552	0.5	1.1	1.4	3.1	1.0	3.3	6.5	1/4	1.2	2.6
4HU	50562	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3
4HU-X*	205 148 128 4	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3

Flow rate: 7.1 l/s (15cfm) - *L= 0.5

Balancers - DF & DFL Series



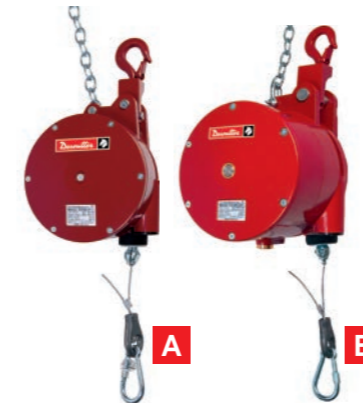
- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant plastic and aluminum housing
- 360° swiveling safety hook for isolated suspension
- Screw-type safety hook for load suspension
- Standard safety chain
- Spring fracture safeguard, integrated drum lock



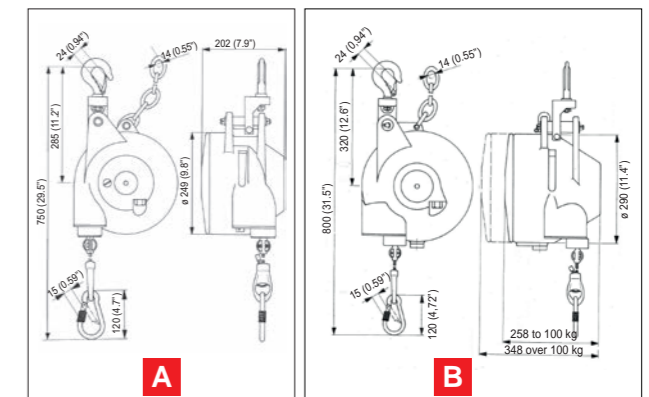
BALANCERS - 5DF - 55 DF

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	5DF	615 805 011 0	3.0	6.6	5.0	11.0	2.0	6.6	2.9	6.4
	7DF	615 805 012 0	4.5	9.9	7.0	15.4	2.0	6.6	3.1	6.8
	10DF	615 805 013 0	6.0	13.2	10.0	22.0	2.0	6.6	3.2	7.1
	14DF	615 805 014 0	9.0	19.8	14.0	30.9	2.0	6.6	3.4	7.5
	17DF	615 805 015 0	13.0	28.7	17.0	37.5	2.0	6.6	3.6	7.9
B	21DF	615 805 016 0	16.0	35.3	21.0	46.3	2.0	6.6	3.8	8.4
	25DF	615 805 017 0	15.0	33.1	25.0	55.1	2.0	6.6	7.8	17.2
	35DF	615 805 018 0	25.0	55.1	35.0	77.2	2.0	6.6	8.9	16.6
	45DF	615 805 019 0	35.0	77.2	45.0	99.2	2.0	6.6	9.5	20.9
	55DF	615 805 020 0	45.0	99.2	55.0	121.2	2.0	6.6	9.7	21.4

A Plastic housing B Aluminum housing



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant aluminum housing
- 360° swiveling safety hook
- Cable extension limit stop for overload protection
- Screw-type safety hook for load suspension
- Standard safety chain
- Standard spring fracture safeguard integrated drum lock
- Ferrule for securing cable end
- Freewheel device for protection against handling errors



BALANCERS - 20DFL - 200DFL

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	20DFL	615 805 021 0	12	26.5	20	44.1	2.0	6.6	14.8	32.6
	30DFL	615 805 022 0	20	44.1	30	66.1	2.0	6.6	15.2	33.5
	45DFL	615 805 023 0	30	66.1	45	99.2	2.0	6.6	16.9	37.2
	60DFL	615 805 024 0	45	99.2	60	132.3	2.0	6.6	17.3	38.1
	75DFL	615 805 025 0	60	132.3	75	165.3	2.0	6.6	18.7	41.2
	90DFL	615 805 026 0	75	165.3	90	198.4	2.0	6.6	19.7	43.4
	100DFL	615 805 027 0	90	198.4	100	220.4	2.0	6.6	20.9	46.1
	115DFL	615 805 028 0	100	220.4	115	253.5	3.0	9.8	41.8	92.1
	130DFL	615 805 029 0	115	253.5	130	286.6	3.0	9.8	43.2	95.2
	140DFL	615 805 030 0	130	286.6	140	308.6	3.0	9.8	44.6	98.3
B	150DFL	615 805 031 0	140	308.6	150	330.7	3.0	9.8	46.0	101.4
	170DFL	615 805 032 0	150	330.7	170	374.8	3.0	9.8	46.4	102.3
	180DFL	615 805 033 0	170	374.8	180	396.8	3.0	9.8	46.7	102.9
	190DFL	615 805 034 0	180	396.8	190	418.9	3.0	9.8	47.0	103.6
	200DFL	615 805 035 0	190	418.9	200	440.9	3.0	9.8	47.3	104.2

Tool holsters

Desoutter Tool Holster - DTH42 - DTH-90

DTH-42

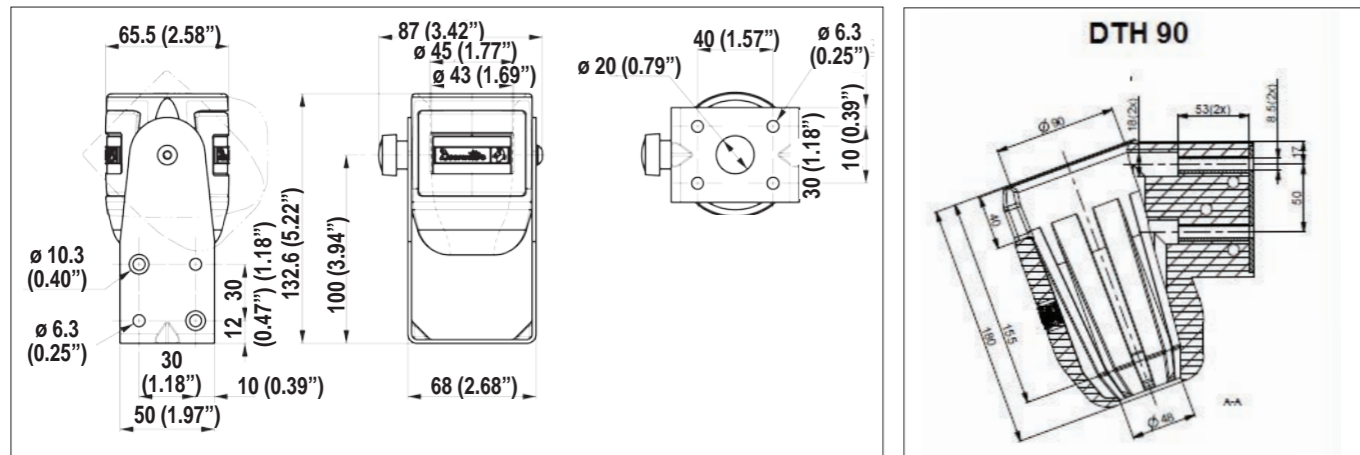
- Adapted for all **straight or pistol grip** tools with an outside diameter of maximum 42 mm
- The mounting plate can be fastened in **several positions** and the plastic ring angle can be set at **different angles**

DTH-90

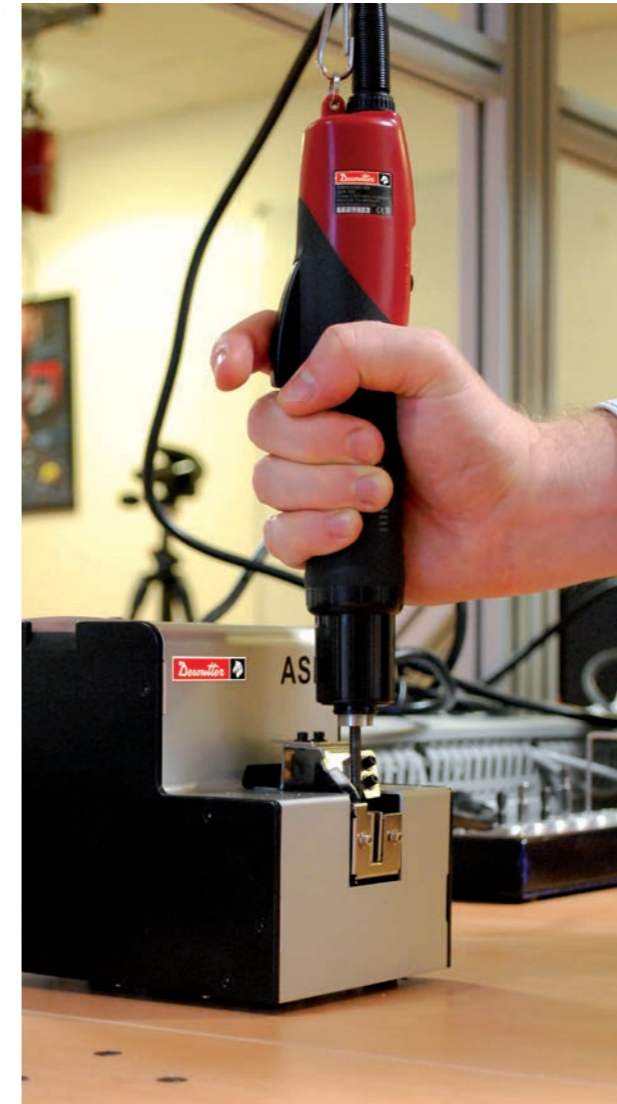
- Used for all **pistol grip** tools with an outside diameter of maximum 90 mm
- Designed with 2 holes for tool sensors presence
- Rubber material
- Mounting screws included



PIC REF	PART NUMBER	DESCRIPTION	MAX. DIAMETER	
			mm	in.
A	107 892	DTH-42	42	1.65
B	615 812 119 0	DTH-90	90	3.54

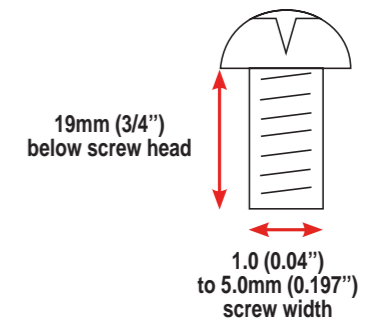


ASD - Automatic screw dispenser

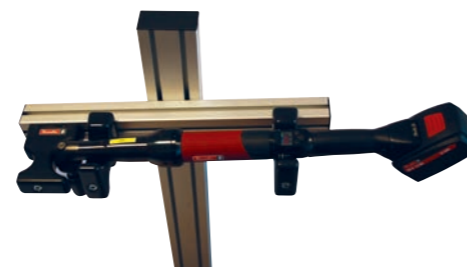
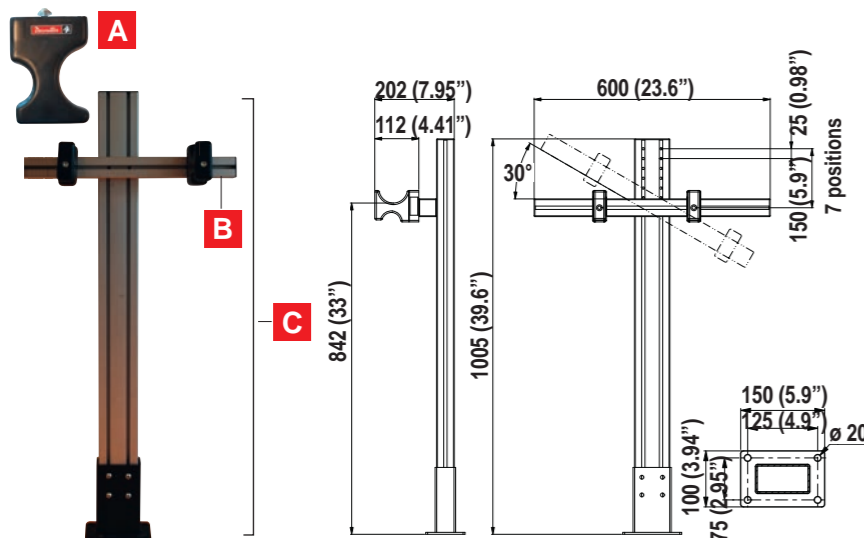


TO BE USED FOR THE ASSEMBLY OF:

- Electronics: TV, mobile phones, computers
- Medical products
- Small appliances



Desoutter Tool Holster - DTH TWIN



PIC REF	PART NUMBER	DESCRIPTION
A*	615 811 411 0	DTH TWIN (single) without rail
B	615 811 412 5	DTH TWIN rail KIT with 2 TWIN holders
C	615 811 413 5	DTH TWIN stand kit with base & 2 TWIN holders

* Includes screw and fixation for rail type Bosch 10mm slot

Boost your productivity and efficiency

- Widest range of screw sizes:** between 1.0 (0.04") and 5.0mm (0.197") thread diameters (about 11 different screw sizes) including screws with captive washers and up to 19mm (3/4") screw length (under head)
- Complete:** supplied with universal feeding rail to avoid buying additional and expensive spare rails
- Fully adjustable:** vibration time, vibration intensity, and drum rotation time adjustments allow the user to optimize the screw feed rate
- Quiet operation & easy to service**
- Includes: rail adjustment kit, AC adapter and ground wire

PART NUMBER	POWER PLUG	SCREW RANGE		RAIL ADJUSTMENT KIT	DIMENSIONS				POWER		
		SIZE	LENGTH		L	H	W				
615 810 472 0	UK	M1.0 to M5.0	Up to 19 (under head)		mm	in.	mm	in.	mm	in.	AC 100 ~ 240V
615 810 473 0	EUR	M1.0 to M5.0	Up to 19 (under head)	included	126	5	147	5.8	182	7.2	
615 810 474 0	US	0.04" to 0.197"	Up to 3/4" (under head)								

Automatic Screw Dispenser - ASD



Fastening accessories

Fastener Head Type	Drivers	Output
POZIDRIV/SUPADRIV	4mm Wing Shank	Exx TORX SOCKET SIZE XX
PHILLIPS	5mm Wing Shank	SWxx SOCKET SIZE XX
TORX	4mm Halfmoon	T TORX SIZE XX
TORX TAMPER PROOF	1/4" Hex** Insert (C6.3) (ISO1173/ DIN3126)	INxx HEX BIT SIZE XX
TORX PLUS	1/4" Hex Power Drive (E6.3) (ISO1173/ DIN3126)	XZNxx TORX 12 BIT SIZE XX
INTERNAL HEX	5/16" Hex Power Drive	
EXTERNAL HEX	3mm Hex Power Drive (A3) (ISO1173)	
SLOT	Thread Drive	
TRI-WING	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.

We can propose today a high quality range of bits and sockets with the latest Technology Support and Quality controls.



For further information see the Accessories catalogue www.desouttertools.com



Drilling and Riveting



Drilling and Riveting - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
ADVANCED DRILLING UNIT 		170-171
MULTI DRILLS 		173-175
ANGLE DRILLS - Compact 30°, 45°, 90° & 360° Angle Head 		176
ANGLE DRILLS - Standard 45°, 90° & 360° Angle Head - Heavy Duty 90° Angle Head 		177-178
PISTOL GRIP DRILLS 		179-181
STRAIGHT GRIP DRILLS 		182
VACUUM AND COLOR IDENTIFICATION 		183
TAPPERS 		184
SPECIALITY TOOLS - Rivet Shaver & Rack - Rack Feed Drills 		185-187
RIVETING COMPRESSION TOOLS 		188-192
RIVETING HAMMERS 		193

Automatic Drilling Unit



Automatic Drilling Unit

1 STEP OPERATION - DRILLING – REAMING - COUNTERSINKING



Part of Desoutter product portfolio, **Seti-Tec line** offers best-in class performance, quality and reliability for the most demanding drilling applications worldwide.

Seti-Tec solutions have already been adopted by all major Aircraft manufacturers worldwide

This concept is dedicated to highly demanding drilling, reaming, countersinking applications, where quality, precision and repeatability are critical. Its innovative design make one step drilling, reaming, countersinking possible, and will help driving down your cycle time.

Its design based on modularity concept and the wide variety of clamping options will answer most of your applications.

In addition to the current ST1200 and ST220 pneumatic range, the Electric Drilling Unit range éVo is raising the drilling performance to a new standard.



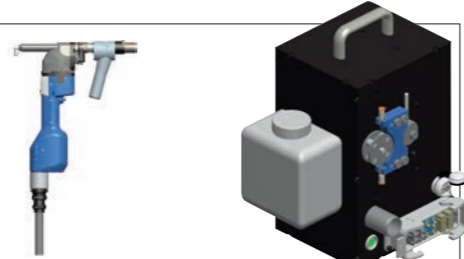
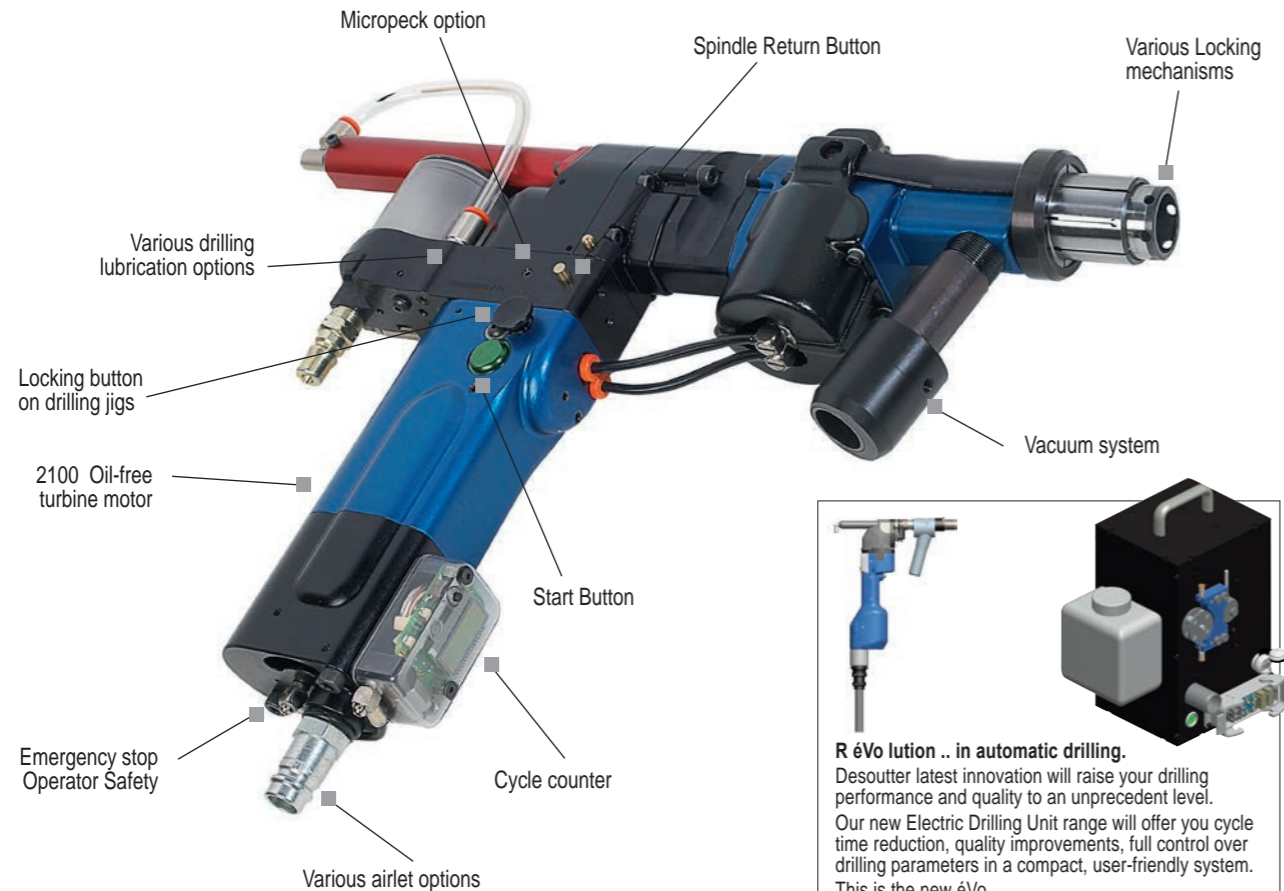
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Chips with micropeck

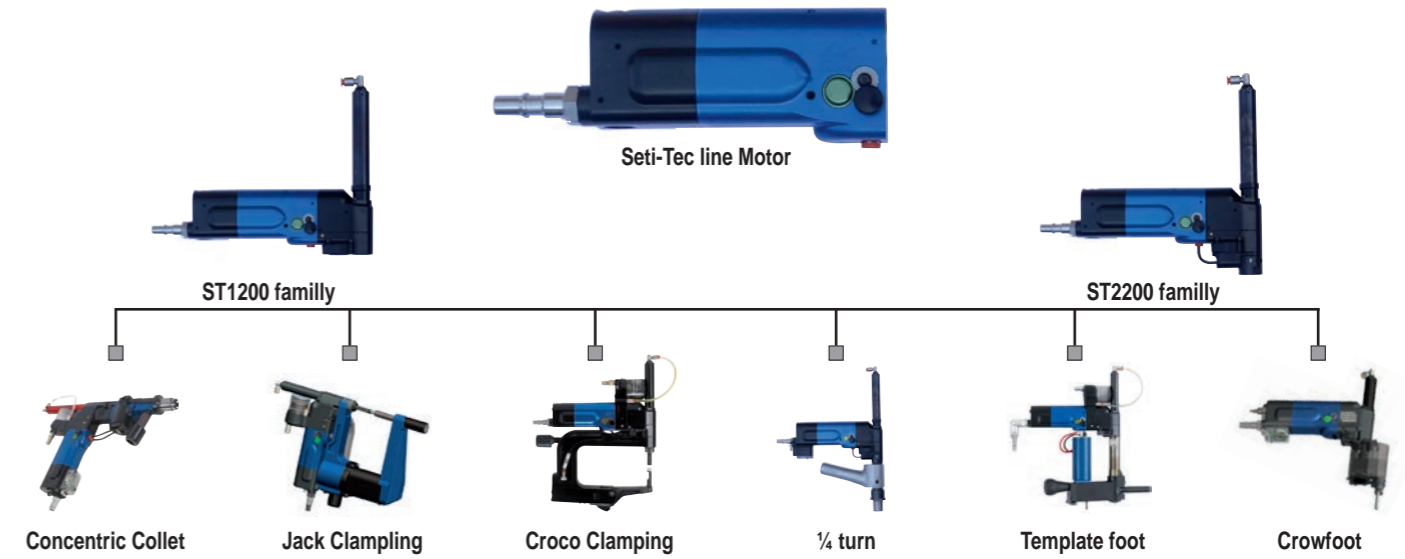


Chips without micropeck



R éVo lubrication .. in automatic drilling.
 Desoutter latest innovation will raise your drilling performance and quality to an unprecedented level. Our new Electric Drilling Unit range will offer you cycle time reduction, quality improvements, full control over drilling parameters in a compact, user-friendly system. This is the new éVo
 Contact Seti-Tec representative for more information

MODULAR CONCEPT



TECHNICAL INFORMATION

Type: Automatic positive feed drill
 Drill and countersink, precision depth 0.02mm

	ST1200	ST2200
Power:	2.8 HP, with torque limiter at lower speed	
Weight:	1.5 kg (3.3lb)	4.2 kg (9.2lb)
Stroke:	Unlimited	Unlimited
Feed rate:	0.02 mm/rotation 0.04 mm/rotation 0.06 mm/rotation 0.08 mm/rotation 0.10 mm/rotation 0.12 mm/rotation 0.15 mm/rotation	0.04 mm/rotation 0.06 mm/rotation 0.10 mm/rotation 0.12 mm/rotation 0.14 mm/rotation 0.18 mm/rotation 0.20 mm/rotation

Upper feed rates possible to adapt.

Rotation speed:	ST1200	ST2200
240 rpm	240 rpm	159 rpm
500 rpm	500 rpm	250 rpm
1000 rpm	1000 rpm	300 rpm
1700 rpm	1700 rpm	540 rpm
2400 rpm	2400 rpm	700 rpm
3000 rpm	3000 rpm	800 rpm
4600 rpm	4600 rpm	900 rpm
6500 rpm	6500 rpm	1200 rpm
8100 rpm	8100 rpm	2600 rpm
14000 rpm	14000 rpm	3000 rpm

Available an right angle, inline and inline + handle

HOLE DIAMETER	ALUMINIUM COMPOSITE	TITANIUM HARD METAL	ALUMINIUM COMPOSITE	TITANIUM
	Straight hole		Countersink hole	
<4,8mm - 3/16"	ST 1200	ST 1200	ST 1200	ST 1200
<6,35mm - 1/4"				
<7,9mm - 5/16"				
<9,5mm - 3/8"				
<11,1mm - 7/16"				
<12,7mm - 1/2"				
<14,3mm - 9/16"	ST 2200	ST 2200	ST 2200	ST 2200
<15,9mm - 5/8"				
<19,5mm - 3/4"				
<22,2mm - 7/8"				
<25,4mm - 1"				
Over 25,4mm - 1"				

	CONCENTRIC COLLET	BAYONET 1/4 TURN	CROCO CLAMP	JACK CLAMP	TEMPLATE FOOT	CROWFOOT
Thick jig	ST1200 ST2200					
Thick jig with rail or screws		ST1200 ST2200				ST1200 ST2200
Thick jig			ST1200	ST1200	ST1200	
No jig (pre-hole)			ST1200	ST1200	ST1200	



Special right angle

Any specific requirement can be handled by Seti-Tec line design team. Contact your Desoutter representative for assistance

Drill Selection Guide

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	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									
30°, 45°, 90°, 360° COMPACT HEAD									
DR300-QR	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")
	3000	3	-	-	3.0 (1/8") 2	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")	-
DR300-T5/S5	2000	-	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	-	-	-	-
	1000	-	4.0 (5/32")	5.0 (3/16")	-	-	-	-	-
45°, 90°, 360° STANDARD HEAD									
DR300-QR	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")
	3000	-	-	-	3.0 (1/8")	5.0 (3/16")	6.5 (1/4")	6.5 (1/4")	-
DR300-T6/S6	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")	-	-	-	-	-
90° HEAVY DUTY									
DR300-THD/SHD	2000	-	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")
	900	-	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	-	-	-	-
	2000	-	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")
	900	-	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-
PISTOL GRIP									
DR350	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	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")	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	18500							4.0 (5/32")	2.0 (5/64")
ø8-13 mm (5/16" - 1/2") cap.	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	20000						2.0 (5/64")	2.0 (5/64")	
ø8-13 mm (5/16" - 1/2") cap.	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	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	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

Multi Drills



- Modular product range to boost you productivity.
- Full flexibility for difficult access applications.
- Lightweight and excellent ergonomics.
- Robust built, reliable design and excellent run-out.

12 positions, 360° orientation

Flexibility
Excellent accessibility

Quick-Release head

Productivity
1 tool for all applications

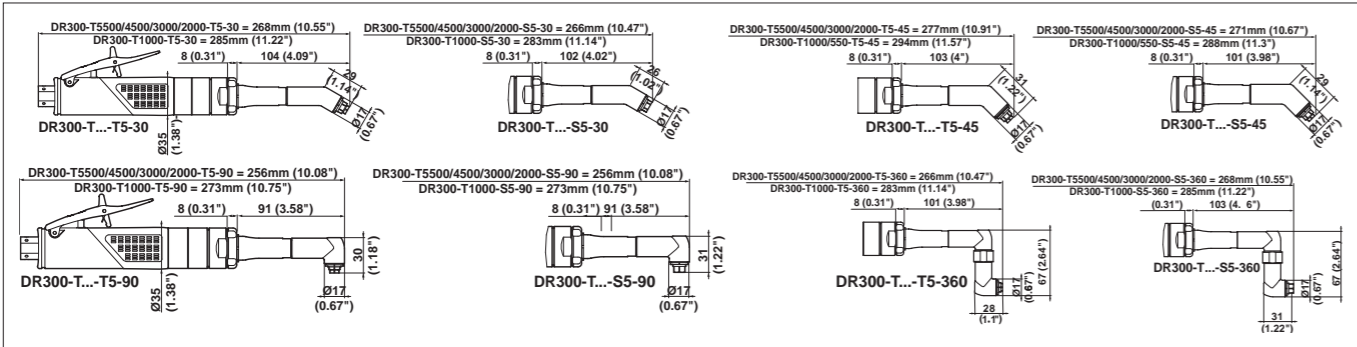
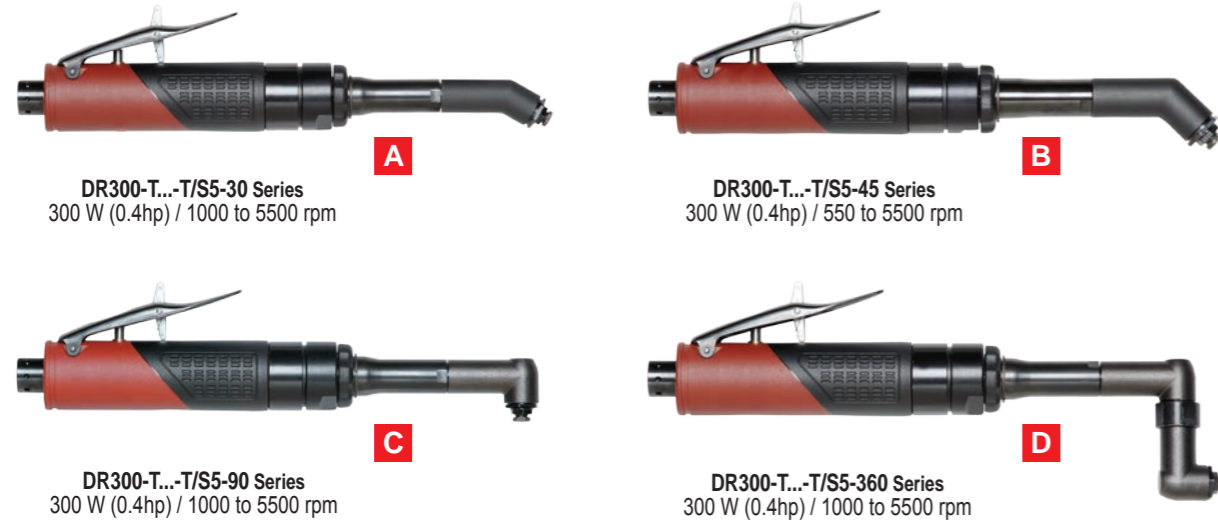
Safety
Ergonomics
Low weight
Low sound levels
Vacuum kits options



* Possibility to use ER collets with straight Quick Release attachment See p.202 for all details

Angle Drills

Compact Head - Max capacity: 5mm (3/16")
Collet & 1/4" x 28 Spindle



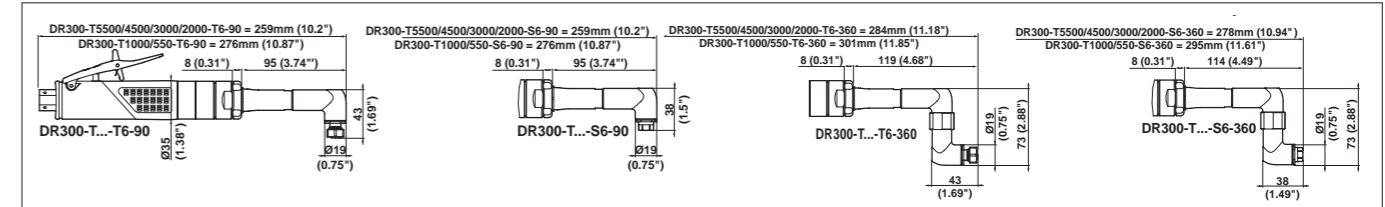
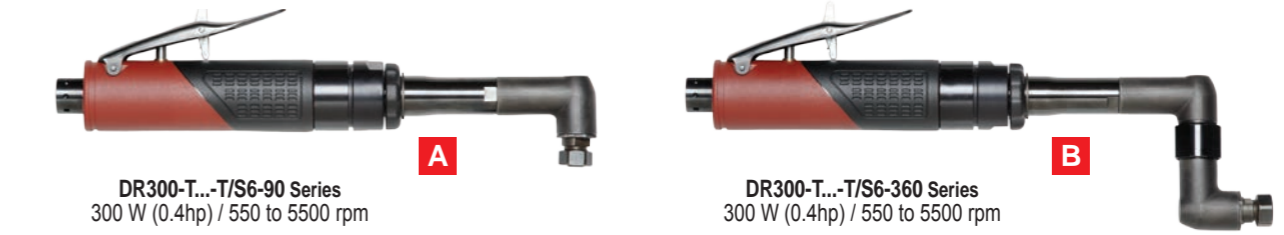
ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER	WEIGHT	
					rpm	W hp	kg lb	
30° - COLLET SPINDLE								
A	DR300-T5500-T5-30	205 147 539 4	DR300-T5500-S5-30	205 147 540 4	5500	300 0.4	0.62	1.36
A	DR300-T4500-T5-30	205 147 537 4	DR300-T4500-S5-30	205 147 538 4	4500	300 0.4	0.62	1.36
A	DR300-T3000-T5-30	205 147 535 4	DR300-T3000-S5-30	205 147 536 4	3000	300 0.4	0.62	1.36
A	DR300-T2000-T5-30	205 147 533 4	DR300-T2000-S5-30	205 147 534 4	2000	300 0.4	0.62	1.36
A	DR300-T1000-T5-30	205 147 531 4	DR300-T1000-S5-30	205 147 532 4	1000	300 0.4	0.70	1.54
45° - COLLET SPINDLE								
B	DR300-T5500-T5-45	205 147 580 4	DR300-T5500-S5-45	205 147 581 4	5500	300 0.4	0.68	1.50
B	DR300-T4500-T5-45	205 147 577 4	DR300-T4500-S5-45	205 147 578 4	4500	300 0.4	0.68	1.50
B	DR300-T3000-T5-45	205 147 574 4	DR300-T3000-S5-45	205 147 575 4	3000	300 0.4	0.68	1.50
B	DR300-T2000-T5-45	205 147 571 4	DR300-T2000-S5-45	205 147 572 4	2000	300 0.4	0.68	1.50
B	DR300-T1000-T5-45	205 147 568 4	DR300-T1000-S5-45	205 147 569 4	1000	300 0.4	0.76	1.67
B	DR300-T550-T5-45	205 147 565 4	DR300-T550-S5-45	205 147 566 4	550	300 0.4	0.76	1.67
90° - COLLET SPINDLE								
C	DR300-T5500-T5-90	205 147 551 4	DR300-T5500-S5-90	205 147 552 4	5500	300 0.4	0.62	1.36
C	DR300-T4500-T5-90	205 147 549 4	DR300-T4500-S5-90	205 147 550 4	4500	300 0.4	0.62	1.36
C	DR300-T3000-T5-90	205 147 547 4	DR300-T3000-S5-90	205 147 548 4	3000	300 0.4	0.62	1.36
C	DR300-T2000-T5-90	205 147 545 4	DR300-T2000-S5-90	205 147 546 4	2000	300 0.4	0.62	1.36
C	DR300-T1000-T5-90	205 147 543 4	DR300-T1000-S5-90	205 147 544 4	1000	300 0.4	0.70	1.54
360° - COLLET SPINDLE								
D	DR300-T5500-T5-360	205 147 563 4	DR300-T5500-S5-360	205 147 564 4	5500	300 0.4	0.70	1.54
D	DR300-T4500-T5-360	205 147 561 4	DR300-T4500-S5-360	205 147 562 4	4500	300 0.4	0.70	1.54
D	DR300-T3000-T5-360	205 147 559 4	DR300-T3000-S5-360	205 147 560 4	3000	300 0.4	0.70	1.54
D	DR300-T2000-T5-360	205 147 557 4	DR300-T2000-S5-360	205 147 558 4	2000	300 0.4	0.70	1.54
D	DR300-T1000-T5-360	205 147 555 4	DR300-T1000-S5-360	205 147 556 4	1000	300 0.4	0.78	1.72

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Standard Head - Max capacity: 6.4mm (1/4")
Collet & 1/4" x 28 Spindle



ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER	WEIGHT	
					rpm	W hp	kg lb	
90° - COLLET SPINDLE								
A	DR300-T5500-T6-90	205 147 598 4	DR300-T5500-S6-90	205 147 599 4	5500	300 0.4	0.68	1.50
A	DR300-T4500-T6-90	205 147 595 4	DR300-T4500-S6-90	205 147 596 4	4500	300 0.4	0.68	1.50
A	DR300-T3000-T6-90	205 147 592 4	DR300-T3000-S6-90	205 147 593 4	3000	300 0.4	0.68	1.50
A	DR300-T2000-T6-90	205 147 589 4	DR300-T2000-S6-90	205 147 590 4	2000	300 0.4	0.68	1.50
A	DR300-T1000-T6-90	205 147 586 4	DR300-T1000-S6-90	205 147 587 4	1000	300 0.4	0.76	1.67
A	DR300-T550-T6-90	205 147 583 4	DR300-T550-S6-90	205 147 584 4	550	300 0.4	0.76	1.67
90° - 1/4" x 28 SPINDLE								
A	DR300-T5500-T6-90	205 147 598 4	DR300-T5500-S6-90	205 147 599 4	5500	300 0.4	0.68	1.50
A	DR300-T4500-T6-90	205 147 595 4	DR300-T4500-S6-90	205 147 596 4	4500	300 0.4	0.68	1.50
A	DR300-T3000-T6-90	205 147 592 4	DR300-T3000-S6-90	205 147 593 4	3000	300 0.4	0.68	1.50
A	DR300-T2000-T6-90	205 147 589 4	DR300-T2000-S6-90	205 147 590 4	2000	300 0.4	0.68	1.50
A	DR300-T1000-T6-90	205 147 586 4	DR300-T1000-S6-90	205 147 587 4	1000	300 0.4	0.76	1.67
A	DR300-T550-T6-90	205 147 583 4	DR300-T550-S6-90	205 147 584 4	550	300 0.4	0.76	1.67
360° - COLLET SPINDLE								
B	DR300-T5500-T6-360	205 147 616 4	DR300-T5500-S6-360	205 147 617 4	5500	300 0.4	0.77	1.70
B	DR300-T4500-T6-360	205 147 613 4	DR300-T4500-S6-360	205 147 614 4	4500	300 0.4	0.77	1.70
B	DR300-T3000-T6-360	205 147 610 4	DR300-T3000-S6-360	205 147 611 4	3000	300 0.4	0.77	1.70
B	DR300-T2000-T6-360	205 147 607 4	DR300-T2000-S6-360	205 147 608 4	2000	300 0.4	0.77	1.70
B	DR300-T1000-T6-360	205 147 604 4	DR300-T1000-S6-360	205 147 605 4	1000	300 0.4	0.85	1.87
B	DR300-T550-T6-360	205 147 601 4	DR300-T550-S6-360	205 147 602 4	550	300 0.4	0.85	1.87

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Heavy Duty 90° Angle Head



ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER	WEIGHT		LENGTH		AIR FLOW	AIR INLET
			rpm	W hp	kg lb	mm in.	mm in.	l/s cfm.	in.	
90° - COLLET SPINDLE Max capacity: 8mm (5/16")										
A	DR300-T2000-THD-90	615 176 043 0	2000	300 0.4	0.65 1.43	200 7.9	7.9	9.5	20	1/4
A	DR300-T900-THD-90	615 176 044 0	900	300 0.4	0.65 1.43	215 8.5	8.5	9.5	20	1/4
90° - KEY CHUCK Max capacity: 8mm (5/16")										
B	DR300-T2000-CHD-90	615 176 045 0	2000	300 0.4	0.77 1.50	200 7.9	7.9	9.5	20	1/4
B	DR300-T900-CHD-90	615 176 046 0	900	300 0.4	0.77 1.50	215 8.5	8.5	9.5	20	1/4

All models: Air flow: Hose int. 6 mm (1/4")

Accessories for Angle Drills

Collet for Compact Angle Drills DR300-T5.. - Maximum capacity: 5 mm (3/16")

COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 0.8mm	2152	ø 1.8mm	2252	ø 2.8mm	2352	ø 3.8mm	2452	ø 4.8mm	2552
ø 0.9mm	2162	ø 1.9mm	2262	ø 2.9mm	2362	ø 3.9mm	2462	ø 4.9mm	2562
ø 1.0mm	2172	ø 2.0mm	2272	ø 3.0mm	2372	ø 4.0mm	2472	ø 5.0mm	2572
ø 1.1mm	2182	ø 2.1mm	2282	ø 3.1mm	2382	ø 4.1mm	2482	ø 1/16"	91442
ø 1.2mm	2192	ø 2.2mm	2292	ø 3.2mm	2392	ø 4.2mm	2492	ø 3/32"	91452
ø 1.3mm	2202	ø 2.3mm	2302	ø 3.3mm	2402	ø 4.3mm	2502	ø 1/8"	91462
ø 1.4mm	2212	ø 2.4mm	2312	ø 3.4mm	2412	ø 4.4mm	2512	ø 5/32"	91472
ø 1.5mm	2222	ø 2.5mm	2322	ø 3.5mm	2422	ø 4.5mm	2522	ø 11/64"	108172
ø 1.6mm	2232	ø 2.6mm	2332	ø 3.6mm	2432	ø 4.6mm	2532	ø 3/16"	91482
ø 1.7mm	2242	ø 2.7mm	2342	ø 3.7mm	2442	ø 4.7mm	2542		

Collet for Standard Angle Drills DR300-T6.. - Maximum capacity: 6.4 mm (1/4")

COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922	ø 3.0mm	18992	ø 4.4mm (11/64")	19072	ø 5.8mm	19152
ø 1.8mm	18932	ø 3.2mm (1/8")	19002	ø 4.6mm	19082	ø 6.0mm (15/64")	19162
ø 2.0mm (5/64")	18942	ø 3.4mm	19022	ø 4.8mm (3/16")	19092	ø 6.2mm	19172
ø 2.2mm	18952	ø 3.6mm (9/64")	19032	ø 5.0mm	19102	ø 6.4mm (1/4")	19182
ø 2.4mm	18962	ø 3.8mm	19042	ø 5.2mm (13/64")	19122		
ø 2.6mm	18972	ø 4.0mm (5/32")	19052	ø 5.4mm	19132		
ø 2.8mm (7/64")	18982	ø 4.2mm	19062	ø 5.6mm (7/32")	19142		

Collet for Heavy Duty Angle Drills DR300-THD.. - Maximum capacity: 8 mm (5/16")

COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 2.4mm (3/32")	2592	ø 4.0mm (5/32")	2672	ø 5.6mm	2752	ø 7.2mm	2832
ø 2.6mm	2602	ø 4.2mm	2682	ø 5.8mm	2762	ø 7.4mm	2842
ø 2.8mm (7/64")	2612	ø 4.4mm	2692	ø 6.0mm	2772	ø 7.6mm	2852
ø 3.0mm	2622	ø 4.6mm	2702	ø 6.2mm	2782	ø 7.8mm	2862
ø 3.2mm (1/8")	2632	ø 4.8mm (3/16")	2712	ø 6.4 (1/4")	2792	ø 8.0mm (5/16")	2872
ø 3.4mm	2642	ø 5.0mm	2722	ø 6.6mm	2802		
ø 3.6mm (9/64")	2652	ø 5.2mm	2732	ø 6.8mm	2812		
ø 3.8mm	2662	ø 5.4mm	2742	ø 7.0mm	2822		

ACCESSORIES INCLUDED

ITEM	COMPACT DR300-T5..	STANDARD DR300-T6..	COMPACT DR300-S5	STANDARD DR300-S6	HEAVY DUTY DR300-THD	DR300-SHD
1 ø 4.8mm (3/16") capacity collet	2552					
2 ø 6.4mm (1/4") capacity collet		19182				
3 ø 8mm (5/16") capacity collet					2872	
4 Chuck threaded 3/8" UNF - cap 8mm (5/16") with key						205 053 013 3
Chuck key						410213
5 Safety lever	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3
Flat wrench 8-9.5mm	268263					
Flat wrenches 10mm		82623				

OPTIONAL ACCESSORIES

VACUUM KIT for 90° angle head drills	COMPACT ANGLE HEAD	STANDARD ANGLE HEAD
All DR300-T...-T5/S5-90	+	205 147 989 4
All DR300-T...-T6/S6-90	+	205 147 991 4

OTHER OPTIONAL ACCESSORIES

ITEM	DR300-T5..	DR300-T6..	DR300-THD..	DR300-SHD..
6 Inlet button with lever recess plugs	205 050 454 3	205 050 454 3	205 050 454 3	
7 Short lever	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3
8 Side handle				205 049 446 3

Pistol Grip Drills



Wide range of pistol drills with best in class power-to-weight ratio

How to make the right selection?



1
Material drilled



2
Diameter



3
Tool power & speed



4
Accessory for each application

Tool range

Our range covers a wide range of applications to answer all your requirements



Straight Grip Drills



A

DR300 Series
300 W (0.4hp) / 550 to 20000 rpm

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/H CHUCK		LENGHT	
						rpm	W	hp	Nm	in.lb	kg	lb	mm
DR300 - KEY CHUCK					DR300 - WITHOUT CHUCK								
A	DR300-T20000-C8	205 147 496 4	DR300-T20000	205 147 495 4	20000	300	0.4	0.6	5.3	0.34	0.75	145	5.71
A	DR300-T5500-C8	205 147 493 4	DR300-T5500	205 147 492 4	5500	300	0.4	2.3	20.4	0.47	1.04	159	6.26
A	DR300-T4500-C8	205 147 490 4	DR300-T4500	205 147 489 4	4500	300	0.4	2.7	23.9	0.47	1.04	159	6.26
A	DR300-T3000-C8	205 147 487 4	DR300-T3000	205 147 486 4	3000	300	0.4	4.0	35.4	0.47	1.04	159	6.26
A	DR300-T2000-C8	205 147 484 4	DR300-T2000	205 147 483 4	2000	300	0.4	5.4	47.8	0.47	1.04	159	6.26
A	DR300-T1000-C10	205 147 481 4	DR300-T1000	205 147 480 4	1000	300	0.4	12.7	112.4	0.52	1.15	176	6.93
A	DR300-T550-C10	205 147 478 4	DR300-T550	205 147 477 4	550	300	0.4	18.6	164.6	0.52	1.15	176	6.93

All models DR300: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / Chuck spindle 3/8" x 24 UNF

ACCESSORIES INCLUDED

ITEM	DR300-P...C8	DR300-P...C10
1 Keyed chuck 3/8" UNF - cap 8mm (5/16") (with key)	205 053 013 3	-
1 Keyed chuck 3/8" UNF - cap 10mm (3/8") (with key)	-	205 052 954 3
• Chuck key	410213	29232
2 Chuck guard for DR300-P...C8	615 049 275 3	-
3 Side handle for DR300-T...C10	-	205 049 446 3
4 Safety lever for DR300-T...	205 050 288 3	205 050 288 3
• Exhaust hose for DR300-T...	205 051 259 3	205 051 259 3

COLOUR IDENTIFICATION	DR300	
	SPEED rpm	PART NO.
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3

COLOUR IDENTIFICATION	DR300	
	SPEED rpm	PART NO.
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3

OPTIONAL ACCESSORIES

ITEM	DR300-T...C8	DR300-T...C10
3 Side handle for DR300-T...C8	205 049 446 3	-
5 Suspension Bail	39433	39433
6 Short lever	205 050 299 3	205 050 299 3
7 Inlet button with lever recess plugs	205 050 454 3	205 050 454 3

Vacuum & Color Identification

VACUUM



VACUUMS

- Efficient Vacuum system to collect harmful drilling dust & burrs.
- Easy adaptation to standard tool.
- Easy to use.
- Available both for DR350 & DR500.
- 2 shroud sizes 20 & 40mm.



VACUUM KIT		DR350	DR500
• Shroud Ø 20mm	+	205 147 985 4	205 147 987 4
• Shroud Ø 40mm	+	205 147 986 4	205 147 988 4

COMPACT ANGLE DRILLS	STANDARD ANGLE DRILLS
205 147 989 4	205 147 991 4

COLOUR IDENTIFICATION

COLOUR IDENTIFICATION	DR300 / DR350	
	SPEED rpm	PART NO.
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3
Grey	-	-



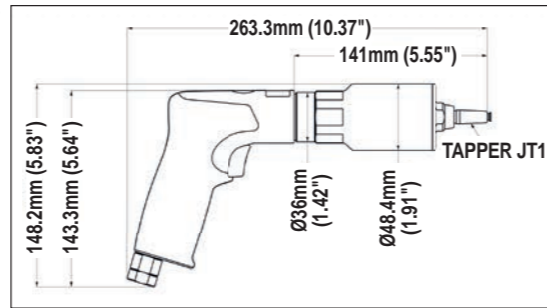
COLOR RINGS
Error-proof your production line with an easy identification your tool speed

Tappers



A

T500 Series
0.5kW (0.68hp) / 400 & 600 rpm



PIC REF	MODEL	PART NUMBER	FREE SPEED	REVERSE SPEED	MOTOR POWER		MAX. TAPPING TORQUE		WEIGHT		LENGTH		AIR FLOW		AIR INLET
					kW	hp	STEEL	ALUMINIUM	kg	lb	mm	in.	l/s	cfm	

TAPPERS

A	T500-P400	205 147 995 4	400	800	0.5	0.68	M10	M12	0.64	1.4	263	10.35	14	30	1/4
A	T500-P600	205 147 996 4	600	1200	0.5	0.86	M10	M12	0.64	1.4	263	10.35	14	30	1/4

All models T500-P: Hose int. 10 mm (3/8")



OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Keyed chuck (1JT) - 0,8 to 10mm (3/8") (with key) T500-P400	29042
1	Keyed chuck (1JT) - 0,5 to 6,5mm (1/4") (with key) T500-P600	29492
	• Chuck key - T500-P400	29232
	• Chuck key - T500-P600	410213
2	Precision collet tap holder (including collet cap. M3 to M8)	29452
	• Collet capacity M3 to M7 (1/8" to 9/32")	29482
	• Collet capacity M4 to M8 (5/32" to 5/16")	29472
3	Collet capacity M6 to M12 (15/64" to 15/32")	97982
4	Tap Holder (1 JT)	69922
5	Quick Release Chuck (1 JT)	16852
6	Quick Release Tap Holder (1 JT)	69872

Collets for Tap Holders:

TAP SIZE		BA	SHANK DIA.		PART NO
mm	in.		mm	in.	
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

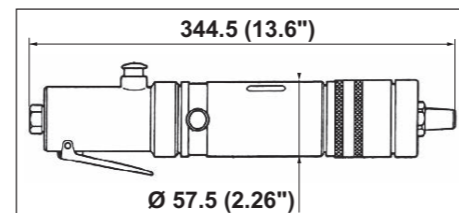
*2mm A/F hexagon key for Tap Holder grub screws

206773



A

2H16 Series
Variable speed setting
90 to 500 rpm - 47 to 240 Nm



PIC REF	MODEL	PART NUMBER	LOW SPEED SETTING	HIGH SPEED SETTING	MAX. TAPPING TORQUE		WEIGHT		AIR FLOW		AIR INLET
					LOW SPEED	HIGH SPEED	kg	lb	l/s	cfm	

TAPPERS

A	2H16-L-160/500-B18	1434264	130	500	140	103	47	34.7	3.1	6.8	15.6	33	3/8
A	2H16-L-90/250-B18	1434344	90	250	240	177	90	66.4	3.1	6.8	15.6	33	3/8

All models 2H16-L: Hose int. 10mm (3/8")

Deburring tools & Rivet Shaver



A

C27 Serie
150 rpm
Collet size 6,4mm (1/4")



B

RS500 Series
18500 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET SIZE		MAXIMUM CUTTER DIA.		WEIGHT		LENGTH		AIR FLOW		AIR INLET	HOSE INT. Ø	
				mm	in.	mm	in.	kg	lb	mm	in.	l/s	cfm	in.	mm	in.

HOLE DEBURRING TOOLS – LEVER START (integral speed regulator)

A	C27-LX-1500	615 176 047 0	150	6.4 (1/4")*	-	-	0.59	1.31	235	9.25	9.5	20	1/4	6	1/4
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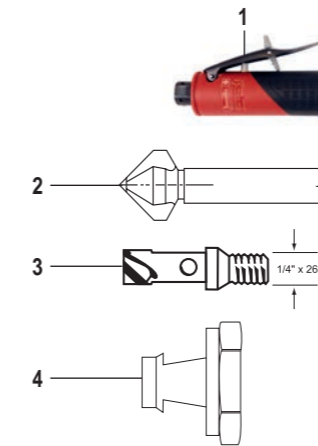
RIVET SHAVER (for accessory 1/4"-26 WHIT)

B	RS500-P18500	205 148 130 4	18500	-	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8
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RIVET SHAVER (for accessory 1/4"-28 UNF)

B	RS500-P18500	205 148 129 4	18500	-	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8
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*: If speed adjustment is needed, you can do it with flow regulator PN LC121737



ACCESSORIES INCLUDED

ITEM	C27-LX	RS500
• ø 6.4mm (1/4") capacity collet	615 526 059 0	
1 Safety lever	205 050 288 3	
• Exhaust hose (with clamp ring)	205 051 259 3	
2 Cutter (90° point) – 10mm dia	91572	
3 Cutter – carbide tipped (11.1mm 7/16" dia)		70602
4 Cutter Guard		18822
• Suspension Bail	39433	
• Exhaust hose	222453	
• Exhaust Hose Clip	235203	
• Collet Nut Wrench	18583	
• Collet Spindle Wrench	159003	15533
• Cutter Guard Wrench		38873
• Bit stop	322053	

OPTIONAL ACCESSORIES

ITEM	RS500
3 Cutter – carbide tipped ø6.4mm (ø1/4")	70572
3 Cutter – carbide tipped ø7.9mm (ø5/16")	70582
3 Cutter – carbide tipped ø9.5mm (ø3/8")	70592
3 Cutter – carbide tipped ø12.7mm (ø1/2")	70622
4 Cutter Guard ø6.4mm (ø1/4")	18782
4 Cutter Guard ø7.9mm (ø5/16")	18792
4 Cutter Guard ø9.5mm (ø3/8")	18802
4 Cutter Guard ø12.7mm (ø1/2")	18832
4 Cutter Guard ø14.3mm (ø9/16")	18842

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.



■ **RFD-100**
Speed range 60 to 2800 rpm
102mm (4") adjustable stroke
13mm (1/2") chuck capacity

■ **RFD-125**
Speed range 60 to 800 rpm
127mm (5") adjustable stroke
No. 2 Morse taper spindle

How to select your tool?

- 1 Select material
- 2 Select hole size
- 3 Select tool

RFD Selection

DRILL Ø	TOOL TYPE - RPM			
	Inconel	1 Titanium	Mild Steel	Aluminium
3mm - 1/8"	RFD(T)-330/500	RFD(T)-500	RFD-2800	RFD-2800
5mm - 3/16"	RFD(T)-140/330	RFD(T)-330/500	RFD-1850	RFD-2800
6mm - 1/4"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD-1850
8mm - 5/16"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD(T)-800
10mm - 3/8" 2	RFD(T)-85/140	RFD(T)-140 3	RFD(T)-800	RFD(T)-800
13mm - 1/2"	RFD(T)-60/85	RFD(T)-85/140	RFD(T)-500	RFD(T)-800
16mm - 5/8"		RFD(T)-85/140	RFD(T)-330	RFD(T)-800
19mm - 3/4"		RFD(T)-60/85	RFD(T)-85/140	RFD(T)-330/500
25mm - 1"			RFD(T)-60/85	RFD(T)-140/330

Use selection data as a guide only

MODEL	PART NUMBER	FREE SPEED	MAX STROKE		OUTPUT SPINDLE	CHUCK SPINDLE	LENGTH		WEIGHT		AIR FLOW		AIR INLET
			mm	in.			mm	in.	kg	lb	l/s	cfm	
RFD													
RFD-100-2800	681214	2800	102	4	1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4	
RFD-100-1850	681394	1850	102	4	1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4	
RFD-100-800	680084	800	102	4	Chuck	5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-100-500	680164	500	102	4	13mm	5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-100-330	680244	330	102	4	(1/2") capacity	5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-100-140	1457364	140	102	4	capacity	5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-100-85	1457374	85	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-100-60	1457384	60	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	1/4	
RFD-125													
RFD-125-800	1445654	800	127	5			764	30.08	5.5	12.1	11.8	1/4	
RFD-125-500	1445664	500	127	5	No. 2		764	30.08	5.5	12.1	11.8	1/4	
RFD-125-330	1445674	330	127	5	Morse		764	30.08	5.5	12.1	11.8	1/4	
RFD-125-140	1445504	140	127	5	Taper		764	30.08	5.5	12.1	11.8	1/4	
RFD-125-85	1445514	85	127	5			764	30.08	5.5	12.1	11.8	1/4	
RFD-125-60	1445524	60	127	5			764	30.08	5.5	12.1	11.8	1/4	

All models: Hose int. 10 mm (3/8")

Accessories

ACCESSORIES INCLUDED

	PART NUMBER	
	RFD	RFD-125
• Chuck with key capacity 13mm (1/2")	29142	-
• Extended Nose (1" x 14 LH nose thread)	251043	-
• Bayonet Plate - 45mm (1.77") centres	251063	-
• Bayonet Plate - 76mm (2.99") centres	-	35223

OPTIONAL ACCESSORIES

For more details on the following Part Numbers, please contact your local Desoutter representative

Bayonet Plates

	A	Ø B	C
Locating centres - 38mm (1.50")	3/4" x 16 (LH)	14.2mm (0.559")	9.5mm (3/8")
Locating centres - 45mm (1.77")	1" x 14 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres - 45mm (1.77")	1 1/8" x 20 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres - 76mm (2.99")	2 3/32" x 16 (LH)	38.1mm (1.150")	12.7mm (1/2")

Nose Attachments

NOSE TYPE	TO SUIT BAYONET PLATE CENTRES	THREAD 'A'
1	38mm (1.50")	3/4" x 16 (LH)
2	38mm (1.50")	3/4" x 16 (LH)
3	45mm (1.77")	1" x 14 (LH)
3	-	1-1/4" x 12 (LH)
3	-	2" x 16 (LH)

Extension Tubes

NOMINAL STROKE AVAILABLE TO DRILL	LENGTH 'A'
• 80mm (3.15")	170mm (6.69")

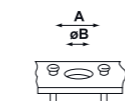
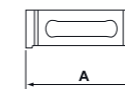
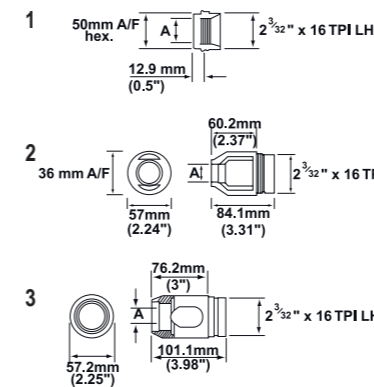
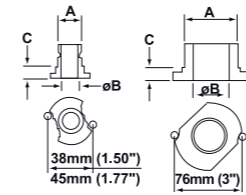
Jig Plates

CENTRE "A"
38mm (1.50")
45mm (1.77")

Drill bushes

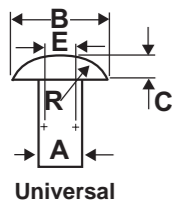
ATTACHMENT	"Ø B"
ø 14.2mm	Ø 10 to 14mm
ø 19.05mm	Ø 10 to 18mm
ø 38.01mm	Ø 22 to 35mm

For dimension 'ØB' please ask for details of our range of drill bushes



Compression Tools - Riveting

Rivet dimensions

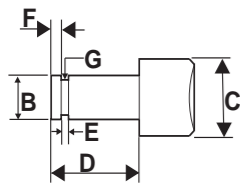


A		B		C		R		E	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
UNIVERSAL									
2.4	3/32"	4.75	0.187	1.04	0.041	2.08	0.082	1.19	0.047
3.2	1/8"	6.45	0.250	1.37	0.054	2.74	0.108	1.60	0.063
4.0	5/32"	7.92	0.312	1.70	0.067	3.43	0.135	1.98	0.078
4.8	3/16"	9.53	0.375	2.08	0.082	4.17	0.164	2.39	0.094
6.4	1/4"	12.70	0.500	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

Rivet set shank (CR1/CR2)

SHANK DIMENSIONS FOR RIVET SETS

For CP0214, CP0351 and CP0341 Compression Riveters



TYPE OF RIVET SET SHANK	B		C*		D		E		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
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

* 'C' dimension is for flush set only. 'C' varies on cupped sets according to rivet size and type of head.

Rivet set length calculation

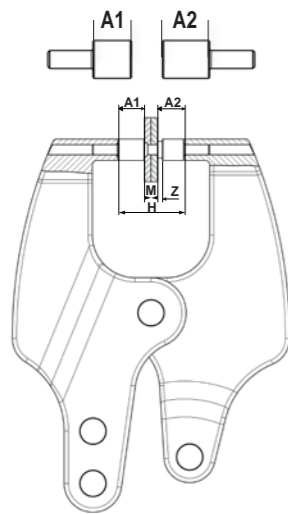
To develop maximum power, the riveter must drive (set) the rivet at the end of the riveter's stroke
For maximum power the combined length of the two rivet sets must be of the correct length

$$A1 + A2 = H - M - Z$$

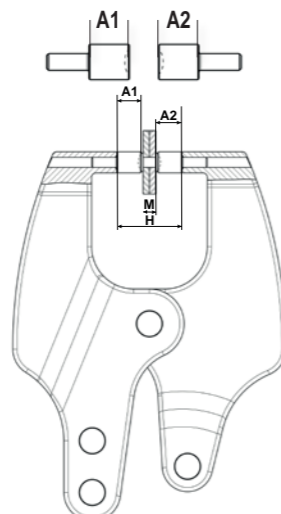
A1: Rivet set thickness (mobile jaw)
A2: Rivet set thickness (fix jaw)

H= Opening at the end of the riveting
M= Total thickness of material to be assembled

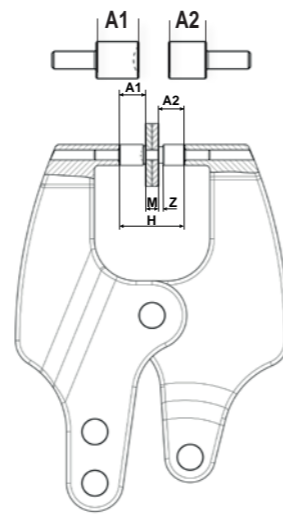
Z= height of finished rivet head (flush)



Two Flushed rivet sets



Two cupped rivet sets
Z = 0



1 flushed rivet + cupped rivet set

Rivet set Selection

CUPPED SETS

RIVET DIAMETER		'A' BODY		AN-470 UNIVERSAL
mm	in.	mm	in.	

CR-1 SHANK RIVET SETS FOR CP0214 and CP0351 - CUPPED SETS

(C-Yoke tools - CP0214 CELEL, FALEL, CUDEL, FUEDEL + all Alligator Yoke tools)

2.4	3/32"	6.4	1/4	P089430
2.4	3/32"	9.5	3/8	P089431
2.4	3/32"	12.7	1/2	P089432
3.2	1/8"	6.4	1/4	P089435
3.2	1/8"	9.5	3/8	P089436
3.2	1/8"	12.7	1/2	P089437
4.0	5/32"	6.4	1/4	P089440
4.0	5/32"	9.5	3/8	P089441
4.0	5/32"	12.7	1/2	P089442
4.8	3/16"	6.4	1/4	P089445
4.8	3/16"	9.5	3/8	P089446
4.8	3/16"	12.7	1/2	P089447

CR-2 SHANK RIVET SETS FOR CP0214 and CP0341 - CUPPED SETS

(C-Yoke tools - CP0214 SETEL, KETEL + CP0341 CUDEL)

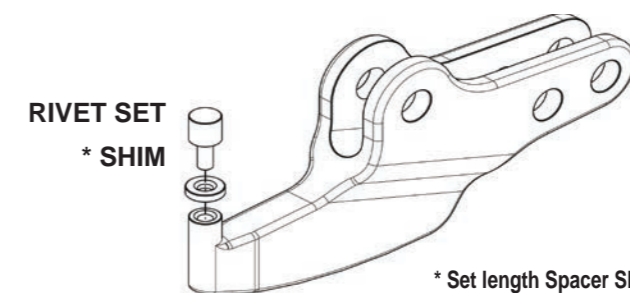
3.2	1/8"	6.4	1/4	P089510
3.2	1/8"	9.5	3/8	P089511
3.2	1/8"	12.7	1/2	P089512
4.0	5/32"	6.4	1/4	P089515
4.0	5/32"	9.5	3/8	P089516
4.0	5/32"	12.7	1/2	P089517
4.8	3/16"	6.4	1/4	P089520
4.8	3/16"	9.5	3/8	P089521
4.8	3/16"	12.7	1/2	P089522
6.4	1/4"	6.4	1/4	P089525
6.4	1/4"	9.5	3/8	P089526
6.4	1/4"	12.7	1/2	P089527

FLUSH SETS for any rivet size

SHANK SIZE	'A' BODY LENGTH					
	3.2mm (1/8")	6.4mm (1/4")	9.5mm (3/8")	12.7mm (1/2")	15.8mm (5/8")	19mm (3/4")
CR-1 (ø 4.8mm 3/16")	P089495	P089496	P089497	P089498	P089499	P089500
CR-2 (ø 6.4mm 1/4")	-	P089501	P089502	P089503	P089504	-

SOFT SETS BLANKS

TYPE OF RIVET SET SHANK	A BODY LENGTH		B BODY DIA.		PART NO.
	mm	in.	mm	in.	
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



RIVET SET

* SHIM

* Set length Spacer Shims

SET LENGTH SPACER SHIMS

TYPE OF RIVET SET SHANK	PART NUMBER OF HARDENED SHIMS		
	0.4mm (1/64")	0.8mm (1/32")	1.6mm (1/16")
CR-1	P083254	P083255	P083256
CR-2	-	P083257	-

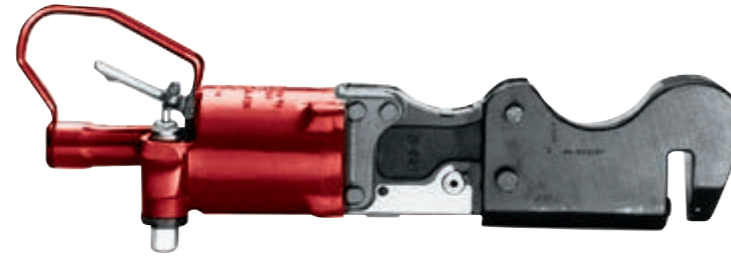
RIVET SET

TYPE OF RIVET SET SHANK	RETAINER RING
	PART NO.
CR-1	P071916
CR-2	P071917

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	205 146 721 4	4.8	3/16	5.2	13/64	47.6	1-7/8	24.0	5400	12.7	1/2

Riveting Hammers



- Wide range of hammers suitable for all applications.
- Recoilless series for better operator's comfort.
- Progressive trigger for better control.

Compression Tools – Edge Former

CP0351-CABH-DY

- Forming Capacity (max material thickness) – 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

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

How to select the right tool?



1
Rivet
Light/Hard Material
Diameter



2
Application
accessibility



3
Operation repetitiveness
Low vibration level



4
Rivet set
selection

Tool range

Our range covers a wide range of applications to answer all your requirements



Riveting Hammers

Selection guide



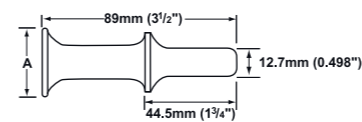
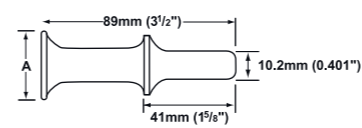
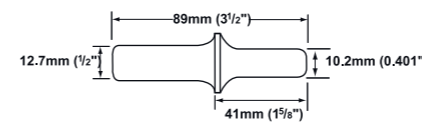
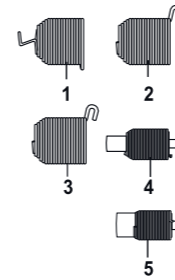
PIC REF	MODEL	PART NUMBER	AIR FRAME REF	BLOW PER MINUTE	BORE & STROKE		ENERGY PER BLOW		CHISEL SHANK		RIVET CAPACITY		WEIGHT		AIR INLET	HOSE INT. Ø		
					mm (in.)	J	ft.lb	mm	in.	mm (in.)	mm (in.)	kg	lb	in.		mm	in.	
Standard																		
A	CP4444-1	205 147 938 4	2X (200)	2580	15 x 40 (19/32 x 1.47)	4.4	3.2	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.6	1/8	10	3/8		
B	CP4444-RURAB	T022961	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.0	2.2	1/4	10	3/8		
B	CP4444-RUSAB	T022962	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.1	2.3	1/4	10	3/8		
B	CP4444-RUTAB	T022963	4X (240)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.3	2.7	1/4	10	3/8		
C	CP4447-RUSAB	T022965	5XB (500)	1560	19.1 x 68.3 (3/4 x 2-11/16)	12.3	9.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	2.2	4.7	1/4	10	3/8		
C	CP4447-RUTAB	T022912	7XB (700)	1140	19.1 x 98.4 (3/4 x 3-7/8)	17.8	13.1	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.3	5.1	1/4	10	3/8		
C	CP4447-RUVAB	T022964	9XB (800)	900	19.1 x 147.6 (3/4 x 5-13/16)	26.6	19.6	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.7	9.0	1/4	10	3/8		
Vibration reduced																		
D	CP4450-2	T025189	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.7	1/4	10	3/8		
D	CP4450-3	T025190	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.3	2.8	1/4	10	3/8		
D	CP4450-4	T025191	4X (400)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.5	3.2	1/4	10	3/8		
E	CP4475-3	T025241	5XB (500)	2000	19.1 x 76.2 (3/4 x 3)	13.7	10.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	1.8	3.9	1/4	10	3/8		
E	CP4475-4	T025242	7XB (700)	1700	19.1 x 101.6 (3/4 x 4)	18.3	13.5	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.4	5.3	1/4	10	3/8		
E	CP4475-6	T025243	9XB (800)	1250	19.1 x 152.4 (3/4 x 6)	27.5	20.3	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.8	6.2	1/4	10	3/8		

* LIGHT: Aluminium 2017 / 2117 (DCJ-DXJ / D-AD)

** HARD: Aluminium 7050 (DKJ / KE / E) (M) (T)

Dimensions

Model	A		Model	A		B		C		D	
	mm	in.		mm	in.	mm	in.	mm	in.	mm	in.
CP4444-1	111	4.4	CP4450-2	213	8.4	32	1.26	102	4.0	138	5.4
CP4444-RURAB	170	6.7	CP4450-3	226	8.9	32	1.26	102	4.0	138	5.4
CP4444-RUSAB	186	7.3	CP4450-4	251	9.9	60	2.36	102	4.0	138	5.4
CP4444-RUTAB	211	8.3	CP4475-3	275	10.8	54	2.13	180	7.1	140	5.5
CP4447-RUSAB	227	8.9	CP4475-4	300	11.8	79	3.11	180	7.1	140	5.5
CP4447-RUTAB	252	9.9	CP4475-6	351	13.8	130	5.12	180	7.1	140	5.5
CP4447-RUVAB	303	11.9									



Accessories

CP4444 / CP4447 / CP4450 / CP4475

ACCESSORIES INCLUDED		PART NUMBER		
	CP4444-1	CP4444 CP4450	CP4447 CP4475	
• Light wire quick change retainer	205 053 564 3	A046095	-	
• Wire quick change retainer	-	-	A047095	
OPTIONAL ACCESSORIES				
ITEM	CP4444 CP4450	CP4447 CP4475		
1 Zip-Quick retainer	A046094	-		
2 Beehive retainer	A046096	A047096		
3 Beehive retainer	-	A046096		
4 Nail driving attachment for 20-60 penny nail size (for CP4447-RUSAB & CP4475)	-	P042448		
5 Nail driving attachment for 1/2" spikes (for CP4447-RUVAB)	-	P047810		

CP4444 / CP4450

TYPE I RIVET SETS Ø 10.2MM (.401")

RIVET HEAD CUPPING	2.4MM (3/32")	3.2MM (1/8")	4.0MM (5/32")	4.8MM (3/16")	6.4MM (1/4")
• Universal	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 (.401")

	ØA MM (IN.)	CP4444/4450 Ø10.2 (0.401") SHANK
•	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 (.498")

RIVET HEAD CUPPING	4.8MM (3/16")	6.4MM (1/4")	6.4MM (1/4")
• Universal	P089252	P089253	P089254*
• Soft blank set	P070995	-	-
• Hardened blank set	P080198	-	-

* Must use Light Wire Quick-Change Retainer, A047095

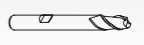
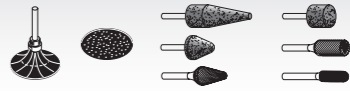
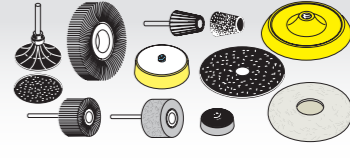
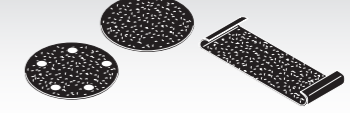
TYPE I FLUSH RIVET SETS Ø 12.7MM (.498")

	ØA MM (IN.)	SHANK Ø12.7MM (0.498")
•	31.8 (1-1/4)	A047091

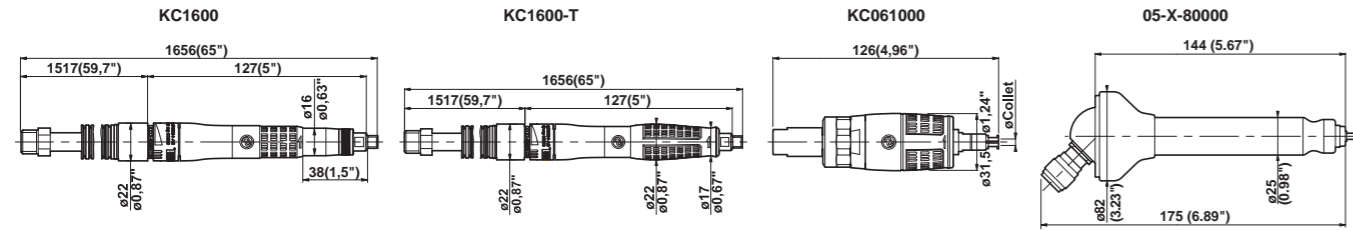
Removal Tools



Removal Tools - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
GRINDERS: for carbide burrs, mounted points & sanding discs 		198-205
ROUTERS 		206
COLLET GRINDER ACCESSORIES		207
GRINDERS: for cone wheels, type 1 wheels, depressed center wheels, cut-off wheels, diamond discs, flap wheels 		208-223
SANDERS: for expandable wheels, flap wheels, brushes, abrasive discs 		224-233
DUST EXTRACTION SYSTEMS: for straight and angle grinders for angle and vertical sanders 		234-241
RANDOM ORBITAL SANDERS AND POLISHERS: for abrasive discs and polishing accessories ORBITAL SANDERS: for abrasive sheets 		242-253
BELT SANDERS 		254-255

Accessories



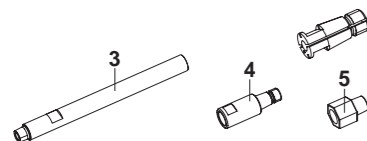
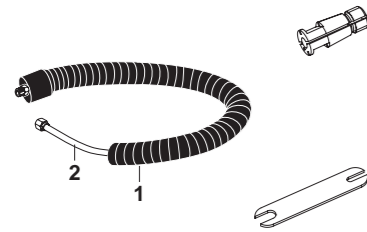
KC1600-T / KC1600

ACCESSORIES INCLUDED

ITEM	PART NO.
• Collet \varnothing 3 mm	205 047 961 3
1 Exhaust kit - L = 1m (39.4")	615 396 405 0
2 Mounted inlet hose 1/4" BSP - \varnothing 6mm (1/4") - L = 1.5m (59")	615 875 119 0
• Spanner (Qty 2)	205 047 965 3
• Carrying case (for T version only)	P137979

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Collet \varnothing 2.38 mm (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



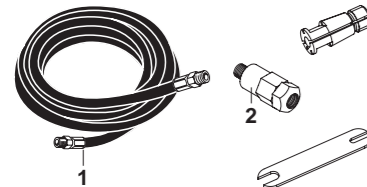
KC061000 / 05-X-80000

ACCESSORIES INCLUDED

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

OPTIONAL ACCESSORIES

	KC061000	05-X-80000
• Collet \varnothing 2.38mm (3/32")	205 048 059 3	9792
1 Complete inlet hose 1/4"M - 1/8"M-BSP, \varnothing 5mm (3/16") L = 3m (118")		75922



Grinders for carbide burrs and mounted points

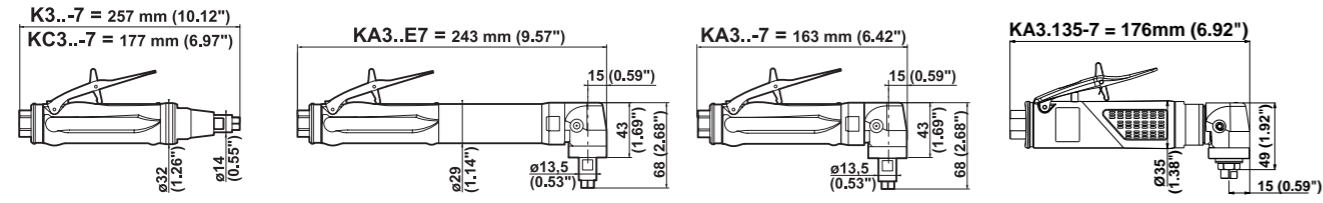
44 to 100 Watts (0.06 to 0.13 hp) - 60000 to 100000 rpm



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. \varnothing	
				mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.	
PENCIL DIE GRINDERS															
A	KC1600-T	615 170 313 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4	
B	KC1600	615 170 315 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4	
TURBINE GRINDERS															
C	KC061000	205 146 638 4	100000	3.00		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	0.30	0.66	2.8	5.9	1/8	5	3/16	

Accessories

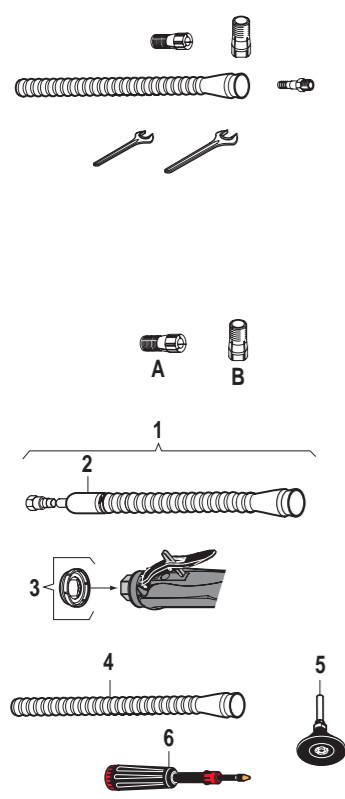


K3..-7 / KC3..-7 / KA3..E7 / KA3..-7 / KA3.135-7

ACCESSORIES INCLUDED	K3.. / KC3.. / KA3..	KA3.135
• CNOMO collet ϕ 6 mm	615 526 046 0	615 526 079 0
• 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	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Flat wrench, 10mm (25/64")	615 801 002 0	615 801 002 0
• Flat wrench, 11mm (7/16")	615 801 003 0	
• Flat wrench, 14mm		615 801 005 0

OPTIONAL ACCESSORIES

ITEM	A	B
	K3.. / KC3.. / KA3..	KA3.135
• Collet ϕ 2 mm		615 526 066 0
• CNOMO collet ϕ 2.5 mm	615 526 089 0	615 526 068 0
• CNOMO collet ϕ 3 mm	615 526 044 0	615 526 069 0
• CNOMO collet ϕ 3.2 mm (1/8")	615 526 045 0	
• Collet ϕ 3.5mm		615 526 070 0
• CNOMO collet ϕ 4 mm (5/32")	615 526 090 0	615 526 071 0
• CNOMO collet ϕ 4.5 mm		615 526 073 0
• CNOMO collet ϕ 5 mm	615 526 092 0	615 526 075 0
• Collet ϕ 5.5mm		615 526 077 0
• CNOMO collet ϕ 6.4 mm (1/4")	615 526 047 0	
• Collet ϕ 6.5mm		615 526 081 0
• Collet ϕ 7mm		615 526 083 0
• Collet ϕ 7.5mm		615 526 084 0
• Collet ϕ 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 ϕ 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 and 375 Watts (0.4 and 0.5 hp) - 12000 to 40000 rpm

Supplied with CNOMO collet, ϕ 6mm



A



B



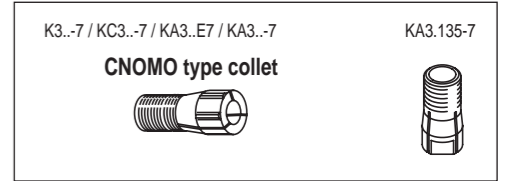
C



D



E



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

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

STRAIGHT GRINDERS

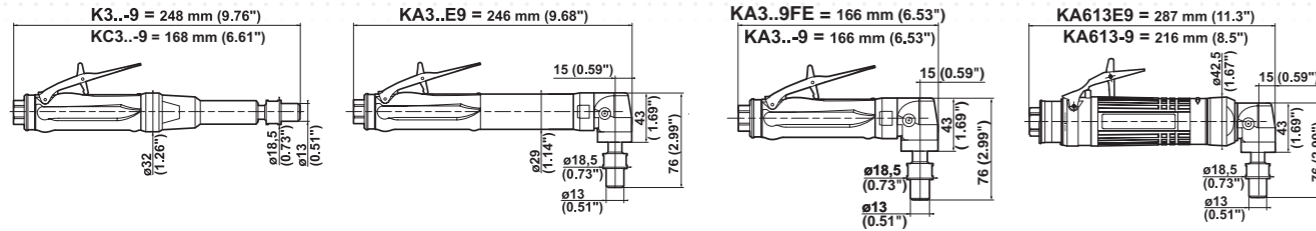
A	K340-7	615 170 036 0	40000	6.4	1/4	375	0.5	0.58	1.28	7.5	16.0	10.0	21	1/4	8	5/16
A	K331-7	615 170 035 0	31000	6.4	1/4	375	0.5	0.58	1.28	4.5	9.5	9.5	20	1/4	8	5/16
A	K325-7	615 170 034 0	25000	6.4	1/4	375	0.5	0.58	1.28	3.5	7.5	9.5	20	1/4	8	5/16
A	K320-7	615 170 033 0	20000	6.4	1/4	375	0.5	0.58	1.28	2.5	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
E	KA3.135-7	615 170 515 0	13500	8.0	5/16	300	0.4	0.60	1.30	9.5	20.0			1/4	6	1/4



Accessories



4734 / K3..-9 / KC3..-9 / KA3..E9 / KA3..-9 / KA3..-9FE

ITEM	4734	K3..-9 / KC3..-9 / KA3..E9 / KA3..-9	KA3..-9FE
• Series 300 resilient collet, ø 5.55 to 6.35mm (1/4")	8482	615 526 059 0	615 526 059 0
• Exhaust hose L = 0.8m (31")	222453	615 875 106 0	
• Clamp	235203		
• 1/4" air hose nipple for 8mm (5/16") ID hose		615 704 019 0	615 704 019 0
1 Clippable silencer			615 396 124 0
• Flat wrench, 11mm (7/16")	199003	615 801 003 0	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Flat wrench, 16mm (5/8" A/F)	18583		

OPTIONAL ACCESSORIES

ITEM	K3..-9 / KC3..-9 / KA3..E9 / KA3..-9	KA3..-9FE
• Series 300 resilient collet, ø 0.4 to 1.2mm	615 526 052 0	615 526 052 0
• Series 300 resilient collet, ø 1.2 to 2mm	615 526 053 0	615 526 053 0
• Series 300 resilient collet, ø 1.7 to 2.5mm	615 526 054 0	615 526 054 0
• Series 300 resilient collet, ø 2.4 to 3.2mm (1/8")	615 526 055 0	615 526 055 0
• Series 300 resilient collet, ø 3.16 to 3.96mm	615 526 056 0	615 526 056 0
• Series 300 resilient collet, ø 3.95 to 4.75mm	615 526 057 0	615 526 057 0
• Series 300 resilient collet, ø 4.75 to 5.55mm	615 526 058 0	615 526 058 0
2 Exhaust hose L = 0.8 m (31")		615 875 106 0
3 Complete silencer kit	615 396 101 0	615 396 101 0
4 Silencer	615 574 028 0	615 574 028 0
1 Clippable silencer	615 396 124 0	
5 Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0	615 990 149 0
• Grease for bevel gear (1kg - 2.2 lb.)	615 990 148 0	615 990 148 0

KA613E9 / KA613-9

ACCESSORIES INCLUDED

	PART NO.
• Series 300 resilient collet, ø 5.55 to 6.35mm (1/4")	615 526 059 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, 11mm (7/16")	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0

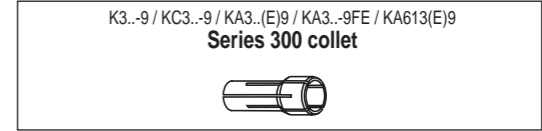
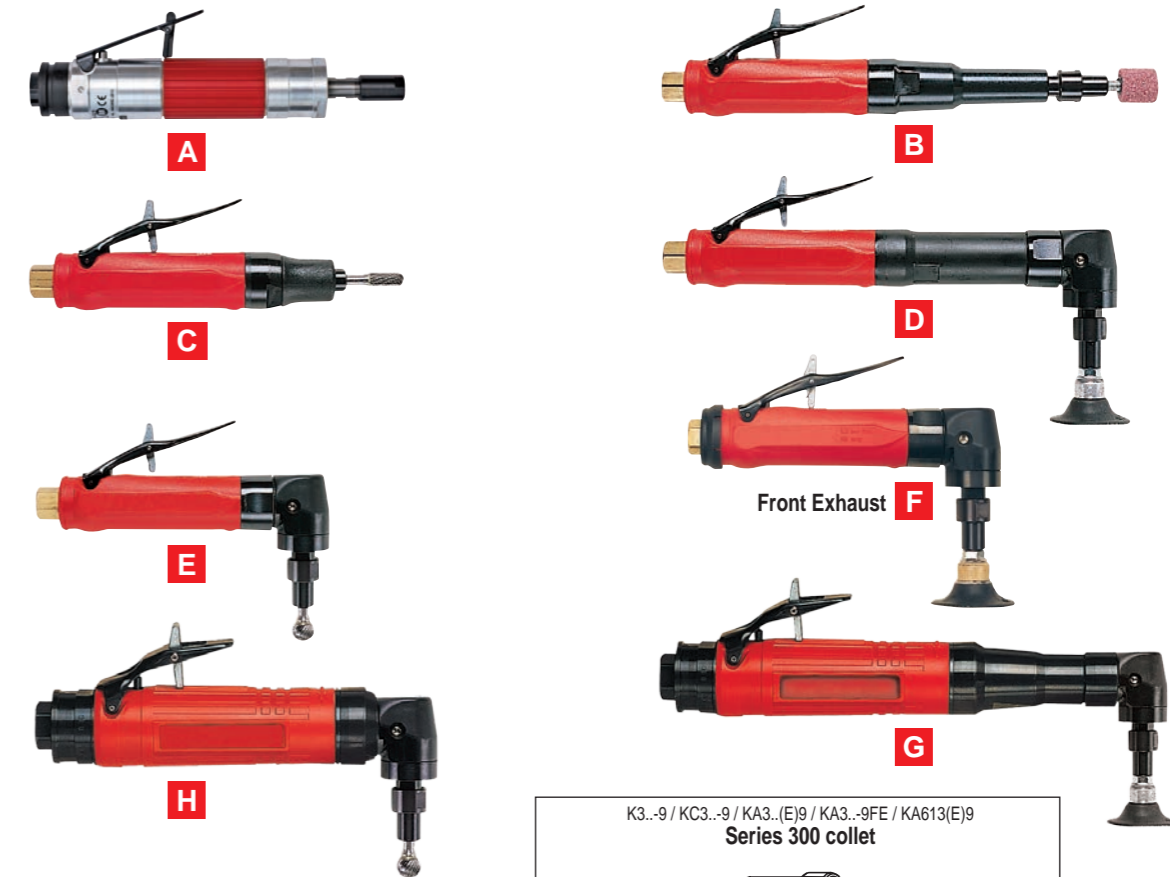
OPTIONAL ACCESSORIES

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
1 Complete silencer kit	615 396 166 0
2 Clamp	615 873 115 0
3 Clippable silencer	615 396 655 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
• Grease for bevel gear (1 kg - 2.2 lb.)	615 990 148 0

Grinders for carbide burrs, mounted points and sanding discs

300 to 600 Watts (0.4 to 0.8 hp) - 9000 to 40000 rpm

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



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

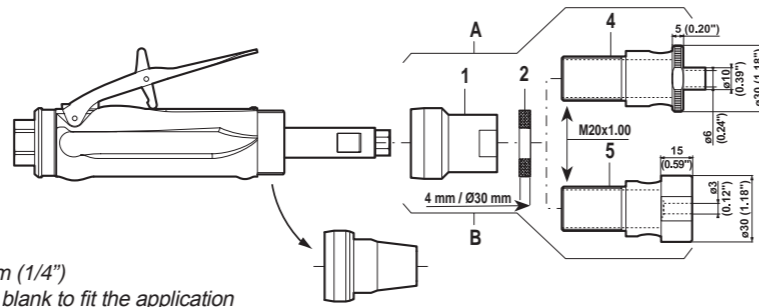
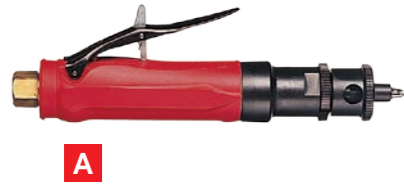
PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER	WEIGHT	AIR CONSUMPTION				AIR INLET THREAD	HOSE INT Ø			
				rpm	mm			in.	W	hp	kg		lb.	AT FREE SPEED	AT MAX OUTPUT	in.
STRAIGHT GRINDERS																
A	4734	4734	20000	6.35	1/4	300	0.4	0.60	1.32	8.5	18	10	21	1/4	10	3/8
B	K340-9	615 170 139 0	40000	6.35	1/4	375	0.5	0.57	1.26	7.5	16	10	21	1/4	8	5/16
B	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
B	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
B	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
C	KC340-9	615 170 143 0	40000	6.35	1/4	375	0.5	0.38	0.84	7.5	16	10	21	1/4	8	5/16
C	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
C	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
C	KC320-9	615 170 027 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
C	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																
D	KA320E9	615 170 146 0	20000	6.35	1/4	375	0.5	0.61	1.35	6.5	13.5	10	21	1/4	8	5/16
D	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
E	KA320-9	615 170 148 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	KA318-9	615 170 461 0	18000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	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
E	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
F	KA320-9FE*	615 170 206 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
F	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
G	KA613E9	615 170 136 0	13000	6.35	1/4	600	0.8	1.40	3.10	10	21	15	32	3/8	10	3/8
H	KA613-9	615 170 135 0	13000	6.35	1/4	600	0.8	1.10	2.40	10	21	15	32	3/8	10	3/8

* Front Exhaust models

Routers

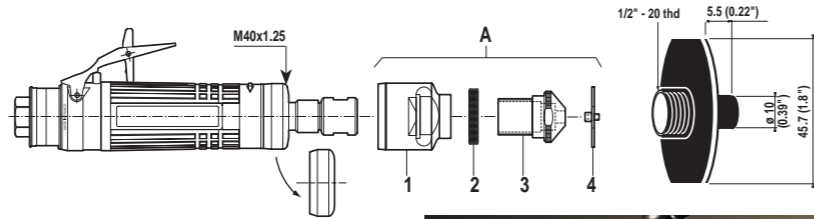
375 to 900 Watts (0.5 to 1.21 hp) - 12000 to 40000 rpm

375 W (0.5hp) - 20000 to 40000 rpm
CNOMO type collet



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



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		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.		ROUTING KIT	
			W	hp	CNOMO COLLET (-7)	SERIES 200 COLLET (-9)	MACHINED	BLANK

375 W (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		+		
A	KC325-7	25000	375	0.5	615 170 030 0		+		
A	KC320-7	20000	375	0.5	615 170 029 0		+		

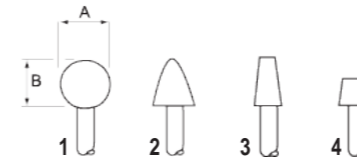
600 - 900 W (0.8 - 1.21 HP) - CNOMO TYPE OR SERIES 200 COLLET

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	+		
B	KC922-	22000	900	1.21	615 170 130 0	615 170 160 0	+		
B	KC619-	19000	600	0.80	615 170 124 0	615 170 161 0	+		
B	KC918-	18000	900	1.21	615 170 129 0	615 170 162 0	+		
B	KC615-	15000	600	0.80	615 170 123 0	615 170 163 0	+		
B	KC915-	15000	900	1.21	615 170 128 0	615 170 164 0	+		
B	KC912-	12000	900	1.21	615 170 127 0	615 170 165 0	+		

Collet Grinder Accessories



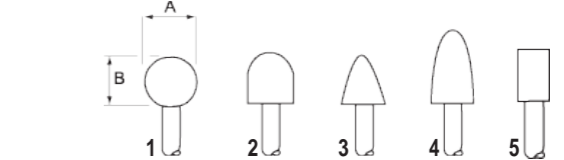
Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.



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	105000	4	0.16	4	0.16	38562
4	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	38000	25	1.00	3	0.11	436043

RECOMMENDED SPEEDS FOR TUNGSTEN CARBIDE BURRS - rpm x 1000

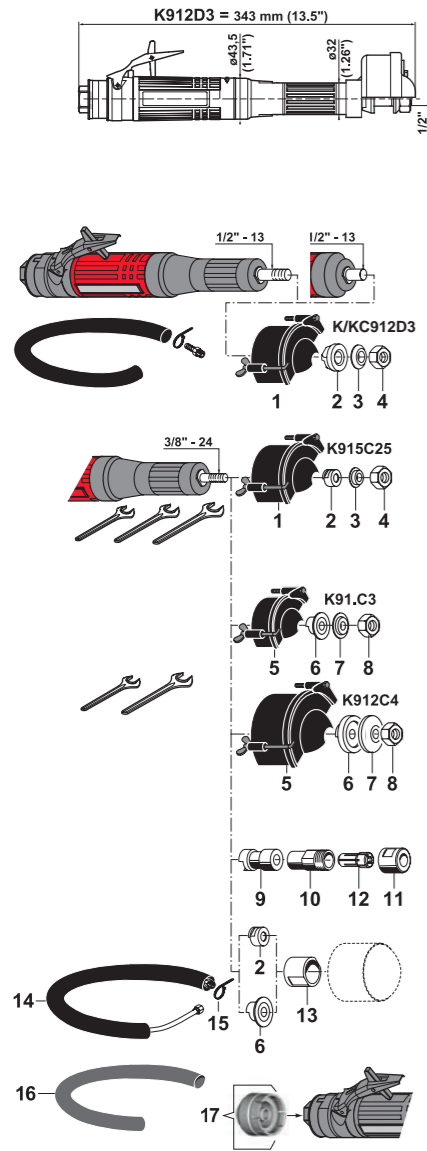
MATERIAL	HEAD DIAMETER				
	3mm (1/8")	6mm (1/4")	10mm (3/8")	13mm (1/2")	16mm (5/8")
Alum, Zinc Base, Plastics	30-90	15-70	10-50	17-38	6-30
Cast Iron, Brass, Copper, Bronze	45-90	23-60	15-40	11-30	9-24
Mild Steel	60-90	45-60	30-40	22-30	18-24
Titanium, Stainless, Hardened Steels, Ceramics	60-90	30-45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

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



Accessories



K9..

ACCESSORIES INCLUDED

ITEM	K/KC912D3 Ø 80mm (3")	K915C25 Ø 63mm (2 1/2")
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
• Clamp	615 873 415 0	615 873 415 0
• 3/8" air hose nipple for 10mm ID hose	615 704 017 0	615 704 017 0
1 Wheel guard for K912D3	615 504 151 0	615 504 150 0
1 Wheel guard for KC912D3	615 504 214 0	
2 Rear flange	615 503 127 0	615 503 126 0
3 Front flange	615 502 044 0	615 502 043 0
4 Locknut	615 608 045 0	615 608 044 0
• Flat wrench 17mm (1-1/16")		615 801 032 0
• Flat wrench 14.3mm (9/16")		615 801 074 0
• Flat wrench 19mm (3/4")	615 801 076 0	

ITEM	K91.C3 Ø 80mm (3")	K912C4 Ø 100mm (4")
5 Wheel guard	615 504 151 0	615 504 152 0
6 Rear flange	615 503 125 0	615 503 131 0
7 Front flange	615 502 013 0	615 502 063 0
8 Locknut	615 608 044 0	615 608 044 0
• Flat wrench. 14.3mm (9/16")	615 801 074 0	615 801 074 0
• Flat wrench. 19mm (3/4")	615 801 076 0	615 801 076 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
9 Spacer for collet-holder	615 666 149 0
10 Series 200 collet-holder	615 523 023 0
11 Series 200 collet nut	615 607 144 0
12 Series 200 Erickson collet	(see page 202)
13 Spacer for threaded cone wheel 3/8"	615 503 516 0
• Rear flange supplied with tool 615 503 125 0 or 615 503 126 0	
14 Complete silencer kit	615 396 166 0
15 Clamp	615 873 115 0
16 Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
17 Clippable silencer	615 396 655 0



Grinders for cone wheels and type 1 wheels Ø 63mm (2-1/2") - Ø 80mm (3") - Ø 100mm (4")

900 Watts (1.21 hp) - 12000 to 18000 rpm



A



B



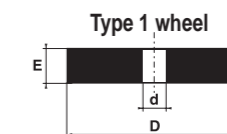
C



D

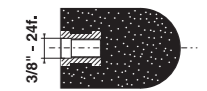


E



Type 1 wheel

Wheel type 16 - 18 - 18R and 19



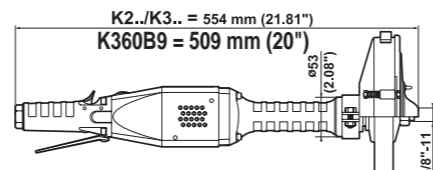
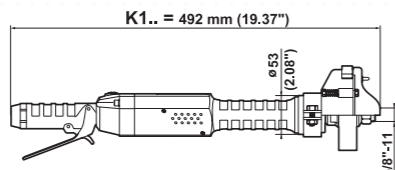
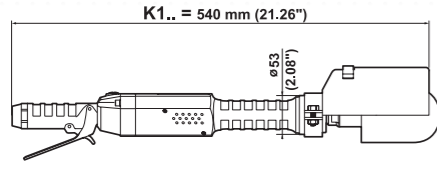
* Reinforced resinoid wheel

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

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER	WEIGHT	AIR CONSUMPTION				AIR INLET		HOSE INT.		
				DxExd					AT FREE SPEED	AT MAX OUTPUT	THREAD	Ø	mm	in.			
A	K918C3	615 170 118 0	18000	*80x13x9.52	3x1/2x3/8	3/8-24	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	3/8-24	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	3/8-24	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	3/8-24	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	3x25/32x1/2	1/2-13	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
D	KC912D3	615 170 491 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.3	2.9	7	15	16	34	3/8	10	3/8
E	K912C4	615 170 112 0	12000	100x13x9.52	4x1/2x3/8	3/8-24	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 / K190B3CW(CWY) - ø 80mm (3")

ACCESSORIES INCLUDED

ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 080 0
2 Rear flange	615 503 095 0
3 Woodruff key	615 630 019 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0

K190B4 / K.60B6(B6Y) / K145B6 / K345B8(B8Y)

ACCESSORIES INCLUDED

ITEM	K190B4 Ø 100 mm (4")	K.60B6 (B6Y) K145B6 Ø 150 mm (6")	K345B8 (B8Y) Ø 200 mm (8")
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 154 0	615 504 079 0	615 504 078 0
2 Rear flange	615 503 094 0	615 503 028 0	615 503 004 0
3 Front flange	615 502 046 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 (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0

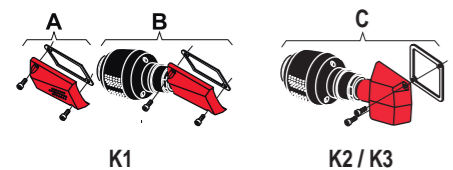
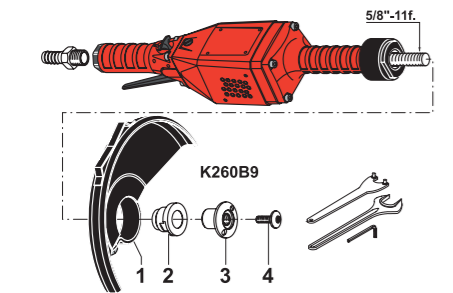
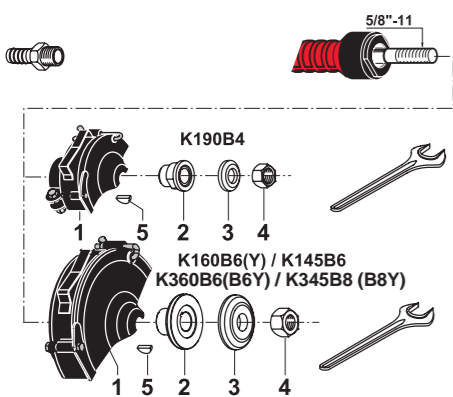
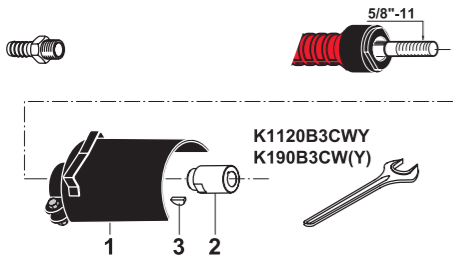
K360B9 - ø 230 mm (9")

ACCESSORIES INCLUDED

ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 161 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 6 mm	615 802 056 0

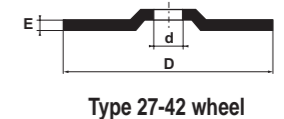
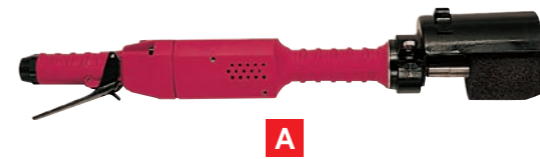
OPTIONAL ACCESSORIES

ITEM	K1..	K2.. / K3..
A Silencer kit	615 399 298 0	
B Silencer kit	615 399 459 0	
C Silencer kit		615 399 460 0



Grinders for cone wheels and type 1 wheels ø 80mm (3") - ø 100mm (4") - ø 150mm (6") - ø 200mm (8") - ø 230mm (9")

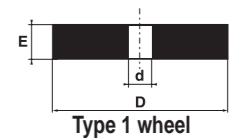
1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 12000 rpm



Type 27-42 wheel



Wheel. type 16 - 18 - 18R and 19



Type 1 wheel

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

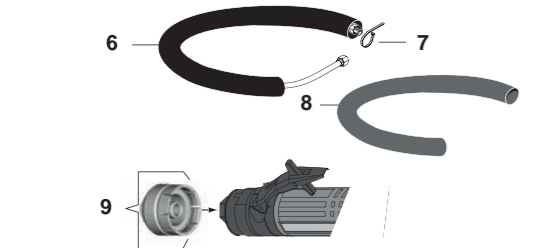
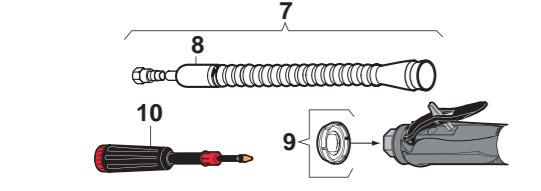
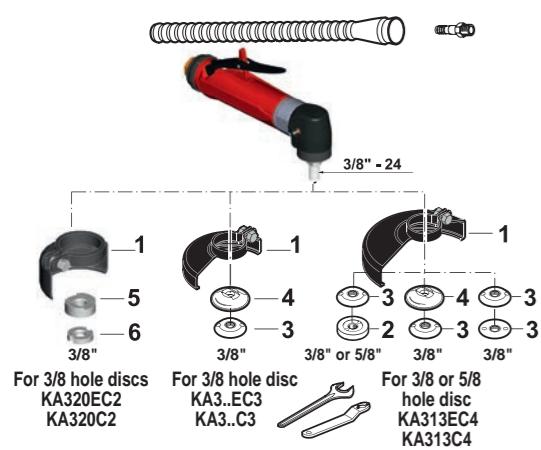
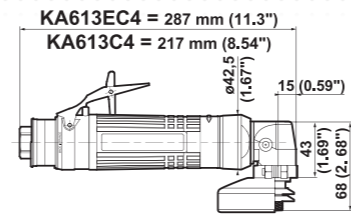
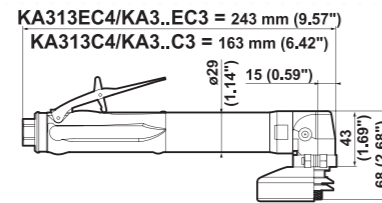
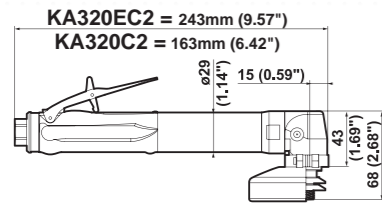
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION		AIR INLET THREAD		HOSE INT. Ø		
				mm	in.		W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K190B3CW	615 170 005 0	9000	80	3	5/8-11	1200	1.61	3.5	7.7	9	19	27	57	1/2	15	5/8
B	K190B4	615 170 004 0	9000	100x25x15.9	4x1x5/8	5/8-11	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	5/8-11	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	5/8-11	1000	1.34	3.5	7.7	5	10	20	42	1/2	15	5/8
D	K360B6	615 170 010 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8	615 170 009 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8
F	K360B9	615 170 521 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	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
C	K160B6Y	615 170 173 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
D	K360B6Y	615 170 177 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8Y	615 170 178 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8

5/8"-11 UNC

Accessories



KA320EC2/C2 / KA3..EC3/C3 / KA313EC4/C4C

ACCESSORIES INCLUDED				
ITEM	KA3..EC2 KA320C2 Ø 51mm (2")	KA3..EC3 KA3..C3 Ø 76mm (3")	KA313EC4 KA313C4 Ø 100mm (4")	
• Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0	615 875 106 0	
• 1/4" air hose nipple for 8mm ID hose	615 704 019 0	615 704 019 0	615 704 019 0	
1 Wheel guard	615 504 207 0	615 504 155 0	615 504 160 0	
2 Flange			615 606 515 0	
3 Flange		615 502 064 0	615 502 064 0	
4 Flange		615 503 144 0	615 503 144 0	
5 Flange	615 502 082 0			
6 Nut	894 016 276 5			
• Pin wrench, 20-3mm		615 802 008 0	615 802 008 0	
• Pin wrench	615 802 008 0			
• Flat wrench, 11mm (7/16")	615 801 003 0	615 801 003 0	615 801 003 0	

OPTIONAL ACCESSORIES		
ITEM		PART NO.
7	Complete silencer kit	615 396 101 0
8	Silencer	615 574 028 0
9	Clippable silencer	615 396 124 0
10	Grease gun includes (24g - 0.8oz)	615 990 149 0
	• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

KA613EC4 / KA613C4 - Ø 100mm (4")

ACCESSORIES INCLUDED		
ITEM		KA613EC4 KA613C4
• Exhaust hose L = 1.5m (60")		615 875 113 0
• Clamp		615 873 415 0
• 3/8" air hose nipple for 10mm ID hose		615 704 017 0
1 Wheel guard		615 504 160 0
2 Flange		615 606 515 0
3 Flange		615 502 064 0
4 Flange		615 503 144 0
5 Grease gun includes (24g - 0.8oz)		615 990 149 0
• Pin wrench, 20-3mm		615 802 008 0
• Flat wrench, 11mm (7/16")		615 801 003 0

OPTIONAL ACCESSORIES		
ITEM		PART NO.
6	Complete silencer kit	615 396 166 0
7	Clamp	615 873 115 0
8	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
9	Clippable silencer	615 396 655 0
	• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels and cut-off wheels

Ø 51mm (2") - Ø 76mm (3") - Ø 100mm (4")

375 and 600 Watts (0.5 and 0.8 hp) - 13000 to 20000 rpm



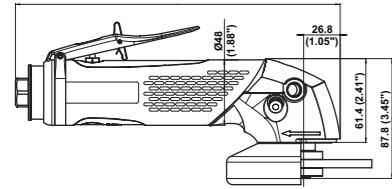
Caution: comply with the speeds recommended by component and abrasive manufacturers

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxD		THREADED SPINDLE	POWER	WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				mm	in.			kg	lb.	AT FREE SPEED	AT MAX OUTPUT	in.	mm	in.			
A	KA320EC2	615 170 487 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16
B	KA320EC3	615 170 046 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16
B	KA318EC3	615 170 045 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	4.5	9.5	9.5	20	1/4	8	5/16
C	KA313EC4	615 170 050 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.83	1.83	3.0	6.5	9.0	19	1/4	8	5/16
D	KA320C2	615 170 488 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16
E	KA320C3	615 170 042 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16
E	KA318C3	615 170 041 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	4.5	9.5	9.5	20	1/4	8	5/16
F	KA313C4	615 170 049 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.66	1.45	3.0	6.5	9.0	19	1/4	8	5/16
G	KA613EC4	615 170 138 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.50	3.30	10.0	21.0	15.0	32	3/8	10	3/8
H	KA613C4	615 170 137 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.20	2.60	10.0	21.0	15.0	32	3/8	10	3/8

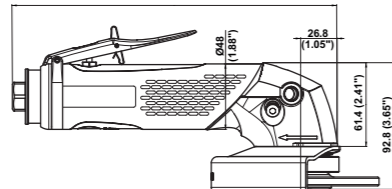
3/8"-24 UNF

Accessories

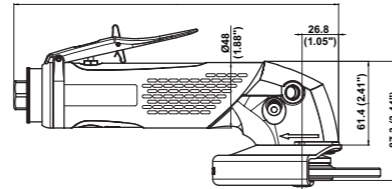
KA16135C4FK = 238mm (9.37")



KA16120A45VK / B45VK = 238mm (9.37")



KA16120A45 / B45 = 238mm (9.37")



KA16135C4FK - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM	KA16135C4FK 3/8"-24
• Complete silencer kit	615 396 166 0
• Clamp	615 263 024 0
• Vibration-damping side handle	615 576 066 0
1 Wheel guard	615 504 196 0
2 Flange (Qty 2)	615 606 515 0
3 Rear flange	615 503 515 0
• Pin wrench 20-3mm	615 802 008 0
• Flat wrench, 16mm (5/8")	615 802 512 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
4 Clippable silencer	615 396 957 0
5 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0

KA16120A45VK - KA16120B45VK - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM	KA16120A45VK M14x2	KA16120B45VK 5/8"-11
• Complete silencer kit	615 396 166 0	615 396 166 0
• Clamp	615 263 024 0	615 263 024 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0
1 Multi-position guard	615 504 195 0	615 504 195 0
2 Auto-balancer	615 990 181 0	615 990 181 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex. key 6.35mm (1/4")	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")	615 875 113 0	615 875 113 0
• Clamp	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
• Side handle	615 576 038 0	615 576 038 0
1 Multi-position guard	615 504 198 0	615 504 198 0
2 Rear flange	615 503 134 0	615 503 141 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 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= 0.75m (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 wheel ø 100mm (4") - ø 115mm (4.5")

1700 Watts (2.3 hp) - 12000 and 13500 rpm



Fixed wheel guard

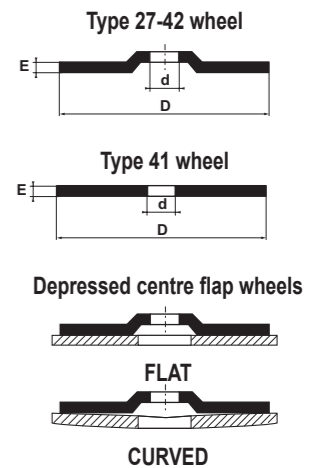
Multi-position guard



A



B

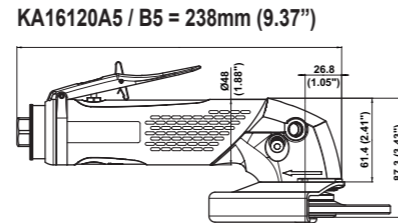
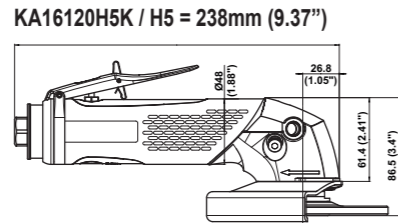
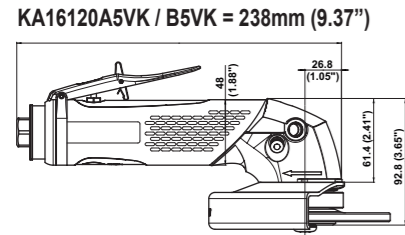


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED rpm	WHEEL MAX CAPACITY D X E X D		THREADED SPINDLE in.	POWER W hp	WEIGHT kg lb.	AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD in.	HOSE INT Ø	
				mm	in.				l/s	cfm	l/s	cfm		mm	in.
				100x6.4x16	4x1/4x5/8	3/8-24	1700 2.3	1.53 3.4	25	53	35	74	3/8	13	1/2
FIXED WHEEL GUARD															
	KA16135C4FK	615 170 441 0	13500	100x6.4x16	4x1/4x5/8	3/8-24	1700 2.3	1.53 3.4	25	53	35	74	3/8	13	1/2
MULTI-POSITION GUARD															
A	KA16120A45VK	615 170 456 0	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700 2.3	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	1700 2.3	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	1700 2.3	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	1700 2.3	1.75 3.9	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

Accessories



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
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	

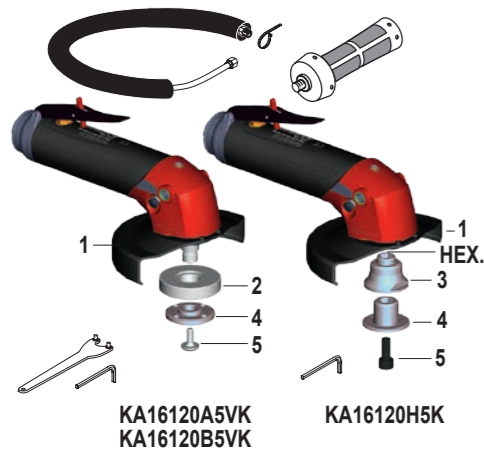
KA16120A5 / B5 / H5 - ø 127mm (5")

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")

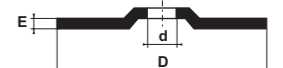
1700 Watts (2.3 hp) - 12000 rpm

Quick wheel change

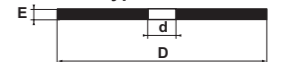
Multi-position guard



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				AIR INLET THREAD		HOSE INT Ø	
				mm	in.			W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm
A	KA16120A5VK	615 170 438 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	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	1700	2.3	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	1700	2.3	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	1700	2.3	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	1700	2.3	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	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2

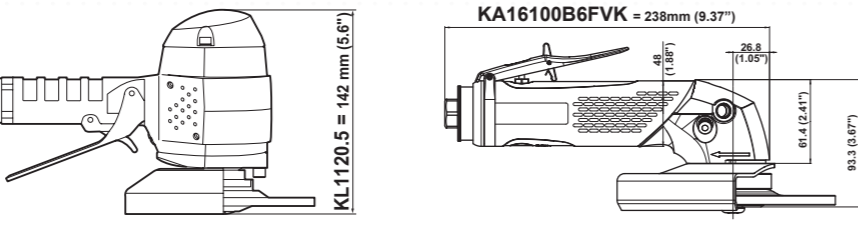
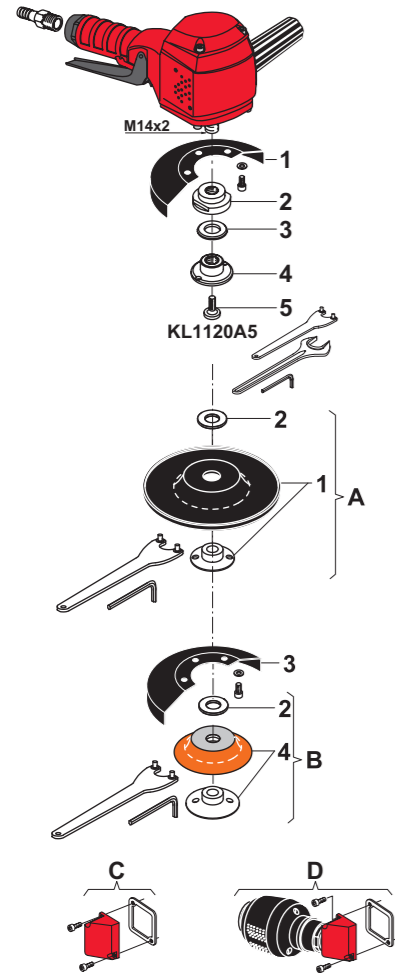
5/8"-11 UNC

Accessories

Grinders for depressed center wheels, cut-off wheels and flap wheels ø 127mm (5") - ø 150mm (6")

750 and 1600 Watts (1 and 2.15 hp) - 10000 and 12000 rpm

Fixed wheel guard



KL1120A5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM	KL1120A5 M14x2 / 5/8"-11
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
1 Wheel guard	615 504 086 0
2 Rear flange	615 503 096 0
3 Washer for wheels thickness <2mm	615 642 052 0
4 Nut	615 606 032 0
5 Safety screw	615 614 033 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

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC ø 127MM (5")		KL1120A M14x2
ITEM		
A Soft sanding kit for abrasive disc (including item 1-2)		615 399 251 0
1 Ventilated backing pad with nut M14 (max. 12000 rpm)		615 990 127 0
• Pin wrench, 35mm (1-3/8")		615 802 010 0
• Hex key 8mm (5/16")		615 802 061 0
2 M14 Spacer		615 641 027 0

SANDING WITH SEMIRIGID DISC ø 127MM (5")		KL1120A M14x2
ITEM		
3 Wheel guard		615 504 086 0
B Sanding kit for semirigid disc (including item 4-2)		615 399 203 0
4 Backing pad with nut M14 (max. 12000 rpm)		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

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
C Silencer kit	615 396 117 0
D Silencer kit	615 399 462 0

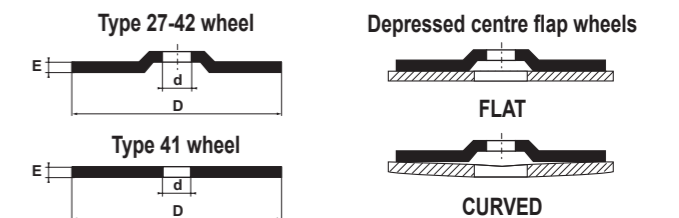
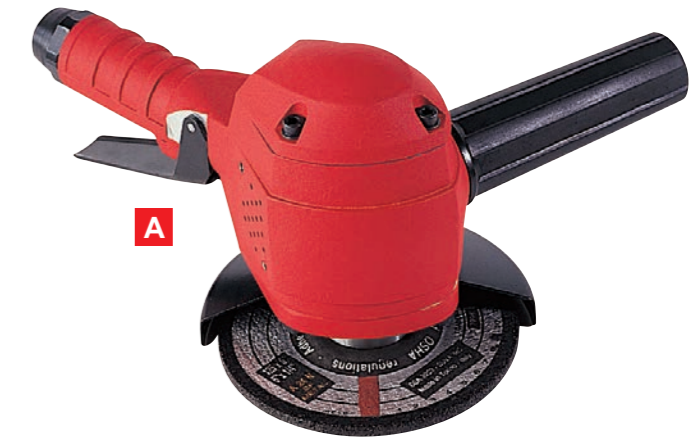
KA16100B6FVK - ø 150mm (6")

ACCESSORIES INCLUDED

ITEM	KA16100B6FVK 5/8"-11
• Complete silencer kit	615 396 166 0
• Vibration-damping side handle	615 576 066 0
• Clamp	615 263 024 0
1 Wheel guard	615 504 202 0
2 Auto-balancer	615 990 181 0
3 Front flange	615 502 067 0
4 Safety screw	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0

OPTIONAL ACCESSORIES

ITEM	KA16100B6FVK
5 Clippable silencer	615 396 957 0
6 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

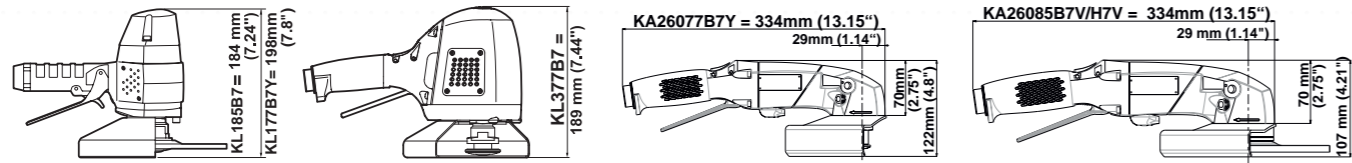


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER	WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT Ø	
				mm	in.			W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm
A	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	10	3/8
B	KA16100B6FVK	615 170 470 0	10000	150x7.0x22.2	6x1/4x7/8	5/8-11	1600	2.15	1.9	4.2	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

Accessories



KL185B7 / KL377B7 / KL177B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KL185B7 Ø 180mm (7")	KL377B7 / V Ø 180mm (7")	KL177B7Y Ø 180mm (7")
• 1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0	
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		615 704 016 0
1 Wheel guard	615 504 095 0	615 504 182 0	615 504 169 0
2 Rear flange for model B7	615 503 103 0	615 503 103 0	615 503 150 0
3 Auto-balancer for model B7V		615 503 146 0	
4 Nut	615 542 104 0	615 542 104 0	615 608 049 0
5 Safety screw	615 614 034 0	615 614 034 0	615 614 034 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	615 801 077 0
• Hex. key 6mm	615 802 056 0	615 802 056 0	615 802 056 0

KL360B6C / KL360B6CY - Ø 150mm (6")

ACCESSORIES INCLUDED

ITEM	KL360B6C	KL360B6CY
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 181 0	615 504 178 0
2 Rear flange	615 503 116 0	615 503 150 0
3 Safety screw	615 614 034 0	
4 Nut		615 608 049 0
• Lever		615 595 202 0
• Flat wrench, 27mm (11/16")	615 801 077 0	
• Hex. key	615 802 056 0	615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM	KL185B7	KL377B7	KL177B7Y
A Silencer	615 399 462 0		615 399 462 0
B Silencer		615 399 463 0	
C Auto-Balancer	615 503 146 0		

KA26085B7V / KA26085H7V / KA26077B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KA26085B7V	KA26085H7V	KA26077B7Y
• Vibration damping side handle	615 576 066 0	615 576 066 0	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
• Rotating exhaust kit	615 397 743 5	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 211 5	615 504 211 5	615 504 213 5
2 Auto-balancer	615 990 181 0	615 990 194 0	
3 Rear flange		615 503 164 0	615 503 153 0
4 Front flange	615 502 067 0	615 502 085 0	
5 Nut 5/8"			615 608 049 0
6 Safety screw	615 614 076 0		615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex key	615 802 056 0	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL177B7Y KA26077B7Y
7 Rear flange	615 503 103 0
8 Nut	615 542 104 0
9 Rear flange balancer	615 503 146 0
10 Safety screw	615 614 034 0
11 Wheel adaptor	C087920
• Pin wrench	615 802 010 0
• Flat wrench	615 801 077 0
• Hex key	615 802 056 0
12 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 180mm (7")

1200 to 3000 Watts (1.61 to 4.02 hp) - 6000 to 8500 rpm

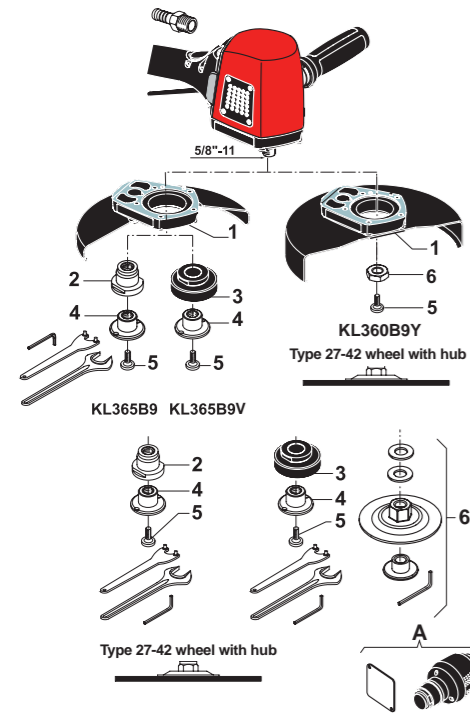
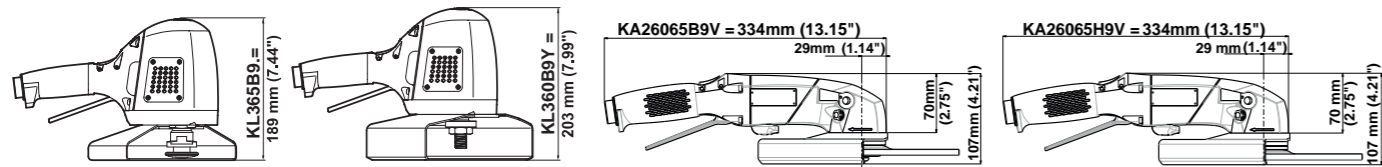


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø	
				D	x		Ex	W	hp	kg	lb.	l/s			cfm
VERTICAL GRINDERS															
A	KL185B7	615 170 012 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	16	34	27	57	1/2 13 1/2
B	KL377B7	615 170 341 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
For USA Market only (to ANSI B186.1)															
C	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 15 5/8
LOW VIBRATION - VERTICAL GRINDERS															
B	KL377B7V	615 170 472 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.3	9.4	19	40	46	97	1/2 15 5/8
VERTICAL GRINDERS for cup wheels															
D	KL360B6C	615 170 337 0	6000	150	6	5/8-11	2400	3.22	4.2	9.2	9	19	39	82	1/2 15 5/8
For USA Market only (to ANSI B186.1)															
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
ANGLE GRINDERS															
E	KA26085B7V	615 170 476 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	5.9	17	36	36	77	1/2 15 5/8
E	KA26085H7V	615 170 489 0	8500	180x9.5x22.2	7x3/8x7/8	HEX.	2100	2.82	2.7	5.9	17	36	36	77	1/2 15 5/8
For USA Market only (to ANSI B186.1)															
F	KA26077B7Y	615 170 478 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	6.6	16	33	32	69	1/2 15 5/8

5/8"-11 UNC

Accessories



KL365B9 / KL365B9V / KL360B9Y - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM	KL365B9 KL365B9V	KL360B9Y
• 1/2" air hose nipple for 16 mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 183 0	615 504 180 0
2 Rear flange for model B9	615 503 103 0	
3 Auto-balancer for model B9V	615 503 146 0	
4 Nut	615 542 104 0	
5 Safety screw	615 614 034 0	615 614 034 0
6 Nut		615 608 049 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
• Hex. Key 6mm	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL365B9	KL360B9Y
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
A Silencer kit	615 399 463 0	615 399 463 0

KA26065B9V / KA26065H9V - Ø 230mm (9")

ACCESSORIES INCLUDED

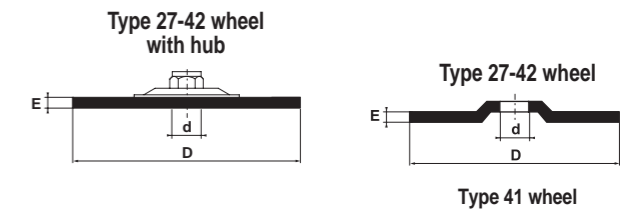
ITEM	KL365B9	KL360B9Y
• Vibration damping side handle	615 576 066 0	615 576 066 0
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 212 5	615 504 212 5
2 Auto-balancer	615 990 181 0	615 990 194 0
3 Rear flange		615 503 164 0
4 Front flange	615 502 067 0	615 502 085 0
5 Safety screw	615 614 076 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
6 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 Ø 230mm (9")

2100 and 2900 Watts (2.82 and 3.89 hp) - 6000 and 6500 rpm

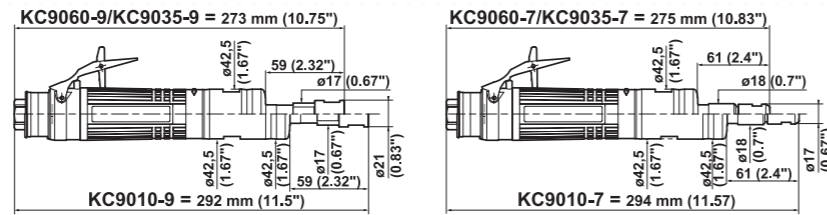


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION		AIR INLET THREAD		HOSE INT. Ø		
				mm	in.		W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
VERTICAL GRINDERS																	
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	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
LOW VIBRATION - VERTICAL GRINDERS																	
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	KA26065B9V	615 170 477 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8
C	KA26065H9V	615 170 490 0	6500	230x6.4x22.2	9x1/4x7/8	HEX.	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8

5/8"-11 UNC

Accessories



KC9060-9 / KC9035-9 / KC9010-9

ACCESSORIES INCLUDED

	PART NO.
• Series 200 resilient collet, \varnothing 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, \varnothing 2.4 to 3.2mm (1/8")	615 526 061 0
• Series 200 resilient collet, \varnothing 5.2 to 6mm	615 526 062 0
• Series 200 resilient collet, \varnothing 7.2 to 8mm (5/16")	615 526 064 0
• Series 200 resilient collet, \varnothing 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 \varnothing 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

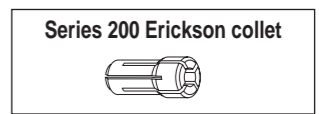
ITEM	PART NO.
• CNOMO collet \varnothing 3mm	615 526 048 0
• CNOMO collet \varnothing 6.35mm (1/4")	615 526 050 0
• CNOMO collet \varnothing 8mm (5/16")	615 526 051 0
1 Nut 3/8" - 24	615 608 044 0
2 Complete silencer kit	615 396 166 0
3 Clamp	615 873 115 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (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, \varnothing 5.55 to 6.35mm (1/4")



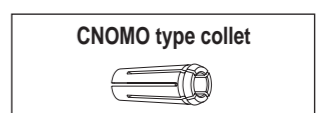
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. \varnothing	
				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

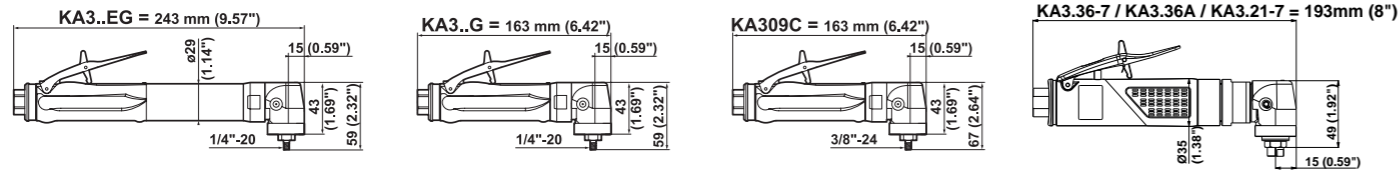
Supplied with CNOMO collet, \varnothing 6mm



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. \varnothing	
				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	

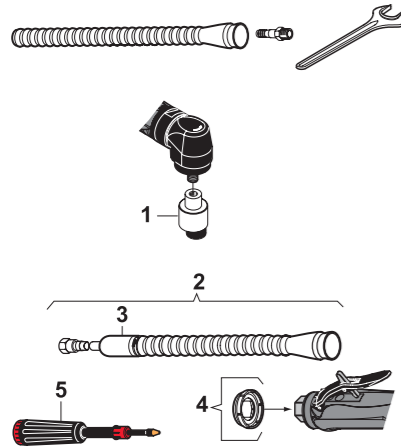
Accessories



Sanders for abrasive discs

220 to 375 Watts (0.3 to 0.5 hp) - 2100 to 20000 rpm

Supplied with 1/4", 3/8" or M14 threaded spindle only



KA3..EG / KA3..G / KA309C

ACCESSORIES INCLUDED

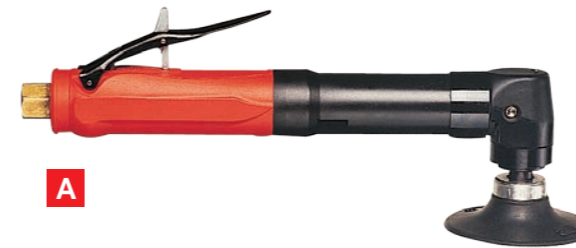
ITEM	PART NO.
• Exhaust hose L = 0.8m (31")	615 875 106 0
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Flat wrench, 11mm (7/16")	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	KA309C 3/8"-24
1 Excentric sanding head for 1" pad	615 396 251 0

OTHER OPTIONAL ACCESSORIES

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



A

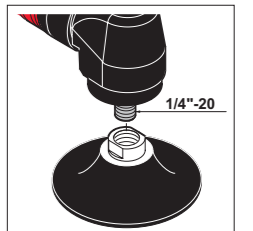


B



C

3/8"-24



KA3.36A / KA3.36-7 / KA3.21-7

ACCESSORIES INCLUDED

	KA3.36A	KA3.36-7/KA3.21-7
• Collet ø 6mm	-	615 526 079 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0	615 705 009 0
• Flat wrench, 10mm (3/8")	-	615 801 002 0
• Flat wrench, 14mm	-	615 801 005 0

OPTIONAL ACCESSORIES

ITEM	KA3.36A	KA3.36-7/KA3.21-7
1 Complete silencer kit	615 399 423 0	615 399 423 0
2 Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0
3 Backing pad ø 50mm (31/32")		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



D

M14x2



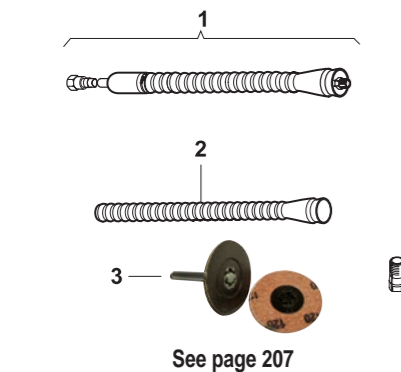
E

CNOMO collet, ø 6mm

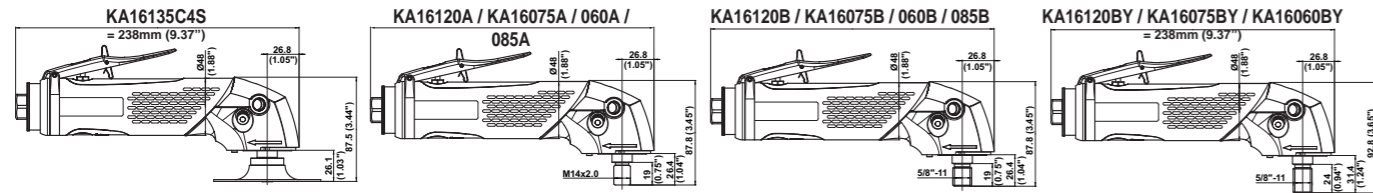
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE OR COLLET MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				rpm	ø mm		ø in.	W	hp	kg	lb.	AT FREE SPEED	AT MAX SPEED	in.	mm	in.		
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																		
D	KA3.36A	615 170 518 0	3600			M14x2	300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4	
E	KA3.36-7	615 170 516 0	3600	cap. 8mm (5/16")			300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4	
E	KA3.21-7	615 170 517 0	2100	cap. 8mm (5/16")			300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4	

1/4"-20 UNC - 3/8"-24 UNF



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	615 576 038 0	615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0	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

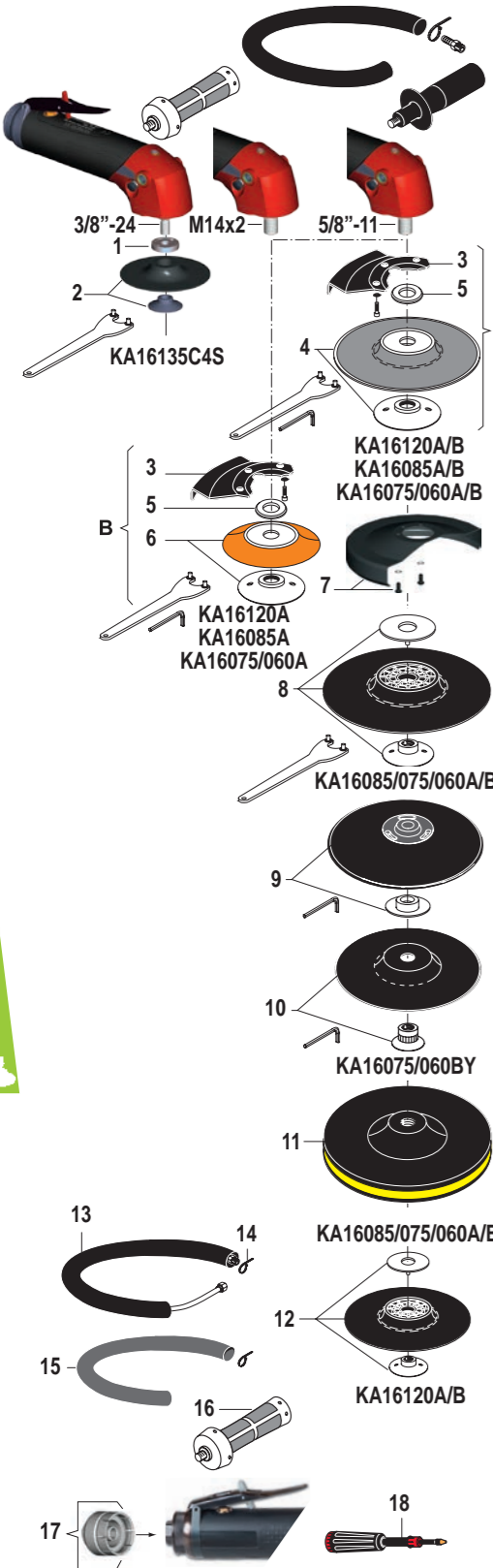
SANDING WITH STANDARD ABRASIVE DISC Ø 127MM (5")		KA16120A KA16085/075/060A M14x2	KA16120B KA16085/075/060B 5/8"-11
A	Sanding kit for abrasive disc (including items 4-5)	615 396 072 0	615 396 072 0
3	Finger guard	615 504 145 0	615 504 145 0
4	Ventilated backing pad with nut M14 & 5/8" (max. 12.000 rpm)	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 M14X2
B	Sanding kit for semirigid disc (including items 5-6)	615 396 075 0
3	Finger guard	615 504 145 0
6	Backing pad with nut M14 (max. 12.000 rpm)	615 990 129 0*
	• Pin wrench, 35mm (1-3/8")	615 802 010 0
	• Hex key 8mm (5/16")	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
7	Sanding guard ø 180mm (7")	615 504 205 0*	615 504 205 0*	615 504 205 0*
8	Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0*	615 990 133 0*	
8	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	
9	Spiracool pad whit nut ø 180mm (7") (max.8500 rpm)			S091836
10	Complete kit ø 180mm (7") (max.7000 rpm) for KA16060BY			K129587
	• Hex key 8mm (5/16")			615 802 061 0
11	Rigid velcro-backed backing pad ø 180mm (7") (max.8700 rpm)	615 990 146 0		
11	Rigid velcro-backed backing pad ø 150mm (6") (max.10000 rpm)	615 990 138 0		

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.	
12	Semi-hard backing pad with nut M14 & 5/8" - ø 127mm (5") (max. 12.000 rpm)	615 804 074 0
13	Complete silencer kit	615 396 166 0
14	Clamp	615 263 024 0
15	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
16	Vibration-damping side handle	615 576 066 0
17	Clippable silencer	615 396 957 0
18	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 Ø 100mm (4") - Ø 127mm (5") - Ø 150mm (6") - Ø 180mm (7")

1350 to 1700 Watts (1.83 to 2.3 hp) - 6000 to 13500 rpm

Supplied with M14 or 5/8" threaded spindle only



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

PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION		AIR INLET THREAD		HOSE INT. Ø		
					W	hp	kg	lb.	AT FREE SPEED	AT MAX. SPEED	in.	mm	in.	mm	
			rpm	in.					l/s	cfm	l/s	cfm	in.	mm	in.
A	KA16135C4S	615 170 446 0	13500	3/8-24	1700	2.28	1.48	3.3	25	53	35	74	3/8	13	1/2
B	KA16120A	615 170 435 0	12000	M14x2	1700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
B	KA16120B	615 170 445 0	12000	5/8-11	1700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085A	615 170 468 0	8500	M14x2	1700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085B	615 170 469 0	8500	5/8-11	1700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16075A	615 170 448 0	7500	M14x2	1500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16075B	615 170 452 0	7500	5/8-11	1500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16060A	615 170 449 0	6000	M14x2	1350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2
C/D	KA16060B	615 170 453 0	6000	5/8-11	1350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2

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B	KA16120BY	615 170 447 0	12000	5/8-11	1700	2.28	1.41	3.1	20	42	32	68	3/8	13	1/2
D	KA16075BY	615 170 450 0	7500	5/8-11	1500	2.01	1.41	3.1	15	32	27	57	3/8	13	1/2
D	KA16060BY	615 170 451 0	6000	5/8-11	1350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2

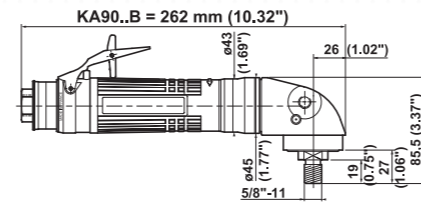
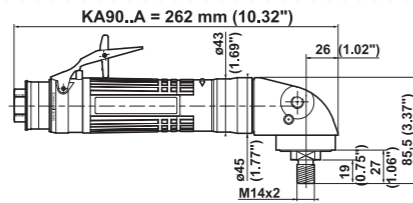
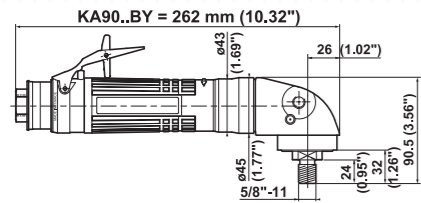
3/8"-24 UNF - 5/8"-11 UNC

Accessories

Sanders for abrasive discs polishing Ø 150mm (6") - Ø 180mm (7") - Ø 230mm (9")

900 Watts (1.21 hp) - 2000 and 3000 rpm

Supplied with M14 or 5/8" threaded spindle only



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 (1-1/16")	615 801 032 0
• Hex key 8mm (5/16")	615 802 061 0

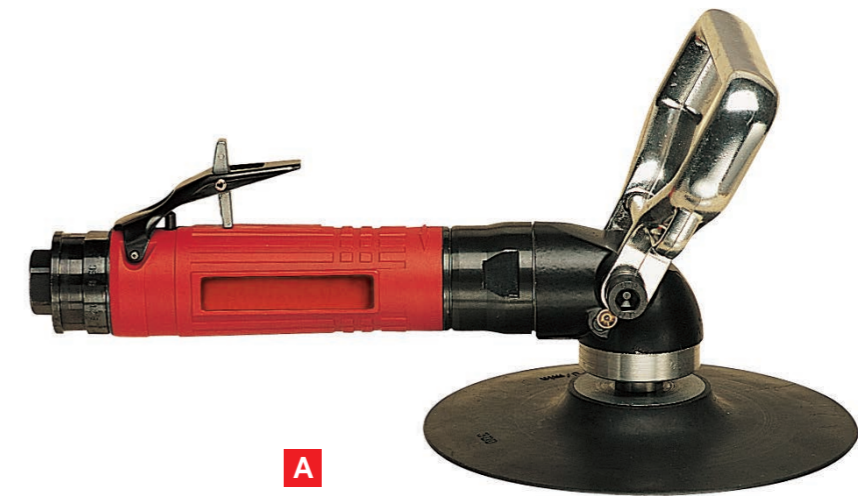
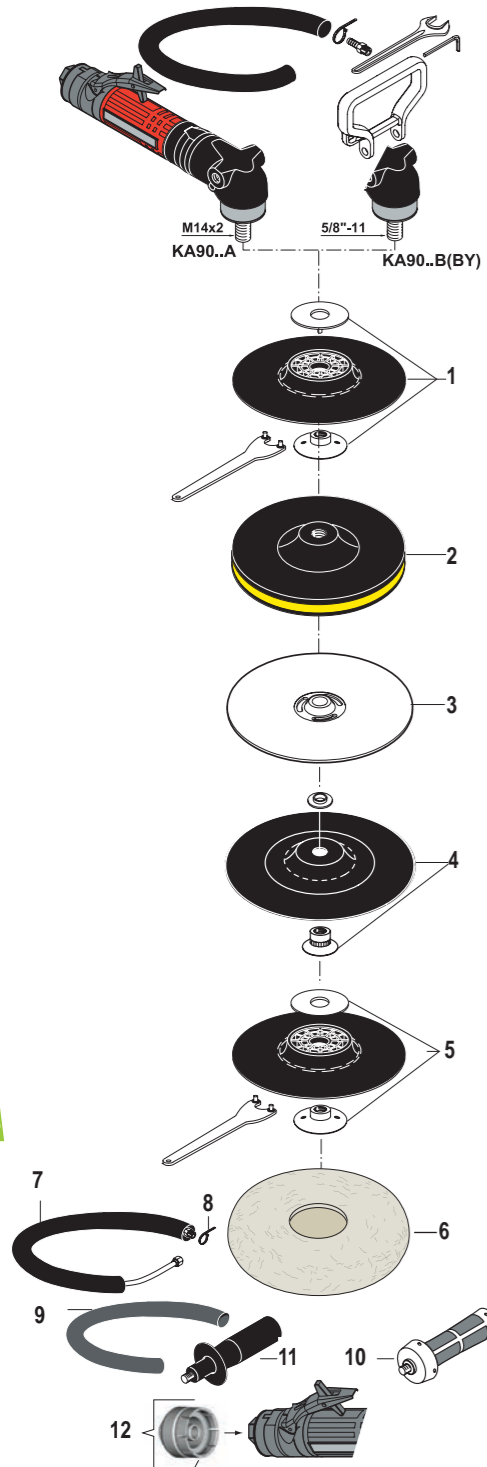
OPTIONAL ACCESSORIES

SANDING ITEM	KA90..A M14x2	KA90..B 5/8"-11	KA9030/20BY 5/8"-11
1 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	615 990 133 0	
1 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	
2 Rigid velcro-backed backing pad ø 180mm (7") (max. 8700 rpm)		615 990 146 0	
2 Rigid velcro-backed backing pad ø 150mm (6") (max. 10000 rpm)		615 990 138 0	
3 Spiracool pad with nut ø 180mm (7") (max. 8500 rpm)			S091836
3 Spiracool pad with nut ø 230mm (9") (max. 6500 rpm)			S091839
4 Complete Kit ø 180mm (7") (max. 7000 rpm)			K129587
• Hex. Key 8mm (5/16")			615 802 061 0

POLISHING ITEM	KA90..A	KA90..B
5 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	
• Pin wrench 35mm (1-3/8")	615 802 010 0	
6 Sheepskin ø 180mm (7") (max. 2100 rpm)	615 845 999 0	

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
7 Complete silencer kit	615 396 166 0
8 Clamp	615 873 115 0
9 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
10 Vibration-damping side handle	615 576 066 0
11 Side handle	615 576 038 0
12 Clippable silencer	615 396 655 0



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

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

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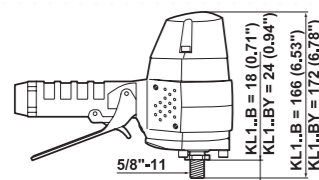
5/8"-11 UNC

Accessories

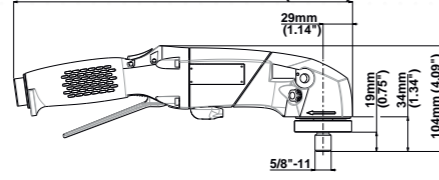
Sanders for abrasive discs Ø 180mm (7") - Ø 230mm (9")

1200 and 2100 Watts (1.61 and 2.82 hp) - 6000 to 8500 rpm

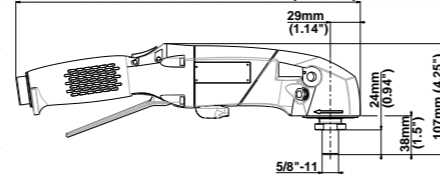
Supplied with 5/8" threaded spindle only



KA26065BV / 085BV = 334mm (13.15")



KA26060BY / 077BY = 334mm (13.15")



KL165B / KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KL165B	KA26085BV KA26065BV	KA26077BY KA26060BY
• Rear flange	615 503 107 0		615 503 107 0
• Auto-balancer		615 990 195 0	
• Rotating handle support kit		615 397 741 5	615 397 741 5
• Rotating exhaust kit		615 397 743 5	615 397 743 5
• 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
• Vibration-damping side handle		615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 180MM (7")		KL165B	KA26085BV KA26077BY
ITEM			
• Rear flange for KA26085BV			615 503 107 0
1 Soft Backing pad with nut 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	615 802 010 0
• Hex key 8mm (5/16")		615 802 061 0	615 802 061 0

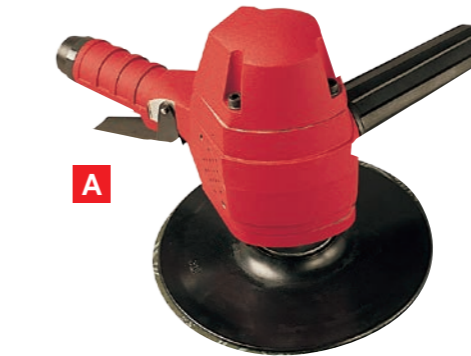
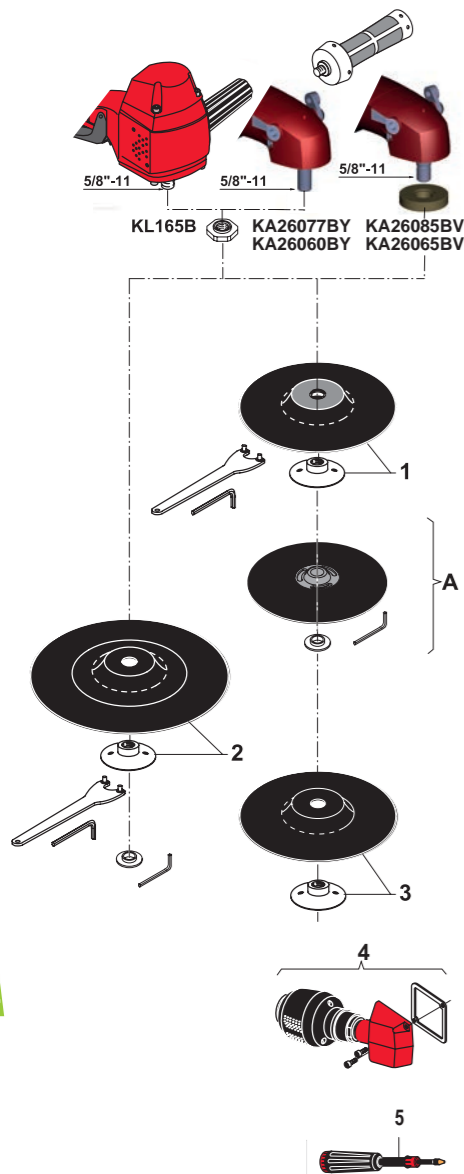
*Spare Part: Nut 615 608 047 0

SANDING WITH SPIRACOO PAD Ø 180MM (7")			KA26077BY
ITEM			
A Spiracool pad with nut 5/8", ø 180mm (7") - (Max. 8500 rpm)			S091836
• Pin wrench 35mm (1-3/8")			615 802 010 0
SANDING WITH STANDARD ABRASIVE DISC Ø 230MM (9")			KA26065BV KA26060BY
ITEM			
• Rear flange for KA26085BV			615 503 107 0
2 Soft Backing pad with nut 5/8", ø 230mm (9") - (max. 6500 rpm)			615 990 141 0
• Pin wrench, 35mm (1-3/8")			615 802 010 0
• Hex key 8mm (5/16")			615 802 061 0

* Spare Part: Nut 608.29

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA26..
3 Rigid backing pad with nut 5/8", ø 180mm (7") - (max. 8500 rpm)	615 990 134 0	
4 Silencer kit	615 399 462 0	
5 Grease gun includes 24g (0.8 oz)		615 990 149 0
• Grease for bevel gear (1kg - 2.2 lb)		615 990 148 0

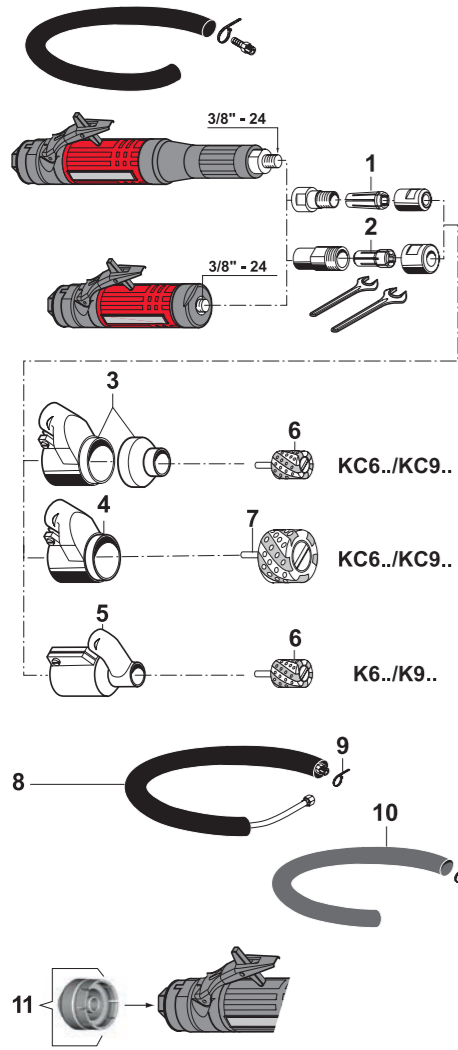
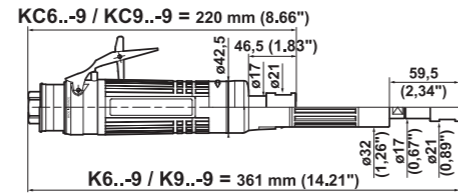
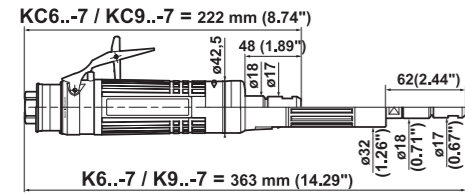


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø			
				Ø mm	Ø in.		W	hp	kg	lb.	l/s	cfm		l/s	cfm	in.	mm
VERTICAL SANDER																	
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
ANGLE SANDERS																	
B	KA26085BV	615 170 479 0	8500	180	7	5/8-11	2100	2.82	2.3	5.1	17	36	36	77	1/2	15	5/8
B	KA26065BV	615 170 480 0	6500	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	21	44	38	80	1/2	15	5/8
ANGLE SANDERS																	
For USA Market only (to ANSI B186.1)																	
C	KA26077BY	615 170 481 0	7700	180	7	5/8-11	2100	2.82	2.3	5.1	16	33	32	69	1/2	15	5/8
C	KA26060BY	615 170 482 0	6000	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	18	38	37	77	1/2	15	5/8

5/8"-11 UNC

Accessories



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

ACCESSORIES INCLUDED			
ITEM		COLLET CNOMO	COLLET SERIES 200
1	CNOMO collet \varnothing 6mm	615 526 049 0	
2	Series 200 resilient collet, \varnothing 5.55 to 6.35mm (1/4")		615 526 063 0
	• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 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 \varnothing 27mm (1.06"), shank \varnothing 6mm (1/4") (20000 rpm max)	615 860 003 0	615 860 003 0
7	Diamond cylinder \varnothing 52mm (2.05"), shank \varnothing 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

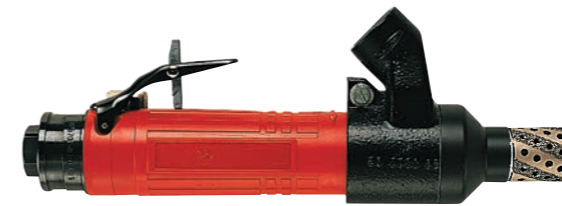


Dust extraction systems for straight grinders

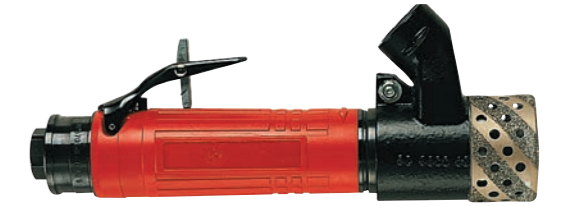
600 and 900 Watts (0.8 and 1.21 hp) - 12000 to 28000 rpm



A



B



B



615 396 014 0
Vacuum hose, ID 25mm (1")



615 396 013 0
Vacuum hose, ID 32mm (1-1/4")

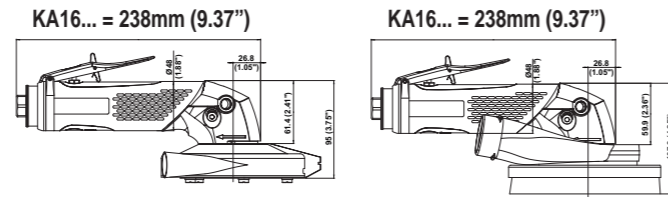


615 396 023 0
Vacuum hose, ID 32mm (1-1/4")

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)				W	hp	kg	lb.	
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



KA16120. / KA16085. / KA16075. / KA16060.

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0
• Side handle	615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0

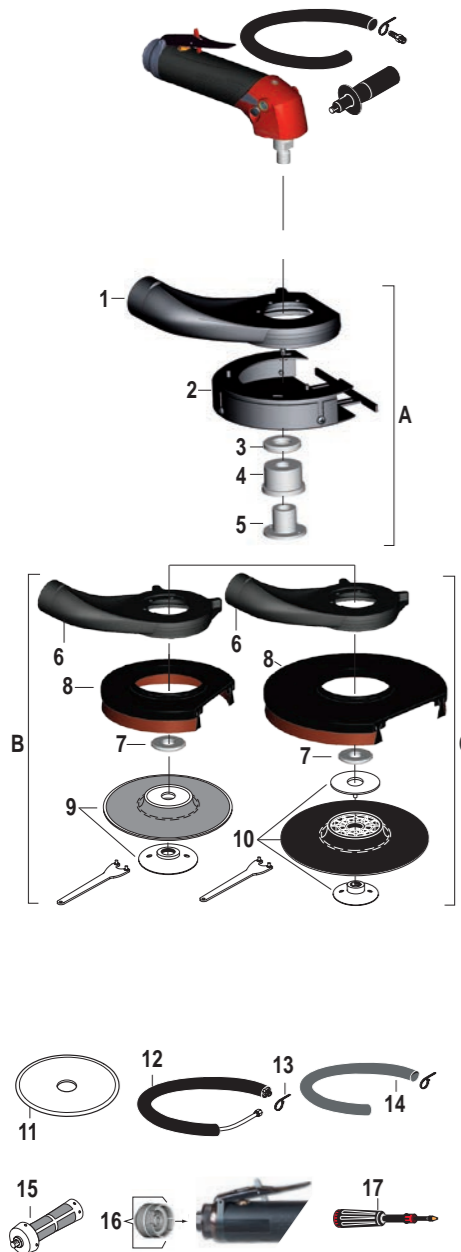
OPTIONAL ACCESSORIES

ITEM	FOR COMPOSITE CUTTING	
	KA16120./ KA16085. KA16075. / KA16060 Ø 127mm (5")	KA16085. KA16075. / KA16060 Ø 180mm (7")
A Dust extraction Kit for Diamond disc ø 127mm (5")	615 397 830 0	
1 Manifold cutting with screws	615 504 217 0	
2 Goble cover plate complete	615 504 218 0	
3 Spacer 6mm - Hole 14mm	615 643 092 0	
3 Spacer 6mm - Hole 16mm	615 643 091 0	
4 Spacer for M14 spindle	615 643 089 0	
4 Spacer for 5/8" spindle	615 643 090 0	
5 Flange nut M14	615 606 046 0	
5 Flange nut 5/8"	615 606 045 0	
• Pin key	615 802 067 0	

ITEM	DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING	
	KA16120./ KA16085. KA16075. / KA16060 Ø 127mm (5")	KA16085. KA16075. / KA16060 Ø 180mm (7")
B Dust extraction Kit for disc ø 127mm (5")	615 397 828 0	
C Dust extraction Kit for disc ø 180mm (7")		615 397 829 0
6 Suction cap	615 504 194 0	615 504 194 0
7 Washer	615 643 083 0	615 643 083 0
8 Skirt with brush	615 570 234 0	615 570 231 0
9 Ventilated backing pad ø127mm (5") with nut M14 & 5/8" (max. 12000 rpm)	615 990 199 0	
10 Rigid backing pad ø180mm (7") with nut M14 & 5/8" (max. 8500 rpm)		615 990 198 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
11 Diamond disc ø 127mm (5")	615 804 915 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 (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0



Dust extraction systems for angle models Ø 127mm (5") - Ø 180mm (7")

1350 to 1700 Watts (1.81 to 2.28 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 (1-1/2")



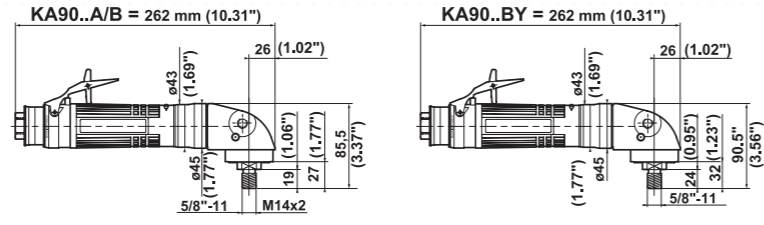
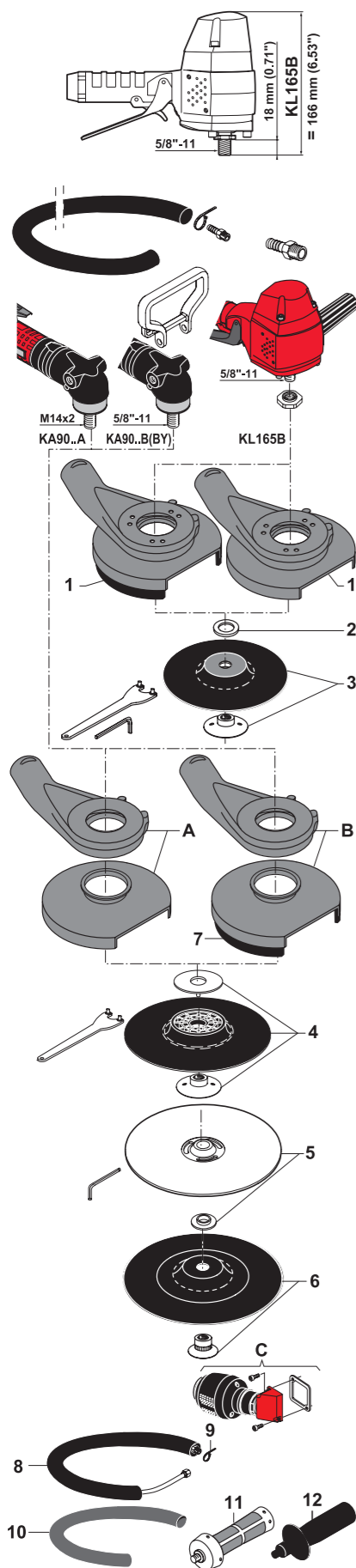
B/C
Vacuum hose, ID 38mm (1-1/2")

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

PIC REF	MODEL	PART NUMBER	DUST EXTRACTION KIT		FREE SPEED rpm	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
			Ø 127mm (5")	Ø 180mm (7")			W	hp	kg	lb.	
CUTTING Ø 127mm (5") - M14 Output											
A	KA16120A	615 170 435 0	+	615 397 830 0	12000	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16085A	615 170 468 0	+	615 397 830 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16075A	615 170 448 0	+	615 397 830 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
A	KA16060A	615 170 449 0	+	615 397 830 0	6000	M14x2	1350	1.81	1.41	3.1	3/8
CUTTING Ø 127mm (5") - 5/8" Output											
A	KA16120B	615 170 445 0	+	615 397 830 0	12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16085B	615 170 469 0	+	615 397 830 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
A	KA16075B	615 170 452 0	+	615 397 830 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060B	615 170 453 0	+	615 397 830 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8
CUTTING Ø 127mm (5") - 5/8" Output for USA Market only (to ANSI B186.1)											
A	KA16120BY	615 170 447 0	+	615 397 830 0	12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16075BY	615 170 450 0	+	615 397 830 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060BY	615 170 451 0	+	615 397 830 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8
SANDING Ø 127 mm (5") & Ø 180 mm (7") - M14 & 5/8" Output											
B	KA16120A	615 170 435 0	+	615 397 828 0	12000	M14x2	1700	2.28	1.39	3.0	3/8
B	KA16120B	615 170 445 0	+	615 397 828 0	12000	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16085A	615 170 468 0	+	615 397 828 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
B/C	KA16085B	615 170 469 0	+	615 397 828 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16075A	615 170 448 0	+	615 397 828 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
B/C	KA16075B	615 170 452 0	+	615 397 828 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
B/C	KA16060A	615 170 449 0	+	615 397 828 0	6000	M14x2	1350	1.81	1.41	3.1	3/8
B/C	KA16060B	615 170 453 0	+	615 397 828 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

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	KL165B non metallic Fibre disc Ø 180mm (7")	KL165B metallic Fibre disc Ø 180mm (7")
ITEM		
• 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 Ø 180mm (7") 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	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
ITEM		
A Suction cap	615 396 125 0	615 396 125 0
4 Rigid backing pad Ø 180mm (7") with nut M14 & 5/8" (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	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
ITEM		
B Suction cap (including item 6-7)	615 396 126 0	615 396 126 0
4 Rigid backing pad Ø 180mm (7") with nut M14 & 5/8" (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	615 399 462 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 and 1200 Watts (1.21 and 1.61 hp) - 2000 to 6500 rpm

Supplied with M14 & 5/8" threaded spindle only



A

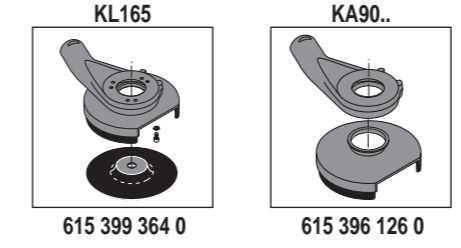


B



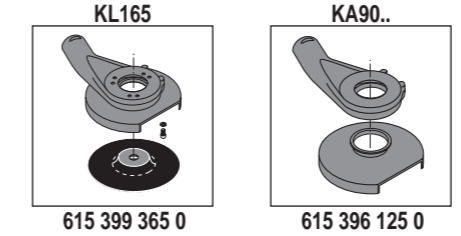
C

For standard abrasive disc for non metallic materials



615 399 364 0 615 396 126 0

For standard abrasive disc for metallic materials



615 399 365 0 615 396 125 0

Vacuum hose, ID 38mm (1-1/2")

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

PIC REF	MODEL	PART NUMBER	+	DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
							W	hp	kg	lb.	
				Ø 180 mm (7")	rpm	in	W	hp	kg	lb.	in.

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

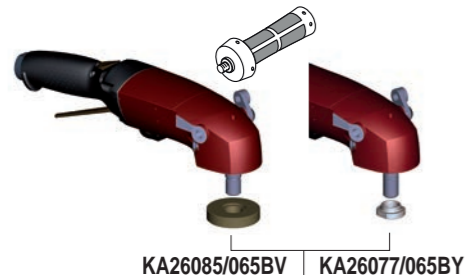
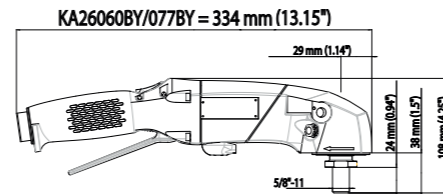
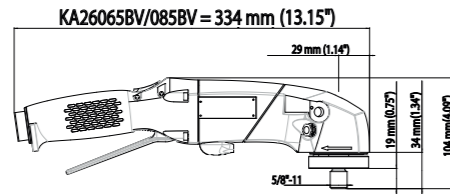
ANGLE SANDER for USA Market Only (to Ansi B186.1)											
C	KA9030BY	615 170 309 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8

5/8"-11 UNC

Accessories

Dust extraction systems for angle models Ø 180mm (7")

2100 Watts (2.82 hp) - 6000 to 8500 rpm



KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KA26085BV KA26065BV	KA26077BY KA26060BY
• Auto-balancer	615 990 195 0	
• Rear flange		615 503 107 0
• Rotating handle support kit	615 397 741 5	615 397 741 5
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Vibration-damping side handle	615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

ITEM	FOR COMPOSITE CUTTING	KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
------	-----------------------	--

A	Dust extraction Kit for Diamond disc Ø 180mm (7")	615 397 844 0
1	Manifold cutting with screws	615 504 220 0
2	Goble cover plate complete	615 504 221 0
3	Spacer - hole 5/8"	615 643 090 0
4	Flange nut 5/8"	615 606 048 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0

ITEM	DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING	KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
------	--	--

B	Dust extraction Kit for disc Ø 180mm (7")	615 397 843 0
5	Manifold with screws	615 504 219 0
6	Skirt with brush	615 570 231 0
7	Spacer 9mm	615 643 093 0
8	Spacer 6mm - Hole 16mm (5/8")	615 643 091 0
9	Rigid backing pad Ø180mm (7") (max. 8500rpm)	615 990 200 0
10	Flange nut 5/8"	615 606 047 0
	• Pin wrench, 35mm (1-3/8")	615 802 067 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
11	Diamond disc Ø 180mm (7") 615 811 145 0
12	Grease gun includes 24g (0.8oz) 615 990 149 0
	• Grease for bevel gear (1 kg - 2.2 lb) 615 990 148 0



Dust extraction casing for diamond disk Ø 180mm (7")
Vacuum hose, ID 38mm (1-1/2")



Vacuum hose, ID 38mm (1-1/2")

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

PIC REF	MODEL	PART NUMBER	DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
						W	hp	kg	lb	in.
			Ø 180mm (7")	rpm	in.					

CUTTING Ø 180mm (7")

A	KA26085BV	615 170 479 0	+	615 397 844 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26065BV	615 170 480 0	+	615 397 844 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2

CUTTING Ø 180mm (7") for USA Market only (to ANSI B186.1)

A	KA26077BY	615 170 482 0	+	615 397 844 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26060BY	615 170 481 0	+	615 397 844 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2

SANDING Ø 180mm (7")

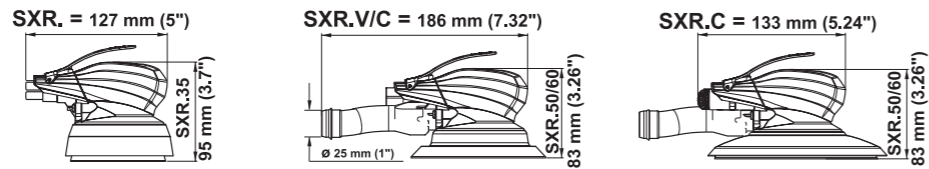
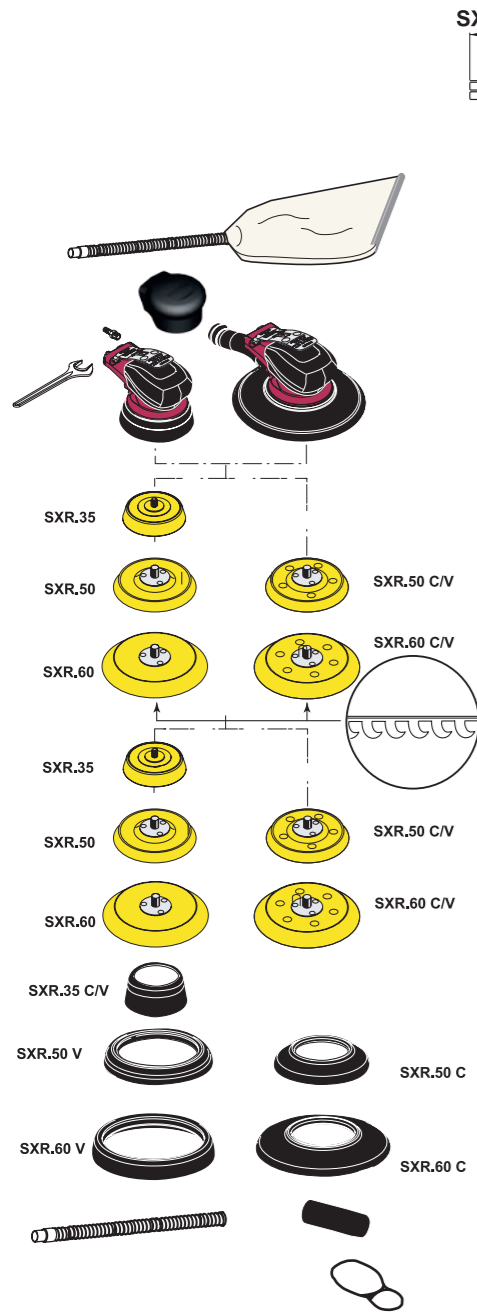
B	KA26085BV	615 170 479 0	+	615 397 843 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26065BV	615 170 480 0	+	615 397 843 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2

SANDING Ø 180mm (7") for USA Market only (to ANSI B186.1)

B	KA26077BY	615 170 482 0	+	615 397 843 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26060BY	615 170 481 0	+	615 397 843 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2

5/8"-11 UNC

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)	615 303 108 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 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

PADS: Thread 5/16"-24	FOR SELF- ADHESIVE ABRASIVE	FOR SELF- ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• 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

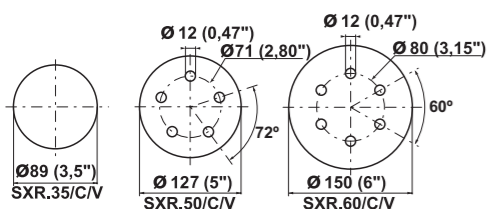
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)35(.)	615 350 110 0
• Vacuum skirt for SXR(.)50C	615 350 107 0
• Vacuum skirt for SXR(.)60C	615 350 106 0
• Vacuum skirt for SXR(.)50V	615 350 103 0
• Vacuum skirt for SXR(.)60V	615 350 102 0

ADAPTOR	
• 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

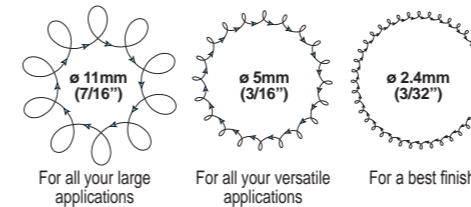
BAIL HOOK	
• Bail hook	615 571 060 0

PAD DIMENSIONS



Random orbital sanders for abrasive discs Ø 89mm (3.5") - ø 127mm (5") - ø 150mm (6")

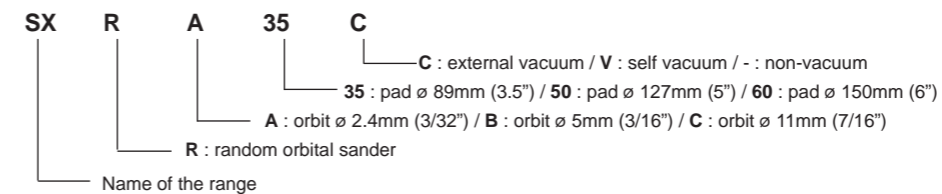
210 Watts (0.3 hp) - 12000 rpm



For all your large applications For all your versatile applications For a best finish



HOW TO SELECT YOUR SX SANDER — Eg: SXRA35C - SXR model / orbit ø 2.4mm (3/32") / pad ø 89mm (3.5") / with dust extraction



*Sanders equipped with PSA pad
Caution: comply with the speeds recommended by component and abrasive manufacturers.

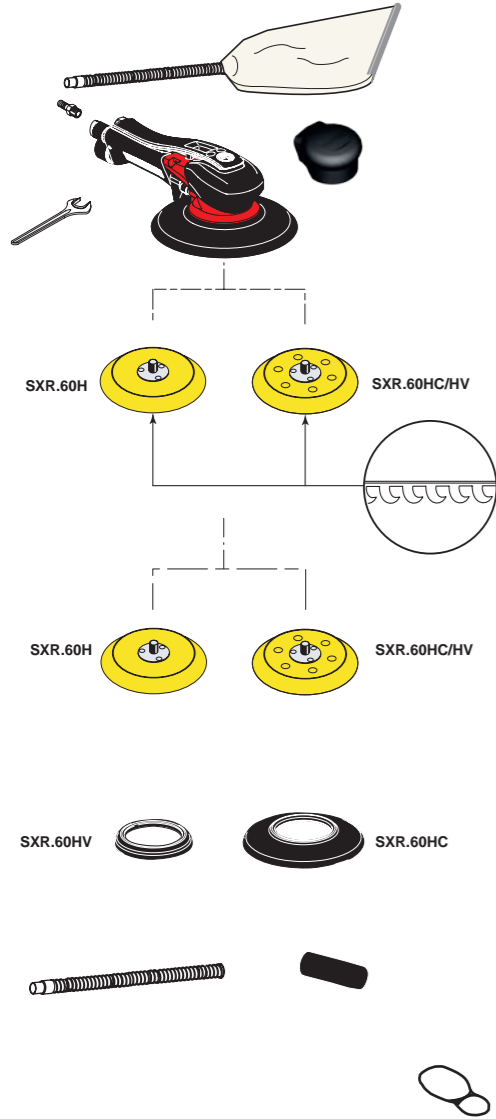
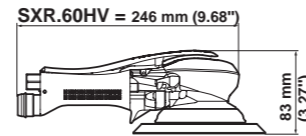
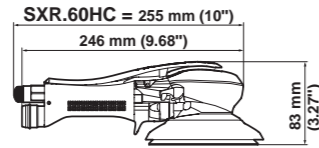
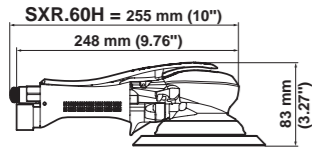
PAD SIZE	MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD		HOSE INT Ø	
							kg	lb	l/s	cfm	in.	mm	in.	
mm	in.													

RANDOM ORBITAL SANDERS, ORBIT ø 11mm (7/16")													
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM							
ø 150	6	SXRC60	615 170 462 0	SXRC60C	615 170 463 0	SXRC60V	615 170 464 0	0.88	1.94	8.0	16.6	1/4	6 1/4

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	1/4	6 1/4
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	1/4	6 1/4
ø 127	5	SXRB50*	615 170 300 0					0.8	1.7	8.0	16.6	1/4	6 1/4
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	1/4	6 1/4
ø 150	6	SXRB60*	615 170 317 0					0.8	1.7	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 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	1/4	6 1/4
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	1/4	6 1/4
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	1/4	6 1/4

Accessories



SXR.60H.

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)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXR.60HV 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 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 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

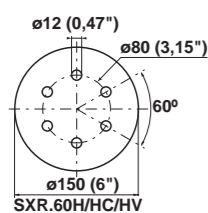
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)60HC	615 350 106 0
• Vacuum skirt for SXR(.)60HV	615 350 102 0

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

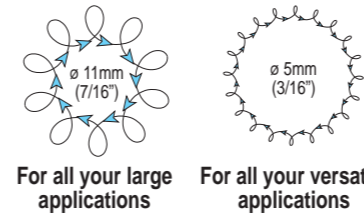
BAIL HOOK	
• Bail hook	615 571 060 0

PAD DIMENSIONS



Random orbital sanders for abrasive discs Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



For all your large applications

For all your versatile applications



SXR.60H

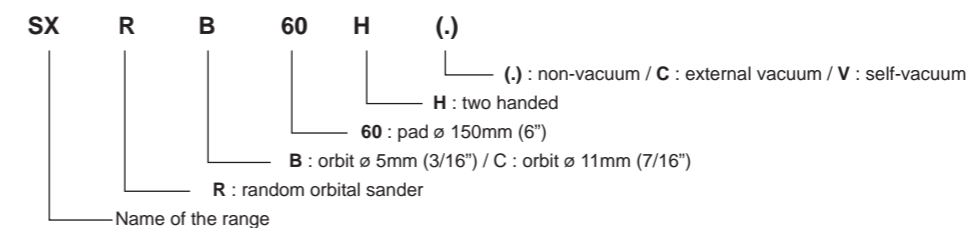


SXR.60HC



SXR.60HV

HOW TO SELECT YOUR SX SANDER — SXR.60H - SXR model / orbit 5mm (3/16") / pad ø 150mm (6") / Two handed / non vacuum



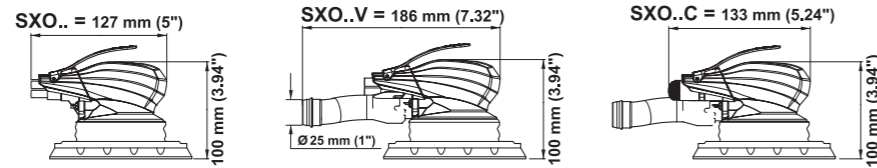
*Sanders equipped with PSA pad
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE	MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD		HOSE INT Ø	
							kg	lb	l/s	cfm	in.	mm	in.	
RANDOM ORBITAL SANDERS, ORBIT ø 11mm (7/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SXRC60H	615 170 465 0	SXRC60HC	615 170 466 0	SXRC60HV	615 170 467 0	0.88	1.94	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT ø 5mm (3/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
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

Accessories

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. / SXOAT1.

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)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXOAR..V version	615 396 264 0

PAD FOR HOOK & LOOP ABRASIVE	PART NO.
• Pad 80x130mm (3x5") for SXOAR..	615 350 121 0
• Pad 147x100mm (6x4") for SXOAT1..	615 350 122 0

OPTIONAL ACCESSORIES

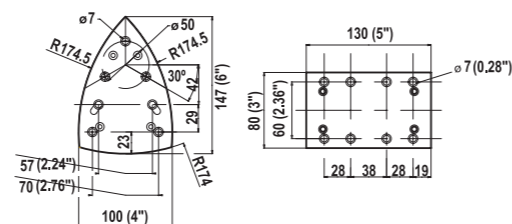
	PART NO.
• Paper holder kit	615 396 413 0
• Pad 80x130mm (3x5") for SXOAR..	615 350 123 0

ADAPTOR	PART NO.
• Vacuum hose adaptor \varnothing 25mm (1") / \varnothing 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor \varnothing 25mm (1") / \varnothing 28mm (1-1/8")	615 804 448 0

HOSE	PART NO.
• Dust extraction hose \varnothing 25mm (1") L = 1.5m (60")	615 396 263 0



PAD DIMENSIONS



SXOAR1



SXOAR1C



SXOAR1V



SXOAT1



SXOAT1C

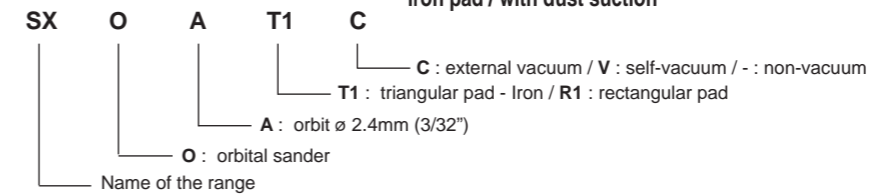


SXOAT1V



SXOAR1 equipped with paper holder kit P.N 615 396 413 0

HOW TO SELECT YOUR SXO SANDER — Eg: SXOAT1C - SXO model / orbit \varnothing 2.4mm (3/32") iron pad / with dust suction



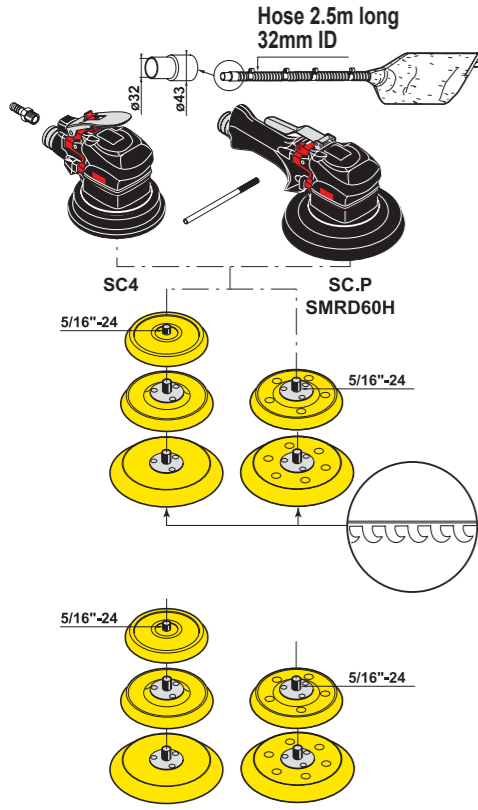
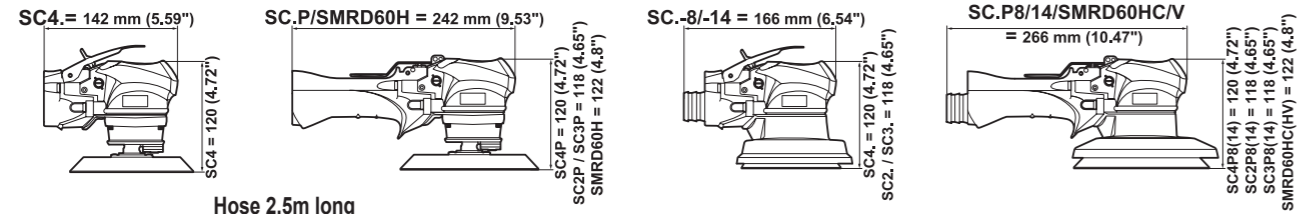
Supplied kit



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 \varnothing	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.	
ORBITAL SANDERS, ORBIT \varnothing 2.4mm (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



SC4.. / SC..P / SMRD60..

ACCESSORIES INCLUDED

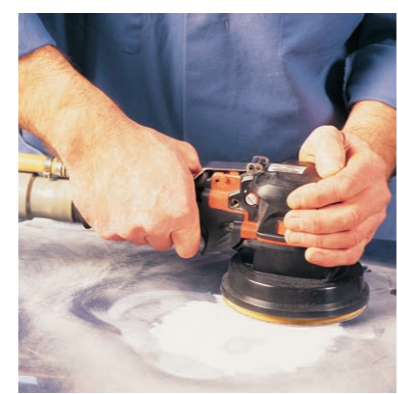
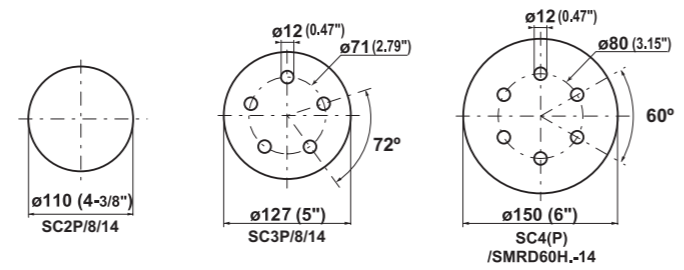
	PART NO.
• 1/4" air hose nipple for 8mm (5/32") ID hose	615 704 019 0
• Clamping lever	615 595 202 0
• Complete dust extraction kit for version (SC.-14/SRMD60HV)	615 399 471 0

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") - SC2P/8/14	615 990 102 0	-
• Pad ø 127mm (5") - SC3P	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16" - 24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE WITH HOLES (-8) OR (-14) (C) OR (V)
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 101 0	-
• Pad ø 127mm (5") - SC3P	615 990 111 0	615 990 110 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 119 0	615 990 118 0

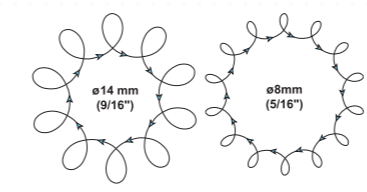
PAD DIMENSIONS



Random orbital sanders for abrasive discs

Ø 110mm (4-3/8") - Ø 127mm (5") - Ø 150mm (6")

375 Watts (0.5 hp) - 10000 rpm



SC4



SC4P



SC4-8



SC4P8 - SMRD60HC



SMRD60H

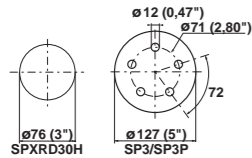
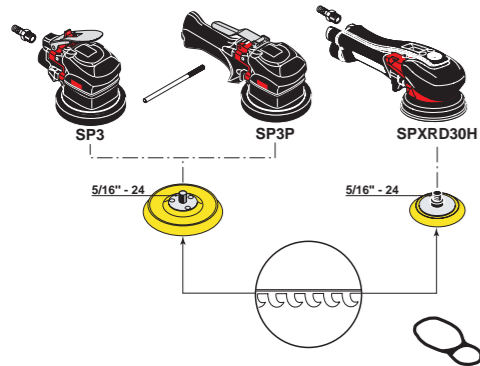
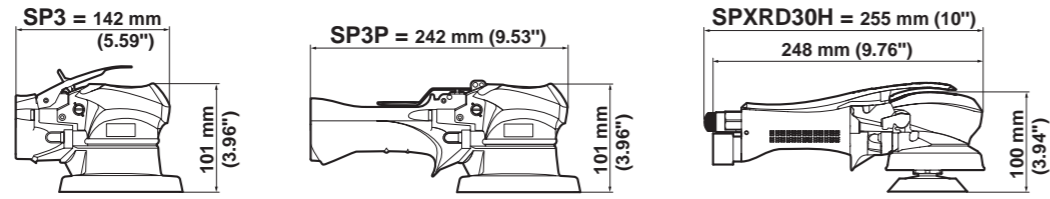


SC4P14 - SMRD60HV

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	
							kg	lb	l/s	cfm	in.	mm	in.	
SANDERS WITH PALM GRIP, ORBIT ø 8mm (5/16")														
NON-VACUUM			EXTERNAL VACUUM			SELF VACUUM								
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



SP3 / SP3P / SPXRD30H

ACCESSORIES INCLUDED

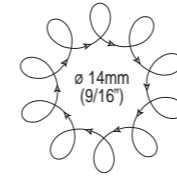
	SP3/SP3P	SPXRD30H
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Clamping lever	615 595 202 0	
• Small grip (medium-size grip fitted on sander)		615 303 109 0
• Bail hook		615 571 060 0

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



Random orbital polishers Ø 76mm (3") - Ø 127mm (5")

210 and 375 Watts (0.3 and 0.5 hp) - 10000 and 12000 rpm



SP3



SP3P

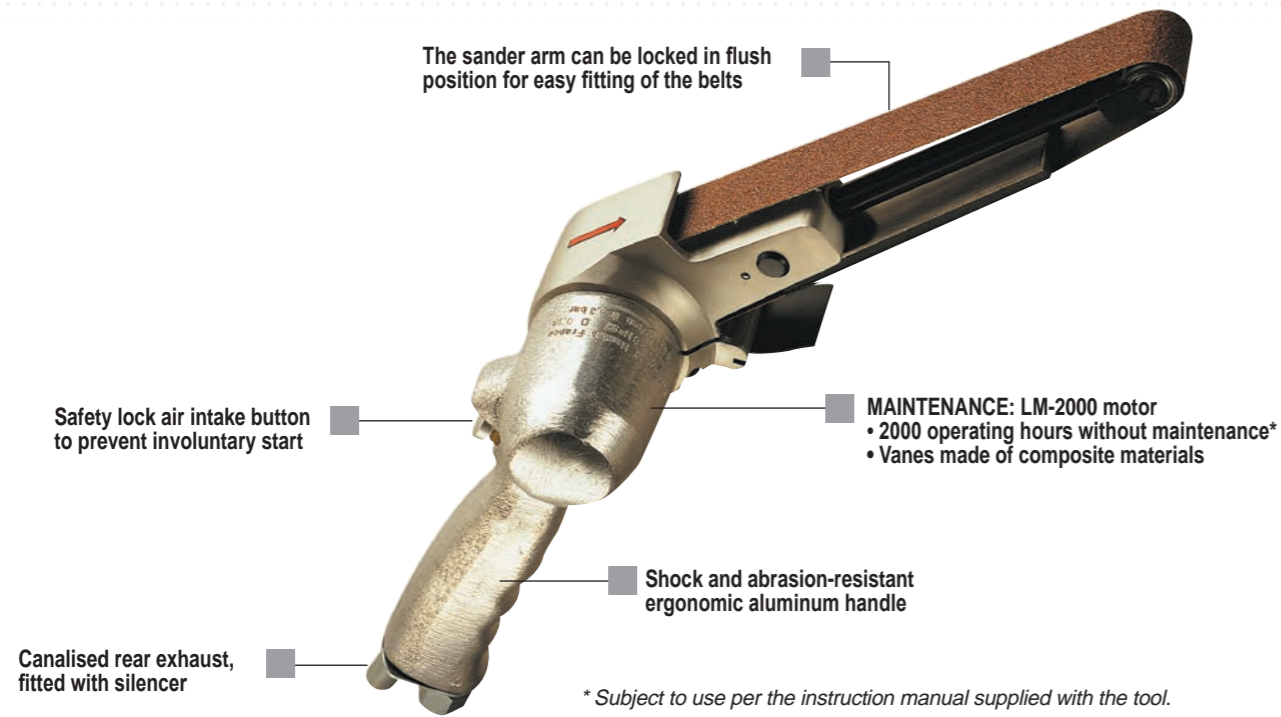


SPXRD30H

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

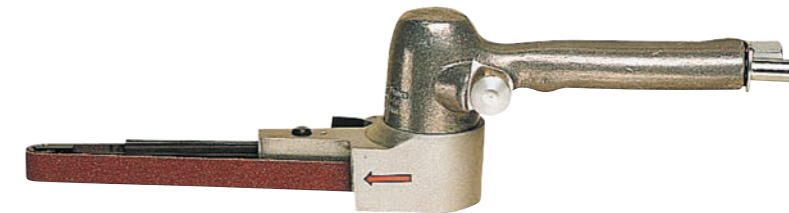
Belt sanders



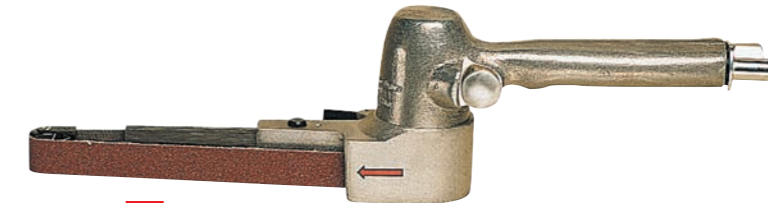
* Subject to use per the instruction manual supplied with the tool.

Belt sanders

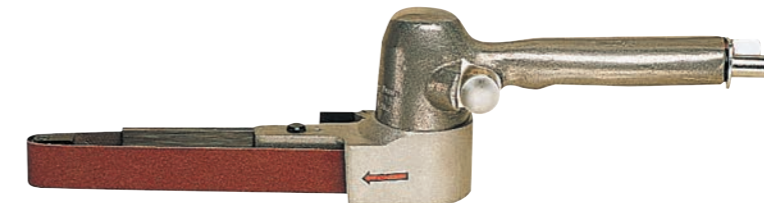
300 Watts (0.4 hp) - 16000 rpm



A

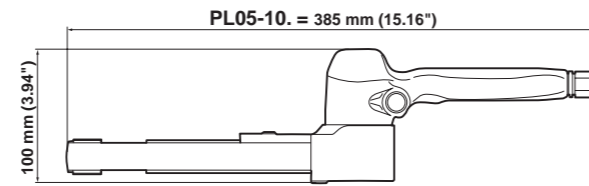


B



C

Accessories



PL05-10D / PL05-10E / PL05-10F

ACCESSORIES INCLUDED

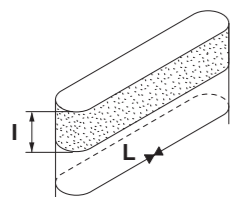
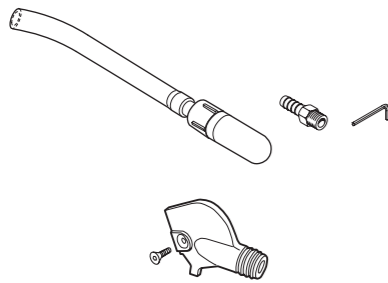
	PART NO.
• Exhaust hose	615 396 022 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Hex. key 4 mm	615 802 054 0

OPTIONAL ACCESSORIES

	PART NO.
• Suction cap for 32mm (1-1/4") ID vacuum hose	321003
• Screw FHc M4x10	615 616 118 0

OPTIONAL ACCESSORIES

COATED ABRASIVE BELTS					
Lx I		GRIT NUMBER			
mm	in.	P40	P60	P80	P100
480 x 16	18-7/8" x 5/8	615 811 217 0	615 811 218 0	615 811 219 0	615 811 220 0
480 x 20	18-7/8" x 25/32	615 811 223 0	615 811 224 0	615 811 225 0	615 811 226 0
480 x 25	18-7/8" x 63/64	615 811 230 0	615 811 231 0	615 811 232 0	615 811 233 0
Lx I		GRIT NUMBER			
mm	in.	P120	P150	P180	P240
480 x 16	18-7/8" x 5/8	615 811 221 0	615 811 222 0		
480 x 20	18-7/8" x 25/32	615 811 227 0	615 811 228 0	615 811 229 0	
480 x 25	18-7/8" x 63/64	615 811 234 0	615 811 235 0	615 811 236 0	615 811 237 0



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

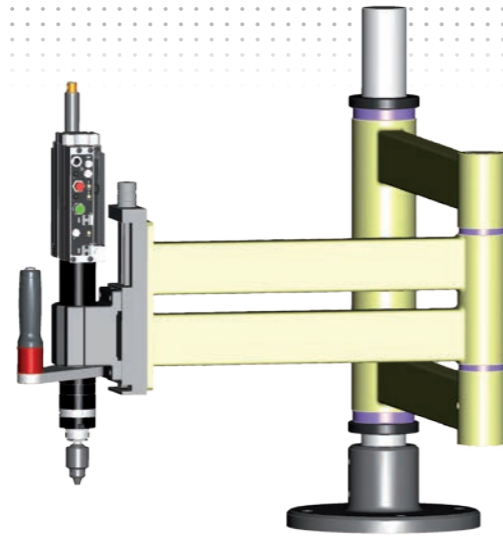
PIC REF	MODEL	PART NUMBER	FREE SPEED	BELT SIZE		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD		HOSE INT. Ø	
				mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.	
A	PL05-10D	615 170 131 0	16000	480 x 16	18-7/8 x 5/8	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4	
B	PL05-10E	615 170 132 0	16000	480 x 20	18-7/8 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	18-7/8 x 63/64	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4	

AFD Applications

Modular sales concept

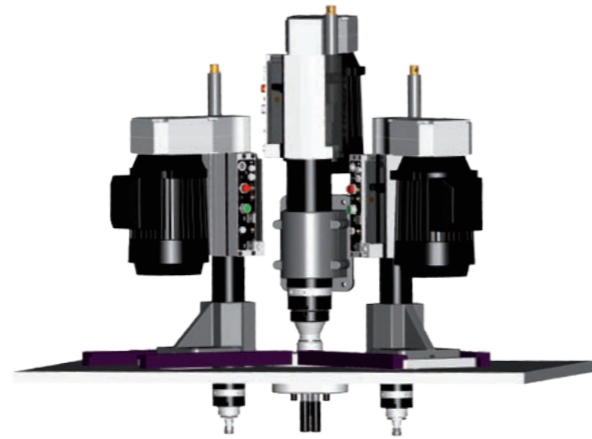
Ease of Integration into Machine or Process

- Extensive range of mounting clamps
- Control interfaces to link AFD(E) to other equipment through pneumatics or electrically
- 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 180°



Comprehensive range of Product

- For single spindle operations to multi spindle processes
- Pneumatic and electric drive from 0.22 to 1.1kW (0.3 to 1.47hp) with thrusts up to 1735N (390lbf)
- Reliability through quality

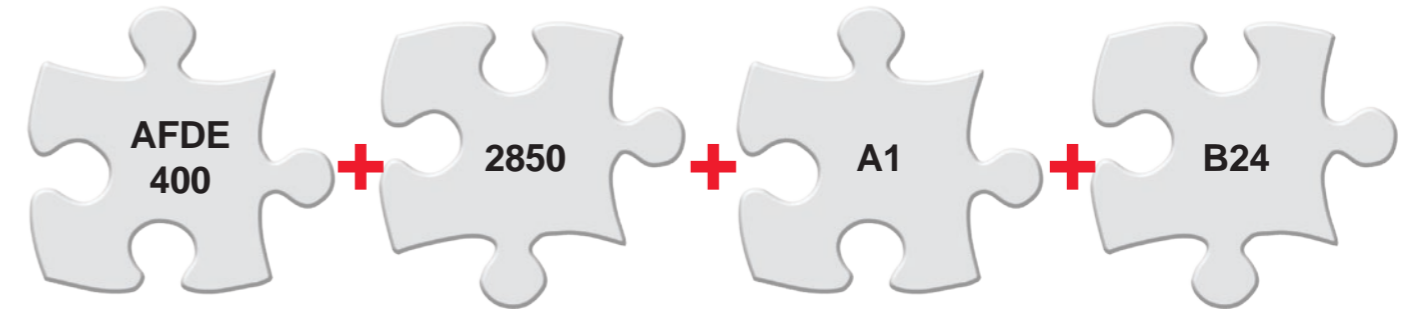


desoutter.info/AFD

Modular Design

- Flexibility of unit function and speed
- Common components in different models reduce inventory
- Multiple spindle head options
- Drilling and tapping options for all models

More than 1500 different versions



Model Type

Pneumatic Feed and Drive

- AFD205 0.22kW (0.30hp)
- AFD215 0.22kW (0.30hp)
- AFD415 0.38kW (0.51hp)
- AFD684 0.62kW (0.83hp)

Pneumatic Feed, Electric Drive

- AFDE200 0.25kW (0.34hp)
- AFDE400 0.33kW (0.44hp)
- AFDE410 0.75kW (1.00hp)
- AFDE610 0.75kW (1.00hp)
- AFDE620 1.10kW (1.50hp)

Electric Feed and Drive via Leadscrew

- AFTE480 0.75kW (1.00hp)

No Load Speed

The free output speed of the drill or taper with no drilling or tapping load applied.

CONTROL BLOCK

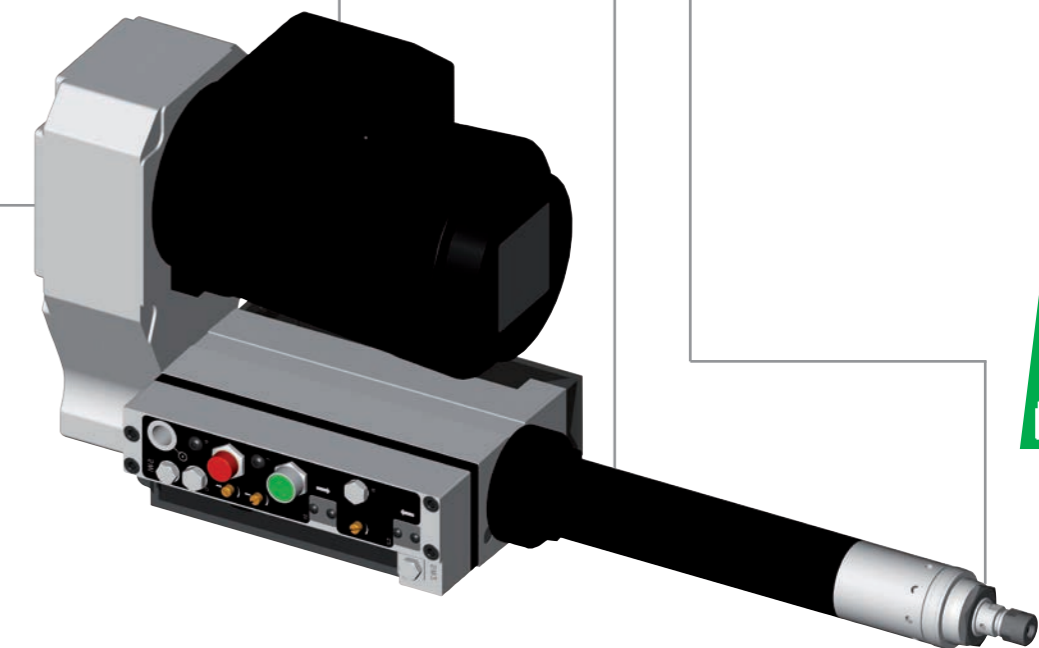
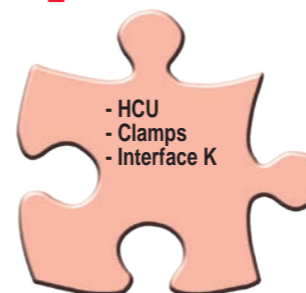
- A1 – Full feature type⁽¹⁾
 - Automatic cycle
- A6 – Simple type⁽¹⁾
 - Remote cycle control
- Control block AFTE
 - Leadscrew type - PNP
 - Leadscrew type - NPN

Output Spindle

Code Output type

- Chuck
- Collet (up to 8mm (5/16"))
- Preset Tooling DIN55058
- 6.5mm (1/4") & 8mm (5/16") Tapping Gearbox
- B16 Taper
- Jacobs No1 & No2
- ISO30 Taper
- Multi Head / Tapping
- Gearbox Adaptor
- High Speed Gearbox

+ Optional



(1) Not required on AFTE models.

Air Motors

ADVANTAGES

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.



ATEX available

LARGE CHOICE OF POTENTIAL CUSTOMERS



Textile



Marine



Petrochemical



Food Processing



Agricultural Equipment



Printing Machinery



Chemical



Strapping Machinery

Desoutter offers a wide range of rotating vane air motors in **stainless steel** and **lubrication free** versions, with power ranging from 0.16 KW (0.21 hp) to 2.8 KW (3.75 hp). Most motors can be supplied as either unidirectional with a threaded shaft or reversible with a keyed shaft. Alternative output options are also available.

Desoutter air motors can also be **Atex certified** for environments with potentially explosive atmospheres.

Air motors are an ideal solution for many applications in such varied equipment as material handling, packaging, strapping or printing machinery, petrochemical and agricultural equipment, food processing machinery, and many more custom and standard machines.

Air motors offer many advantages over electric motors, and are often the only feasible option for driving.



desoutter.info/AirMotors

ATEX AVAILABLE
II 2G T4 IIC D110°C or II 2G T5 IIC D85°C
or II 2G c IIC T6



M16-KL, M16-KSL Series

0.16 KW (0.21 hp)
Maximum torque, 8.5 Nm (6.3 ft.lb)
Keyed shaft
Standard and stainless steel
Reversible and non reversible



M25-KL / TL, M25-KSL Series

0.27 KW (0.36 hp)
Maximum torque, 22 Nm (16.2 ft.lb)
Keyed shaft, threaded shaft
Standard and stainless steel
Reversible and non reversible



M39-KL / TL, M39-KSL Series

0.39 KW (0.52 hp)
Maximum torque, 26 Nm (19.2 ft.lb)
Keyed shaft, threaded shaft
Standard and stainless steel
Reversible and non reversible



M84-K Series

0.84 KW (1.13 hp)
Maximum torque, 485 Nm (358 ft.lb)
Keyed shaft
Reversible and non reversible



2H410 Series

0.66 KW (0.85 hp)
Maximum torque, 102 Nm (75.2 ft.lb)
Worm drive motors



M180 Series

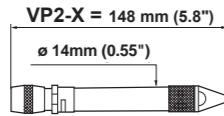
1.83 KW (2.45 hp)
Maximum torque, 337 Nm (249 ft.lb)
Reversible and non reversible



M290 Series

2.8 KW (3.75 hp)
Maximum torque, 536 Nm (395 ft.lb)
Reversible and non reversible

Accessories



VP2-X

ACCESSORIES INCLUDED

	PART NO.
• Air Hose - 3.2mm bore - Length 2m (78.7") - 1/8" - 1/4" BSP	75902
• Tungsten carbide tipped needle	63213
• Key	63533

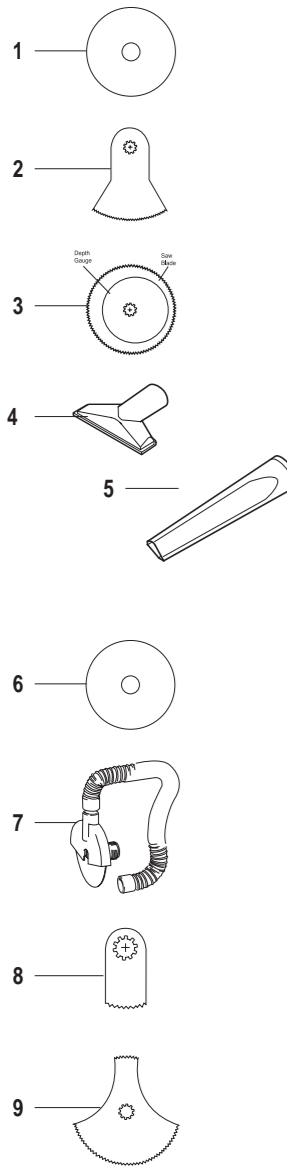
D144-T-.. / S144-T-.. / D172-L / AV101

ACCESSORIES INCLUDED

ITEM	APPLICATION	PART NO.			
		D144-T	S144-T	D172-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	D172-L
1 Saw Blade - 80 teeth 45mm (1.77") dia	Soft Steel <1.2mm (3/64")			76362
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



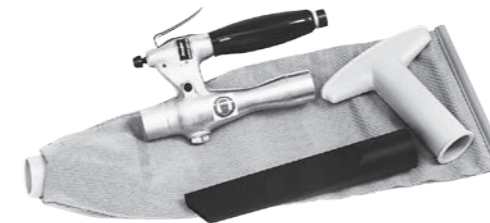
B



C



D



E



F

PIC REF	MODEL	PART NUMBER	BLOWS PER MINUTE	WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
				kg	lb.	l/s	cfm		in.	mm

AIR SCRIBE

A	VP2-X	671094	11400	0.1	0.2	0.9	1.9	1/8	3.2	1/8
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PIC REF	MODEL	PART NUMBER	FREE SPEED	OSCILLATING FREQUENCY	BLADE Ø		WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø	
					mm	in.	kg	lb.	mm	in.	l/s	cfm		in.	mm

FIBREGLASS SAW - capacity 13mm (1/2") depth

B	D144-T-3100	615 170 519 0	3100		64	2.5	0.9	2.0	229	9.01	9.4	19.9	1/4 BSP	10	3/8
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CIRCULAR SAW - capacity 10mm (3/8") depth (hard steel 1.2mm (3/64") depth)

C	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

D	D172-L	615 170 520 0	-	20000	80	3.2	0.74	1.6	273	10.75	9.5	20	1/4 BSP	10	3/8
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VACUUM CLEANER

E	AV101	128534	-	-	-	-	0.7	1.54	202	7.95	5.9	12.5	1/4 BSP	6	1/4
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VACUUM PEN

F	V100	129504	-	-	-	-	0.45	0.99	137	5.39	0.7	0.33	3.6 Spline	4	5/32
---	------	--------	---	---	---	---	------	------	-----	------	-----	------	------------	---	------



Air Line Accessories

Desoutter Air Line Accessories are specially developed to be used with Desoutter Tools & Equipments

Desoutter Air Line Accessories can also be used with other pneumatic products

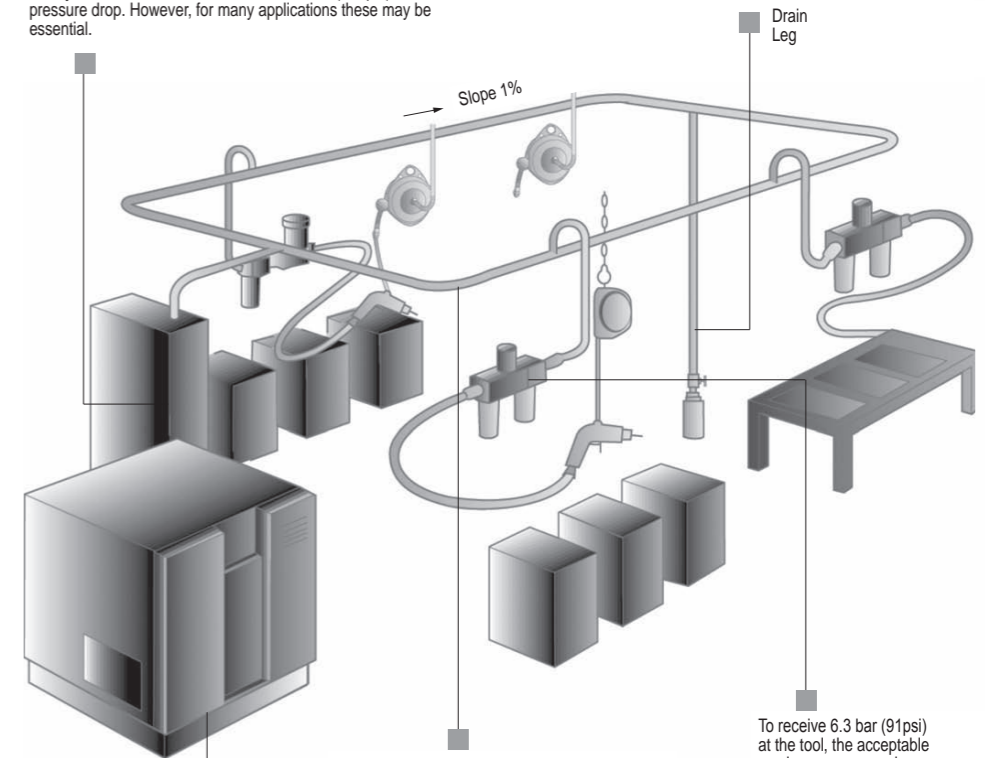
All accessories can be used for other applications with any pneumatic equipments

Desoutter Air Preparation Units are designed to help you get maximum performance from your tools

They ensure minimal pressure drop and thus minimum energy losses in the air distribution system, benefiting the environment and cutting your operating costs

The lifetimes of your tools will be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation guarantees productivity and good total economy

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.



A normal compressor can deliver up to 7.5 bar (109 psi) air line pressure, depending on start and stop settings.

A carefully designed network virtually eliminates pressure drop. We recommend a Ring Main layout which has a slope away from the input of 1%.

To receive 6.3 bar (91psi) at the tool, the acceptable maximum pressure drop from airline accessories is 0.6 bar (9 psi). A combination of high performance components and careful engineering will achieve this.

When developing the Desoutter Air Line Accessories range, we have focused on Performance, Quality, Ergonomics and Safety. Based on this, we now offer a wide range of accessories for optimal air line installation.

Our accessories enable to reach higher productivity with lower energy consumption, a sustainable reduction of energy costs and an extended lifetime of your tools

Performance

In order to get the best performance out of your air line installation it is key to supply air at a constant pressure (6.3 bar) This, together with minimizing the pressure drop, is the primary focus when designing the Desoutter couplings, hoses and FRLs

The result is not only a better performance in terms of a reduction of energy costs but also in a better lifetime of the tools

Ergonomics and Safety

To further improve the comfort of use for our customers we now offer hoses in our EFFI line with lower weight and more flexible. In combination with Easy Flow, Safety couplings, Airflex and high quality balancers you can build up a workplace where the operators' safety and ergonomics are in focus

Quality

All our products are developed to perform in industrial applications. Desoutter Accessories are made with the highest quality materials to ensure the best possible performance and lifetime of the tools

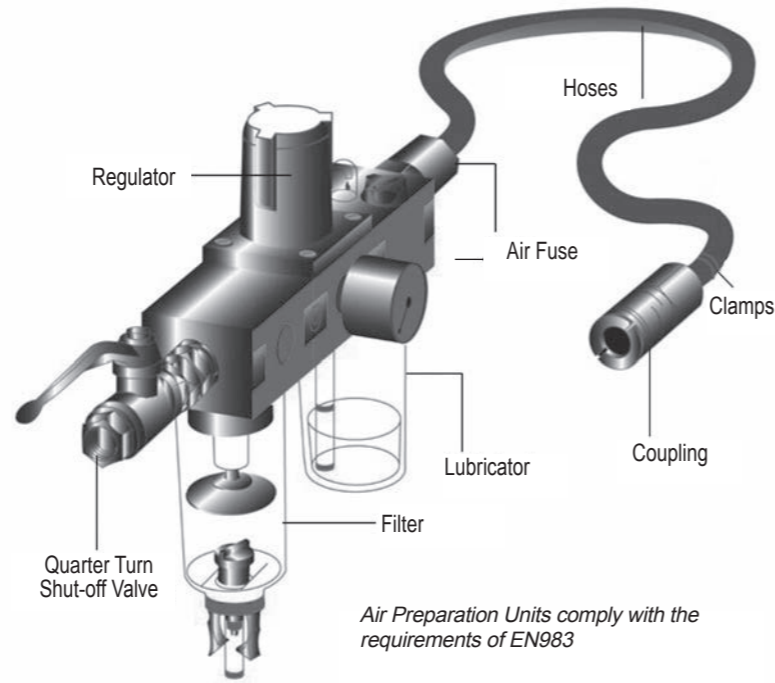
Air preparation units

Air preparation units

FILTERS, REGULATORS, LUBRICATORS

Why should you use a filter, regulator and lubricator ?

The use of a filter, regulator and lubricator (in that order) for pretool air preparation is strongly recommended by Desoutter. Proper air preparation will result in improved tool performance and increased tool life. The units should be mounted as close to the tool as possible, preferably right where the tool hose is connected to the system. To realize their full value, these units should be checked on a regular assigned basis by maintenance workers or the operators themselves



Air Preparation Units comply with the requirements of EN983

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.

Regulator

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.

TOOL PRESSURE	AIR CONSUMPTION
91 psi (6 bar)	100 %
101 psi (7 bar)	110 %
116 psi (8 bar)	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 a mist of oil to the air hose.

DIFFERENT TYPES OF FRL	PORT SIZE IN.	AIR FLOWS AT 6 BARS CFM (L/S)
Small units	1/4	Up to 19 (9)
	3/8	Up to 29.7 (14)
Medium units	1/2	Up to 78.4 (37)
Big units	1	Up to 175.9 (83)

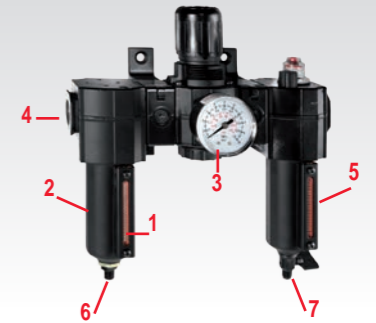


Max air flow Δ 14.5 PSI (1 bar)

FEATURES AND BENEFITS

High air flow capacity: up to 104 l/s (220 cfm) to cover most of the pneumatic tool needs
Available in kits: 1/4", 1/2", 3/4", BSP or NPT, 2 or 3 stages units or individual units.
Durable design including quick release bayonet metal bowls for rough working environments

- (1) Liquid level indicator on the bowls for improved reading
- (2) Filter with 5µm element pre-installed to optimize the air cleaning and with automatic drain valve
- (3) Supplied with metal pressure gauge 0-10 bar (0-145 PSI) with metric and imperial scales
- (4) 10-17 bar (145-245 PSI) inlet / outlet max. pressure
- (5) Micro fog lubricator to optimize the air/oil ratio
- (6) Automatic drain valve
- (7) Manual drain



FILTER-REGULATOR LUBRICATOR WITH PRESSURE GAUGE (0-150PSI - 0-10 BAR)	THREAD	MAX. AIR FLOW		MAX. PRESSURE	OIL CAPACITY		PART NUMBER	
		cfm	l/s		oz	ml	NPT	BSP
2 STAGE	1/4 G	24	11	150/10	3.4	100	894 016 851 5	894 016 847 8
2 STAGE	1/2 G	110	50	246/17	6.8	201	894 016 851 7	894 016 848 0
2 STAGE	3/4 G	220	100	246/17	6.8	201	894 016 851 9	894 016 848 3
3 STAGE	1/4 G	24	11	150/10	3.4	100	894 016 851 6	894 016 847 9
3 STAGE	1/2 G	110	50	246/17	6.8	201	894 016 851 8	894 016 848 1
3 STAGE	3/4 G	220	100	246/17	6.8	201	894 016 852 0	894 016 848 4

Included with the units: Filter 5µm, Pressure gauge 0-150 psi - 0-10 bar, Microfog lubricator, Automatic drain valve

FILTER UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 1	894 016 909 0
1 STAGE	1/2 G	894 016 909 9	894 016 909 8
1 STAGE	3/4 G	894 016 910 7	894 016 910 6

REGULATOR UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 3	894 016 909 2
1 STAGE	1/2 G	894 016 910 1	894 016 910 0
1 STAGE	3/4 G	894 016 910 9	894 016 910 8

PRESSURE GAUGE	SIZE	Ø	MAX PRESSURE	PART NO.	
					in.
1/8" - 0-10	1/8"G	1.57	40	150 PSI (10bar)	894 016 917 8
1/8" - 0-10	1/8"NPT	1.57	40	150 PSI (10bar)	894 016 917 9
1/8" - 0-10	1/8"G	1.97	50	150 PSI (10bar)	894 016 918 0
1/8" - 0-10	1/8"NPT	1.97	50	150 PSI (10bar)	894 016 918 1

LUBRICATOR UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 5	894 016 909 4
1 STAGE	1/2 G	894 016 910 3	894 016 910 2
1 STAGE	3/4 G	894 016 911 1	894 016 911 0

FILTER-REGULATOR	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 7	894 016 909 6
1 STAGE	1/2 G	894 016 910 5	894 016 910 4
1 STAGE	3/4 G	894 016 911 3	894 016 911 2

SPRAY PAINT UNIT	PART NUMBER
Filter 0.01µm	894 017 047 2


LUBRICATION see page 268

Couplings

QUICK RELEASE COUPLINGS - EURO SERIES: EUROPE


EURO 7.6mm / Max air flow capacity 34 l/s - 72 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 19 l/s - 40 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	BSP	in.	BSP	mm	
1/4	615 811 072 0	1/4	615 811 075 0	6	615 811 078 0
3/8	615 811 073 0	3/8	615 811 076 0	8	615 811 079 0
1/2	615 811 074 0	1/2	615 811 077 0	10	615 811 080 0
				13	615 811 081 0

 Nipples Euro 7.6mm
see page 269

EURO 10.4mm / Max air flow capacity 57 l/s - 121 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 37 l/s - 78 cfm (Delta 0.2 bar / 2.9 psi)


MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	BSP	in.	BSP	mm	
1/4	615 811 082 0	1/4	615 811 085 0	6	615 811 088 0
3/8	615 811 083 0	3/8	615 811 086 0	8	615 811 089 0
1/2	615 811 084 0	1/2	615 811 087 0	10	615 811 090 0
				13	615 811 091 0

 Nipples Euro 10.4mm
see page 269

QUICK RELEASE COUPLINGS - ISO 6150B MIL-C4109: NORTH AMERICA, FRANCE, ITALY


ISO 6150B 6mm / Max air flow capacity 15 l/s - 32 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 11 l/s - 23.3 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	NPT	in.	NPT	mm	
1/4	615 811 042 0	1/4	615 811 045 0	6	615 811 048 0
3/8	615 811 043 0	3/8	615 811 046 0	8	615 811 049 0
1/2	615 811 044 0	1/2	615 811 047 0	10	615 811 050 0
				13	615 811 051 0

 Nipples ISO 6150B 6mm
see page 270


ISO 6150B 8mm / Max air flow capacity 30 l/s - 63 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 20 l/s - 42 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	NPT	in.	NPT	mm	
1/4	615 811 052 0	1/4	615 811 055 0	6	615 811 058 0
3/8	615 811 053 0	3/8	615 811 056 0	8	615 811 059 0
1/2	615 811 054 0	1/2	615 811 057 0	10	615 811 060 0
				13	615 811 061 0

 Nipples ISO 6150B 8mm
see page 270

ISO 6150B 11mm / Max air flow capacity 60 l/s - 127 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 40 l/s - 85 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	NPT	in.	NPT	mm	
1/4	615 811 062 0	1/4	615 811 065 0	10	615 811 068 0
3/8	615 811 063 0	3/8	615 811 066 0	13	615 811 069 0
1/2	615 811 064 0	1/2	615 811 067 0	16	615 811 070 0
				19	615 811 071 0


 Nipples ISO 6150B 11mm
see page 270

Couplings

QUICK RELEASE COUPLINGS - ASIA 7.5MM: JAPAN, CHINA, INDIA

ASIA 7.5mm / Max air flow capacity 17 l/s - 36 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 11 l/s - 23.3 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER	FEMALE THREAD	PART NUMBER	HOSE CONNECTION	PART NUMBER
in.	R	in.	R	mm	
1/4	615 811 032 0	1/4	615 811 035 0	6	615 811 038 0
3/8	615 811 033 0	3/8	615 811 036 0	8	615 811 039 0
1/2	615 811 034 0	1/2	615 811 037 0	10	615 811 040 0
				13	615 811 041 0

 Nipples ASIA 7.5mm
see page 271

Safety Instructions

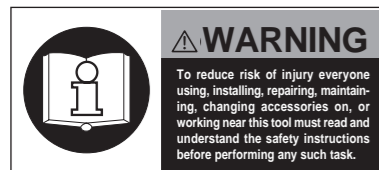
General Safety Instructions for the Operation of Power Tools

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, 8NTC1.2.

Sound levels +/- 3dB(A)* are measured in accordance with EN ISO15744. Vibration values* are measured in accordance with ISO8662 & ISO28927.

*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



PULSE TOOLS

- 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 overtorqued or under-torqued 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-torqued 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.

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 lbft) on straight case tools and 10Nm (7.4 lbft) 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.

Notes

Notes



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

■ **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.



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.

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.



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.

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.

Conversion table

LENGTH

1 in.	=	0.0254 m
1 m	=	39.3701 in / 3.2808 ft
1 mm	=	0.0393701 in

WEIGHT

1 lb	=	0.4536 kg
1 kg	=	2.2046 lb

TORQUE

1 kpm	=	9.8067 Nm
1 ft-lb	=	1.3558 Nm
1 in-lb	=	0.1130 Nm
1 Nm	=	0.1020 kpm
1 Nm	=	0.7376 ft-lbs

POWER

1 kpm/s	=	9.8067 W
1 hp	=	745.7 W
1 hp	=	101.972 kpm/s
1 KW	=	1.3410 hp

AIR PRESSURE

1 bar	=	100 kPa
1 kp/cm ² (at)	=	98.0665 kPa
1 psi	=	6.8948 kPa
1 kPa	=	0.0101972 kp/cm ² (at)

AIR FLOW

1 m ³ /min	=	16.6667 l/s
1 cfm	=	0.4720 l/s
1m ³ /h	=	0.2778 l/s
1 l/s	=	2.1189 cfm

More Than Productivity



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English 615 993 934 1
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