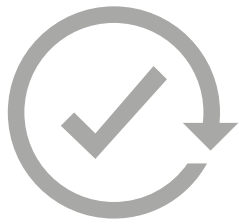




Industrial Tools



[Click here for latest issue](#)



More Than Productivity

Interactive Catalog

Get 3D full scale, spare parts access, fast start up & more ...

Run augmented reality with Desoutter Xperience and benefit from :

- 3D full scale
- Application pictures
- Video
- Spare parts access
- Fast start up
- ...



1st Step

Download & run Desoutter Assistant app on smartphones or tablets



2nd Step

Click "Catalogs & Leaflets", then "Scan your interactive catalog" and launch the page experience!



iOS | ANDROID
available now!

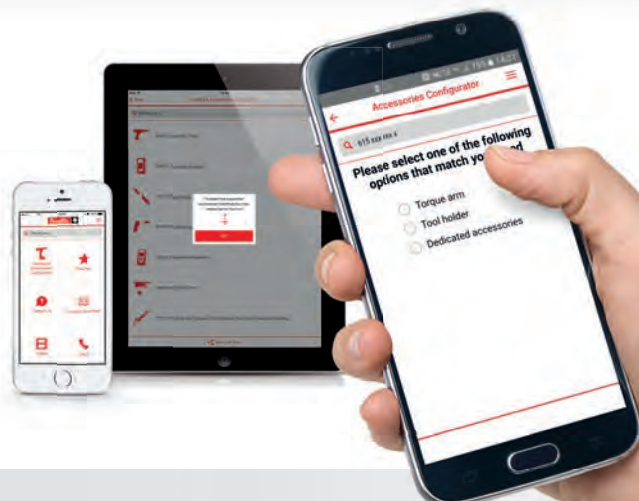


Table of Contents

DESOUTTER PRESENTATION	4	TORQUE MEASUREMENT SYSTEMS	146
DESOUTTER SERVICE	10	Data Analyzer - Delta	146
SELECTION GUIDE - ASSEMBLY TOOLS	15	DWTA, Delta - Digital wrenches - Torque and angle	148
BATTERY STAND ALONE ASSEMBLY TOOLS	16	Alpha - Low torque analyzer	156
E-LIT Series - Clutch type	17	DRT, DST, PST, DJS - Digital rotary, static and pulse transducers	158
B-FLEX Series - Transducerized	22	Delta Cart - Calibration	164
B-FLEX QRX	26	CUSTOMIZED SOLUTIONS	136
B-LRTA	27	Specific nutrunners & spindles / Multiplus	137
ELECTRIC ASSEMBLY SYSTEMS	30	Arms and torque tubes	140
CONNECT - Industrial Smart Hub	31	Special solutions	142
B-LRTC, EPBcom, EABcom - Battery nutrunners	37	Screwfeeder solutions	144
CVI3 Controllers	43	SELECTION GUIDE - DRILLING AND RIVETING	193
EAD, EID, ERP, ERP-HT - Nutrunners	48	AUTOMATIC DRILLING UNIT	196
EFDE, EFDS, EFDA - Fixtured spindles	56	PNEUMATIC DRILLS AND TAPPERS	204
CVIR II Controllers	72	COMPRESSION TOOLS AND PNEUMATIC RIVETING	224
ERS - Screwdriver	75	Drills and Tappers	204
CVIXS - Controller	76	Multi drills	205
Nano Driver - Low torque screwdrivers	77	Angle drills	210
CVIL II Controllers	78	Pistol drills	215
E-PULSE - Electric pulse nutrunners	79	Straight drills	218
ERP, ERAL, ERDL - Nutrunners	80	Controlled drilling	219
MultiCVIL II Controllers	81	Tappers, deburring tool and rivet shaving	220
EME, EMEL - Fixtured spindles	83	Rack feed drills	222
CVIC II Controllers	86	Compression tools	224
ECS - Screwdrivers	92	Riveting hammers	229
ECP, ECA, ECD - Nutrunners	93	SELECTION GUIDE - REMOVAL TOOLS	233
ECSF, MC - Fixtured spindles	98	PNEUMATIC GRINDERS / SANDERS	234
Posco 500 - Positioning system	100	Grinders for carbide burrs, mounted points and sanding discs	235
DIGITAL EXPERIENCE	62	Routers	242
Set your tools right	62	Grinders for type 1 wheels, cone wheels, depressed center wheels	244
CVI3 & CONNECT Platform -		Sanders for expandables wheels, flap wheels and abrasive discs	260
CVI Config, CVI Monitor, CVI Analyser, CVI Key	62	Dust extraction systems for grinders and sanders	270
E-LIT Platform - E-LTI Config	64	Random orbital sanders, Polishers and Orbital sanders	278
Other Platform - CVIPC2000	64	Belt sanders	290
Improve your measurement	65	MISCELLANEOUS TOOLS	292
Delta Range - Delta QC Licensed, Advanced, Free version	65	Saws, Vacuum pen, Vacuum cleaner, Air scribe	293
Live data reporting & traceability	66	TOOL ACCESSORIES	166
Product features - CVI Net Web	66	Reaction arms	168
Product references list - CVI Net Web	67	Telescopic reaction arms	178
PivotWare - Process Control	68	Torque tubes	183
Product features	68	Balancing arms	186
Product references list	70	Balancers	188
ELECTRIC SCREWDRIVERS	104	Tool holsters	190
ESP1 / ESP2 Controllers	105	Automatic screw dispenser	191
SLBN - Screwdrivers	106	AIR LINE ACCESSORIES	295
ESP C Controllers	108	Hoses	296
SLC - Screwdrivers	109	Air flex	297
PNEUMATIC FASTENING TOOLS	112	Fastener Accessories	299
Shut off - Straight, pistol and angle head screwdrivers	120	SAFETY INSTRUCTIONS	320
Non shut off - Straight and pistol screwdrivers	125		
Direct drive - Pistol and angle head screwdrivers	127		
Automatic reverse screwdrivers	128		
Shut off - Torque controlled	129		
PTF - Pulses	134		

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".

1914
 Foundation of Desoutter
 First Duralumin artificial limbs are created

1918
 Foundation of Georges Renault
 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

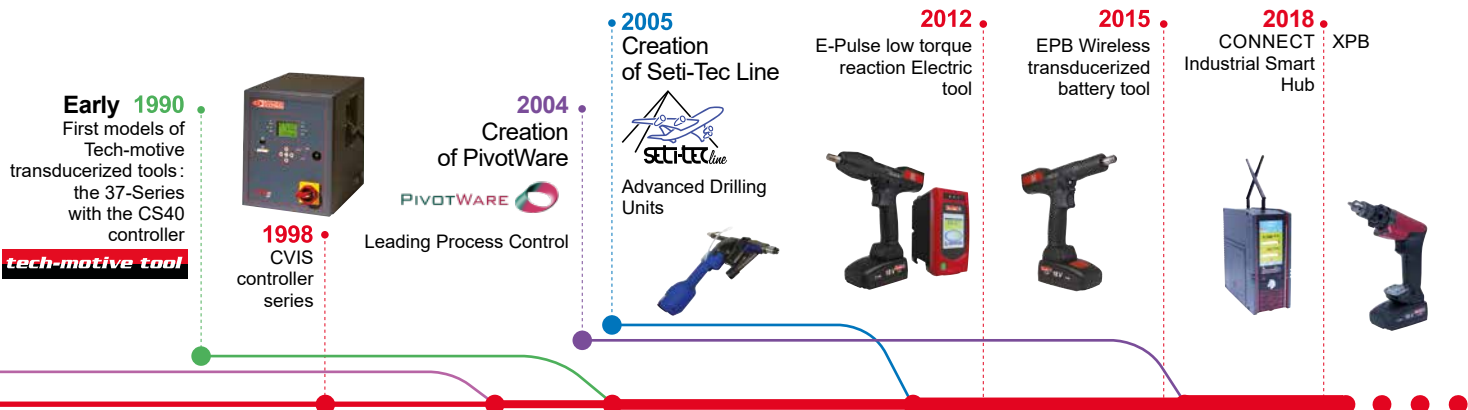
1990
 First models of Georges Renault transducerized tools:
 SE hand held tools with the Case 40 controllers

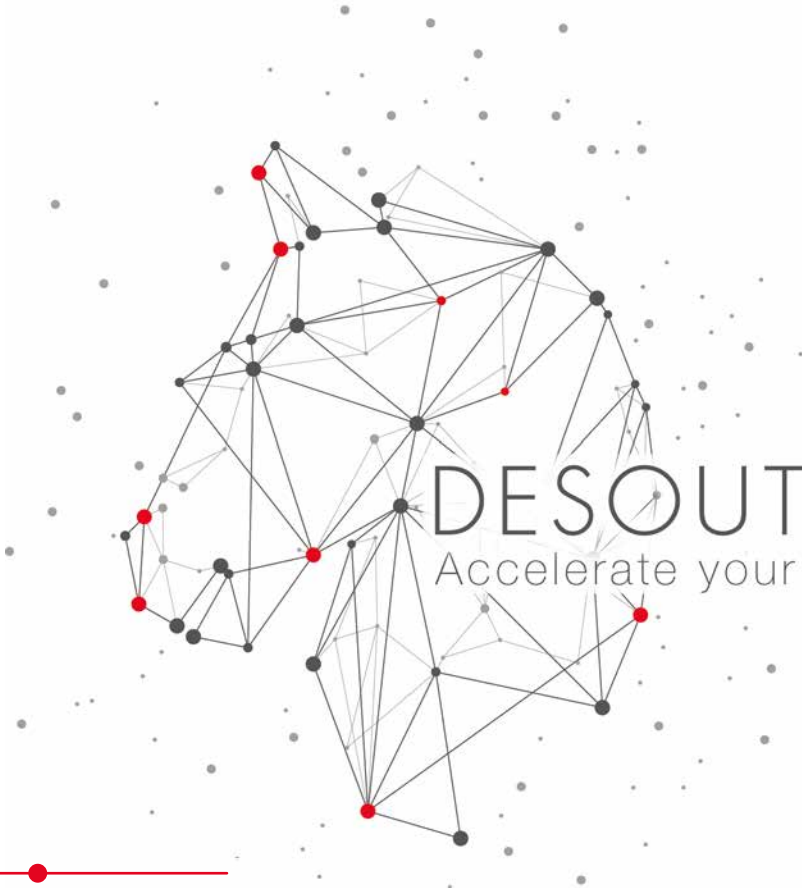




Order book P.N. 615 993 957 0

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





DESOUTTER 4.0

Accelerate your transformation

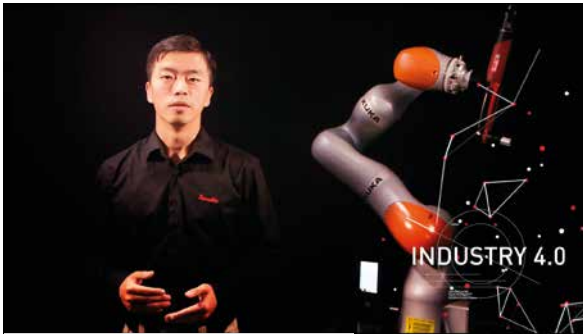


DESOUTTER 4.0

Intelligent assembly solutions

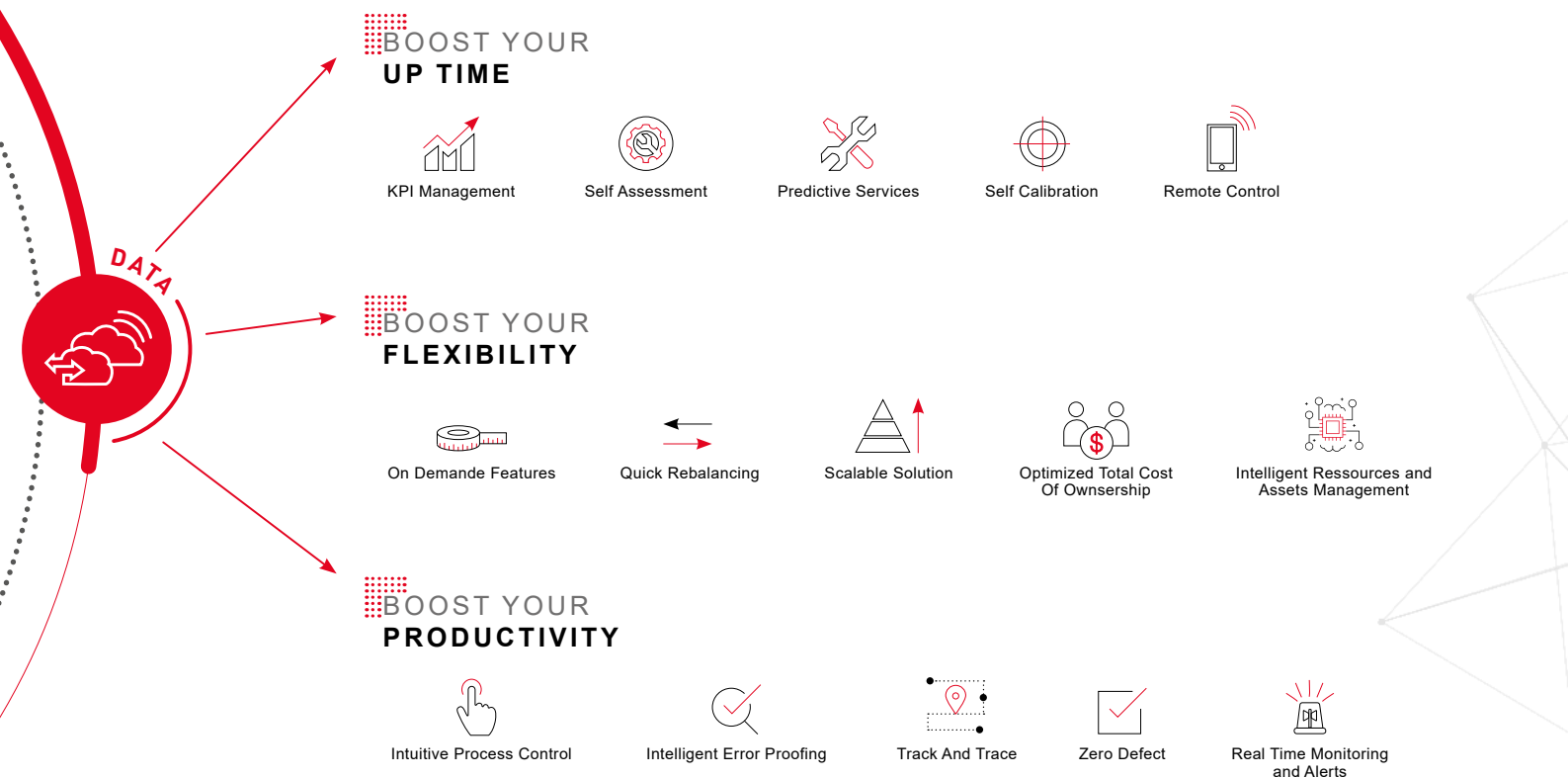
- Production ready!
- Augmented assistance
- Ergonomic product
- Safety
- Paperless solution
- Work instructions guidance
- Industrial Smart Hub

The increasing digitalization of the manufacturing sector means the era of the smart factory is now upon us. The fitting of myriad equipment with sensors, and the ability to collect, transmit and interpret data in real-time, is leading to previously unattainable levels of traceability and control. That is enabling tools, machines and people to communicate like never before. This trend, commonly referred to as Industry 4.0, is giving companies far better visibility of their industrial processes, ensuring that potential problems can be identified before they occur.



Here at Desoutter, we are committed to turning Industry 4.0 into products and services that deliver maximum benefit to our customers and partners. From reduced downtimes, to more flexible production processes with lower costs, Industry 4.0 has the potential to transform the ways organizations perform.

So you can concentrate on your core your assembly expert is here !



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...

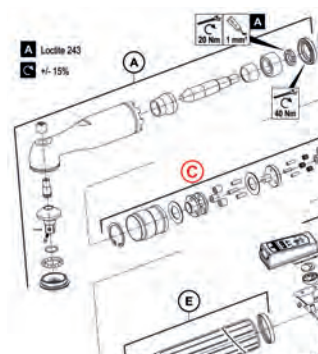
Our support services keep your processes operating at maximum levels – and leave you to focus on your core business.

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 Link: spare parts access point!

www.desouttertools.com/service



1



Designed as a Search Assistant

- ☑ Organised per tool for an easy navigation, plus a powerful search function for a quick result. Type a tool name or ref ID, here you are with spare part details!
- ☑ How to know to which tool a spare part belongs to? Just click on "Where used" function!

2



Intuitive navigation

- ☑ In one click, Hotspot Function in exploded views select relevant reference ID for a Quick and Easy spare part identification!

3



Simplified order process

- ☑ Prepare a basket in Service Link and customise it with internal references.
- ☑ Download it in PDF, XML or Excel files and improve your usual order process.
- ☑ Or, direct place orders through your eConnect account.

4



Data download

- ☑ Go live updates! Whenever you need, download up-to-date documentation, either complete overview or partial details of tool spare parts list!

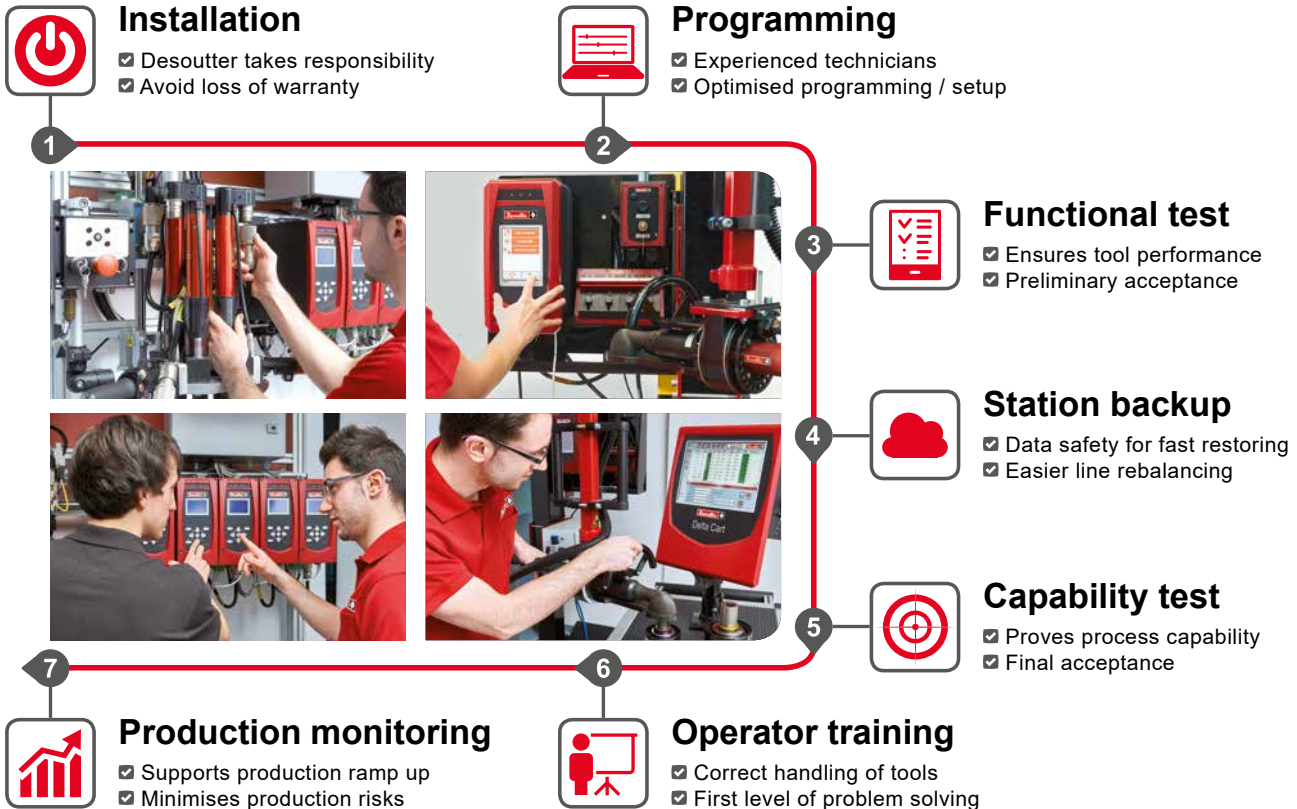


Desoutter Smart start

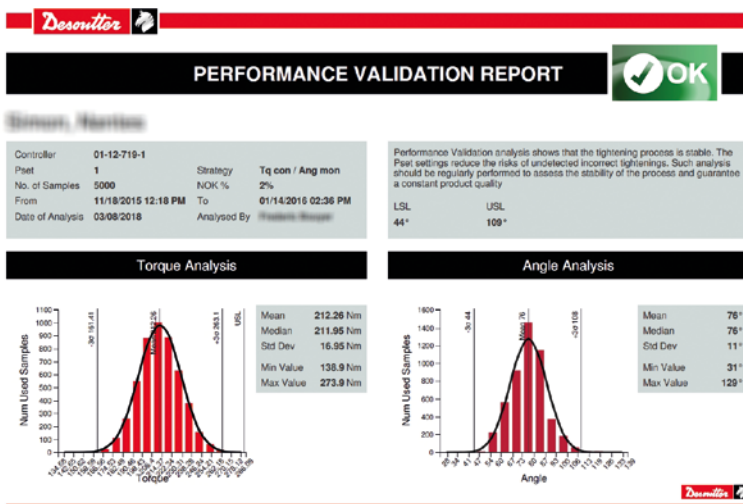
High performance, right from the start



Start-up



Performance validation



Use data collected from the controllers after start up and during full production


- ✔ To get formal internal handover from Project to Production and Maintenance
- ✔ To Detect programming optimisation
- ✔ To Improve operators performance
- ✔ To Support on root cause analysis

Contact your local sales representative for more information

Maintenance Solutions & Production Support




Maintenance solutions Focus on tools reliability



Basic Care

Less breakdowns, longer life

Preventive Maintenance labour	✔
Preventive Maintenance wear out spare parts included	✔
Calibration	✔
Repair at Desoutter workshop	—
Repair spare parts included*	—
Phone support	—
On-site Repairs	—
Maintenance KPIs	—
On-site production support	—



Smart Care

Increase savings from optimised maintenance

Preventive Maintenance labour	✔
Preventive Maintenance wear out spare parts included	✔
Calibration	✔
Repair at Desoutter workshop	✔
Repair spare parts included*	✔
Phone support	✔
On-site Repairs	—
Maintenance KPIs	—
On-site production support	—



Peace Of Mind

Focus on your core business

Preventive Maintenance labour	✔
Preventive Maintenance wear out spare parts included	✔
Calibration	✔
Repair at Desoutter workshop	✔
Repair spare parts included*	✔
Phone support	✔
On-site Repairs	✔
Maintenance KPIs	✔
On-site production support	✔

BENEFITS

Fixed Price

- Ensures tools reliability and assembly quality
- Reduces tools breakdown (higher availability)
- Minimises production stoppage risk
- Longer tool life cycle at lower repair costs
- Reduces the Total Cost of Ownership

BENEFITS

Fixed Price

- ✚ **Basic Care** benefits
- Predictable maintenance budget
- Complete equipment care
- Streamlined repair flow

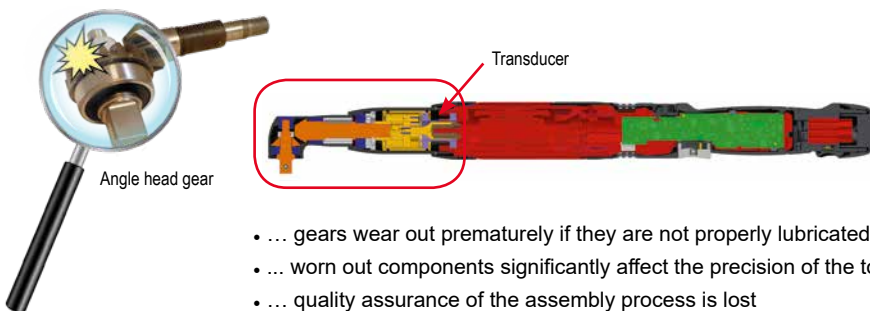
BENEFITS

Fixed Price

- ✚ **Smart Care** benefits
- Uptime optimisation
- Shorter repair Turn Around Time
- Quick on-site support (problem solving)
- Customer focus on core business

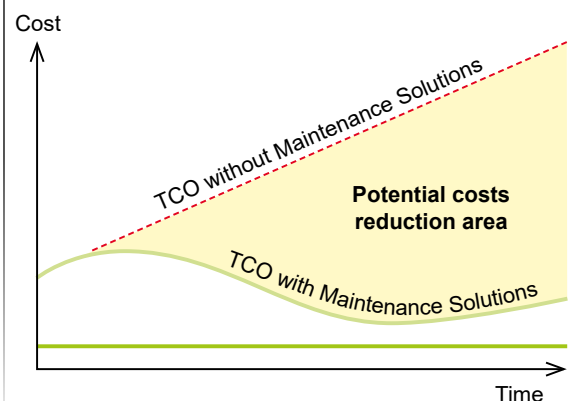
*All spare parts included (except in case of tool abuse or misuse)

Without a Maintenance Solution...



- ... gears wear out prematurely if they are not properly lubricated
- ... worn out components significantly affect the precision of the tool
- ... quality assurance of the assembly process is lost
- ... choosing to invest in highest tightening technology becomes an ineffective choice

Total cost of ownership (TCO)





Production support

Increases assembly process performance

On-site technicians
Our certified field technicians are at your disposal to support you with solving on-site issues or assist in identifying process improvement opportunities

Performance validation (PV)
Aims to identify improvements opportunities and predict eventual issues, ensuring the assembly system performance at full production conditions

Certification training
Develop your technicians knowledge on troubleshooting and assembly techniques and improve the interaction with our technicians when using the remote service

BENEFITS

- Quick response time for technical support
- Solves problems on-site (minimises tools transfers)
- Increases equipment uptime
- Reduces Total Cost of Ownership
- Identifies process improvement opportunities

BENEFITS

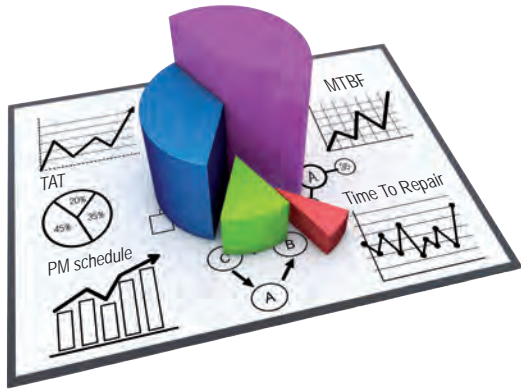
- Optimises programming (higher productivity)
- Implements Predictive Maintenance
- Supports the root cause analysis
- Identifies competence gaps

BENEFITS

- Enhances customer's knowledge on troubleshooting
- Autonomy to solve less complex technical issues
- Faster production recovery (increase uptime)
- Validates any remote solution prior to implementation
- Better technical communication with our technicians

Contact your local sales representative for more information

Service driven by KPIs



Cost of Ownership

- Unplanned downtime
- Production loss
- Overtime
- Quality problems
- Warranty
- Re-work
- Recall
- Higher repair costs
- Inefficient repair flow

Remote Service



Desoutter remote service (via phone or CVI3 controller connection) allows faster diagnosis of problems and more efficient support

Desoutter Virtual Showroom



Desoutter Industrial Tools introduces the Virtual Showroom !

Discover Desoutter Industrial Tools exhaustive Assembly and Drilling Solutions while navigating in the Virtual Showroom.

Easily find all our products, applications and service support or contact the nearest Desoutter representative for a demonstration or a quote.

Stay up-to-date with our products, watch videos and access direct links to our product specifications and user manuals.

Download the Showroom application now and keep the connection with Desoutter Industrial Tools anywhere, anytime, even where you're offline !

Download now for
iOS | Android | Windows/Mac

showroom.desouttertools.com



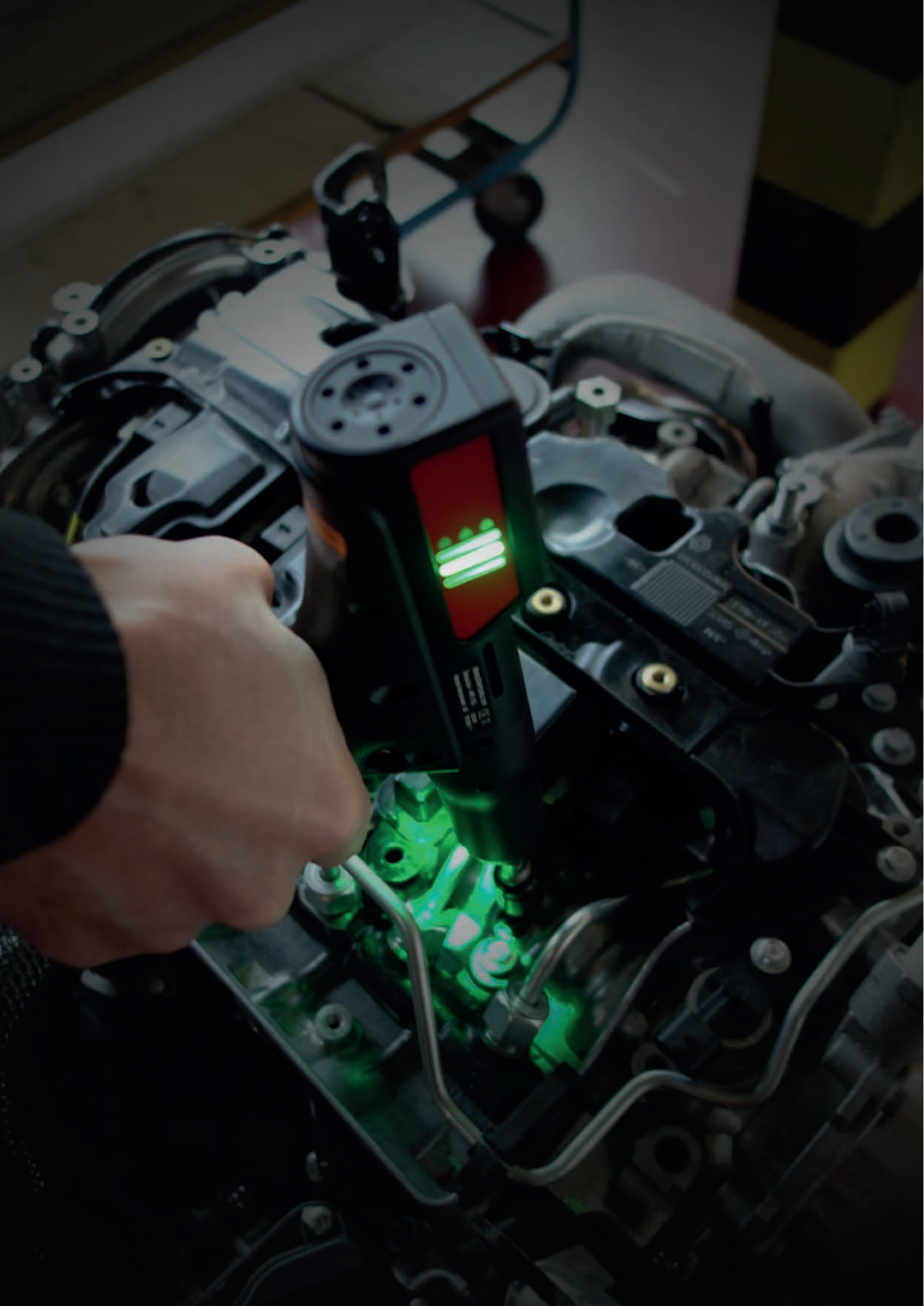
desoutter.info/showroomIPad



desoutter.info/showroomAndroid

Assembly Tools - Selection guide

TOOL TYPE	PAGE
BATTERY STAND ALONE ASSEMBLY TOOLS 	16-28
INDUSTRIAL SMART HUB & WIRELESS TRANSDUCERIZED BATTERY TOOLS 	30-41
ELECTRIC TRANSDUCERIZED DC TOOLS & NUTRUNNERS 	42-61
DIGITAL EXPERIENCE - CVI Config / CVI Monitor / CVI Analyzer / CVI Key / E-LIT Config / Delta QC / CVI Net Web / PivotWare	62-71
ELECTRIC TRANSDUCERIZED DC TOOLS - PC & Networks/Software - CVIR II / MULTICVIL II / CVIL II / CVIXS 	72-85
ELECTRIC CURRENT CONTROLLED DC TOOLS - CVIC / POSCO 	86-103
ELECTRIC FASTENING TOOLS 	104-111
PNEUMATIC FASTENING TOOLS 	112-135
TORQUE MEASUREMENT SYSTEMS 	146-165
CUSTOMIZED SOLUTIONS: Screwfeeders - Multiplus - Arms 	136-145











E-LIT Series - Optimize your performance

Clutch Battery Tool range



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 	✓	✓	✓		
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

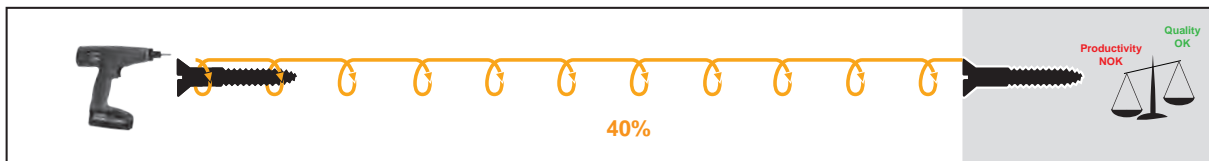
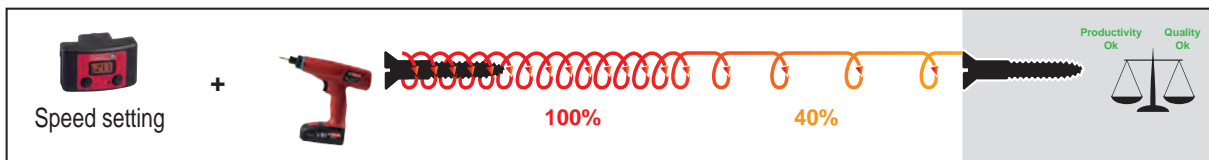
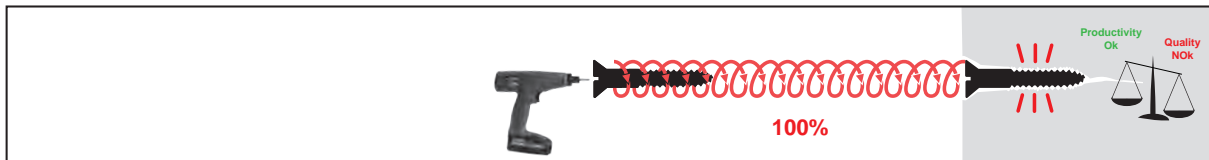
Two speed setting easily controlled by external module



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



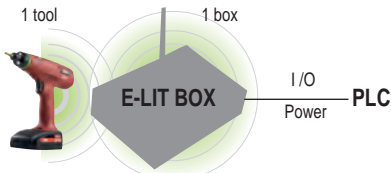
SOFTWARE
see page 64



E-LIT BOX

For Poka-Yoke application

FOCUS



Keep the pairing if box Off



Wireless communication
IEEE 802.15.4 standard Fast
reconnection time & Low
consumption



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

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



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

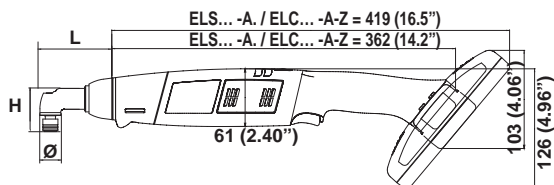
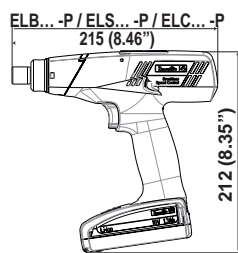


**Integrated buffer memory
up to 25 results**

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



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
ELS60 / ELC60	57.1	2.25	158.5	6.24	40	1.57

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
5	For Body angle head - Black		✓	✓	✓	615 211 004 0
5	For Body angle head - Blue		✓	✓	✓	615 211 025 0
5	For Body angle head - Red		✓	✓	✓	615 211 026 0
5	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
6	For Angle 60Nm - Black			✓	✓	615 211 005 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	Side handle - Pistol	✓			✓	615 396 757 0
10	Suspension bail - Pistol	✓			✓	443 703
11	Kit colour rings - Pistol (7 colors : white, yellow, orange, green, blue, purple, grey)	✓			✓	615 396 742 5
11	Kit colour rings - Angle tools (8 colors : white, yellow, orange, green, blue, purple, grey, black)		✓	✓	✓	615 970 114 5
12	Kit Nose Crowfoot	✓			✓	615 810 695 0
13	E-LIT BOX-V2				✓	615 936 310 0
14	Power supply E-LIT BOX				✓	615 927 053 0
15	eDOCK	✓	✓	✓	✓	615 811 976 0
	• E-LIT CONFIG software	✓	✓	✓	✓	-
Desoutter Tool Holsters						
16	DTH-42	✓			✓	107892
17	DTH-90	✓			✓	615 812 119 0
18	DTH TWIN (single) without rail		✓	✓	✓	615 811 411 0
19	DTH TWIN rail kit with 2 Twin holders		✓	✓	✓	615 811 412 5
20	DTH TWIN stand kit with 2 Twin holders		✓	✓	✓	615 811 413 5
	• License Elit PC Level 1				✓	615 927 685 0



E-LIT series

0.4 to 60 Nm (3.5 to 530 in. lb) - 50 to 1550 rpm



A



B



C



D

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 7-880-A10S	615 165 888 0	1.5-7	13.3-62	400-880	Sq. 3/8	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
D	ELS 60-160-A	615 165 632 0	25-60	220-530	50-160	Sq. 1/2	1.97	4.33	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
D	ELC 60-160-A-Z	615 165 711 0	25-60	220-530	50-160	Sq. 1/2	1.97	4.33	36

Battery not included in standard offering

B-FLEX: Performance and flexibility

FOCUS



KEYPOINTS

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: Ergonomy and control



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

eDOCK

Data to collect

Password protection

Battery level

Ergostop

Easy setting

Program setting

Results

10.03Nm
162.3Deg

B-FLEX ADVANCED (Standard features +)

6 Pset

6 TOOLS in 1 B-FLEX

Angle Strategy

Error proof your standard tightenings

Abort torque	6.000
Max. torque	5.280
Min. torque	4.320
Angle threshold	1.200
Pset start torque	0.480
Min. angle	80.0
Target angle	90.0
Max. angle	100

Full data collection

(up to 10 000 on CVI Analyzer)

CVI ANALYZER

USB cable included

eDOCK

B-FLEX Series - Pistol grip

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

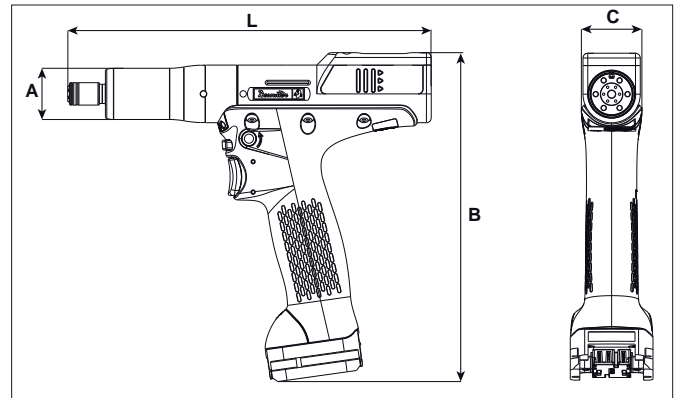


A



B

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



ACCESSORIES
see page 28

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					

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



A



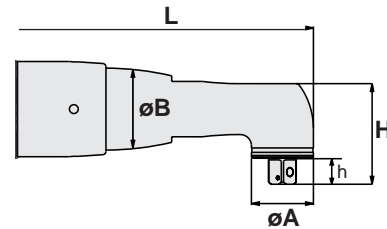
B



C

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 28

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
•	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 - TRANSDUCERIZED BATTERY TOOL

B-FLEX - ADVANCED

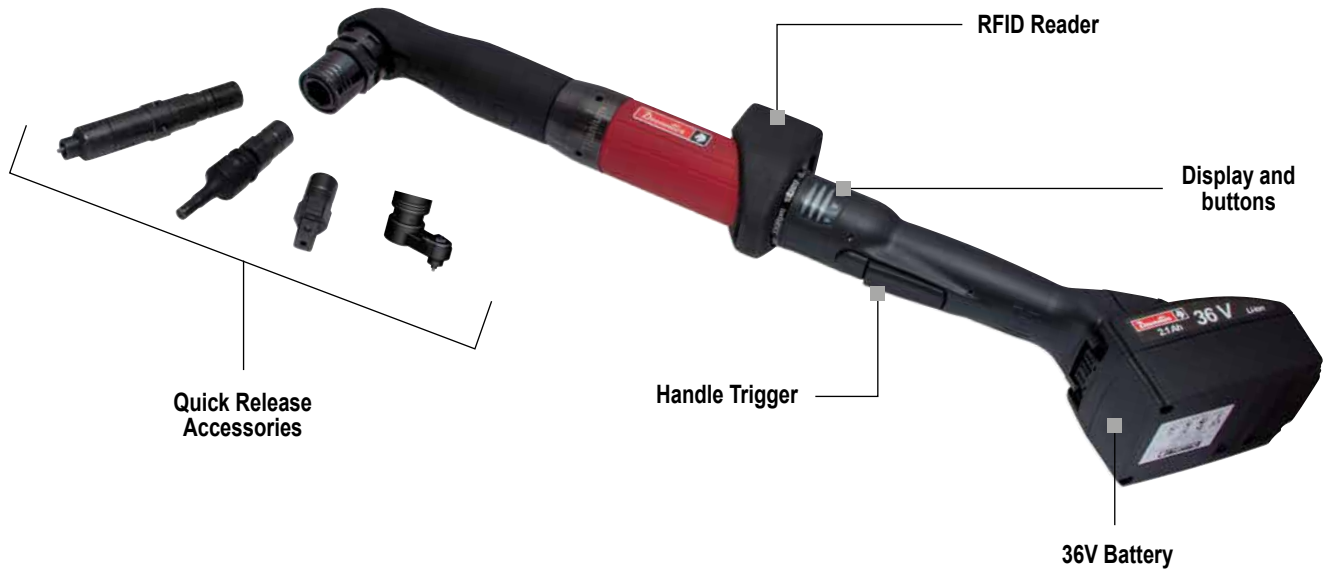
•	EABA15-900	615 165 961 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABA26-560	615 165 962 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABA32-410	615 165 963 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABA45-330	615 165 964 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABA50-450	615 165 965 0	3/8	9	45	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

B-FLEX QRX

5 to 95 Nm (3.7 to 70 ft. lb) - 10 to 560 rpm

Advanced Multi Applications Tool



BOOST YOUR PRODUCTIVITY

Real Time Pset selection for the selected Quick release accessory with RFID technology

BOOST YOUR FLEXIBILITY

Possibility to use the same tool for multiple applications

MODEL	PART NUMBER	TORQUE			ROTATIONAL MAX SPEED (RPM)	WEIGHT*	
		MIN	NOMINAL	MAX		kg	ilb
EABA26-560 QRX	615 166 080 0	5	24	26	560	2.04	4.50
EABA32-410 QRX	615 166 081 0	7	30	32	410	2.04	4.50
EABA45-330 QRX	615 166 082 0	9	40	45	330	2.21	4.87
EABA50-450 QRX	615 166 083 0	9	45	50	450	2.49	5.49
EABA60-370 QRX	615 166 084 0	10	55	60	370	2.82	6.22
EABA75-300 QRX	615 166 085 0	12	70	75	300	3.42	7.54
EABA95-240 QRX	615 166 086 0	19	90	95	240	3.46	7.63

*Weight without battery

All tools are powered by a battery pack 36V 2.1Ah

Battery pack weight: 560g / 1.23 lb

BLRTA

10 to 25 Nm (7.4 to 18.4 ft.lb) - 1520 to 2350 rpm



A



B

BOOST YOUR PRODUCTIVITY

- By reducing cycle time
- By improving joint quality
- By providing process quality

BOOST YOUR FLEXIBILITY

- Free of cable management
- Free of reaction arm
- Reduce total cost of ownership

BOOST YOUR UP TIME

- Boost the uptime of the operator
- Boost the uptime of the tool

	STANDALONE VERSION
Wifi Communication	N/A
Programming on the tool	✓
Pset	6
No. of step in Pset	1
Assembly process	N/A
Results	10 000 with CVI analyzer
Tightening Curve	N/A
Disconnected mode	N/A



ACCESSORIES
see page 28

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	OUTPUT RETAINING TYPE	TORQUE				ROTATIONAL MAX SPEED (RPM)		LENGTH		WEIGHT*		VOL-TAGE
					MIN	MAX	MIN	MAX	18V	36V	mm	in.	kg	in.	
					Nm	Nm	ft.lb	ft.lb							
A	BLRTA-2350-10S	615 166 023 0	Sq 3/8	Through hole	6	25	4.4	18.4	1520	2350	233	9.17	1.2	2.6	18/36
B	BLRTA-2350-4Q	615 166 024 0	Hex. 1/4	Quick change chuck	6	25	4.4	18.4	1520	2350	233	9.17	1.2	2.6	18/36

*Weight without battery

Accessories



B-FLEX / QRX / BLRTA / EAB / EPB

ACCESSORIES INCLUDED

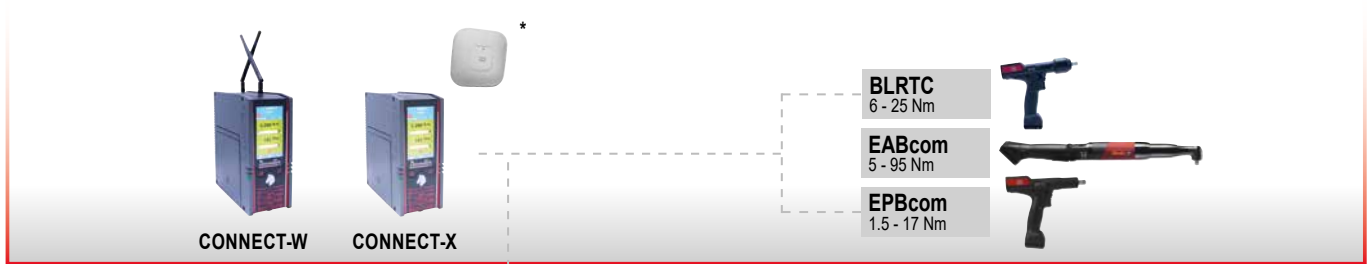
	EPB/EPBA	BLRTA
• Pistol protective cover Red	615 211 022 0	615 211 073 0

OPTIONAL ACCESSORIES

ITEM	EAB/QRX	EPB/EPBA	BLRTA
Battery type			
1		615 812 099 0	615 812 099 0
2		615 812 100 0	615 812 100 0
3	615 811 924 0	615 811 924 0	615 811 924 0
Charger			
4	615 811 654 5	615 811 654 5	615 811 654 5
Protective covers - Tools			
5	615 211 003 0		
5	615 573 207 0		
5	615 573 208 0		
5	615 573 209 0		
5	615 573 210 0		
6		615 211 019 0	
Protective covers - Battery			
7		615 396 871 0	615 396 871 0
7		615 211 041 0	615 211 041 0
7		615 211 042 0	615 211 042 0
7		615 211 043 0	615 211 043 0
7		615 211 044 0	615 211 044 0
7	615 396 872 0	615 396 872 0	615 396 872 0
7	615 211 046 0	615 211 046 0	615 211 046 0
7	615 211 047 0	615 211 047 0	615 211 047 0
7	615 211 048 0	615 211 048 0	615 211 048 0
7	615 211 049 0	615 211 049 0	615 211 049 0
Miscellaneous			
8		615 565 518 0	
9	615 811 976 0	615 811 976 0	615 811 976 0
10		615 397 016 0	
Desouter Tool holster			
11	615 811 411 0		
12	615 811 412 5		
13	615 811 413 5		
14		615 812 119 0	615 812 119 0

Advanced tightening systems

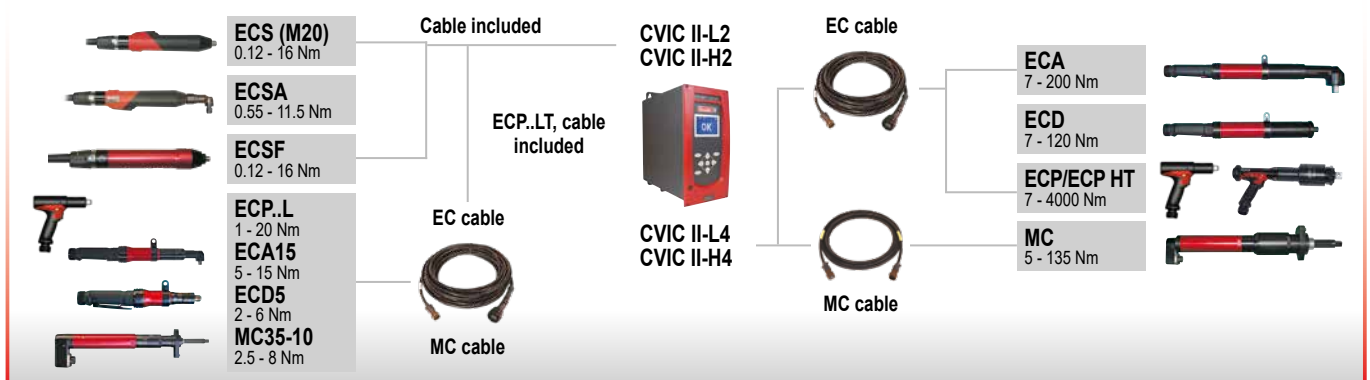
ELECTRIC TRANSDUCER CORDLESS

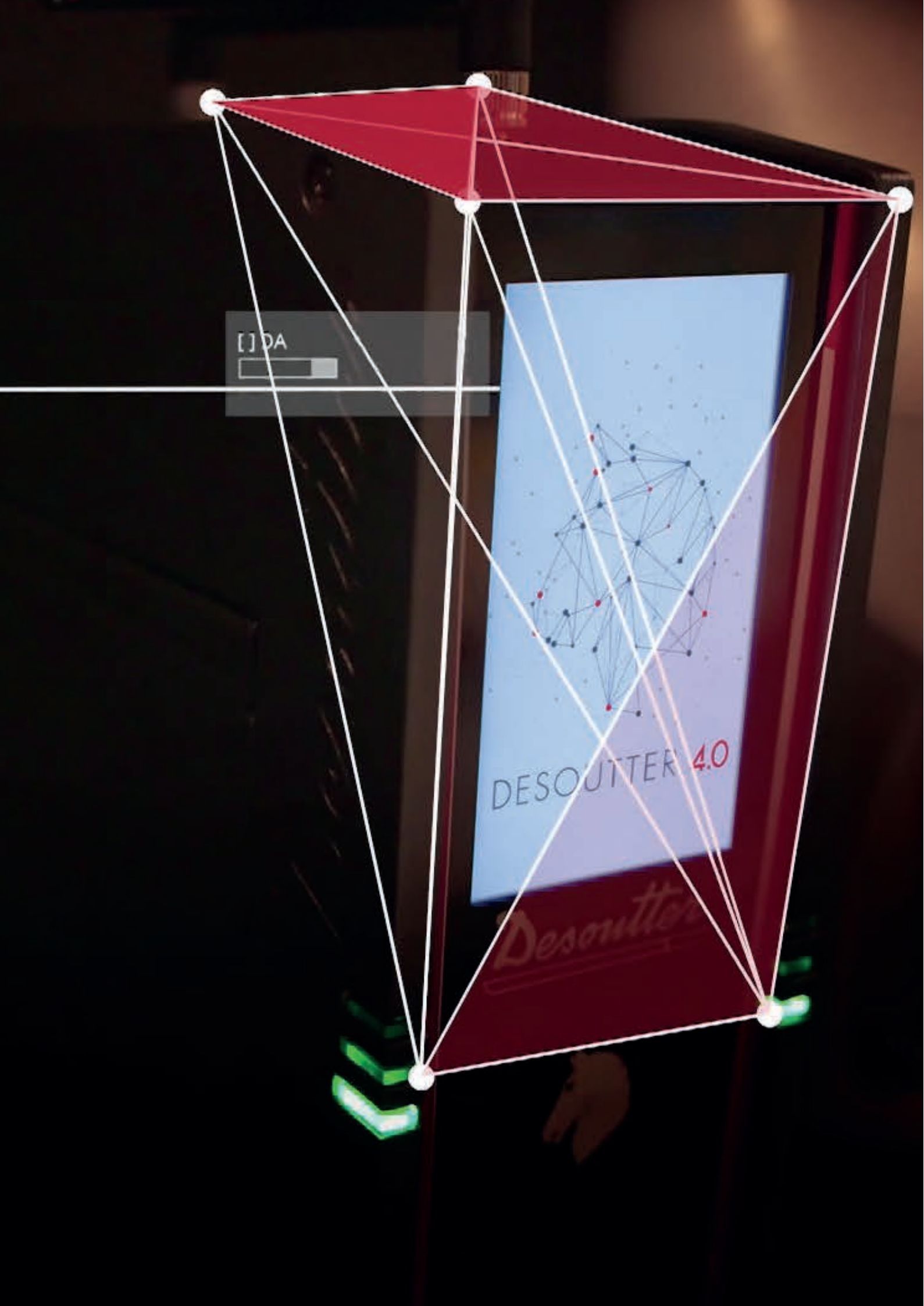


ELECTRIC TRANSDUCER CORD



ELECTRIC CURRENT CONTROL





[] DA



DESOUTTER 4.0

Desoutter



CONNECT - Industrial Smart Hub



SINGLE POINT OF CONNECTION FOR UP TO 20 TOOLS

With only one safety power supply
With only one Ethernet/fieldbus connection
With only one stand to mount the CONNECT

CAPACITIVE INDUSTRIAL GRADE TOUCH SCREEN

With several display options and quick response time.

MULTI-TOOL SOLUTION

Up to 20 tools connected to only one CONNECT.

FINE-TUNES SETTINGS & SCALABLE SOLUTION

With feature management fine-tunes the Tightening Units by loading only features needed for each application.



FOOTPRINT OPTIMIZATION

With a volume of only 4L, the CONNECT can be installed anywhere, under any constraints.

FEATURE REBALANCING

Easy feature rebalancing from tightening unit to another one.

EASY LINE REBALANCING

Pair the tool in less than 10 seconds, with easy contactless pairing feature.

REMOVABLE INTEGRATED MEMORY

Transfer DATA and settings from one CONNECT to another in a fast and effective way.

CONNECT - Industrial Smart Hub

CONNECT has been designed to meet today's and tomorrow's demanding production processes.

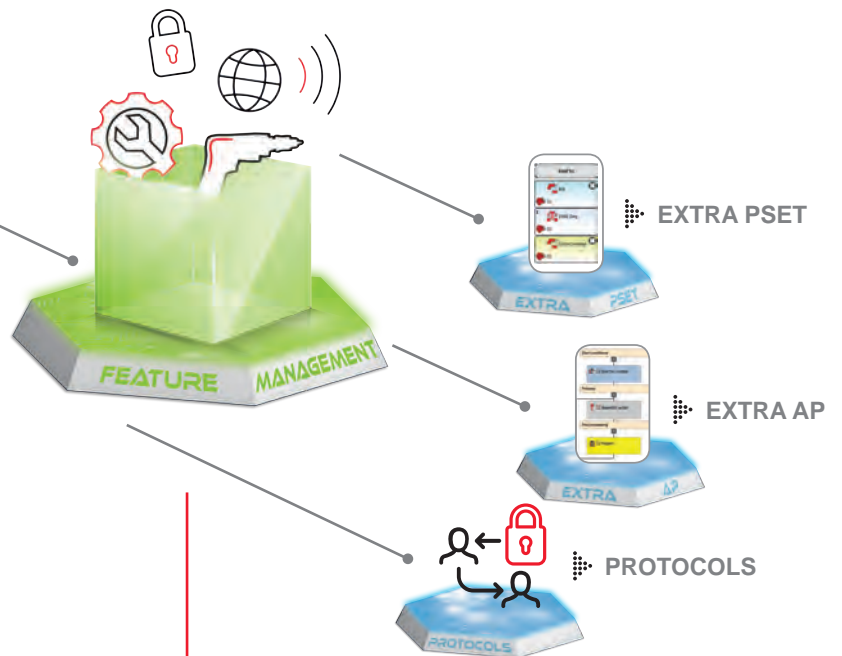


MULTI-CORDLESS TOOL SOLUTION

SCALABLE SOLUTION

EASY TOOL & FEATURE REBALANCING

FULL TRACEABILITY



INDUSTRIAL SMART HUB

CONNECT is a powerful platform able to manage all items related to the assembly line

With error proofing accessories and full traceability management for up to 20 tools, CONNECT is a solution with a **HIGH LEVEL OF CONNECTIVITY** to manage and control the assembly line under all circumstances.

FEATURE MANAGEMENT

FEATURE MANGEMENT is a scalable solution which allows you to get what you really need

With its **HIGH LEVEL OF FLEXIBILITY**, you can add new features whenever the requirements on your production line change. You just have to activate the feature and it is ready to use.

Multi-Cordless Tool solution

CONNECT-W

With embedded access point **Up to 10 tightening units activated.**

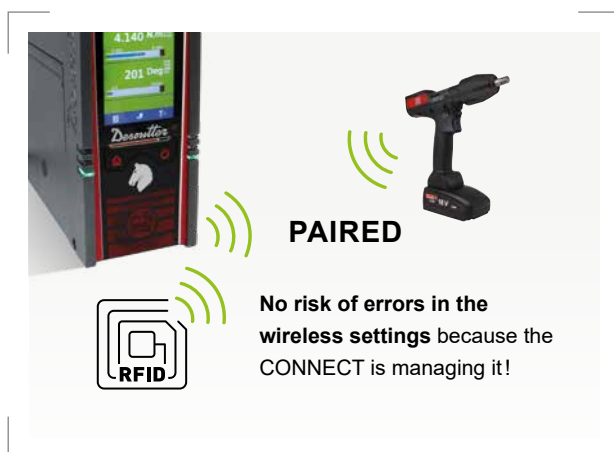
With **CONNECT-W**, 10 tightening units can be activated which means 10 cordless tools can be paired.

CONNECT-X

Requires an external access point **Up to 20 tightening units activated** (No embedded access point).

With **CONNECT-X**, 20 tightening units can be activated which means 20 cordless tools can be paired.

Tool's Rebalancing



EASY CONTACTLESS PAIRING

With easy wireless pairing, tool is paired in less than **10 seconds.**

Desoutter Sight



VISUALIZATION

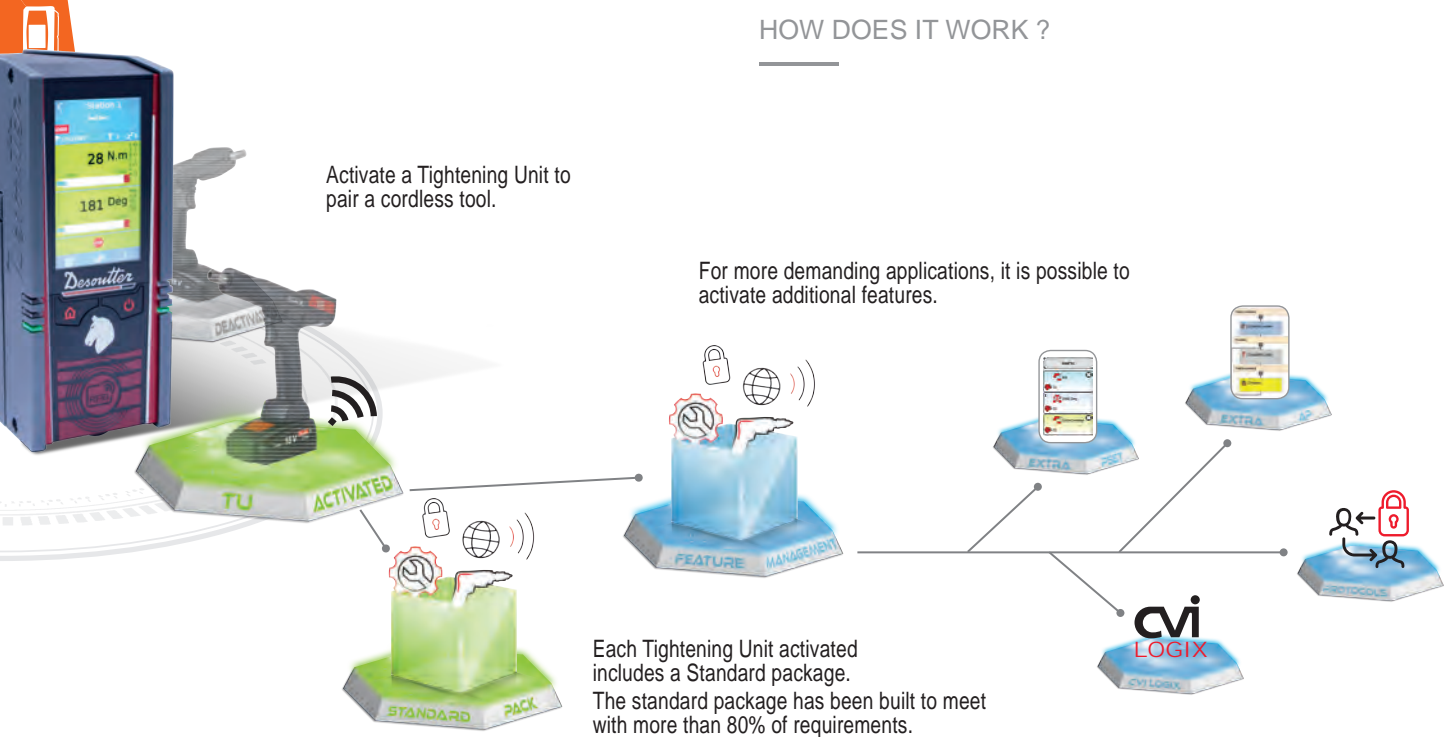
- Remote access to CONNECT menu for on-line adjustment
- Display in real-time the results per TU / workstation

CONNECT - Industrial Smart Hub

Get what you really need with feature management

FEATURE MANAGEMENT is a scalable solution in order to provide a high level of flexibility to meet requirements. With feature management, you can add or remove a feature whenever you want or whatever the feature.

HOW DOES IT WORK ?



FEATURES UNDER FEATURE MANAGEMENT ?

Feature activation is done Tightening Unit per Tightening Unit for more flexibility on your production line.

Feature management is required:

- For each Tightening Unit activation
- When more than 10 parameter sets (Pset) are needed for one Tightening Unit
- When more than 10 Assembly process (AP) are needed for one Tightening Unit
- When a protocol other than the Open Protocol is required
- When CVI Logix is required

HOW TO ACTIVATE A FEATURE ?

- THE HIGH FLEXIBILITY OF FEATURE MANAGEMENT IS REACHED THANKS TO UV*.
- ANY OR ALL FEATURES CAN BE ACTIVATED BY APPLYING UV*.
- EACH FEATURE HAS ITS OWN UV*.

* UV = Unit Value



CONNECT - Industrial Smart Hub

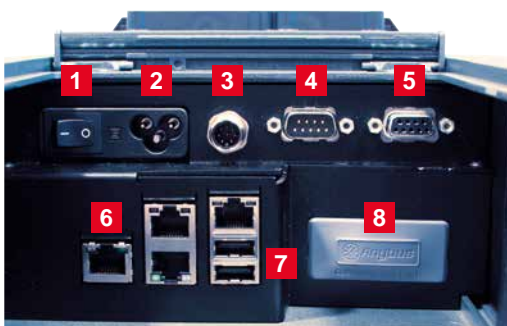


	CONNECT-W	CONNECT-X
Industrial Smart Hub		
Maximum number of TU (cordless tools)	10	20
Weight kg (lbs)	2,8 kg (6.17 lbs)	
Display	Capacitive color touch screen (4,3")	
Access point	EMBEDDED (includes internal access point)	NOT INCLUDED (external access point required)
Power supply	110V – 220 V or 24V	
IP Protection	IP 40 IP54 with an additional accessory	
Storage		
Maximum number of results saved per TU	20 000	20 000
Maximum number of curves saved per TU	50	50
Assembly Process results per TU	2 000	2 000
Event log storage (number of events)	1 000	1 000
Standard Pack		
Number of Pset	10	10
Number of AP	10	10
Protocol	Open protocol	Open protocol
Tightening strategy	OK-NOK / Torque / Angle / Torque + angle / Torque and-or Angle	
Tightening results	Torque angle displayed / Tightening and curves	
Monitoring	Current / Slip Off / Stick slip / Time / rundown angle / 2nd angle	
Step	Prevailing torque, Socket release, Re-hit, Loosen, Search/jog, Synchro, Action NOK, Jump, end step, ergostop	
Additional features with feature management		
Pack "up to 50 PSET"	Activation with UV [11 UV per TU]	
Pack "up to 250 PSET"	Activation with UV [17 UV per TU]	
Pack "up to 50 AP"	Activation with UV [15 UV per TU]	
Pack "up to 250 AP"	Activation with UV [20 UV per TU]	
Desoutter Protocol & Customer protocols	Activation with UV [5 UV per TU]	
CVI Logix	Activation with UV [9 UV per TU]	
Connectivity		
USB ports	USB ports (2 + 1 front)	
Ethernet	Embedded Ethernet switch (3 ports + 1 POE – 2 networks)	
Optional fieldbus	Plug&Play Fieldbus module port (EthernetIP, ProfiNet A/B/IRT, Modbus TCP, DeviceNet, Profibus, CC-Link)	

CONNECT - Industrial Smart Hub



PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
			115V	230V		WIDTH		HEIGHT		DEPTH		kg	lb.
A	CONNECT-X	615 932 722 0	< 1A	< 1A	Single-phase	90	3.5	221	8.70	210	2.8	2.8	6.17
B	CONNECT-W	615 932 723 0	< 1A	< 1A	Single-phase	90	3.5	221	8.70	210	2.8	2.8	6.17



- 1 Switch On/Off
- 2 Auto-Sensing Voltage 110-240V
- 3 24V power supply
- 4 RS232 port
- 5 eBUS port (Bus dedicated to Error Proofing Integration accessories - EPI)
- 6 Ethernet switch with 4 Ethernet ports (including one POE)
- 7 2 USB ports on connector panel + 2 USB ports on front panel
- 8 Plug & Play Fieldbus module port

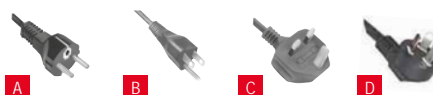
FEATURE MANAGEMENT

PIC REF	DESCRIPTION	PART NUMBER
A	UV	615 927 843 0
B	eWallet	615 927 844 0



POWER CORD to be ordered with CONNECT

PLUG	DESCRIPTION	PART NO.
A	European	615 917 739 0
B	US	615 917 741 0
C	UK	615 917 740 0
D	Chinese	615 917 742 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



BLRTC

10 to 25 Nm (7.4 to 18.4 ft.lb) - 1520 to 2350 rpm



A



B

BOOST YOUR PRODUCTIVITY

- By reducing cycle time
- By improving joint quality
- By providing process quality

BOOST YOUR FLEXIBILITY

- Free of cable management
- Free of reaction arm
- Reduce total cost of ownership

BOOST YOUR UP TIME

- Boost the uptime of the operator
- Boost the uptime of the tool

	WIFI COMMUNICATION VERSION
Wifi Communication	2.4GHz or 5 GHz
Programming on the tool	N/A
Pset	250
No. of step in Pset	10
Assembly process	250
Results	10000
Tightening Curve	20
Disconnected mode	✓



ACCESSORIES
see page 41

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	OUTPUT RETAINING TYPE	TORQUE				ROTATIONAL MAX SPEED (RPM)		LENGTH		WEIGHT*		VOL-TAGE
					MIN	MAX	MIN	MAX	18V	36V	mm	in.	kg	in.	
					Nm	Nm	ft.lb	ft.lb							
A	BLRTC-2350-10S	615 166 025 0	Sq 3/8	Through hole	6	25	4.4	18.4	1520	2350	233	9.17	1.2	2.6	18/36
B	BLRTC-2350-4Q	615 166 026 0	Hex. 1/4	Quick change chuck	6	25	4.4	18.4	1520	2350	233	9.17	1.2	2.6	18/36

*Weight without battery

Wireless transducerized battery tool



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

EPOD 2C

up to 2 battery tools



Configuration with cable tool: 1 cable tool with up to 2 battery tools

EPOD 3C

up to 3 battery tools



Configuration with cable tool: 1 cable tool with up to 2 battery tools

EPOD 4C

up to 4 battery tools



Configuration with cable tool: 1 cable tool with up to 3 battery tools



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

Tool overview

- B-LRT
- EABCom
- EPBCom



Pistol Version: additional features

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



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





EPBcom Series

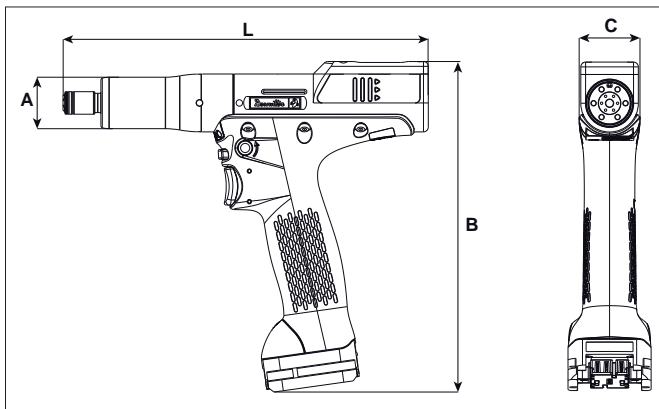
1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm



A



B



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



ACCESSORIES
see page 41

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



A



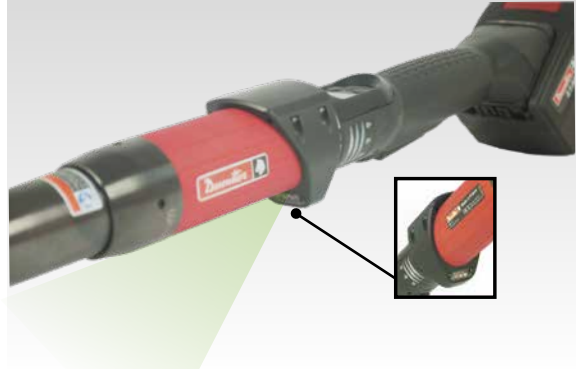
B



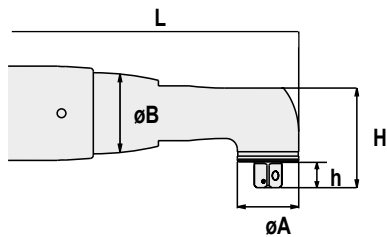
C

NEW eLINK range

Angle head tool with integrated task light
(with LED color code reporting)



Barcode reader ready



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 EABCOM	PART NUMBER EABCOM eLINK	SQUARE DRIVE	TORQUE RANGE						ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOL-TAGE
					MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		kg	lb	
				in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm			V

EABcom - TRANSDUCERIZED BATTERY TOOL

•	EABC 15-900	615 165 841 0	615 166 050 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	615 166 051 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABC 32-410	615 165 843 0	615 166 052 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABC 45-330	615 165 844 0	615 166 053 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABC 50-450	615 165 845 0	615 166 054 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABC 60-370	615 165 846 0	615 166 055 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABC 75-300	615 165 847 0	615 166 056 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABC 95-240	615 165 848 0	615 166 057 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)

BLRTC / EPBcom / EABcom

ACCESSORIES INCLUDED

	EPBcom	BLRTC
• Pistol protective cover - Black	615 211 019 0	615 211 073 0

OPTIONAL ACCESSORIES

ITEM	EABcom	EPBcom	BLRTC
------	--------	--------	-------

Battery type

1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	615 812 099 0	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	615 812 100 0	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0	615 811 924 0

Charger

4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5	615 811 654 5	615 811 654 5
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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	615 396 871 0	
7	For Battery 18V 2.1Ah - Black	615 211 041 0	615 211 041 0	
7	For Battery 18V 2.1Ah - Blue	615 211 042 0	615 211 042 0	
7	For Battery 18V 2.1Ah - Red	615 211 043 0	615 211 043 0	
7	For Battery 18V 2.1Ah - rey	615 211 044 0	615 211 044 0	
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0	615 396 872 0	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0	615 211 046 0	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0	615 211 047 0	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0	615 211 048 0	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0	615 211 049 0	615 211 049 0

Miscellaneous

8	Nose crowfoot adapter for EPB.	615 565 518 0		
9	eDOCK	615 811 976 0	615 811 976 0	615 811 976 0
10	Barcode reader for EPBC (1D/2D/QR)	615 812 281 0		
	• Barcode reader for EABC-eLINK (1D/2D/QR)	615 813 038 0		
	• Access point Wifi 802.11N-US:	615 811 417 5	615 811 417 5	615 811 417 5
	• Access point Wifi 802.11N-EU:	615 811 419 5	615 811 419 5	615 811 419 5
	• Access point Wifi 802.11N-A	615 811 650 5	615 811 650 5	615 811 650 5
	• Access point Wifi 802.11N-H	615 811 420 5	615 811 420 5	615 811 420 5
	• Plug UK	615 917 202 0	615 917 202 0	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	615 812 119 0	

Virtual controllers management (CV3 Vision)

	PART NUMBER	Maximum number of tools	Maximum number of		
			cable tools	Battery tools	
16	without ePOD	-	2	1	1
16	ePOD2C	615 936 311 0	3	1	2
16	ePOD3C	615 936 318 0	3	1	3
16	ePOD4C	615 936 312 0	4	1	4





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**

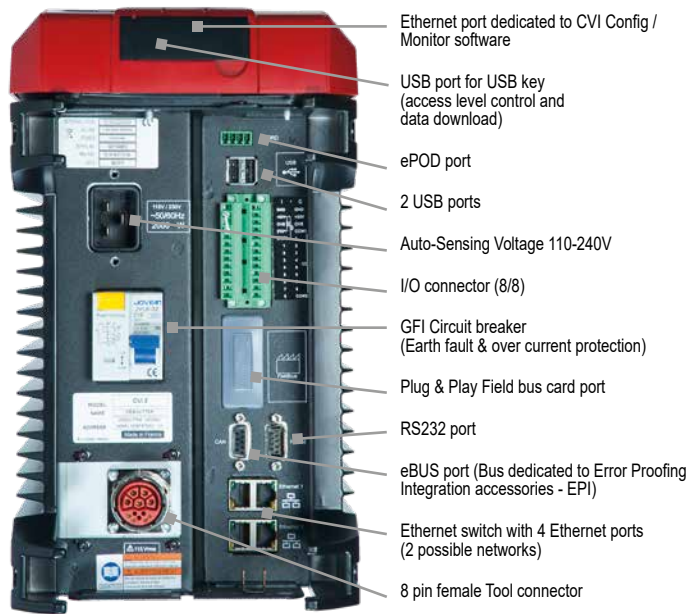


**UNMATCHED
FLEXIBILITY**



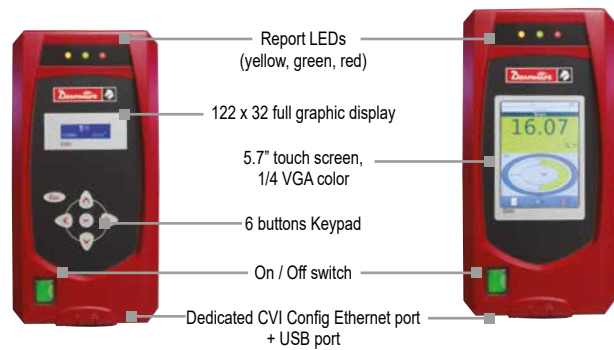
**USER-FRIENDLY
INTERFACE**

Technical features



CVI3 Function

CVI3 Vision



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)	✓	✓	✓
Quick Pset	✓	✓	✓
Tubenut release	✓	✓	✓

ADVANCED FUNCTIONS

Access Level Control/Management with unlimited profiles	✓	✓	✓
ID input to select Assembly Process (up to 10 different identifiers)	✓	✓	✓
Number of Assembly Process	250	250	250
Advanced Soft PLC (in option with CVILOGIX, ePod2C (min.) is required)	✓	✓	✓
1 Network/Fieldbus Access point per group of up to 14 tools		✓	✓
Full synchronized control for a group of up to 14 controllers		✓	✓

TIGHTENING STRATEGIES

Control : torque, angle, torque OR angle, torque AND angle, yield point*, torque rate*, seating detection*	✓	✓	✓
Monitoring : torque rate*, 2nd part angle, current, slip off, stick slip, time & rundown angle	✓	✓	✓

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 integrated positioning management	✓	✓	✓

OPTIONAL FIELDBUS

Plug & Play Fieldbus module port (EthernetIP, ProfiNet A/B/IRT, Modbus TCP, DeviceNet, Profibus, CC-Link)	✓	✓	✓
Configurable fieldbus data mapping	✓	✓	✓

*with cable tools



A



B



C

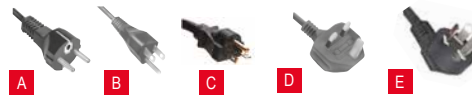
PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
			115V	220V		WIDTH		HEIGHT		DEPTH		kg	lb.
A	CVI3 Vision	615 932 691 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
A	CVI3 Vision eSTOP	615 932 694 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	TWINCVI3	615 932 697 0	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15	33.1
B	TWINCVI3 eSTOP	615 932 698 0	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15	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
C	CVI3 Function eSTOP	615 932 693 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

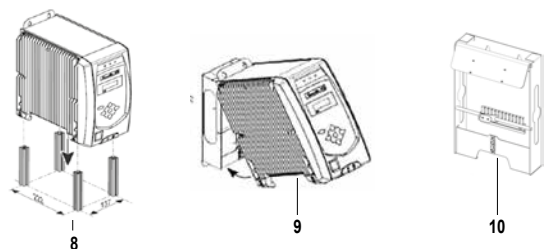
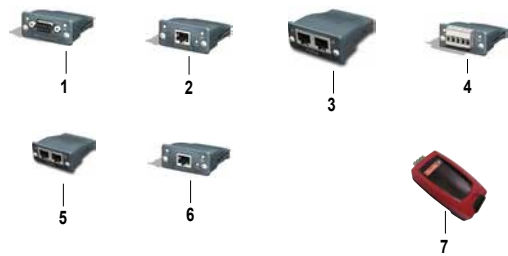
PLUG	DESCRIPTION	PART NO.
A	European	615 917 069 0
B	US NEMA 5-15	615 917 060 0
C	US NEMA 5-20	615 917 063 0
D	UK	615 917 070 0
E	Chinese	615 917 061 0



SOFTWARES
see page 63, 67

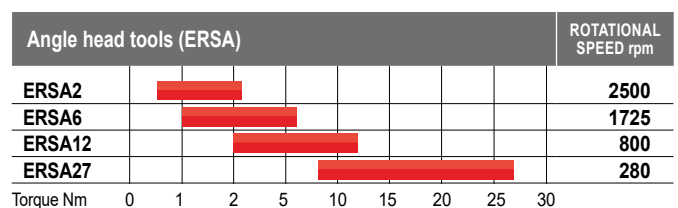
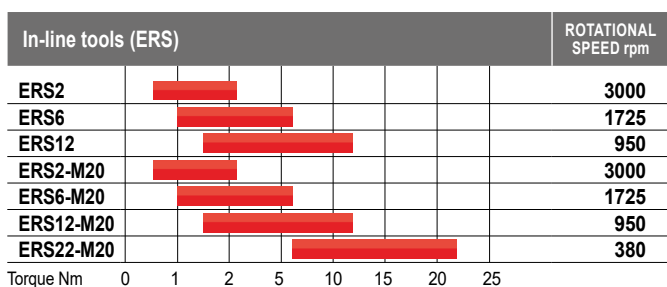
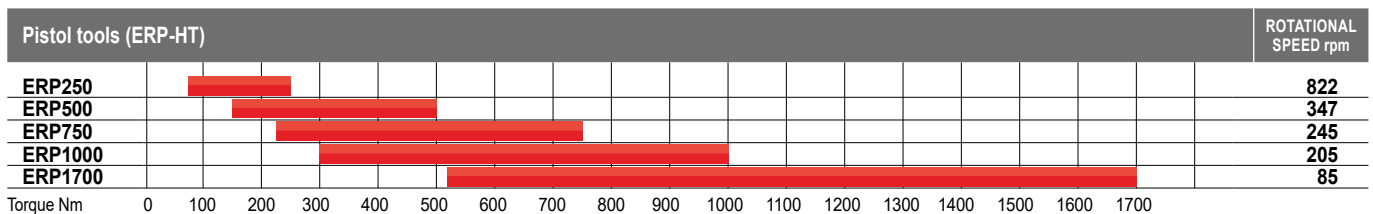
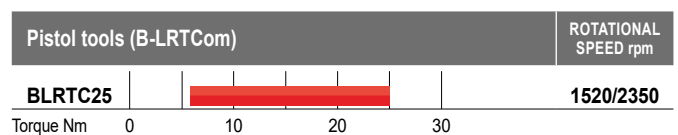
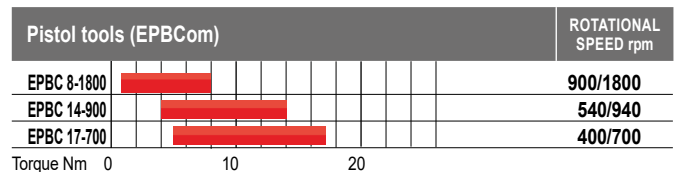
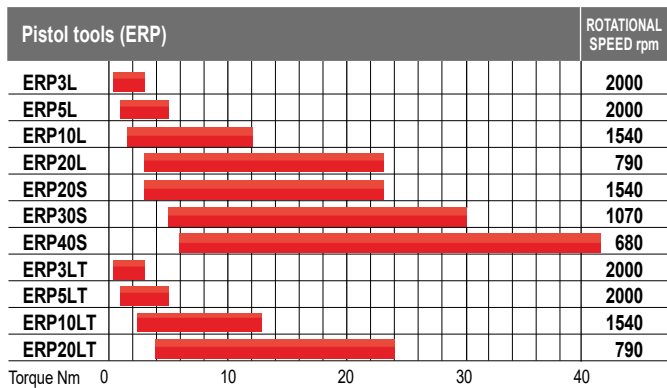
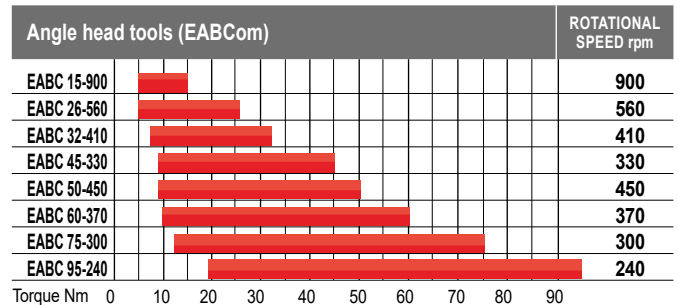
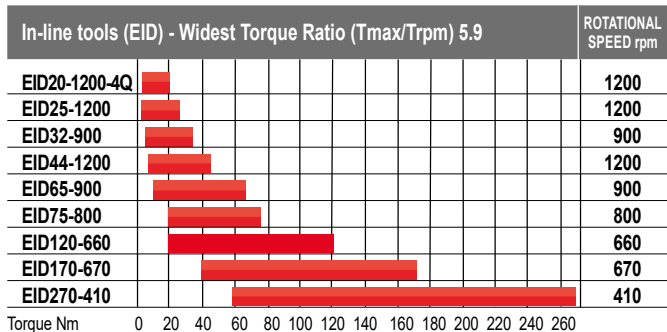
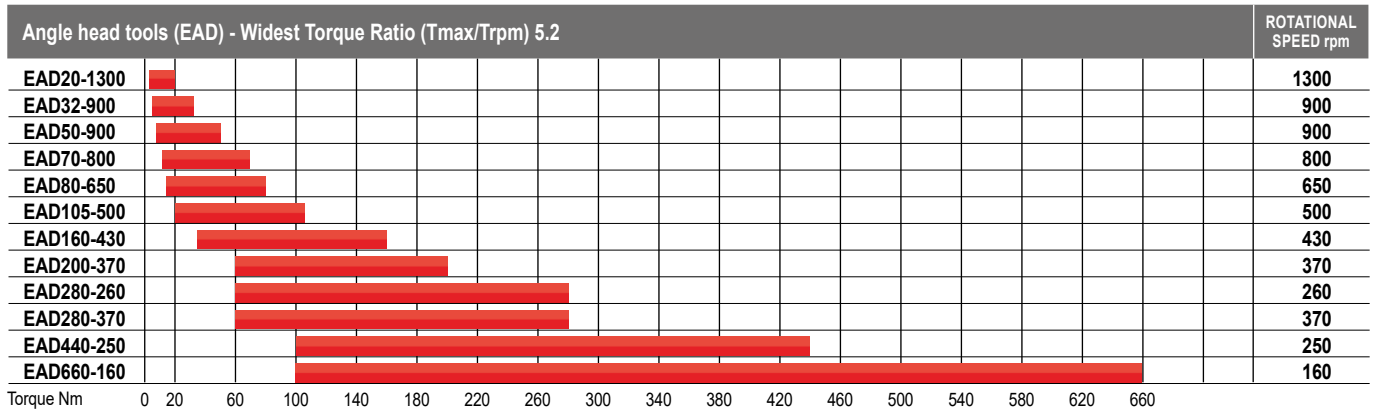
OPTIONAL ACCESSORIES

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
7	ePOD2C	615 936 311 0
7	ePOD3C	615 936 318 0
7	ePOD4C	615 936 312 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
11	Cable with 2 M8 male plugs - 0.5m (1.64ft)	615 917 626 0
	Cable with 2 M8 male plugs - 1m (3.28ft)	615 917 633 0
	Cable with 2 M8 male plugs - 2m (6.56ft)	615 917 634 0
12	Cable with 1 M8 male plugs - 5m (16.40ft)	615 917 635 0

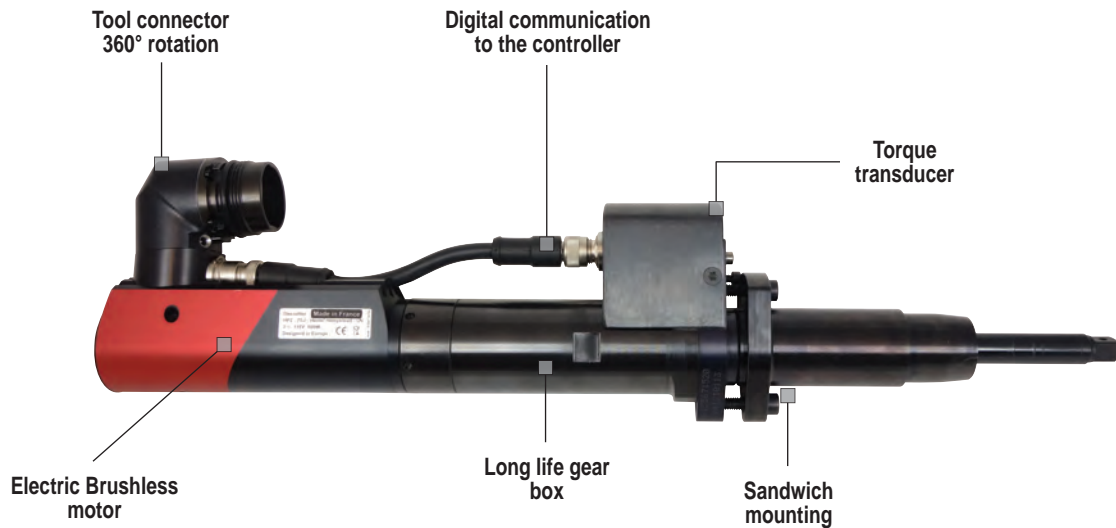


Torque Range - Portable electric nutrunners

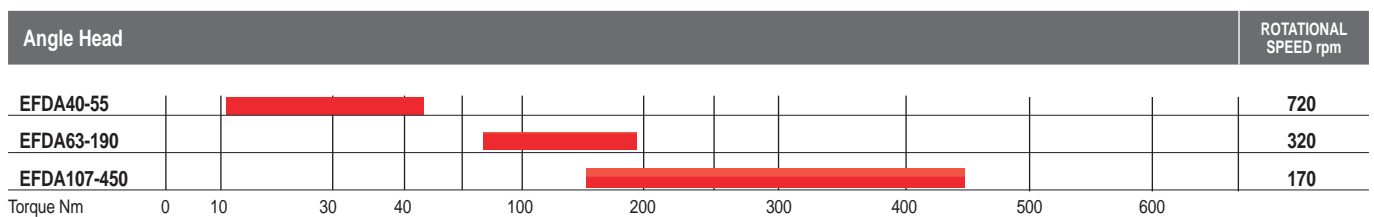
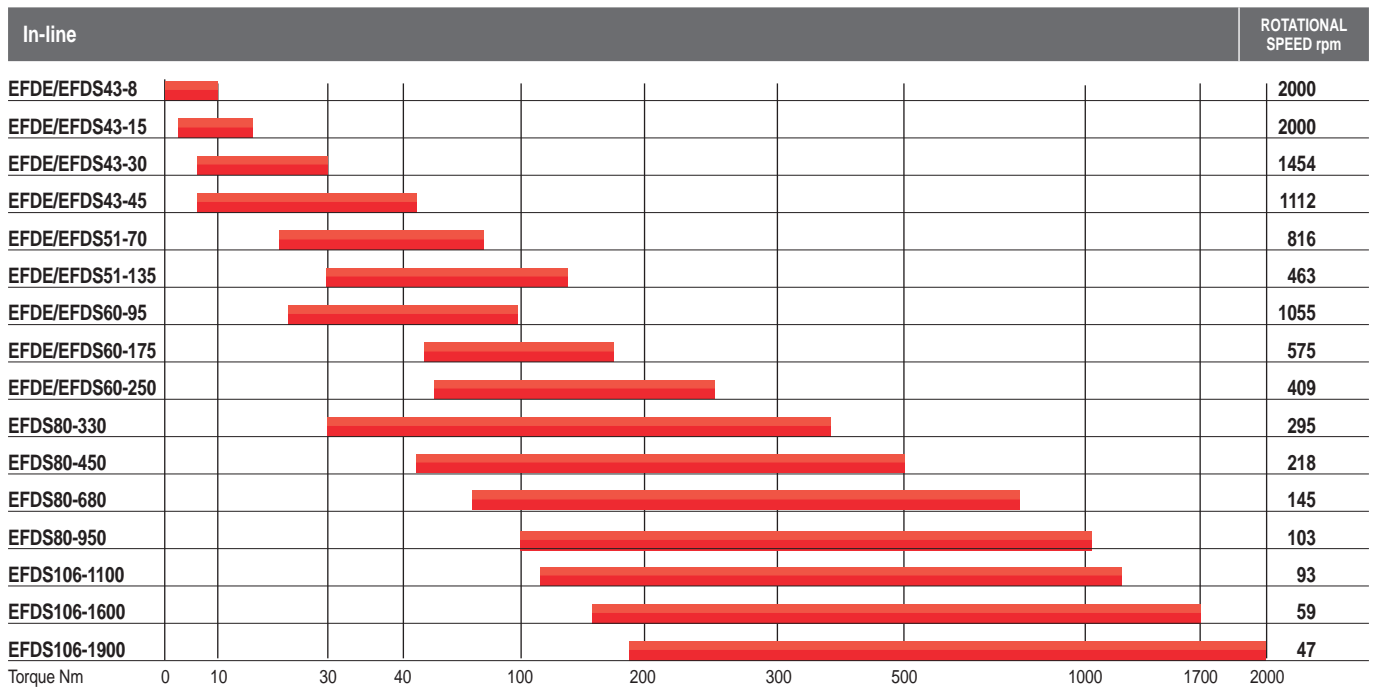
Performance of Portable electric nutrunners - EAD, EID, EABC, EPBC, B-LRTC, ERS, ERP and ERP-HT



Torque Range - Fixtured electric spindles



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



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 60-61

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				
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

Electric transducerized High torque - CVI3

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.



A



B



C

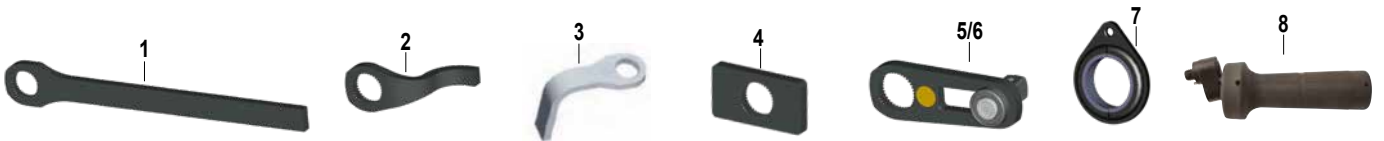
Complete Loop



ERS / ERPHT Adaptor necessary

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

ACCESSORIES



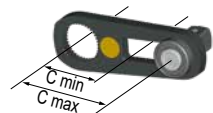
REACTION BARS	SPLINE	1	2	3	4	5	6	7	8
		STRAIGHT	S-TYPE	L TYPE ALUMINIUM	SQUARE	SLIDING DRIVE	SLIDING DRIVE EXTENDED C-C	SUSPENSION BAIL	SIDE HANDLE
ERP250	3	615 812 097 5	615 812 068 5	615 812 072 5	615 812 057 5	615 812 113 5	N/A	615 812 123 0	615 576 085 0
ERP500	4	615 812 054 5	615 812 069 5	615 812 073 5	615 812 058 5	615 812 062 5	615 812 063 5	615 812 123 0	615 576 085 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	615 576 085 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	615 576 085 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



DESCRIPTION	PART NO.
ERS-ERPHT Adaptor	615 936 537 0

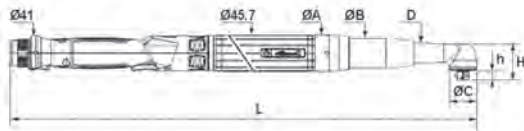


Sliding drive C-C

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)

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

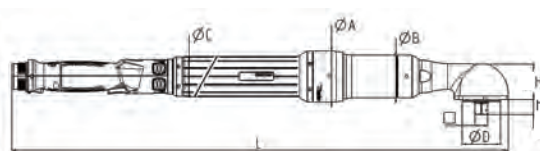


ACCESSORIES
see pages 60-61

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				
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	66	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



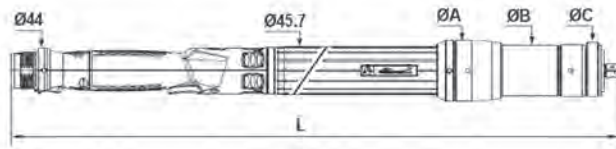
ACCESSORIES
see pages 60-61

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				
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

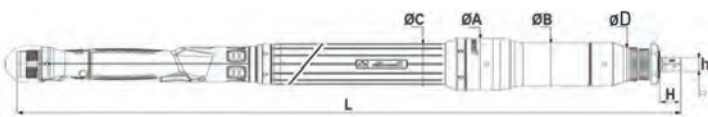
 **ACCESSORIES**
see pages 60-61

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.
EID20-1200-4Q*	615 165 992 0	Hex. 1/4 F	3	18	21	2.2	13.3	15.5	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

In-line electric nutrunners - CVI3

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

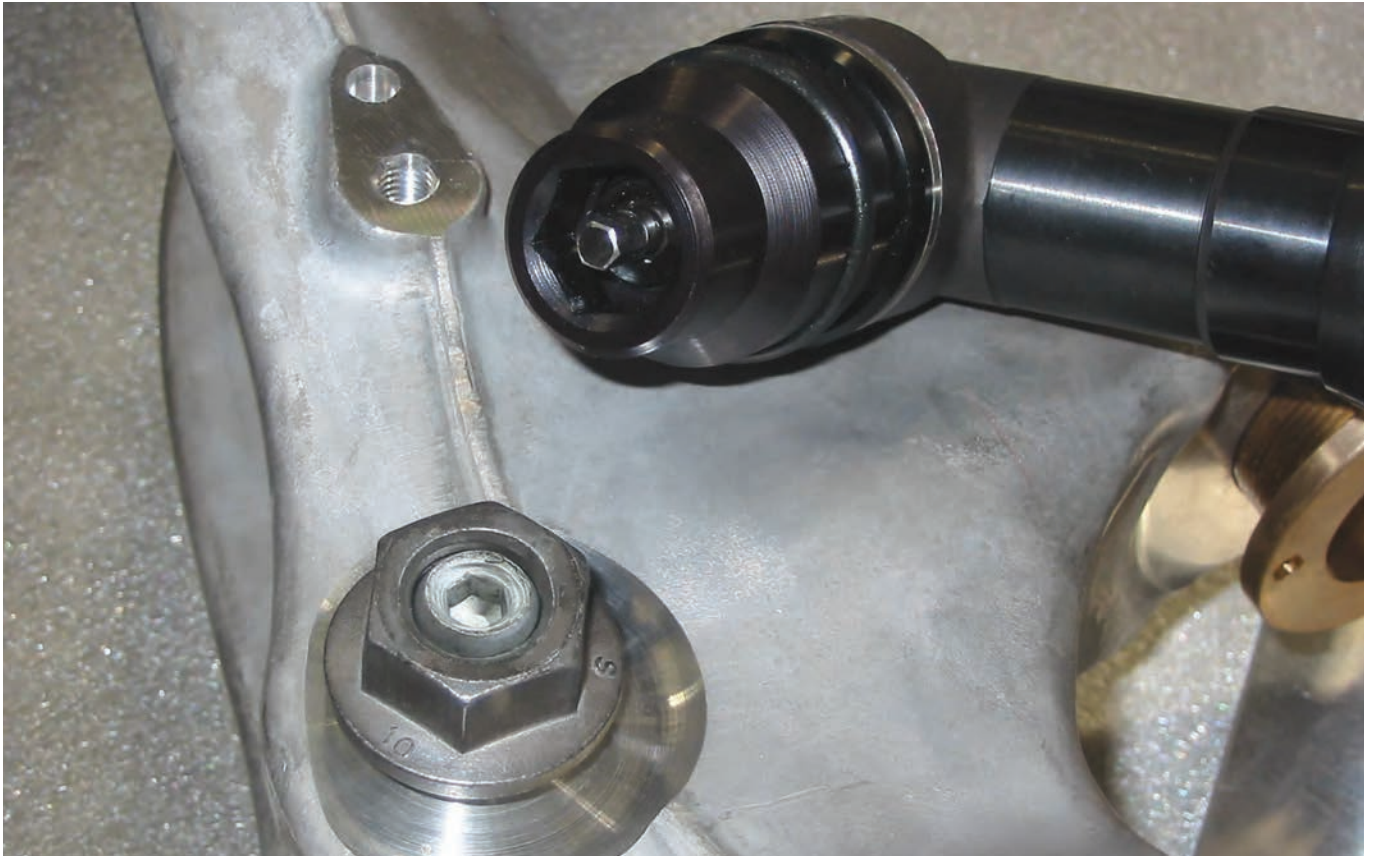


MODEL	ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.
EID120-660	66	2.60	55	2.17	52	2.05	42.0	1.65
EID170-670	72	2.83	55	2.17	66	2.60	42.0	1.65
EID270-410	76	2.99	67	2.64	66	2.60	53.5	2.11

 **ACCESSORIES**
see pages 60-61

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.
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

Crowfoot and tube nut tools



Offset Closed



Offset Open



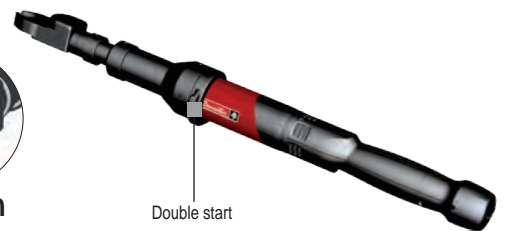
Double start



In line Closed



In line Open



Double start



Flush Socket tools



Hold and Drive tools

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.

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

EFDx-TA : spindle with redundant torque & angle

Fully compatible with EME range via the adaptor



BENEFITS

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

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

Miscellaneous

Spare transducer cable length 340mm (13.4")	615 917 426 0
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Workgroup System

CVI3
suite



CVI
CONFIG
CVI
ANALYZER
CVI
NET WEB
CVI
KEY



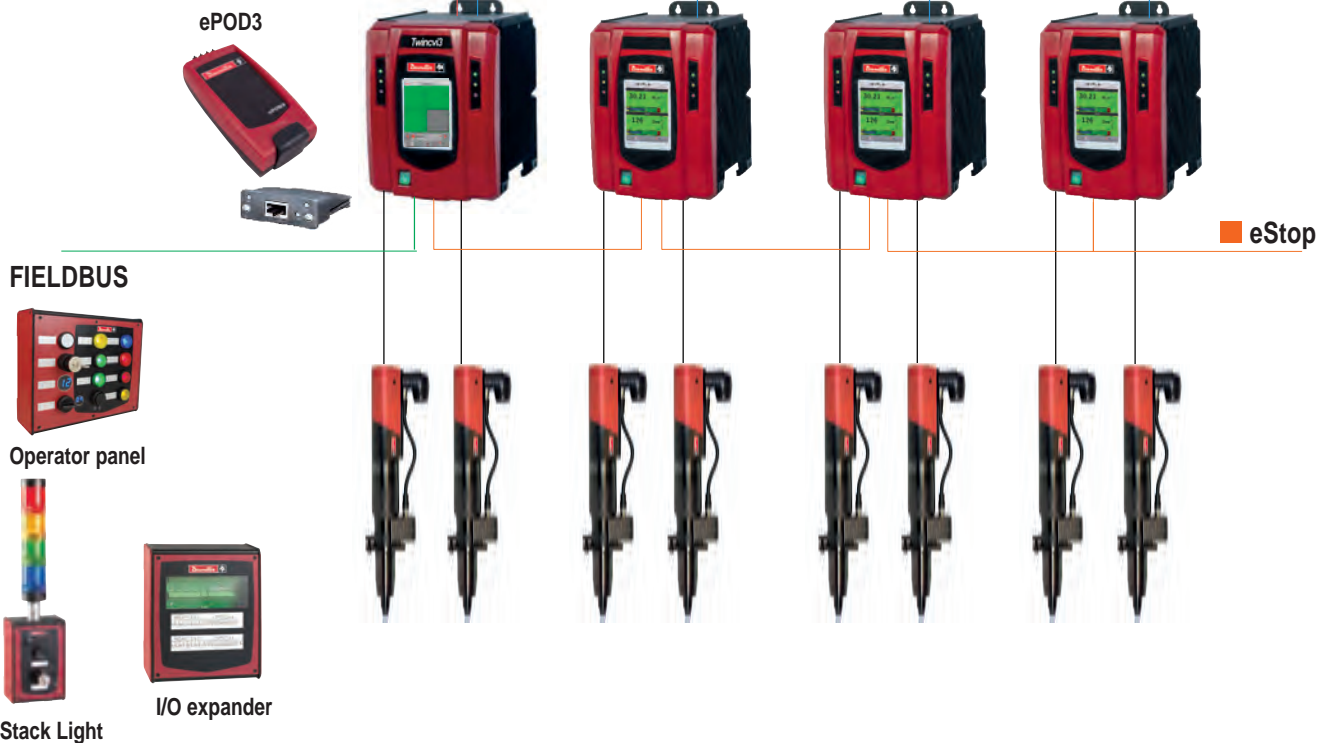
Advanced tightening strategies

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



FACTORY ETHERNET NETWORK

INTERNAL ETHERNET NETWORK



Advanced monitoring

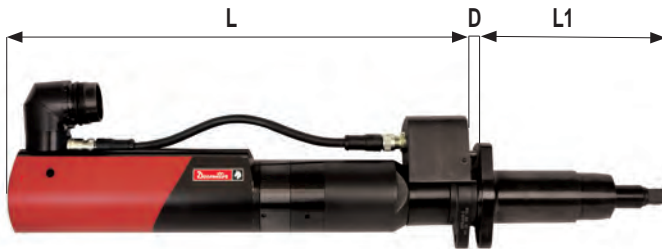
- The primary controller displays all tightening results and events and its own tightening curves.
- Each controller displays its own results

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

Fixtured electric spindles - CVI3

1 to 2000 Nm (0.7 to 1475 ft.lb) - 47 to 2000 rpm



A



B

MODEL	LENGTH				D		WEIGHT			
	TOOL-L		MODULE-L1		mm	in.	TOOL		MODULE	
	mm	in.	mm	in.			kg	lb.	kg	lb.
EFDE/EFDS 43-8	276	10.9	165	6.5	10	0.39	2.1	4.6	0.65	1.43
EFDE EFDS 43-15	276	10.9	165	6.5	10	0.39	2.1	4.6	0.65	1.43
EFDE/EFDS 43-30	311	12.2	165	6.5	10	0.39	2.3	5.1	0.65	1.43
EFDE/EFDS 43-45	311	12.2	165	6.5	10	0.39	2.3	5.1	0.65	1.43
EFDE/EFDS 51-70	357	14.0	183	7.2	16	0.63	3.9	8.6	1.45	3.20
EFDE/EFDS 51-135	357	14.0	183	7.2	16	0.63	3.9	8.6	1.45	3.20
EFDE/EFDS 60-95	373	14.7	183	7.2	16	0.63	5.3	11.7	1.45	3.20
EFDE/EFDS 60-175	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12
EFDE/EFDS 60-250	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12
EFDS 80-330	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-450	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-680	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-950	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 106-1100	476	19	-	-	-	-	15.3	33.7	-	-
EFDS 106-1600	511	20	-	-	-	-	15.9	35	-	-
EFDS 106-1900	511	20	-	-	-	-	15.9	35	-	-

TELESCOPIC MODULES HT	PART NO.
Telescopic Module 3/4" EFDS80	615 399 267 0
Telescopic Module 1" EFDS80	615 399 268 0
Telescopic Module 1" EFDS106	615 399 296 0
Telescopic Module 1"1/2 EFDS106	615 399 270 0



ACCESSOIRES
see page 60

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	TELESCOPIC STROKE		MIN. CENTRE DISTANCE	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	mm	in.
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.

EFDE – With removable telescopic module

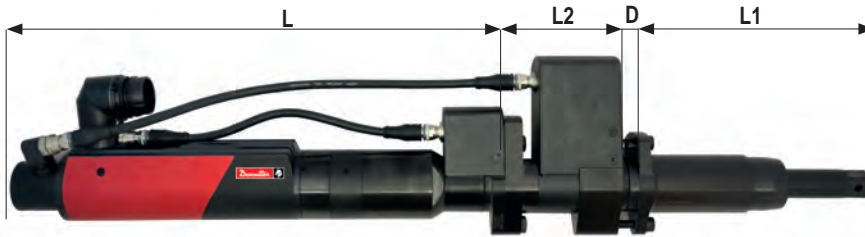
A	EFDE 43-8	615 165 864 0	3/8	1	8	10	0,7	5,9	7,4	2000	50	1.97	43	1.69
A	EFDE 43-15	615 165 865 0	3/8	3	15	17	2,2	11,1	12,5	2000	50	1.97	43	1.69
A	EFDE 43-30	615 165 866 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1.69
A	EFDE 43-45	615 165 867 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1.69
A	EFDE 51-70	615 165 868 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2.01
A	EFDE 51-135	615 165 869 0	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2.01
A	EFDE 60-95	615 165 870 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2.36
A	EFDE 60-175	615 165 871 0	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2.36
A	EFDE 60-250	615 165 872 0	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2.36

EFDS – With integrated telescopic output

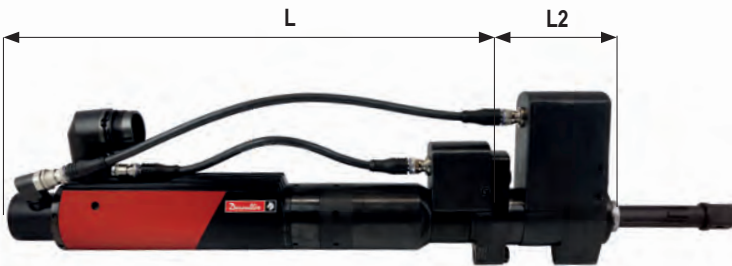
B	EFDS 43-8	615 165 907 0	3/8	1	8	10	0,7	5,9	7,4	2000	50	1.97	43	1.69
B	EFDS 43-15	615 165 908 0	3/8	3	15	17	2,2	11,1	12,5	2000	50	1.97	43	1.69
B	EFDS 43-30	615 165 909 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1.69
B	EFDS 43-45	615 165 910 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1.69
B	EFDS 51-70	615 165 911 0	1/2	20	70	80	14,7	51,6	59	816	50	1.97	51	2.01
B	EFDS 51-135	615 165 912 0	1/2	30	135	150	22,1	99,6	111	463	50	1.97	51	2.01
B	EFDS 60-95	615 165 913 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2.36
B	EFDS 60-175	615 165 914 0	3/4	50	175	190	36,9	129	140	575	50	1.97	60	2.36
B	EFDS 60-250	615 165 915 0	3/4	55	250	280	40,6	184	206	409	50	1.97	60	2.36
B	EFDS 80-330	615 166 033 0	3/4	30	330	360	22,1	243,4	265,5	299	60	1.97	80	3.15
B	EFDS 80-450	615 166 034 0	3/4	45	450	500	33,2	331,9	368,8	218	60	1.97	80	3.15
B	EFDS 80-680	615 166 035 0	1	70	680	740	51,6	501,5	545,8	145	60	1.97	80	3.15
B	EFDS 80-950	615 166 036 0	1	100	950	1050	73,8	700,7	774,4	103	60	1.97	80	3.15
B	EFDS 106-1100	615 166 037 0	1	110	1100	1150	81,1	811,3	848,2	93	60	1.97	106	4.17
B	EFDS 106-1600	615 166 038 0	1 1/2	160	1600	1700	118,0	1180,1	1253,9	59	60	1.97	106	4.17
B	EFDS 106-1900	615 166 039 0	1 1/2	190	1900	2000	140,1	1401,4	1475,1	47	60	1.97	106	4.17

Fixtured electric spindles - CVI3

5 to 250 Nm (0.7 to 206 ft.lb) - 409 to 2000 rpm



A



B

MODEL	LENGTH						D		WEIGHT					
	TOOL-L		MODULE-L1		MODULE-L2				TOOL		MODULE		MODULE TA	
	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb.	kg	lb.	kg	lb.
EFDE/EFDS 43-8-TA	318.2	12.53	165	6.5	90	3.54	10	0.39	2.1	4.63	0.65	1.43	1.45	3.20
EFDE/EFDS 43-15-TA	318.2	12.53	165	6.5	90	3.54	10	0.39	2.1	4.63	0.65	1.43	1.45	3.20
EFDE/EFDS 43-30-TA	354	13.94	165	6.5	90	3.54	10	0.39	2.3	5.07	0.65	1.43	1.45	3.20
EFDE/EFDS 43-45-TA	354	13.94	165	6.5	90	3.54	10	0.39	2.3	5.07	0.65	1.43	1.45	3.20
EFDE/EFDS 51-70-TA	401	15.79	183	7.2	98	3.86	16	0.63	3.9	8.60	1.45	3.20	2	4.41
EFDE/EFDS 51-135-TA	401	15.79	183	7.2	98	3.86	16	0.63	3.9	8.60	1.45	3.20	2	4.41
EFDE/EFDS 60-95-TA	419	16.5	183	7.2	98	3.86	16	0.63	5.3	11.7	1.45	3.20	2.8	6.17
EFDE/EFDS 60-175-TA	419	16.5	203	8.0	98	3.86	16	0.63	5.3	11.7	1.87	4.12	2.8	6.17
EFDE/EFDS 60-250-TA	419	16.5	203	8.0	98	3.86	16	0.63	5.3	11.7	1.87	4.12	2.8	6.17



ACCESSOIRES
see page 60

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	TELESCOPIC STROKE		MIN. CENTRE DISTANCE	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	mm	in.
				Nm	Nm	Nm	ft.lb	ft.lb	ft.lb		rpm	mm	in.	mm

EFDE-TA – With removable telescopic module & second transducer

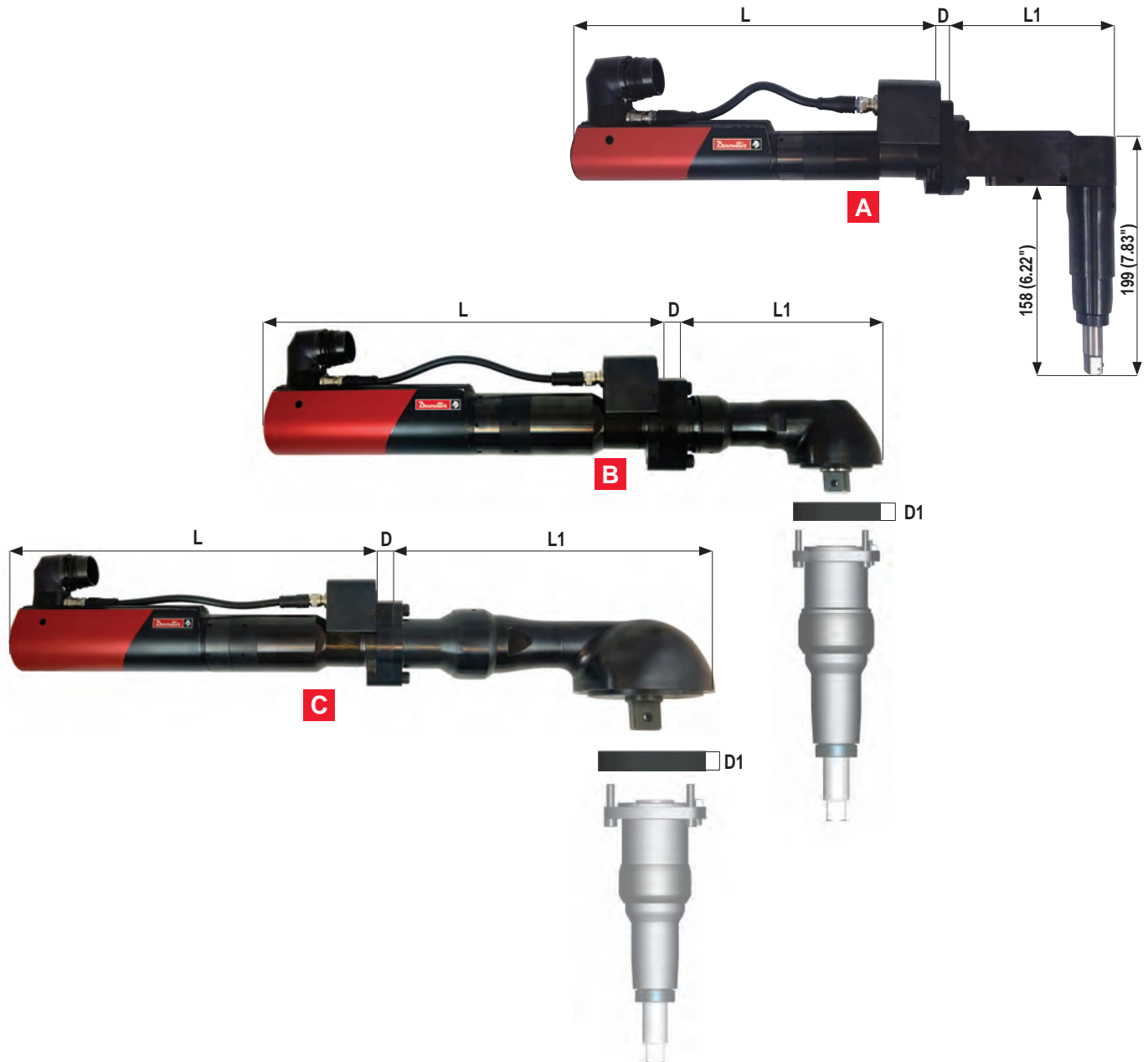
A	EFDE 43-8-TA	615 166 010 0	3/8	5	8	10	3,7	5,9	7,4	2000	50	1.97	43	1,69
A	EFDE 43-15-TA	615 166 002 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
A	EFDE 43-30-TA	615 166 003 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
A	EFDE 43-45-TA	615 166 004 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
A	EFDE 51-70-TA	615 166 005 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2,01
A	EFDE 51-135-TA	615 166 006 0	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2,01
A	EFDE 60-95-TA	615 166 007 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2,36
A	EFDE 60-175-TA	615 166 008 0	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2,36
A	EFDE 60-250-TA	615 166 009 0	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2,36

EFDS-TA – With integrated telescopic output & second transducer


B	EFDS 43-8-TA	615 166 010 0	3/8	5	8	10	3,7	5,9	7,4	2000	50	1.97	43	1,69
B	EFDS 43-15-TA	615 166 011 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
B	EFDS 43-30-TA	615 166 012 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
B	EFDS 43-45-TA	615 166 013 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
B	EFDS 51-70-TA	615 166 014 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2,01
B	EFDS 51-135-TA	615 166 015 0	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2,01
B	EFDS 60-95-TA	615 166 016 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2,36
B	EFDS 60-175-TA	615 166 017 0	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2,36
B	EFDS 60-250-TA	615 166 018 0	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2,36

Fixtured electric spindles - CVI3

12 to 580 Nm (0.7 to 206 ft.lb) - 170 to 719 rpm



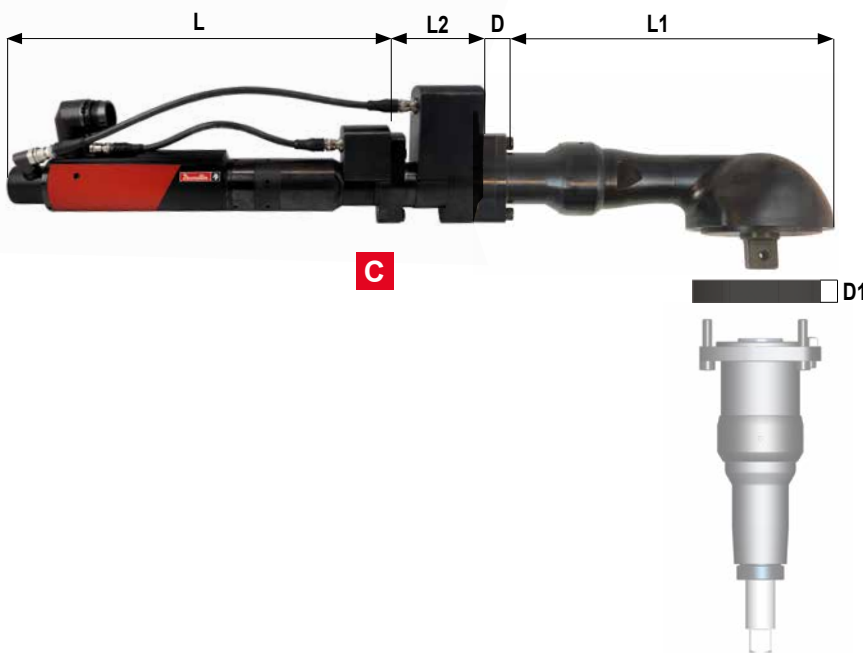
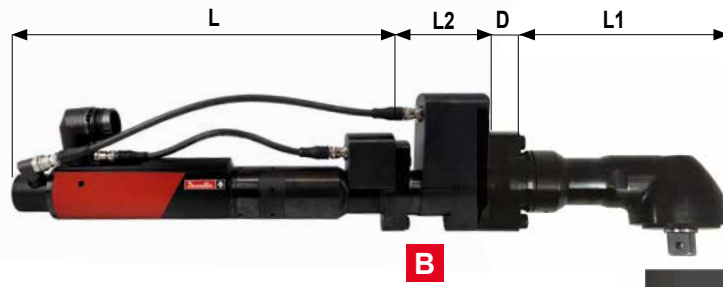
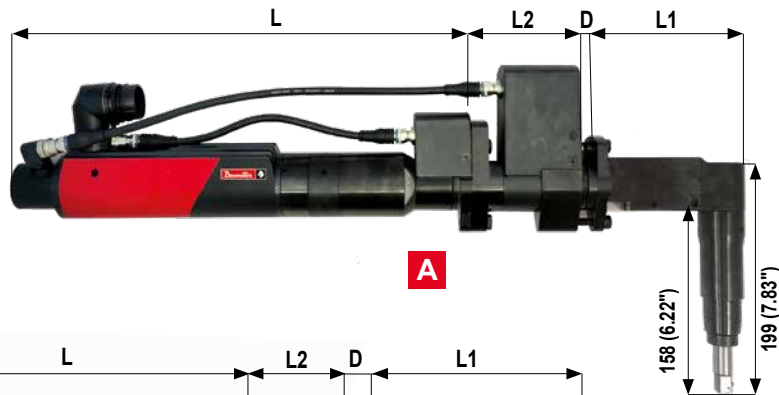
L2	TELESCOPIC STROKE		LENGTH L2		D1		PART NO.	FOR MODEL	D	
	mm	in.	mm	in.	mm	in.			mm	in.
	40	1.57	203	8.0	12	0.47	615 398 076 0	EFDA51-110	16	0.63
	40	1.57	217	8.5	12	0.47	615 398 077 0	EFDA63-190	16	0.63
	40	1.57	215	8.4	15	0.59	615 398 078 0	EFDA76-300	16	0.63
	50	1.97	270	10.6	15	0.59	615 398 161 0	EFDA107-450	16	0.63


 **ACCESSOIRES**
see page 60

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN.CENTRE DISTANCE		LENGTH				WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	TOOL L	ANGLE HEAD L1	kg	lb.		
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	kg	lb.
EFDA - Angle headed tools with integrated telescopic module																		
A	EFDA40-55	615 165 858 0	1/2	12	55	65	8.9	40.6	47.9	719	40	1.57	311	12.2	139	5.5	3.7	8.1
EFDA - Angle headed tools without telescopic module																		
B	EFDA63-190	615 165 860 0	3/4	80	190	250	59	140	184	320	63	2.48	373	14.7	191	7.5	8.1	17.8
C	EFDA107-450	615 165 862 0	1	150	450	580	110.6	332	428	170	107	4.21	373	14.7	322	12.7	12.4	27.3

Fixtured electric spindles - CVI3

12 to 580 Nm (0.7 to 206 ft.lb) - 174 to 719 rpm



 **ACCESSOIRES**
see page 60

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN. CENTRE DISTANCE	LENGTH				WEIGHT							
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.			TOOL L	ANGLE HEAD L1		MODULE TA L-2		TOOL		MODULE TA				
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb.	kg	lb.	
EFDA - Angle headed tools with integrated telescopic module																							
A	EFDA40-55-TA	615 166 019 0	1/2	12	55	65	8.9	40.6	47.9	719	41	1.59	311	12.2	139	5.5	90	3,54	3.7	8.1	1.35	2.98	
EFDA - Angle headed tools & second transducer																							
B	EFDA63-190-TA	615 166 020 0	3/4	80	190	250	59	140.1	184.4	319	63	2.5	373	14.7	191	7.5	98	3,86	8.1	17.8	2.5	5.51	
C	EFDA107-450-TA	615 166 021 0	1	150	450	580	110.6	331.9	427.8	174	107	4.21	373	14.7	322	12.7	98	3,86	12.4	27.3	2.5	5.51	

Accessories

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



CABLE FOR ERP TOOLS	PART NO.
Nutranner cable 2.5m (8.2ft)	615 917 570 0
Nutranner cable 5m (16ft)	615 917 492 0
Nutranner cable 10m (32.8ft)	615 917 494 0
Nutranner 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 Shielded 1m (3.3ft)	615 917 607 0
eBUS cable Shielded 3m (9.9ft)	615 917 608 0
eBUS cable Shielded 5m (16.4ft)	615 917 609 0
eBUS cable Shielded 15m (49.2ft)	615 917 610 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
3/4" square drive EFDS80-330/450	615 396 429 0



CUI3 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	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 Swivelling - All tools up to EAD105/EID75	615 397 413 0	
8 Swivelling - for tools EAD160/200/280-260 & EID120	615 571 072 0	
Front trigger		
9 Mechanical kit for tools EAD20 to EAD105 & EID20 to EID75 (must be mounted on tool by authorized Desoutter service technician)	615 398 530 0	
9 Electric kit for EAD20 to EAD32 & EID20 to EID32	615 911 013 5	
9 Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 012 5	
Telescopic output for EID tools		
10 3/8" for EID25/32	615 397 811 0	
10 3/8" for EID44	615 398 178 0	
10 1/2" for EID65/75	615 398 079 0	
10 1/2" for EID120/170	615 398 080 0	
10 3/4" for EID270/300	615 398 081 0	
Telescopic output for EAD / EFDA tools		
11 1/2" for EAD160	615 398 076 0	
11 3/4" for EAD200/280 & EFDA63-190	615 398 077 0	
11 3/4" for EAD440	615 398 078 0	
11 1" for EFDA107-450	615 398 161 0	
Angle head protection for EAD tools		
12 For EAD20/32	615 573 207 0	
12 For EAD50	615 573 208 0	
12 For EAD70	615 573 209 0	
12 For EAD80/105	615 573 210 0	
In-line protection for EID tools		
13 For EID20/25/32	615 573 211 0	
13 For EID44/65/75	615 573 212 0	
Finger Protection for EAD tools		
14 For EAD20/32	615 397 635 0	
14 For EAD50	615 397 636 0	
14 For EAD70	615 397 637 0	
Miscellaneous		
15 Handle lever	615 397 831 0	
16 Trigger locker	615 397 842 0	
17 Barcode reader + Headlight accessory - EAD/EID	615 812 138 0	
18 Headlight accessory - EAD/EID	615 812 139 0	
• Mounting plate for custom arm - EAD160/200/280/440/660	Contact Desoutter	
Desoutter Tool Holster		
19 DTH42 (For ERP3/5/10/20/30)	107892	
20 DTH90 (For ERP3/5/10/20/30)	615 812 119 0	
21 DTH TWIN (single) without rail	615 811 411 0	
22 DTH TWIN rail kit with 2 Twin holders	615 811 412 5	
23 DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5	
• D53 arms	See page 168	
• TRA telescopic reaction arms	See page 178	
• Balancers	See page 188	
ITEM	ADAPTER FOR ERAL/ERDL/ERP / EME / ERS AND ERP-HT	PART NO.
24	CVI II Tool Adaptor	615 936 070 0
25	ERS-ERPHT Adaptor	615 936 537 0

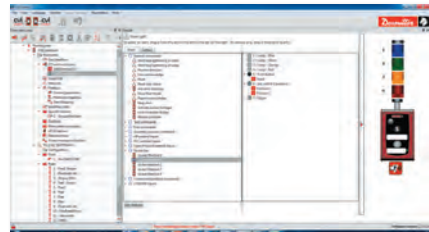


Set your tools right...

CVI3 & CONNECT Platform



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
- 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

HIGH FLEXIBILITY

- Dynamic mapping for I/O, fieldbus with drag & drop feature
- Including positioning set up
- 2 ways transfer of all parameters between stations & PC
- Complete backup/restore of stations

ASSEMBLY PROCESS

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



(included in CVI CONFIG) To monitor results, maintenance and diagnostic in real time.

REAL-TIME MONITOR

- Results
- Curves
- Export in csv format
- Real time fieldbus variables monitoring

USER INFO HISTORY

- Alarms history (logs)
- Problem solving guidance

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
- 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
- Battery tool setup and maintenance



Set your tools right...

CVI3 & CONNECT Platform



To collect tightening data and analyze results thanks to customized filter and report.



FLEXIBILITY

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

ANALYSIS

- OK/NOK distribution
- NOK distribution reasons analysis

TRACEABILITY

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

	PART NO.
Software	
CVI ANALYZER - 1 user	615 927 696 0
CVI ANALYZER - 5 users	615 927 697 0
CVI ANALYZER - 25 users	615 927 698 0



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



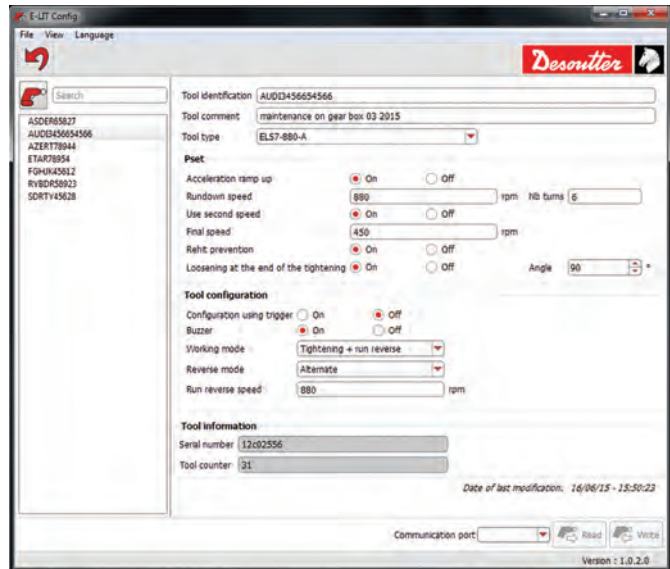
	PART NO.
Software	
CVI KEY	615 927 676 0

Set your tools right...

E-Lit Platform

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



	PISTOL	ANGLE HEAD 18V	ANGLE HEAD 36V	ELC TOOLS	PART NO.
Software					
E-LIT CONFIG software	✓	✓	✓	✓	-
License E-LIT PC Level 1				✓	615 927 685 0

Set your tools right...

Other Platform

CVIPC2000 software is a user friendly tool able to program tightening cycles, collect and display results and curves for other Desoutter controllers platforms.

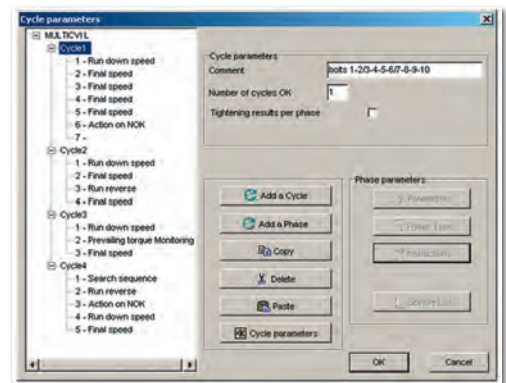
Programming mode

- General parameters of controllers: peripherals, fieldbuses, ethernet
- Tightening cycles
- Electric brushless tool features
- Downloading of all parameters to stations

Real time control mode on results, tightening reports.

Standard statistical analysis, reports and charts.

Maintenance mode with direct access to tool information, including test mode and complete backup/restore of stations.



The standard CVIPC 2000 is used for point to point connection of a single controller.

The CVIS/CVIC version is used for point to point connection of a single CVIS/CVIC/CVIC-II L and H/CVIL-II controller.

The advanced version is used for multipoint connection of several controllers.

MODEL	PART NUMBER
Reporting to Toolsnet open protocol 1 licence	615 927 829 0
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
Open protocol 1 licence	615 927 830 0
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
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
CVIPC2000 for CVIS/CVIC 1 Install	615 927 521 0
CVIPC2000 for CVIS/CVIC 2 Install	615 927 534 0

Improve your measurement

Delta Range

DELTA QC

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. Statistical machine capability tool or SPC are also ensured thanks to local database available in the Advanced version.

• 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.



• Delta QC Licensed



• 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.



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

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			✓

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			✓

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

Live data reporting & traceability

Product features



To collect data from controllers and display, in real time, results, statistics and reports on a web based client. Easy interface and configuration. CVI Net Web provides you with a very powerful tool to improve your production follow up.



FULL TRACEABILITY

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

FLEXIBILITY

- Administrator User
- Customized views and Filters
- Groups and Teams management
- Complete Plant layout definition
- Smart Identifier filtering
- Quick VIN result filtering

OPEN PROTOCOL ADAPTER LICENSE

- To collect results from any controller having Open Protocol capability
- To collect results from Delta Wrench WLAN

STATISTICAL ANALYSIS AND DOCUMENTATION

- Advanced OK/NOK reports and control charts
- Advanced NOK pareto analysis
- Cm/Cmk analysis according different standards (ISO, CNOMO, NF)
- Error Code Analysis & CVI3 User Info pareto diagram
- Team productivity report

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
- Assembly Process result and complete report in PDF, xls format

NOTIFIER LICENSE

- To send customized email or on-line notification triggered by specific User Info



Live data reporting & traceability

Product references list



STANDARD LICENSE

to collect results from Desoutter controllers

- CVI Net Web service
- DB scripts to create/update
- MySQL
- SQL Server
- Oracle DB



	PART NO.
Software	
• 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

OPEN PROTOCOL ADAPTOR

- OP Adapter License to collect results from all Desoutter controllers and tools with Open Protocol communication enabled
- OP Adapter Service to be registered in addition to standard CVI Net Web license

	PART NO.
Software	
• CVINET WEB - Open Protocol Adapter	615 927 758 0

CVI3 USER INFO NOTIFIER

- CVI Net Web allows to receive emails triggered by some events
- On-line notification as email alternative
- Notifier Service to be registered

	PART NO.
Software	
• CVINET WEB - Notifier	615 927 076 0

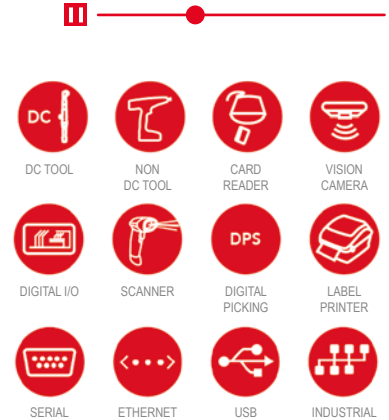
PivotWare - Process Control

Product features

Customized solutions available together with integration services in project management mode

INFINITY
Process Control Platform

FUSION
Process Control Management Suite



Fusion Management Suite for configuring stations & processes, deployment control and remote monitoring.



Production Management Module to manage products, sequencing and build requirements in each station.



Production Management Module

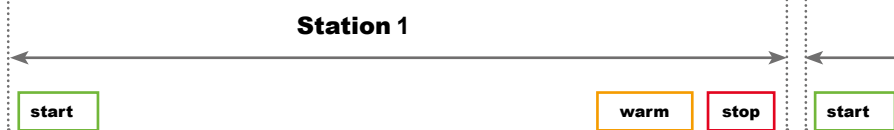


Structured sequence of work instructions and visual guidance delivered to operator for product variant requirements in station.



Customer Line Control System

Integration with line control systems for data exchange, product in station, line running/start/stop signals and TAKT requirements.

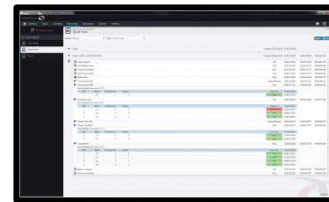




Watch our videos on
www.youtube.com/DESOUTTERTOOLS



Centralised storage and packaged services to manage collection and synchronisation of data.



Fusion Management Suite for interrogation and analysis of production data and product histories.

Dynamic Tooling option providing up to 8 tools running simultaneously on the workstation.



Quality Checking & Repair Station utilising Quality Management System modules & services.



Quality Management Module



On line rework of missed items using the QMS Shared Step features.

Station 2

Station 3

warm

stop

start

warm

stop

Station Level TAKT monitoring and management in line with product variant requirements in station.

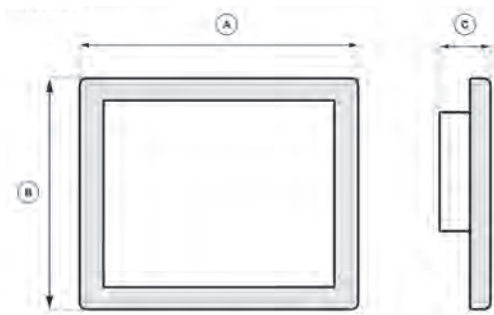
PivotWare - Process Control

Product references list

HARDWARE

Panel PC's		PART NUMBER
INFINITY Client - 17" IOT Panel PC with pre-loaded client software	with Alim, without power cable	615 932 742 0
INFINITY Module - 17" IOT Panel PC with pre-loaded Module software	Builder or Tracker (with Alim, without power cable)	615 932 743 0
INFINITY LITE - 17" IOT Panel PC with pre-loaded client software	with Alim, without power cable	615 932 744 0
Sigma -12" Panel PC with specific customized client software	with Alim, without power cable	615 932 730 0
Accessories		
INFINITY Micro 16I/O with M12 Connector Breakout	with alim without power cable	615 936 324 0
INFINITY/SIGMA Nano Kit	with 2 cables HD15 0,5m and Alim ; without power cable	615 936 327 0
INFINITY Positioning HW USB to CAN kit	1 x kit	615 813 265 0
Kit drive SSD with pre loaded software - spare part - Order with customer center		
Cable HD15 0,5m	Spare part	615 917 664 0
Cables		
Power cord 2m - A - European		615 917 201 0
Power cord 2m - B - USA		615 917 203 0
Power cord 2m - C - UK		615 917 202 0
Power cord 2m - D - Chinese		615 917 206 0

PANEL PC'S



MODEL	A		B		C	
	mm	in.	mm	in.	mm	in.
Sigma Client 12" IOT	317	12.48	243	9.57	66	2.60
Infinity Station 17" IOT	410	16.14	341	13.43	69	2.72
Infinity Module 17" IOT	410	16.14	341	13.43	69	2.72

ACCESSORIES

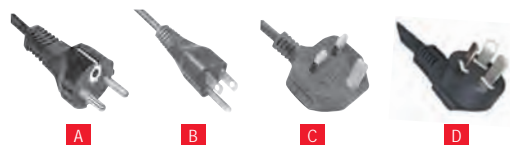


Infinity Micro



Sigma Nano Kit

CABLES



A

B

C

D



SOFTWARE

Fusion		PART NUMBER
FUSION Standard Client Management & Monitoring of Processes, Devices & Installation	Per user	615 927 783 0
Reporting		
Reporting Add-on for Fusion	Per Fusion user	615 927 784 0
Reporting / Core engine for Infinity Stations Traceability, data storage	1x station	615 927 799 0
	5x stations	615 927 800 0
	10x stations	615 927 801 0
	25x stations	615 927 802 0
	50x stations	615 927 803 0
	100x stations	615 927 804 0
	200x stations	615 927 805 0
Production Management System		
PMS Add-on for Fusion Production Management System Builder/Tracker modules, ERP Service	Per Fusion user	615 927 786 0
PMS for Infinity stations Production Management System Builder/Tracker modules, ERP Service (modules require extra hardware and Service requires Server licence)	1x station	615 927 820 0
	5x stations	615 927 821 0
	10x stations	615 927 822 0
	25x stations	615 927 823 0
	50x stations	615 927 824 0
	100x stations	615 927 825 0
	200x stations	615 927 826 0
Quality Management System		
QMS Add-on for Fusion Quality Management system, Shared steps, ...	Per Fusion user	615 927 787 0
QMS for Infinity stations Quality Management system, Shared steps, ...	1x station	615 927 806 0
	5x stations	615 927 807 0
	10x stations	615 927 808 0
	25x stations	615 927 809 0
	50x stations	615 927 810 0
	100x stations	615 927 811 0
	200x stations	615 927 812 0
Add-ons / Options		
INFINITY Concurrent tool Add-on	1x station	615 927 790 0
INFINITY Multi-spindle Add-on	1x station	615 927 785 0
INFINITY Positioning Add-on	1x station	615 927 791 0
INFINITY Plug-In Add-on	1x station	615 927 794 0
ERP Adaptor (On server license)	Per Server	615 927 782 0



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

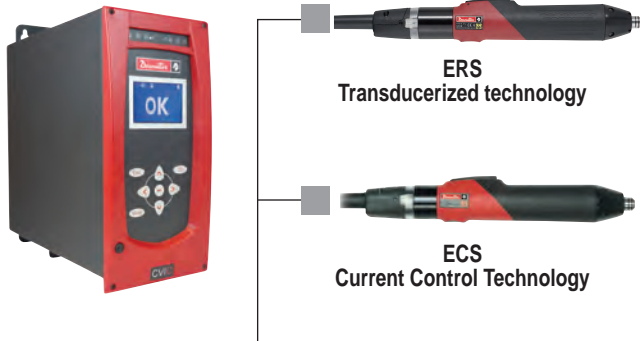


Controller - CVIR II

Error proofing and flexibility

Advanced control unit with flexibility and technology

- Easy integration into your assembly line with multiple choices of connectivity



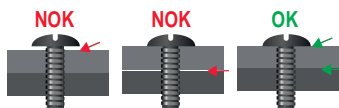
COMMUNICATION

- 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	50/60 hertz	mm	in.	mm	in.	mm	in.	5	11

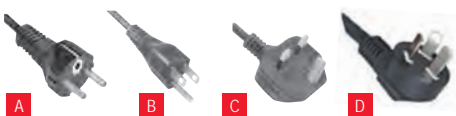
MAIN FUNCTIONS	CVIR II
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	50
Number of phases available	15
Phase characteristics	
Search sequence	✓
Approach	✓
Run down speed	✓
Final speed phase	✓
Action on NOK	✓
Run reverse	✓
Jump to another phase	✓
Prevailing Torque	✓
Synchronisation 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

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



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 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



A



B



C

Visible & Programmable reporting LED System



Good Report



Bad Report



Programmable

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



ACCESSORIES
see page 85

To connect with CVI3 controller, ERS module is needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				SPEED	WEIGHT	
				MIN. Nm	MAX. Nm	MIN. in/lb	MAX. in/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
C	*ERSF2-03	615 166 068 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
C	*ERSF6-03	615 166 069 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
C	*ERSF12-03	615 166 070 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54

*Models with 30cm integrated cable instead of 4 meters

Electric transducerised Very Low Torque – CVIXS



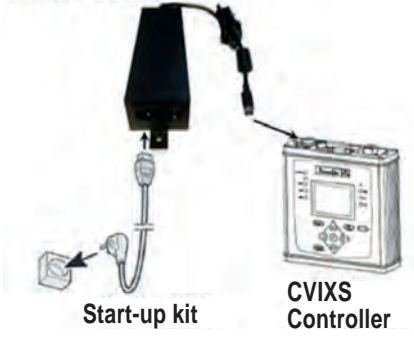
- Power on LED
- NOK - Max Torque exceeded
- OK
- NOK - Min Torque not reached
- Escape Button
- Validation Button
- NOK - Max Angle exceeded
- OK
- NOK - Min Angle not reached
- Print report button
- ON/OFF switch
- ENTER and ARROW keys

- Vacuum pump management
- Ground connection
- Power supply
- Tool connection
- I/Os connector
- Ethernet
- RS232 / Field bus

MAIN FUNCTIONS	
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	50
Number of phases available	15
Phase characteristics	
Search sequence	✓
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	✓
Seating detection	✓
Stall torque	✓
Number of stored results	2000 to 10000 according configuration

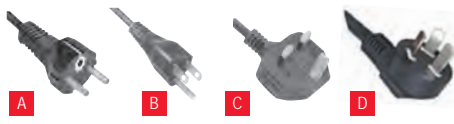
Controller features

Power Supply

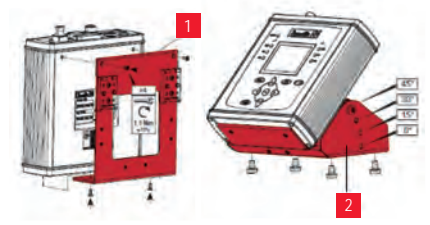


Start-up kit

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



CVIXS supports



ITEM	DESCRIPTION	PART NO.
1	KIT RAIL DIN SUPPORT CVIXS	615 812 231 0
2	KIT ANGLE SUPPORT CVIXS	615 812 232 0

CVIXS fieldbus communication : order fieldbus module + fieldbus protocol

FIELD BUS PROTOCOL	MODEL	PART NO.	MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)	SUPPLY VOLTAGE	DIMENSIONS			WEIGHT				
								WIDTH	HEIGHT	DEPTH	kg	lb.			
	1 Ethernet IP Module	615 929 051 0													
	2 Profibus DP Module	615 929 052 0													
	3 ProfiNet Module (1 port)	615 929 053 0													
	4 ProfiNet Module (2 ports)	615 929 054 0													
	5 CC-Link Module	615 929 055 0													
	6 Devicenet Module	615 929 056 0													
	7 MODBUS TCP Slave	615 929 057 0													
	CVIXS CONTROLLER	615 932 720 0	ERXS			150	36 VDC	171,6	6,73	171	6,75	54,6	2,15	1,12	2,2
	CVIXS POWER SUPPLY	615 932 663 0	CVIXS			72-180	100-240 VAC	65	2,56	50	8,07	50	1,97	0,97	2,13

Electric transducerised Very Low Torque – NANO DRIVER



Transducerized tool for Extreme Precision

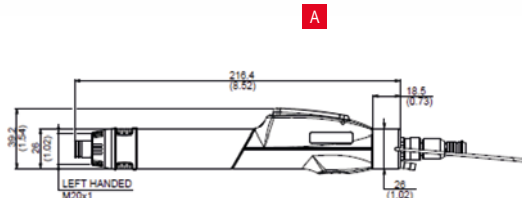
- 4mm wing shank and half moon bits for the smallest screws
- Safety Critical Repeatability
- Traceability using internal transducer

Ergonomic Design

- Streamlined & contoured
- Non-slip Tool Housing
- Push / Lever start
- Highly Flexible Light Weight Industrial Cable
- M20 output thread for easy integration and automatization

Programmable Vacuum System Activation Options

- Built in Accelerometer
- Dedicated connector for 24V vacuum pump



PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				MAX SPEED	LENGTH		WEIGHT	
				MIN	MAX	MIN	MAX		mm	in.	kg	lb
				Ncm	Ncm	in/lb	in/lb					
A	ERXS 20	615 165 874 0	WS-HM	6	20	0,53	1,77	1000	216	8,5	0,3	0,66
A	ERXS 50	615 165 875 0	WS-HM	15	50	1,32	4,43	1000	216	8,5	0,3	0,66
A	ERXS 80	615 165 876 0	WS-HM	24	80	2,12	7,08	1000	216	8,5	0,3	0,66

DESCRIPTION	PART NO.
TOOL & EXTENSION CABLE 3 METERS - 9,8 FT*	615 917 643 0

*Connect up to 3 cables (max 9 Meters - 29,5 ft)

ACCESSORIES

ITEM		PART NUMBER
Vacuum solution		
1	"Blank nozzle short: 40mm. To be machined according to screw"	615 704 033 0
2	"Blank nozzle long: 60mm. To be machined according to screw"	615 704 034 0
3	"Vaccum adapter kit. For tool handheld. To be ordered with a blank nozzle"	615 812 883 0
Arms		
4	D53-5	615 810 700 0
5	D53-5S	615 810 706 0
6	Special clamp	615 812 885 5
Bits		
	• Refer to accessories section	page 299
Miscellaneous		
7	Flange M20 for automatization	205 052 875 3
8	DTH42 Tool holster	107892
9	Cable 2m for Bit Tray	615 917 598 0
	• Cable 2m for Posco 500	615 917 747 0



Controller - CVIL II

Flexible integration



Optional fieldbus module

RS232 connector
• Barcode
• CVI PC 2000
• Results reports

I/O port
• 7 inputs
• 8 outputs
Emergency stop cat.2 level D



Ethernet port
8 sockets
CVIPC 2000
CVINET
Others

GFI
Circuit breaker

Tool connector
Hand held tools or
Fixtured spindles

Auto switch - main supply
110 to 240Volts

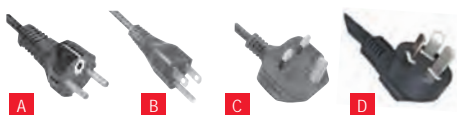
FEATURES	CVIL II
General functions	
Number of cycles	50
Number of phases	15
Batch count	999
Bar code reading via RS232 port	✓
Programming	
LCD screen and display	✓
CVIPC software	✓
Tightening results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Data+Time+Report	up to 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.
CVIL II	615 932 680 0	4A	2A	50/60 hertz	mm	in.	mm	in.	mm	in.	5.9	13

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



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 50 Nm (7.4 to 36.9 ft.lb) - 4600 rpm



ADVANCED ERGONOMICS

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

OPTIMIZED MAINTENANCE

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

INCREASED PRODUCTIVITY

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

IMPROVED ENVIRONMENT

- Reduce CO2 emission
- Clean workspace
- Reduce energy consumption



A



C



E



B



D



F



ACCESSORIES
see page 85

PIC REF	PART NUMBER	MODEL	OUTPUT DRIVE	OUTPUT RETAINING TYPE	TORQUE				ROTATIONAL MAX SPEED	LENGTH		WEIGHT		INTEGRATED CABLE
					MIN	MAX	MIN	MAX		mm	in.	kg	in.	
					Nm	Nm	ft.lb	ft.lb						
A	615 165 838 0	ELRT025-P4600-10S	Sq. 3/8	Through hole	10	25	7.4	18.4	4600	228	9.0	1.3	2.9	N/A
B	615 165 890 0	ELRT025-P4600-4Q	Hex. 1/4	Quick change chuck	10	25	7.4	18.4	4600	228	8.7	1.3	2.9	N/A
C	615 166 040 0	ELRT025T-10S-5	Sq. 3/8	Through hole	10	25	7.4	18.4	4600	255	10.0	2.6	5.7	5 meters
C	615 166 047 0	ELRT25T-10S-1	Sq. 3/8	Through hole	10	25	7.4	18.4	4600	255	10.0	2.1	4.6	1 meter
D	615 166 041 0	ELRT25T-4Q-5	Hex. 1/4	Quick change chuck	10	25	7.4	18.4	4600	249	9.8	2.6	5.7	5 meters
D	615 166 048 0	ELRT25T-4Q-1	Hex. 1/4	Quick change chuck	10	25	7.4	18.4	4600	249	9.8	2.1	4.6	1 meter
E	615 166 022 0	ELRT050-P4900-10S	Sq. 3/8	Through hole	20	50	14.8	36.9	4900	244	9.6	1.7	3.7	N/A
F	615 166 042 0	ELRT050T-10S-5	Sq. 3/8	Through hole	20	50	14.8	36.9	4900	271	10.7	3.0	6.6	5 meters
F	615 166 049 0	ELRT050T-10S-1	Sq. 3/8	Through hole	20	50	14.8	36.9	4900	271	10.7	2.5	5.5	1 meter

Handheld electric tools

Pistol grip electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						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				
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
ERP5L	615 165 194 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4.0	2000	196	7.7	1.0	2.2
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
ERP20L	615 165 196 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
ERP20S	615 165 197 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
ERP30S	615 165 198 0	Sq. 3/8	5.0	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
ERP40S	615 165 263 0	Sq. 3/8	6.0	40	42	4.4	29.5	31	680	274	10.8	1.7	3.7
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
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
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
ERP20LT	615 165 230 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4



Angle head electric nutrunners

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				
ERAL1.5-15	615 165 356 0	Sq. 3/8	2	15	18	1.5	11	13.3	1511	408	16.1	1.35	3.0
ERAL1.5-25	615 165 357 0	Sq. 3/8	3	20	25	2.2	14.7	18.4	1511	408	16.1	1.35	3.0
ERAL2.30	615 165 362 0	Sq. 3/8	5	20	30	3.7	14.7	22	1511	433	17	1.55	3.4
ERAL2.40	615 165 363 0	Sq. 3/8	7	30	40	5.2	22	29.5	1169	433	17	1.6	3.5
ERAL2-60	615 165 364 0	Sq. 3/8	8	45	60	5.9	33	44	918	443	17.5	1.7	3.7
ERAL2-80	615 165 365 0	Sq. 3/8	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL2-80 SQ1/2	615 165 406 0	Sq. 1/2	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL4-90	615 165 384 0	Sq. 1/2	15	70	90	11	51.6	66	690	552	21.7	3.5	7.7
ERAL4-110	615 165 385 0	Sq. 1/2	20	90	110	14.7	66	81	540	552	21.7	3.5	7.7
ERAL4-120	615 165 386 0	Sq. 1/2	25	115	120	18.4	85	88.4	380	552	21.7	3.5	7.7
ERAL4-140	615 165 387 0	Sq. 1/2	30	125	140	22	92	103	360	554	21.8	3.7	8.1
ERAL4-170	615 165 388 0	Sq. 1/2	35	150	170	26	110.5	125	300	554	21.8	3.7	8.1
ERAL4-225	615 165 389 0	Sq. 3/4	60	200	225	44	147	166	220	604	23.8	3.9	8.6
ERAL6-135	615 165 390 0	Sq. 1/2	30	125	135	22	92	100	640	639	25.2	6.2	13.7
ERAL6-170	615 165 441 0	Sq. 1/2	30	150	170	22	110	125	520	639	25.2	6.2	13.7
ERAL6-280	615 165 391 0	Sq. 3/4	50	250	280	37	184	206	300	661	26	6.3	13.9
ERAL6-350	615 165 392 0	Sq. 3/4	75	300	350	55	221	258	250	702	27.6	8.0	17.6
ERAL6-480	615 165 393 0	Sq. 3/4	100	400	480	73	295	354	190	702	27.6	8.0	17.6



In-line electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						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				
ERD5J	615 165 060 0	Hex. 1/4 F	0.5	6	8	0.37	4.4	5.9	2070	379	14.9	1.3	2.9
ERDL1.5-12	615 165 366 0	Hex. 1/4 F	2	10	12	1.5	7.4	8.8	1586	365	14.4	1.3	2.9
ERDL1.5-20	615 165 367 0	Hex. 1/4 F	3	15	20	2.2	11	14.7	1586	365	14.4	1.3	2.9
ERDL1.5-30	615 165 368 0	Sq. 3/8	5	20	30	3.7	14.7	22	1586	357	14	1.3	2.9
ERDL2-40	615 165 369 0	Sq. 3/8	7	30	40	5.2	22	29.5	1159	382	15	1.5	3.3
ERDL2-50	615 165 370 0	Sq. 3/8	8	40	50	5.9	29.5	36.9	898	382	15	1.5	3.3
ERDL4-60	615 165 407 0	Sq. 3/8	20	50	60	14.7	36.8	44.2	1030	475	18.7	2.8	6.2
ERDL4-80	615 165 394 0	Sq. 1/2	20	70	80	14.7	51.6	59	650	475	18.7	2.8	6.2
ERDL4-135	615 165 395 0	Sq. 1/2	30	120	135	22.1	88.4	99.6	400	502	19.8	3.3	7.3
ERDL6-170	615 165 396 0	Sq. 1/2	40	150	170	29.5	110.5	125.3	530	590	23.2	5.9	13
ERDL6-220	615 165 397 0	Sq. 3/4	50	200	220	36.8	147.4	162	380	597	23.5	5.9	13
ERDL6-250	615 165 398 0	Sq. 3/4	60	230	250	44.2	169	184	290	597	23.5	5.9	13



ACCESSORIES
see page 84



MultiCVIL II - Main Features

MULTICHANNEL SYSTEM

Drive up to 32 fixtured spindles
One CVIL Master + x times CVIL Slave

Through CVIPC2000 (to Master only)

Cycles Phases management

- 31 different cycles
- Combines up to 20 phases in a fastening cycle

Data collection

- CVIPC2000
- CVINET WEB

Fieldbuses

- By additional modules
- By Ethernet ports
- Flexible mapping

Isagraf, embedded PLC software to manage:

- Assembly station
- HMI

FIXTURED SPINDLES

- From 1 to 1900Nm
- EME straight
- EMEOF with Offset for close center distance application
- EMEL "L" shape reduces the height of the tool
- High accuracy
- A10 class
- Digital communication between the tool and controller
- Memory chip with all characteristics of the tool: transducer sensitivity, gear ratio, maintenance info, etc...

ONE CABLE

- Motor power
- Digital connection of the transducer and memory device
- Up to 45 meters
- Design to be used in robot applications



Flexibility of tightening process

EASY PROGRAMMING OF THE TIGHTENING SEQUENCE WITH FULL SYNCHRONIZATION

Run Down phase

Spindle 1-2-3-4-5-6-7-8-9-10

Final Speed phase

Spindle 1-2

Final Speed phase

Spindle 3-4-5-6

Final Speed phase

Spindle 7-8-9-10

Automatic Repair Action

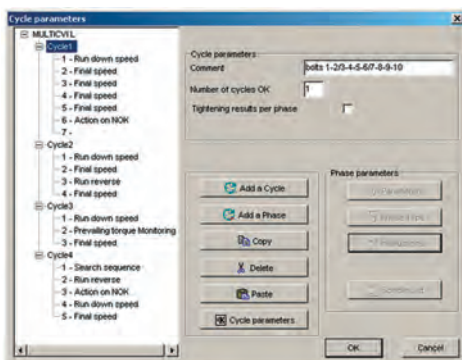
Reverse all spindles and retry once
Jump to phase 2

End of the cycle

Reporting



CVIPC



MAIN FUNCTIONS	MULTICVIL II
Number of channels	1 to 32
Number of cycles	31
Number of phases	20
Batch count	999
Bar code reading via RS232 port	
Tightening results	
Torque + Angle + Date + Time + Report	up to 32 000
Number of curves (per channel)	10
Tightening strategies	
Torque control + angle monitoring	✓
Angle control + torque monitoring	✓
T control + (Angle + torque rate) monitoring	✓
Angle control + (Torque + torque rate) monitoring	✓
Yield point strategy	✓
Stall torque	✓
Prevailing torque	✓
Current monitoring	✓
Reverse at Angle control	✓
Tightening connectivity	
Input/Output	8/8
RS232 port	OK
Ethernet RJ45	8 sockets
Fieldbuses	Optional module
Embedded PLC software	OK
IP54	Optional module
Emergency stop	2 channels

Controllers - MultiCVIL II



MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
		115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
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
Kit Combox V2 Multi CVIL2	615 929 050 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



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

Powerbox depending on power supply



Fixtured electric spindles

High durability of EME tools

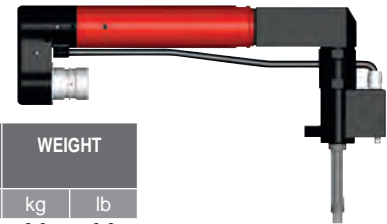
- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range

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



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



EME Offset with torque transducer in line with the output shaft

Increase access by using smallest CC distances offered

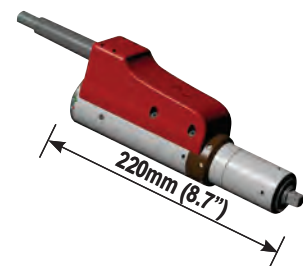
MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LONGUEUR		LENGTH	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EME24-20 OF	615 165 512 0	3/8	4-20	2.9-15	1225	24	0.95	375.2	14.8	2.7	5.9
EME26-50 OF	615 165 513 0	3/8	7-50	5.2-40	985	26	1.02	387.5	15.2	2.7	5.9
EME30-80 OF	615 165 514 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



Fixtured electric spindles ERF

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

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



For further information about the technical data see pages 61 and 73



ACCESSORIES
see pag 85

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

Desoutter 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

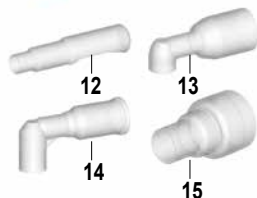
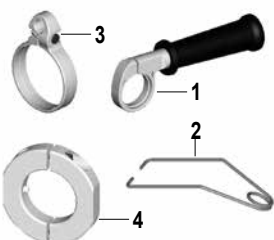
HEAVY DUTY CABLE FOR ERP / ERAL /ERDL TOOLS	PART NO.
Cable 2.5m (8.2ft)	615 917 570 0
Cable 5m (16ft)	615 917 571 0
Cable 10m (32ft)	615 917 572 0

HEAVY DUTY EXTENTION CABLE FOR ERP / ERAL /ERDL 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

SOCKET TRAY

• Socket tray (sockets not included)	615 936 005 0
• 37 pin D-Sub female I/O adapter	615 919 003 0

CABLE LENGTH:	1m (3.3ft)	5m (16ft)	10m (32.8ft)	15m (49.2ft)
• Cable for sockets tray for CVIxlI	615 917 265 0	615 917 266 0	615 917 267 0	615 917 268 0





ERS / ERSA / ERSF / E-LRT

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	
	• Torque tubes	see page 169	
8	Bit Tray	615 929 025 0	615 929 025 0
9	Spring suspension balancer	50522	50542
10	Tool Holster DTH90		615 812 119 0
11	ERS Module	615 936 537 0	
12	Sleeve drive socket	see page 297/298/299	

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)	615 917 641 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



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





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 bots are tightened with correct strategy.



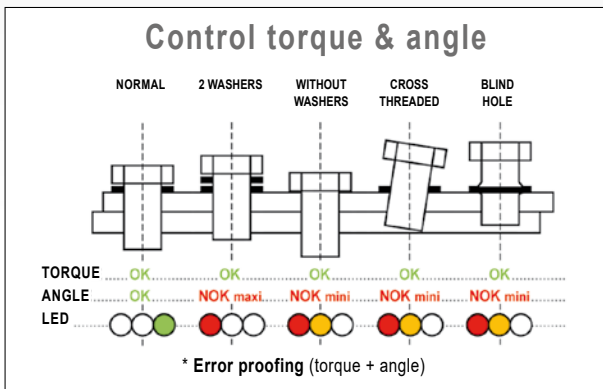
Batch NOK



Batch OK

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				
program cycles, collect, display and save results, run statistics, curves				
CVIPC2000 *: 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	

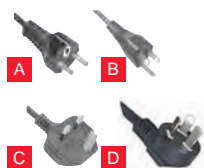
MODEL	PART NUMBER	TOOLS	CONSUMPTION (current)		MAINS SUPPLY	DIMENSIONS			WEIGHT			
			115V	230V		50/60 hertz	WIDTH	HEIGHT	DEPTH	kg	lb.	
			mm	in.	mm	in.	mm	in.	mm	in.	kg	lb.

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

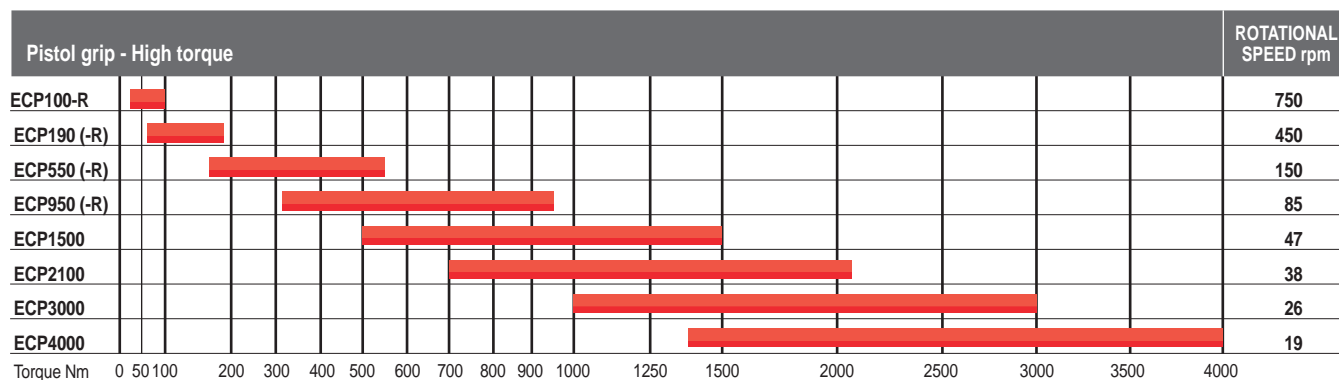
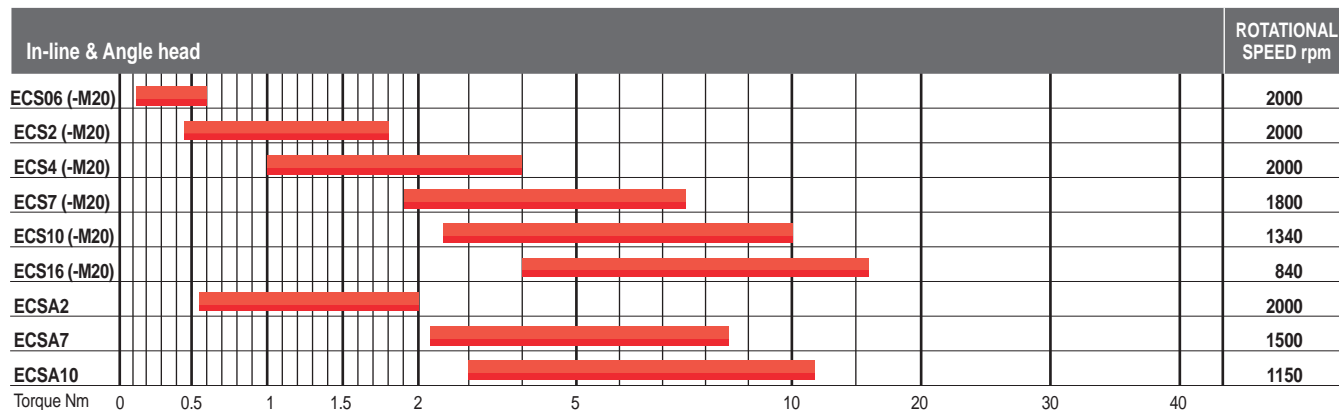
	PART NO.
• PC cable Length 2m (78.7")	615 917 047 0
• Printer cable Length 2m (78.7")	615 917 011 0
• 37 pin D-Sub female I/O adapter	615 919 003 0
• BRDx2 (Backup Rescue Device)	615 936 328 0

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

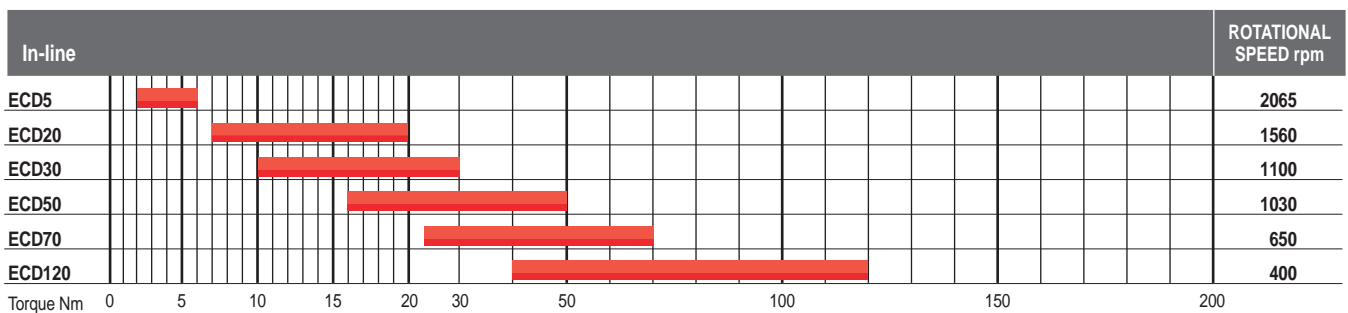
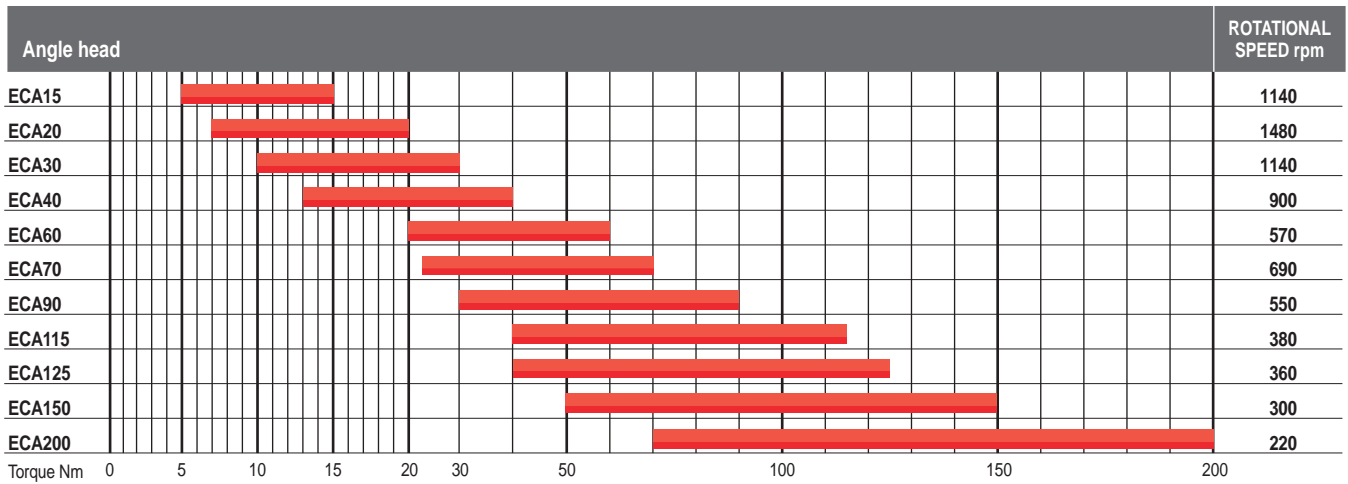
Torque range

Performances of Portable electric nutrunners ECS, ECSA and ECP Series

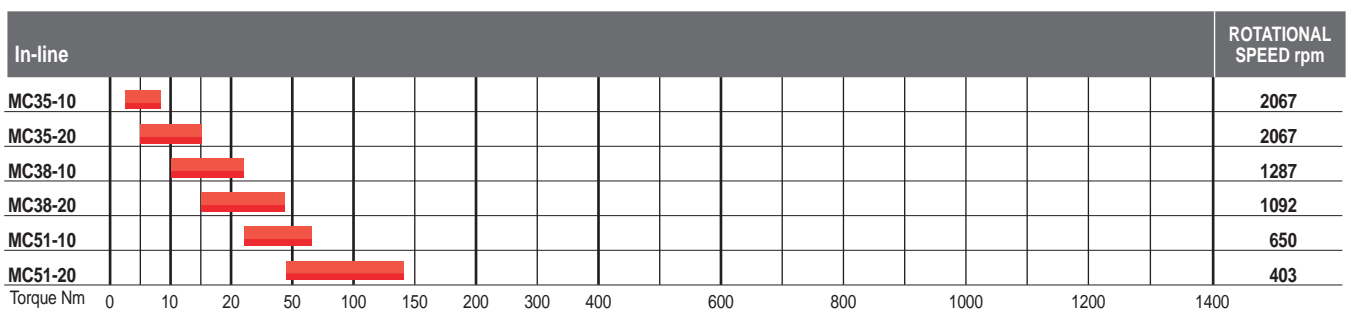
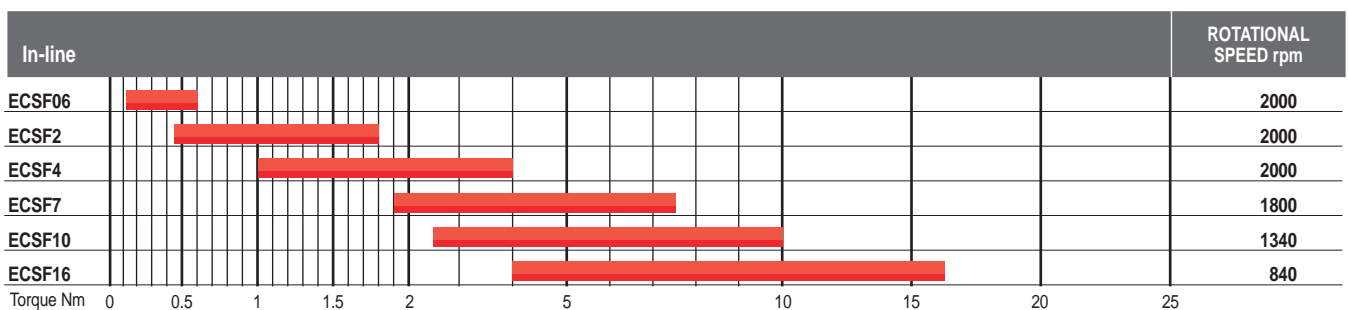


Torque range

Performances of Portable electric nutrunners ECA and ECD Series



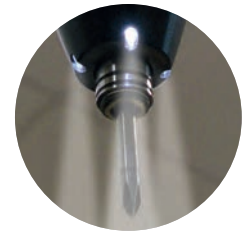
Performances of Fixtured electric spindles ECSF and MC Series



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



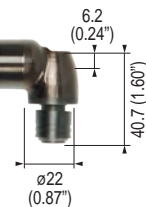
A



B



C



OK



NOK



BATCH OK

Get the best tightening feedback directly on the tool



ACCESSORIES
see pages 102-103

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

ELECTRIC SCREWDRIVERS - IN-LINE

A	ECS06	615 165 442 0	Hex. 1/4 F	0.12	0.6	1.1	5.3	2000	285	11.2	0.6	1.3
A	ECS2	615 165 443 0	Hex. 1/4 F	0.45	1.8	4	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
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	1	2.2
C	ECSA7	615 165 448 0	Hex. 1/4 F	2.2	8.5	19.5	75.2	1500	329	12.9	1	2.2
C	ECSA10	615 165 449 0	Hex. 1/4 F	3	11.5	26.6	101.8	1150	329	12.9	1	2.2



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 102-103

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
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

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



Electric high torque pistol grip - CVIC



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



Angle head electric nutrunners - CVIC

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



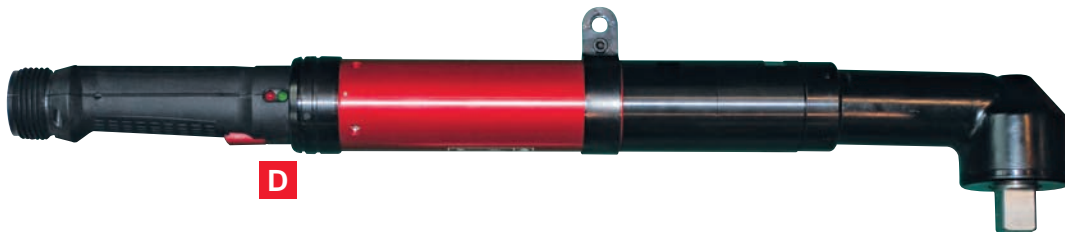
A



B

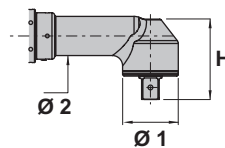


C



D

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 102-103

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
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



A



B



C



ACCESSORIES
see pages 102-103

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
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



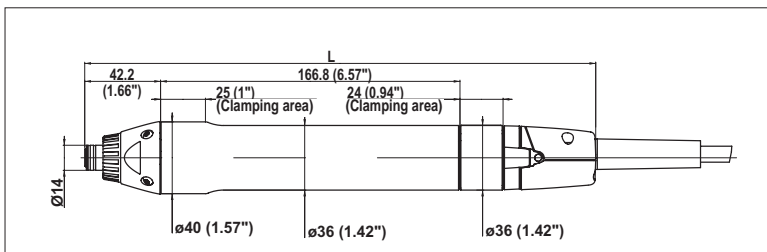
Offset head for application with close centers (minimum 19mm)



Automatically adjust the stroke for multispindle applications with spring loaded shafts



Mount your spindle easily on a support using the adapted flange



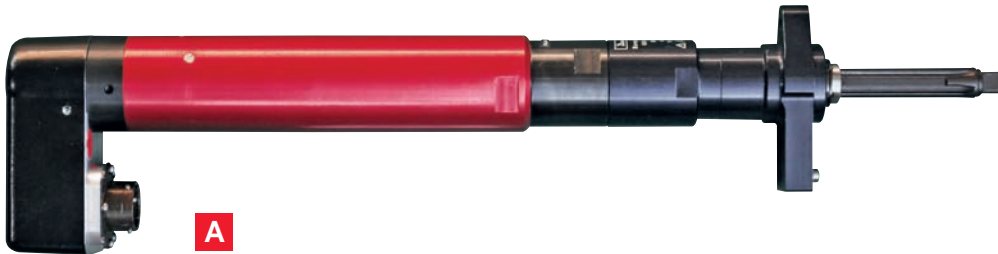
ACCESSORIES
see page 102-103

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
A	*ECSF06-03	615 166 071 0	Hex. 1/4 F	0.12-0.6	1.1-5.3	2000	285	11.2	0.6	1.3
A	*ECSF2-03	615 166 072 0	Hex. 1/4 F	0.45-1.8	4.0-15.9	2000	285	11.2	0.6	1.3
A	*ECSF4-03	615 166 073 0	Hex. 1/4 F	1.0-4.0	8.8-35.4	2000	285	11.2	0.6	1.3
A	*ECSF7-03	615 166 074 0	Hex. 1/4 F	1.9-7.5	16.8-66.4	1800	285	11.2	0.7	1.5
A	*ECSF10-03	615 166 075 0	Hex. 1/4 F	2.5-10	22.1-88.5	1340	285	11.2	0.7	1.5
A	*ECSF16-03	615 166 076 0	Hex. 1/4 F	4.0-16	35.4-141.6	840	285	11.2	0.7	1.5

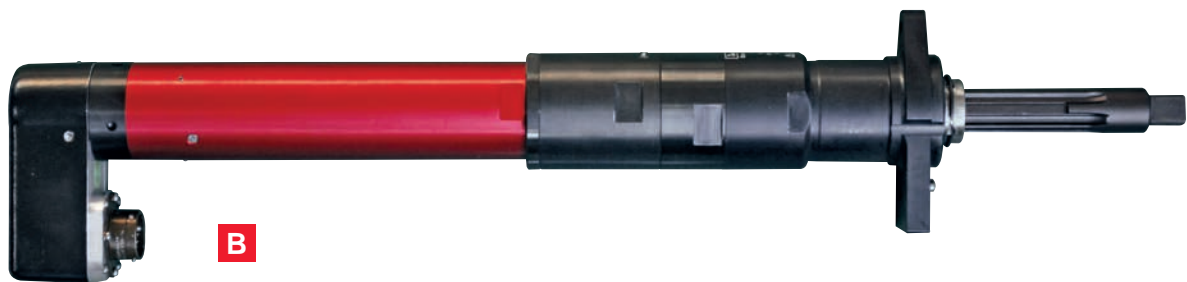
*Models with 30cm integrated cable instead of 4 meters

Fixtured electric spindles - CVIC

2.5 to 135 Nm (1.8 to 99 ft.lb) - 403 to 2067 rpm



A



B



ACCESSORIES
see page 102-103

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		TELESCOPIC		MIN CENTRE DISTANCE		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	mm	in.	mm	in.	kg
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

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

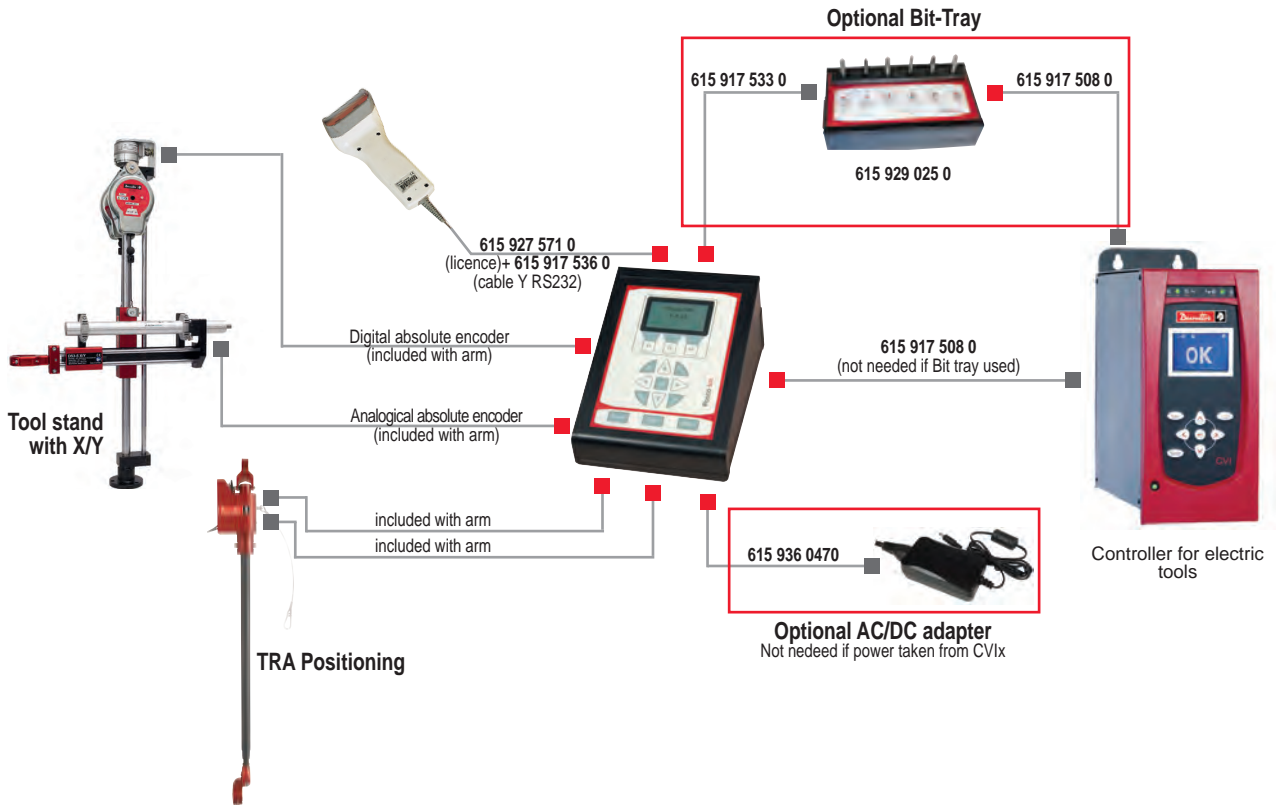
Posco 500 Positioning system

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	615 917 508 0
Cable Posco 500 / CVIXS	615 917 747 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?





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	108342
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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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 1m (3.3ft)	615 917 265 0
Cable 5m (16ft)	615 917 266 0
Cable 10m (32.8ft)	615 917 267 0
Cable 15m (49.2ft)	615 917 268 0

CABLE FOR BIT TRAY	PART NO.
Extension cable 2m (6.4ft)	615 917 535 0



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

EXTENSION CABLE FOR ECS / ECP / ECA / ECD TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 222 0
Extension cable 10m (32.8ft)	615 917 224 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.
Tool cable 5m (16ft)	615 917 232 0
Tool cable 10m (32.8ft)	615 917 234 0
Tool cable 15m (49.2ft)	615 917 235 0

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



Devonizer

621 611 0700
615 610 0740
AS2 - P3

615 610 0740
AS3 - P3

615 610 0750
C12 - P3

615 610 0750
C12 - P3

623 611 0800
615 610 0740
AS2 - P3

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	SLBN003/010/012/020
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 - SLBN



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)



Standard Version - SLBN

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



A



B



C



D



E



F

MODEL	LENGHT		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 111

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

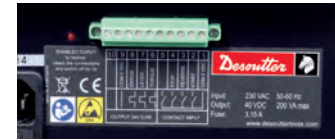
ESP C / ESP CA

Advanced controller SLC range

- Auto stop after elapsed time and auto reverse

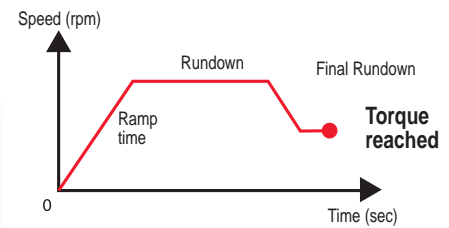
- OK/NOK with rehit protection

- 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

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

Torque Nm

0 0.5 1 1.5 2 3 4 5 6 6.5 7 8 9 10 11 12 13 14 15 16

In-line and Angle head screwdrivers - SLC

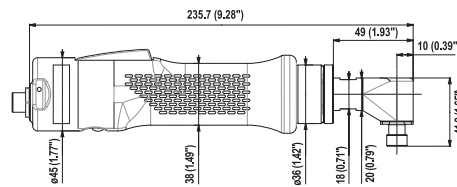
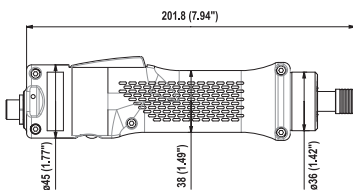
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



A



B

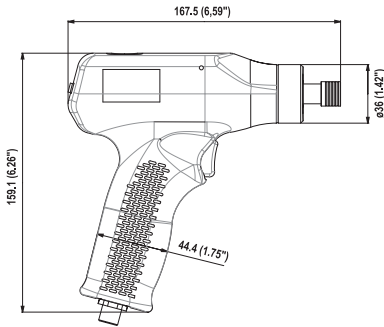


ACCESSORIES
see page 111

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			
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
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-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
			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
			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

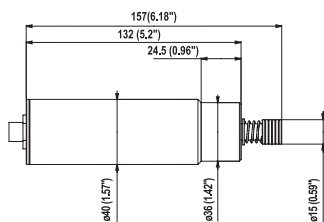
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT Nm	SOFT in.lb	HARD Nm	HARD in.lb	kg	lb	
PISTOL GRIP - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
A	SLC030-P1200-C4Q	615 165 488 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.6	1.3	ESP C(A) LT
A	SLC100-P600-C4Q	615 165 462 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.6	1.3	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
A	SLC150-P320-C4Q	615 165 463 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			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
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
B	SLC150-T320-C4Q	615 165 465 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			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 Nm	SOFT in.lb	HARD Nm	HARD in.lb	kg	lb	
AUTOMATION - REMOTE START											
A	SLC030-F1200-C4Q	615 165 490 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.5	1.1	ESP C(A) LT
A	SLC100-F600-C4Q	615 165 468 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.5	1.1	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-F320-C4Q	615 165 469 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.5	1.1	ESP C(A) LT
			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)



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	Shielded cable 3m for ESP2-A	615 917 721 0
	• Shielded cable 5m	615 917 725 0
	• Shielded cable 10m	615 917 726 0
3	Spiral cable 2m (6.5 ft)	615 360 838 0
4	Pistol grip (Trigger) for SLB030/050	615 397 918 0
4	Pistol grip (Push) for SLB030/050	615 397 919 0
4	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
5	Angle head for SLB012/020	615 398 033 0
5	Angle head for SLB030/050	615 398 034 0

SLC Tools

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

Spring Loaded Shafts and Bearings Support

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

Nose Mounts for SLC-M20

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

Offset Head and Spring Loaded Shaft

12	Spring loaded shaft 25mm (1") stroke, 3/8" square drive	108342
16	Offset Head, Offset 30mm (1.18")	384993

Screwdriver Bit Adaptor

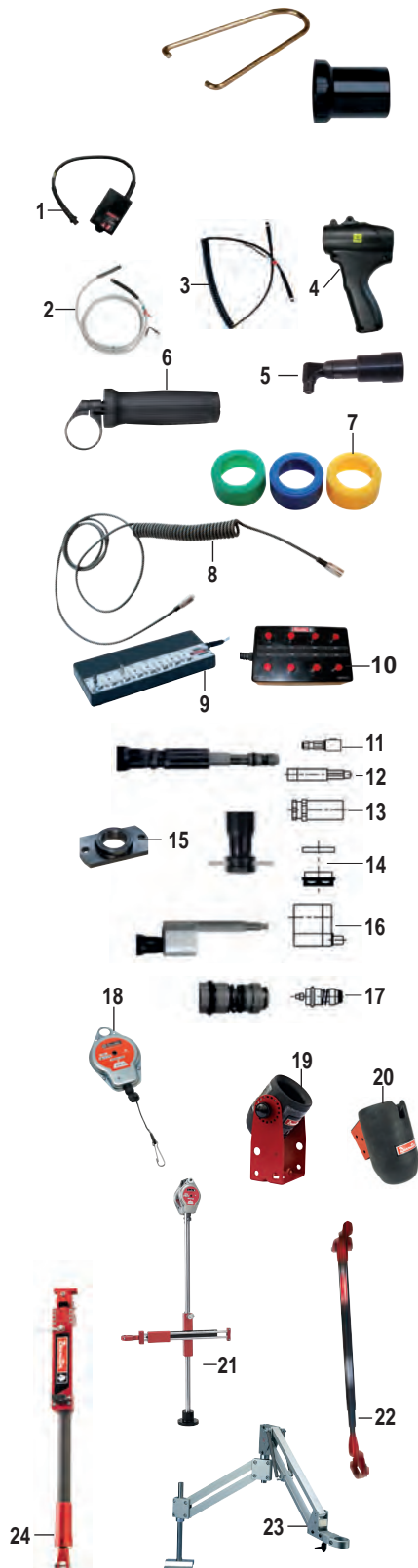
17	3/8" Square to 1/4" HexPower Adaptor	108322
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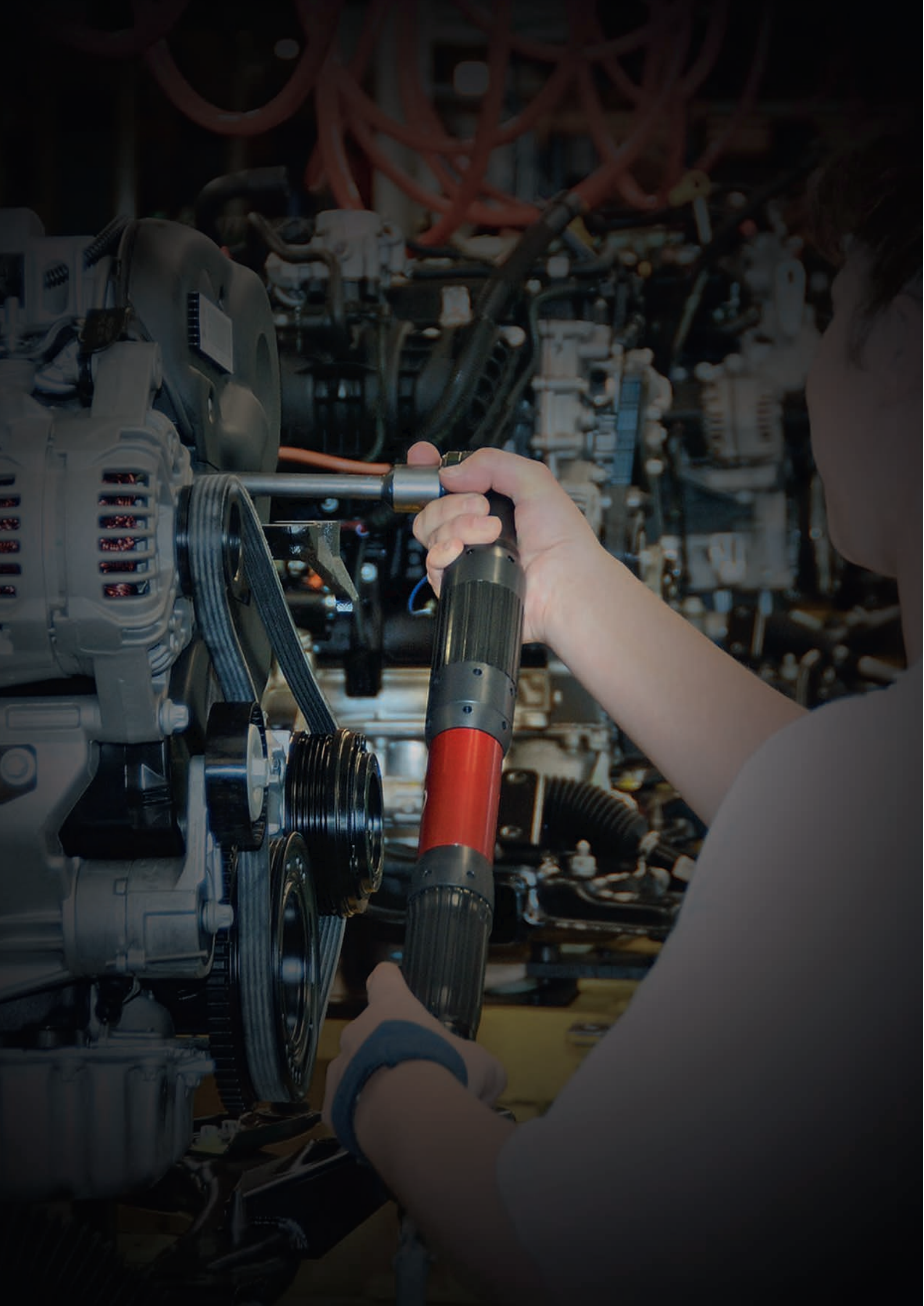
Balancers and Holster

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

Ergonomic accessories

21	D53 - Linear & Folder arms	see page 168
22	TRA - Telescopic arms	see page 178
23	D57, D58 - Balancing arms	see page 186
24	Torque tube	see page 183





Pneumatic fastening tools

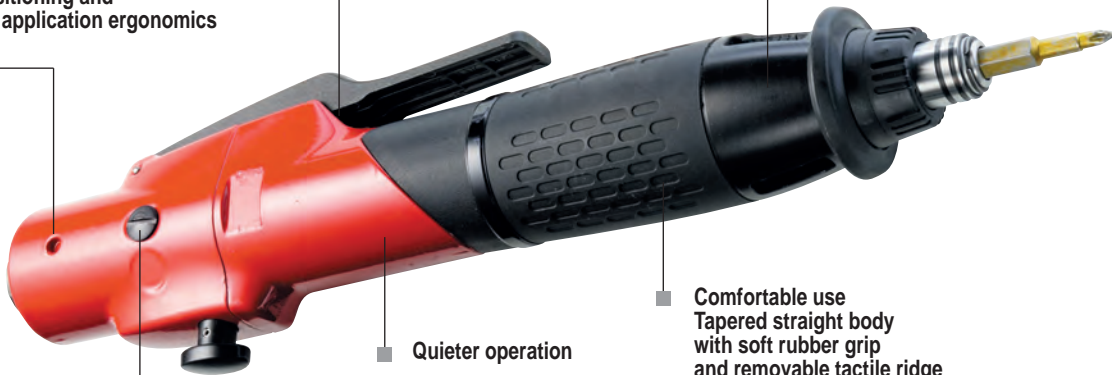
Shut Off, Non Shut Off, Direct Drive, Automatic Reverse



ESD Certification
Electrostatic discharge
component protection

Tamperproof clutch adjustment
Torque integrity and
assembly line protection

Cylindrical clamping area
Better positioning and
improved application ergonomics



Comfortable use
Tapered straight body
with soft rubber grip
and removable tactile ridge

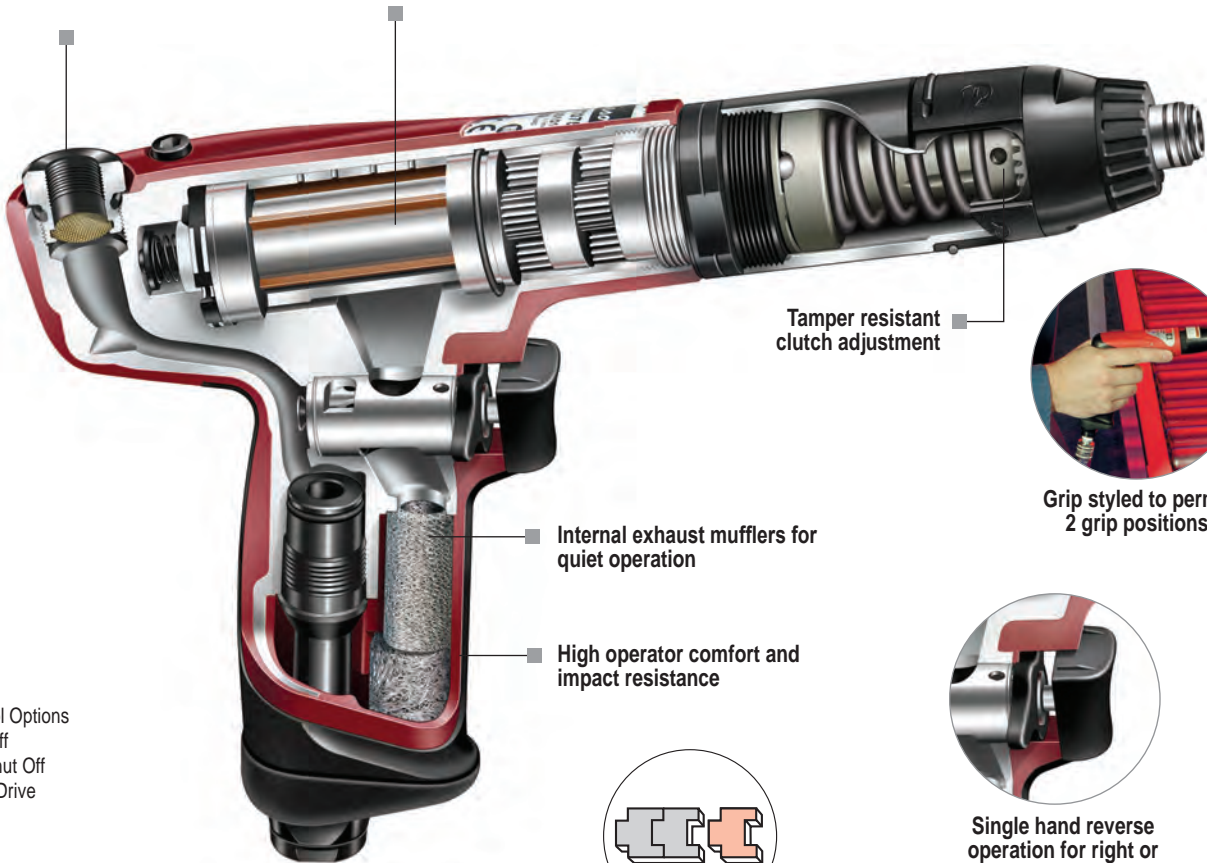
Quieter operation

Built-in feedback
Easy integration with FAS3000
for POSCO process control unit
(lever start model only)

**T shape grip for better
balance to enhance
operator comfort**

**Powerful, efficient,
Dryline™ motor**

CLUTCH AND MOTOR PROLONGING TOOL LIFE



**Tamper resistant
clutch adjustment**



**Grip styled to permit
2 grip positions**

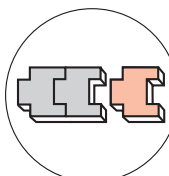
**Internal exhaust mufflers for
quiet operation**

**High operator comfort and
impact resistance**



**Single hand reverse
operation for right or
left handed operators**

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



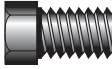
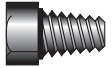

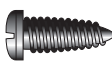

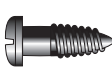
Modularity


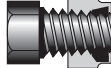



Tool selection

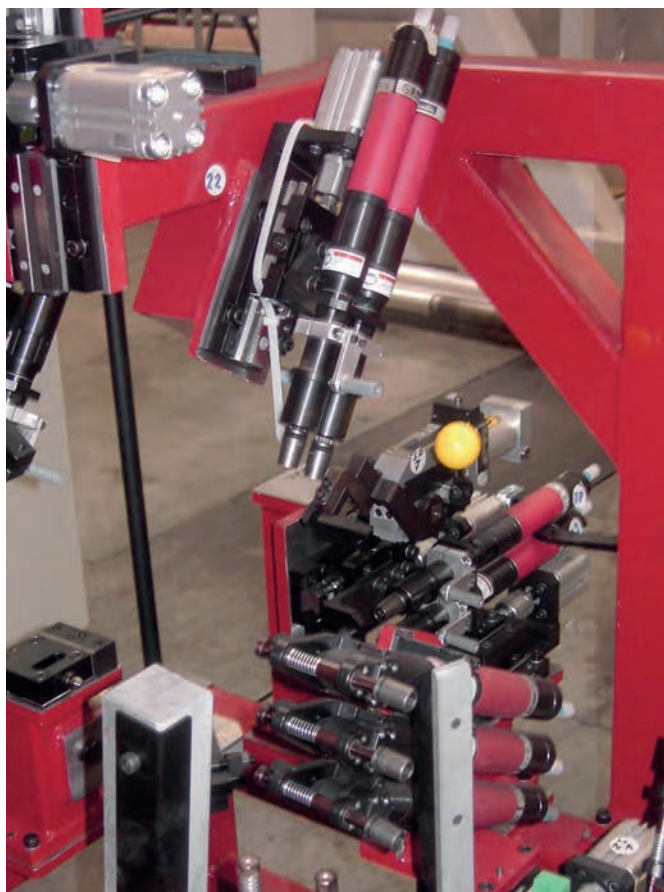
CRITERIA

- 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



FASTENER TORQUE VALUES

MACHINE SCREWS						THREAD FORMING/ ROLLING SCREWS
ISO	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	–

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

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



Productivity and Ergonomics

ACCESS



90° Angle Heads



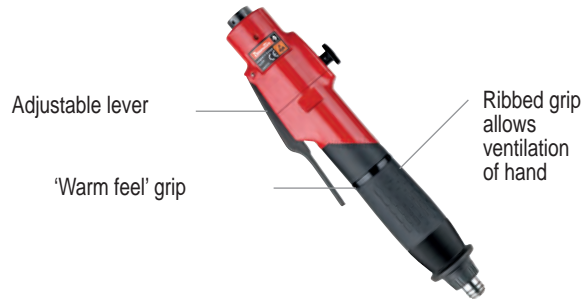
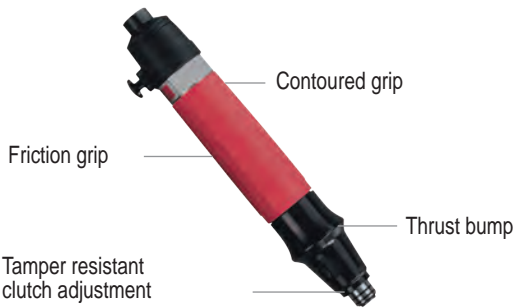
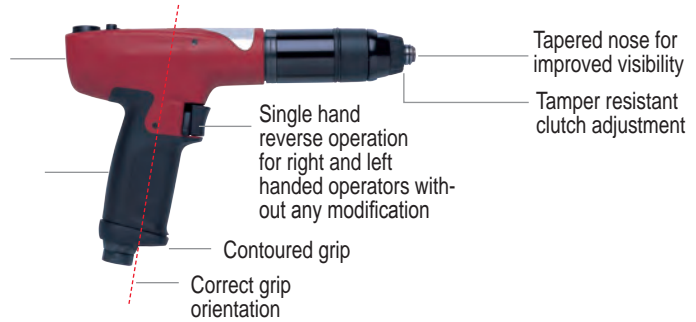
Crowfoot
Open Ended Wrenches

ERGONOMIC BENEFITS

- Lightweight
- Short Length
- Light Start Load

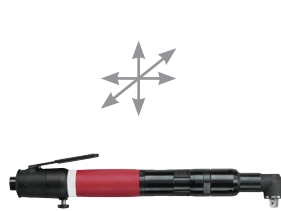
Pistol options of 'P' or 'T' style to suit the application and operator preference

'Warm feel' friction grip



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)

Modularity

SD SERIES



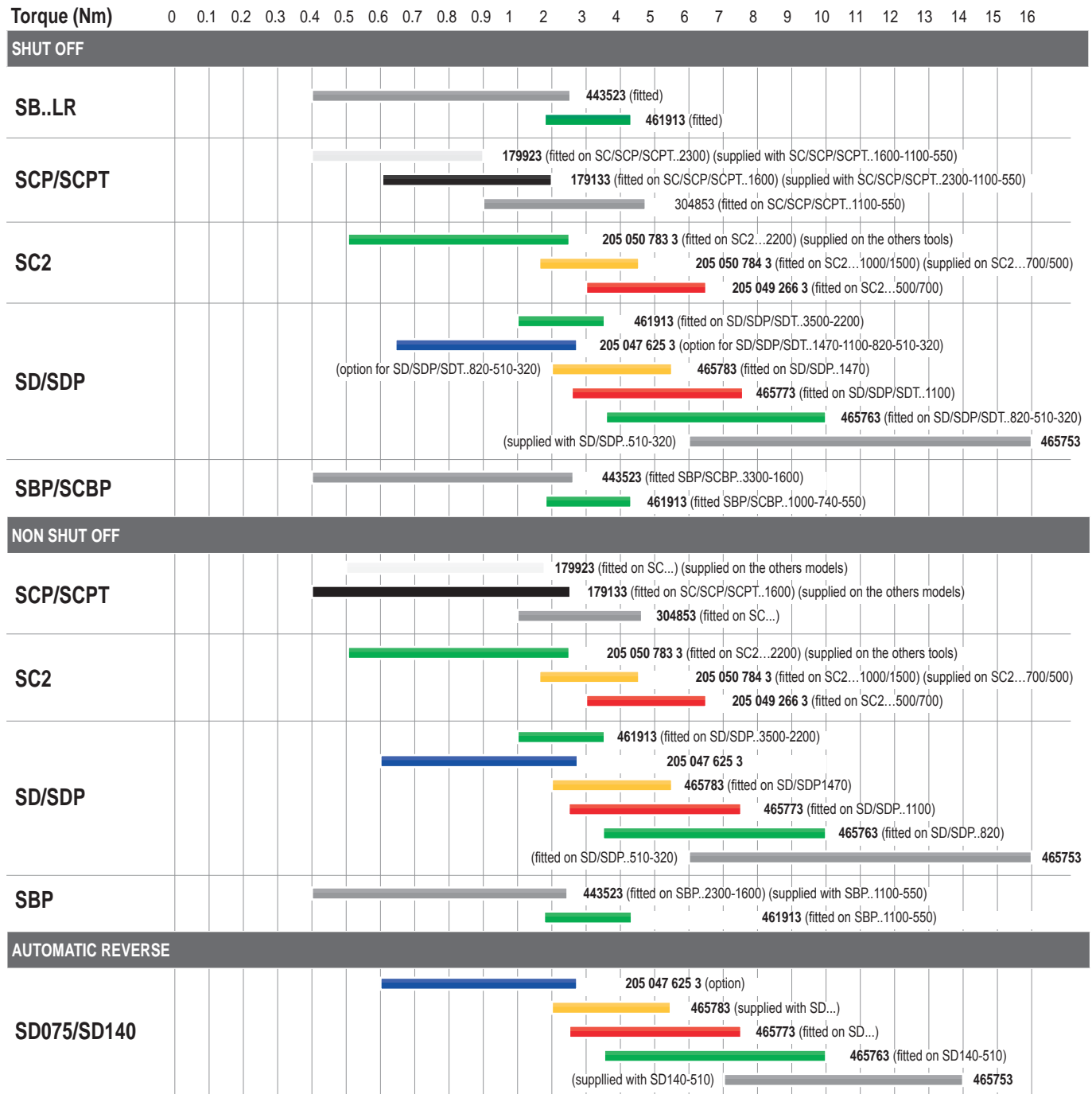
Modularity, a concept for all Desoutter pneumatic screwdrivers range

Screwdriver Torque Ranges

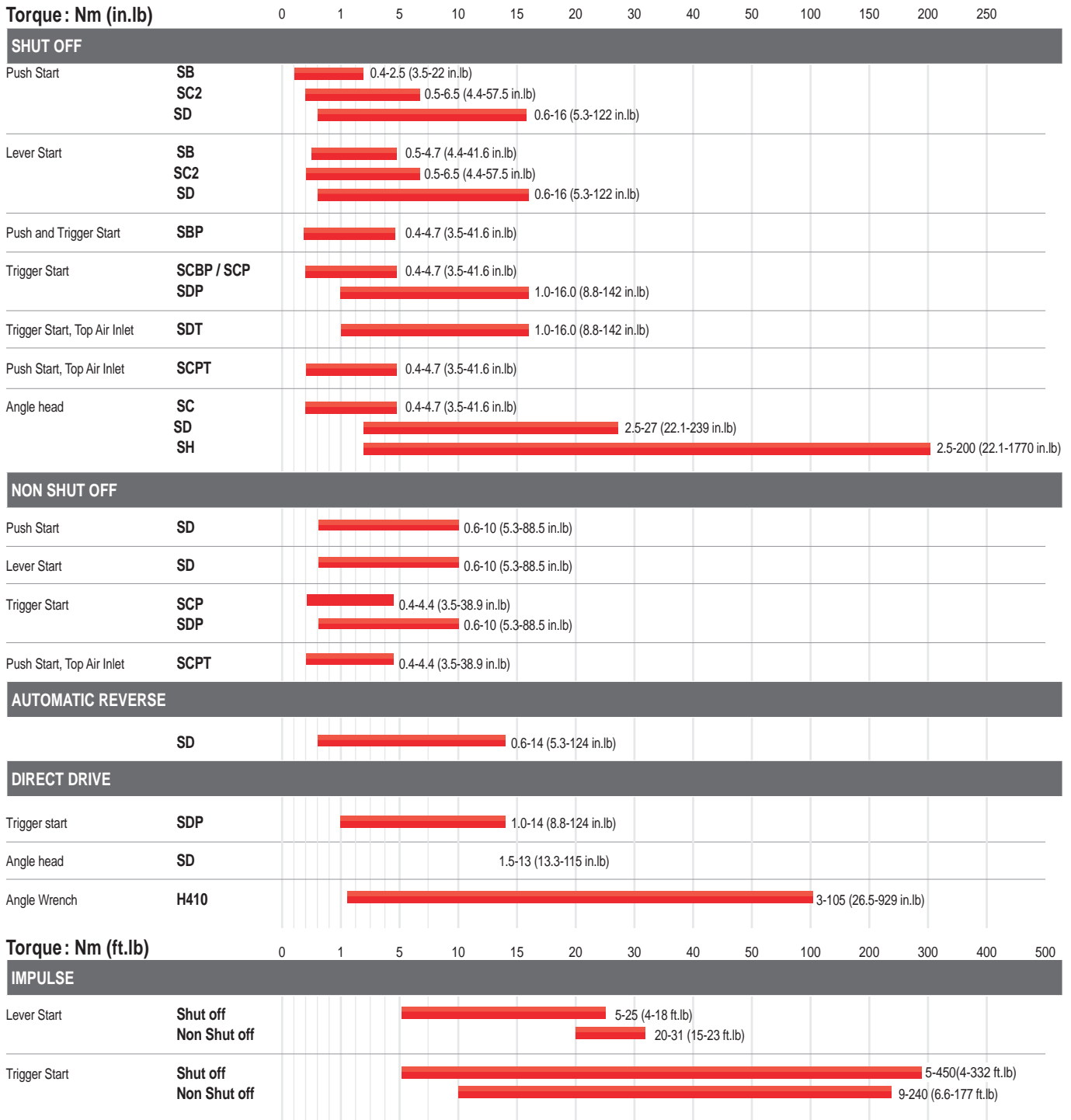
Torque output of the range of shut off and non shut off screwdrivers is controlled by the type of spring in the clutch assembly.

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

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



Tool Types and Torque Ranges



Screwdrivers - Shut off - Push start

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



Model	ø A mm (in.)	ø B mm (in.)	L mm (in.)
SB..	32 (1.26)	36 (1.42)	197 (7.76)
SC2		37.4 (1.47)	245 (9.65)
SD023..3500	38.7 (1.52)	44 (1.73)	227 (8)
SD035..2200	38.7 (1.52)	44 (1.73)	227 (8)
SD055..1470	38.7 (1.52)	44 (1.73)	253 (10)
SD075..1100	38.7 (1.52)	44 (1.73)	253 (10)
SD100..820	38.7 (1.52)	44 (1.73)	253 (10)
SD140..510	38.7 (1.52)	44 (1.73)	253 (10)
SD160..320	38.7 (1.52)	44 (1.73)	253 (10)



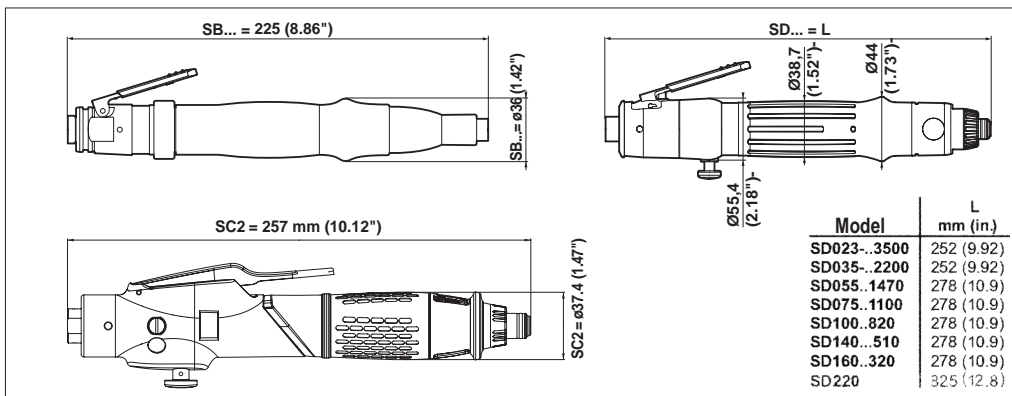
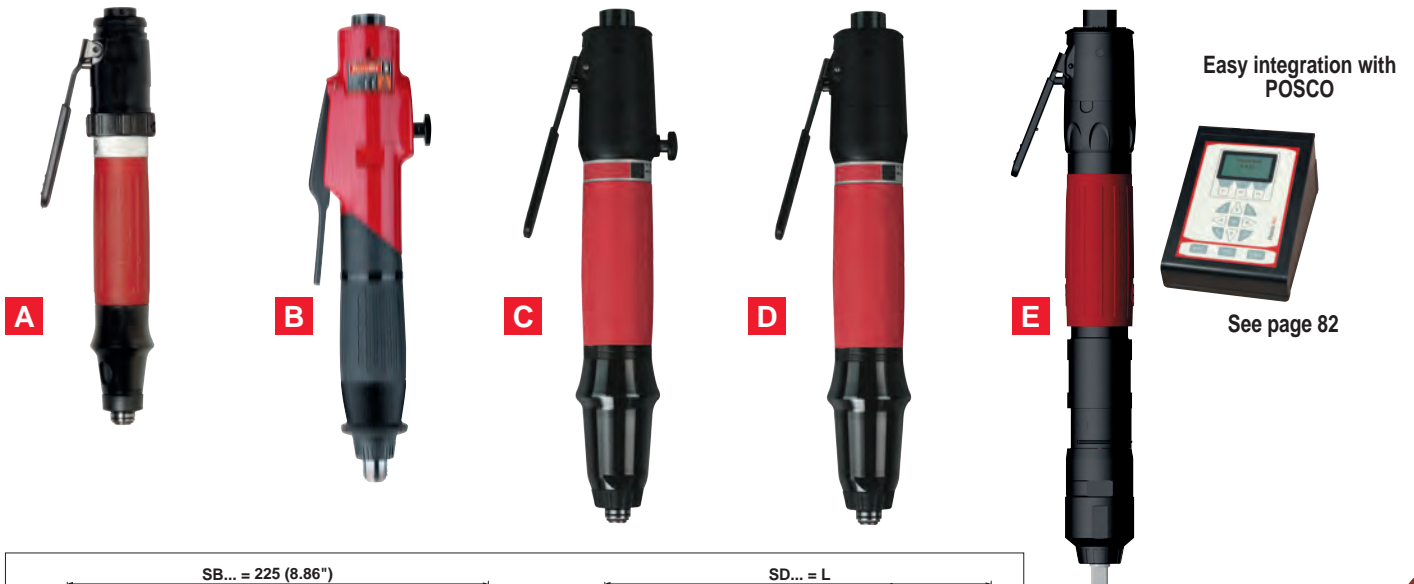
ACCESSORIES
see page 130

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

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.	nm	in.	
A	SB011-AB1600-S4Q	1460644	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16	
A	SB015-AB1100-S4Q	1460634	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16	
A	SB025-AB750-S4Q	1460624	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
A	SB025-AB500-S4Q	1460684	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB011-AR1600-S4Q	1460524	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB015-AR1100-S4Q	1460514	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB025-AR750-S4Q	1460504	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB025-AR500-S4Q	1460564	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
C	SC2-025-A2200-S4Q	205 147 269 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4	
C	SC2-035-A1500-S4Q	205 147 268 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4	
C	SC2-045-A1000-S4Q	205 147 267 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
C	SC2-055-A700-S4Q	205 147 266 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4	
C	SC2-065-A500-S4Q	205 147 265 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SD035-AB2200-S4Q	1462824	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10	3/8	
D	SD055-AB1470-S4Q	1462814	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
D	SD075-AB1100-S4Q	1462804	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.0-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
D	SD100-AB820-S4Q	1462794	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
D	SD140-AB510-S4Q	1462784	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
D	SD160-AB320-S4Q	1462774	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD055-AR1470-S4Q	1462744	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD075-AR1100-S4Q	1462734	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD100-AR820-S4Q	1462724	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD140-AR510-S4Q	1462714	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD160-AR320-S4Q	1462704	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	

Screwdrivers - Shut off - Lever start

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



ACCESSORIES see page 130

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.	
A	SB043-LR1050-S4Q	205 147 507 4	1050	1/4 Hex	0.4-4.3	3.5-38	1.9-4.3	16.7-37.8	0.61	1.34	7.3	15.5	1/8	6	1/4	
A	SB047-LR500-S4Q	205 147 506 4	500	1/4 Hex	0.4-4.7	3.5-41.6	1.9-4.7	16.7-41.4	0.61	1.34	7.3	15.5	1/8	6	1/4	
B	SC2-025-L2200-S4Q	205 147 283 4	2200	1/4 Hex	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4	
B	SC2-035-L1500-S4Q	205 147 282 4	1450	1/4 Hex	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4	
B	SC2-045-L1000-S4Q	205 147 281 4	1000	1/4 Hex	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
B	SC2-055-L700-S4Q	205 147 280 4	700	1/4 Hex	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4	
B	SC2-065-L500-S4Q	205 147 279 4	480	1/4 Hex	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4	
C	SD055-LB1470-S4Q	1463 074	1470	1/4 Hex	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8	
C	SD075-LB1100-S4Q	1463 064	1100	1/4 Hex	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8	
C	SD100-LB820-S4Q	1463 054	820	1/4 Hex	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
C	SD140-LB510-S4Q	1463 044	510	1/4 Hex	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
C	SD160-LB320-S4Q	1463 034	320	1/4 Hex	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
D	SD023-LR3500-S4Q	1463 024	3500	1/4 Hex	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8	
D	SD055-LR1470-S4Q	1463 004	1470	1/4 Hex	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8	
D	SD075-LR1100-S4Q	1462 994	1100	1/4 Hex	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8	
D	SD100-LR820-S4Q	1462 984	820	1/4 Hex	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
D	SD140-LR510-S4Q	1462 974	510	1/4 Hex	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
D	SD160-LR320-S4Q	1462 964	320	1/4 Hex	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
E	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	1/4	10	3/8	
E	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	1/4	10	3/8	

Screwdrivers - Shut off - Pistol grip

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



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

 **ACCESSORIES**
voir page 130

Types D and E, Top air inlet

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

PUSH AND TRIGGER START

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

TRIGGER START

A	SCBP043-T1100-S4Q	1466354	1100	1/4	0.4-4.3	3.5-38	1.8-4.3	15.9-38	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP044-T740-S4Q	1466344	740	1/4	0.4-4.4	3.5-39	1.8-4.4	15.9-39	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP047-T550-S4Q	1466334	550	1/4	0.4-4.7	3.5-41.6	1.8-4.7	15.9-41.6	0.82	1.81	6.5	13.8	1/8	6	1/4
B	SCP021-T1600-S4Q	1456744	1600	1/4	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP043-T1100-S4Q	1456754	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP047-T550-S4Q	1456764	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4
C	SDP035-T2100-S4Q	1465564	2100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.9	1.98	9.0	19.1	1/4	10	3/8
C	SDP055-T1400-S4Q	1465554	1400	1/4	1.0-5.5	8.9-48.7	1.0-5.5	8.9-48.7	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP075-T1050-S4Q	1465544	1050	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T780-S4Q	1465534	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP140-T490-S4Q	1465524	490	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP160-T300-S4Q	1465514	300	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP045-T180-S4Q	205 146 706 4	180	1/4	1.5-4.5	13.3-39.8	1.5-4.5	13.3-39.8	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT035-T1100-S4Q	205 147 623 4	1100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT035-T2200-S4Q	1465774	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT055-T1470-S4Q	1465764	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT075-T1100-S4Q	1465754	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T820-S4Q	1465744	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT140-T510-S4Q	1465734	510	1/4	3.5-14	31.0-124	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT160-T320-S4Q	1465724	320	1/4	3.5-16	31.0-142	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8

PUSH START, TOP AIR INLET

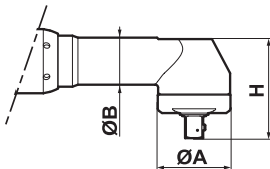
E	SCPT021-A2300-S4Q	1458974	2300	1/4	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT043-A1100-S4Q	1458894	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38.0	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT047-A550-S4Q	1458854	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4

SH range - Angle head - Shut off

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



Option:
Reaction bar for SH850/1200/2000



PRODUCTIVITY

- High speed with joint stiffness capability

QUALITY

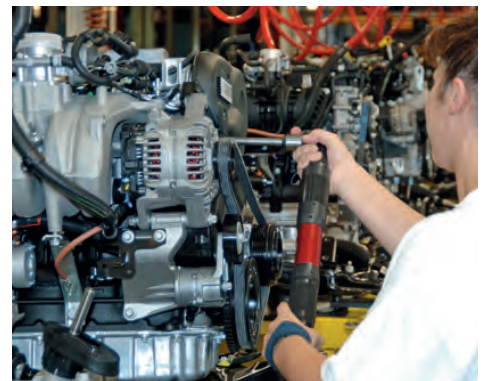
- High accuracy with immediate shut off
- Improve your process quality with FAS3000

ERGONOMY

- Low reaction force on hard joint

DURABILITY

- Low frequency maintenance
- Quick service time



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



ACCESSORIES
see page 132

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

Angle Head - Shut off

0.4 to 27 Nm (3.5 to 239 in.lb) - 170 to 2200 rpm



ACCESSORIES
see page 132

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	SC043-L950-S90A4S	1459134	950	1/4 sq	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC047-L500-S90A4S	1459124	500	1/4 sq	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC043-L950-S90A4H	1459054	950	1/4 hex	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC047-L500-S90A4H	1459044	500	1/4 hex	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
C	SD072-LB1080-S90-A10S	1463504	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD095-LB800-S90-A10S	1463494	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD130-LB600-S90-A10S	1463484	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD209-LB370-S90-A10S	1463474	370	3/8 sq	11-19	97.3-168	6-19	53.1-168	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
C	SD300-LB250-S90-A10S	1463464	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
C	SD072-LR1080-S90-A10S	1463554	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD095-LR800-S90-A10S	1463544	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD130-LR600-S90-A10S	1463534	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD209-LR370-S90-A10S	1463524	370	3/8 sq	11-19	97.3-168	6-19	53.1-168	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
C	SD300-LR250-S90-A10S	1463514	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
C	SD300-LR180-S90-A10S	205 146 704 4	180	3/8 sq	11-27	97.3-239	11-27	97.3-239	375	14.8	1.50	3.30	8.7	18.4	1/4	10	3/8

TWO WAY

Screwdrivers - Non Shut off - Push and Lever start

0.6 to 10 Nm (5.3 to 88.5 in.lb) - 510 to 3500 rpm



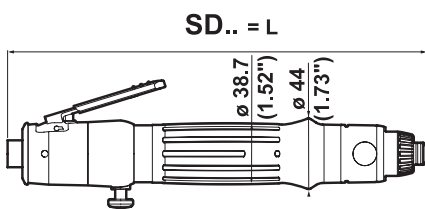
A



B



C



Model	L mm (in.)
SD023..3500	252 (9.92)
SD035..2200	252 (9.92)
SD055..1470	278 (10.9)
SD075..1100	278 (10.9)
SD100..820	278 (10.9)
SD100..510	278 (10.9)



ACCESSORIES
see page 130

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
PUSH START															
A	SD035-AB2200-R4Q	1462944	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8
A	SD055-AB1470-R4Q	1462934	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
A	SD075-AB1100-R4Q	1462924	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
LEVER START															
B	SD055-LB1470-R4Q	1463194	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
B	SD075-LB1100-R4Q	1463184	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
B	SD100-LB820-R4Q	1463174	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
B	SD100-LB510-R4Q	1463164	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD023-LR3500-R4Q	1463154	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8

Screwdrivers - Non Shut Off - Pistol Grip

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



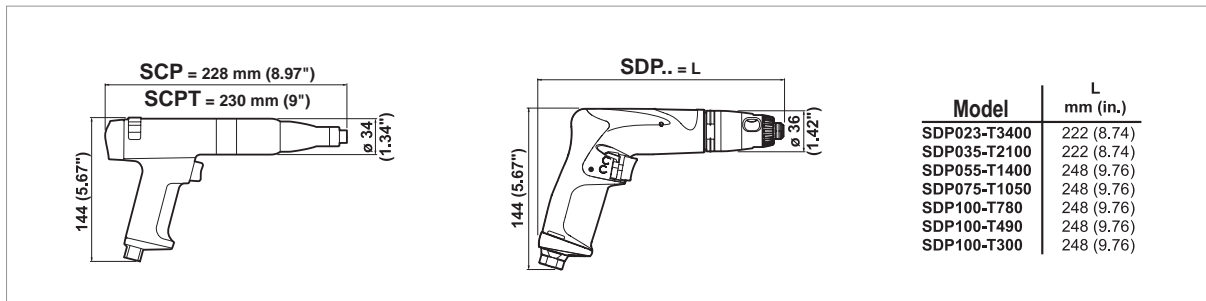
A



B



C



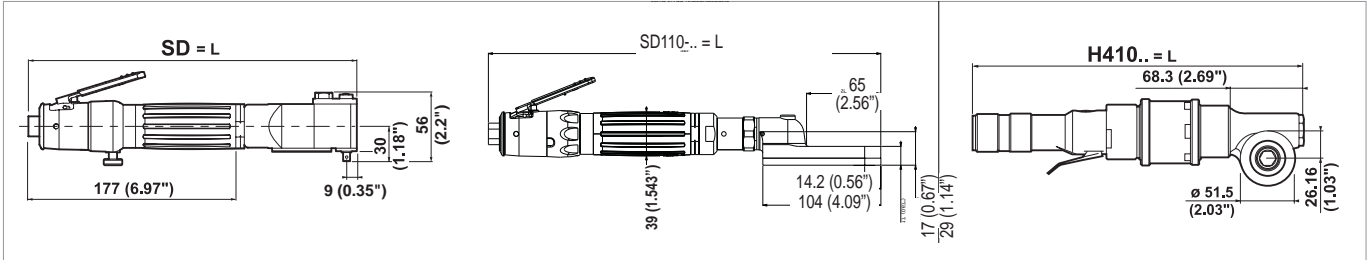
ACCESSORIES
see page 130

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm		mm	in.
TRIGGER START															
A	SCP044-T1100-R4Q	1456794	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
A	SCP044-T550-R4Q	1456804	550	1/4	0.4-4.4	3.5-38.9	1.0-4.4	8.9-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SDP035-T2100-R4Q	1465634	2100	1/4	1.0-3.5	8.8-31.0	1.0-3.5	8.9-31.0	0.90	1.98	9.0	19.1	1/4	10	3/8
B	SDP055-T1400-R4Q	1465624	1400	1/4	1.0-5.5	8.8-48.6	1.0-5.5	8.9-48.6	1.00	2.20	9.0	19.1	1/4	10	3/8
B	SDP075-T1050-R4Q	1465614	1050	1/4	0.6-7.5	5.3-66.3	2.5-7.5	22.1-66.3	1.00	2.20	9.0	19.1	1/4	10	3/8
B	SDP100-T780-R4Q	1465604	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
B	SDP100-T490-R4Q	1465594	490	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
B	SDP100-T300-R4Q	1465584	300	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
PUSH START, TOP AIR INLET															
C	SCPT022-A1600-R4Q	1458954	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4



Angle Head - Direct drive

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



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



ACCESSORIES
see page 132

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

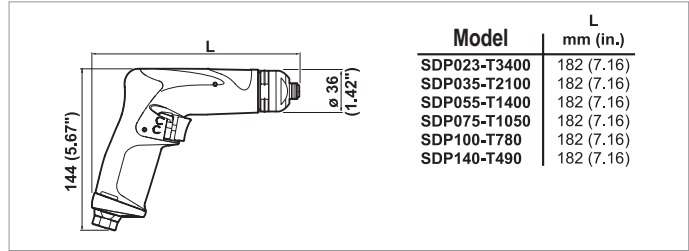
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		LENGTH L		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.	
A	SD130-LB500-D90-A4S	1465974	500	1/4 sq	2-13	17.7-115	326	12.8	1.08	2.38	8.7	18.4	1/4	10	3/8	
A	SD096-LB800-D90-A4S	1465984	800	1/4 sq	1.5-9.6	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	

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 131

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	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 - Left hand tightening - Shut off Push start Automatic reverse

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

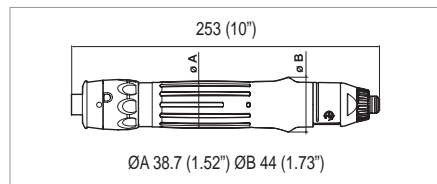
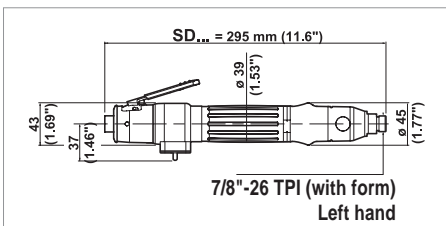


A

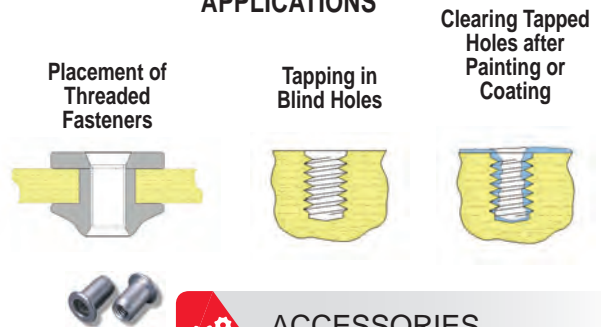


B

Tool shown with optional clutch HSG and bit adaptor



APPLICATIONS



ACCESSORIES
see page 130

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SD160L-AR320-S4Q	205 147 799 4	320	1/4	0.6-16	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

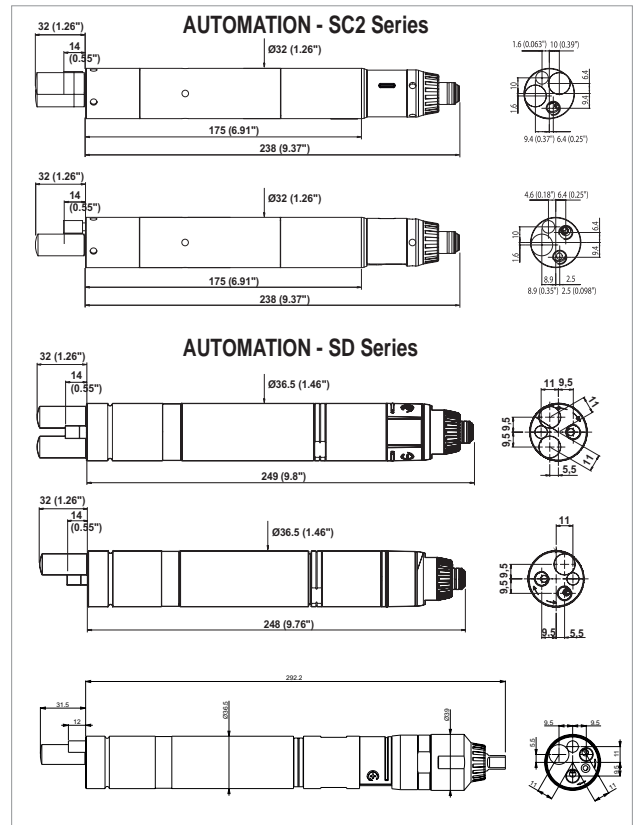
Torque Controlled - Shut Off

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



Signal

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



ACCESSORIES
see page 133

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.	

AUTOMATION - PUSH START - SHUT OFF - 1 WAY

A	SC2-025-1AM2200-S4Q	205 147 426 4	2150	1/4 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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

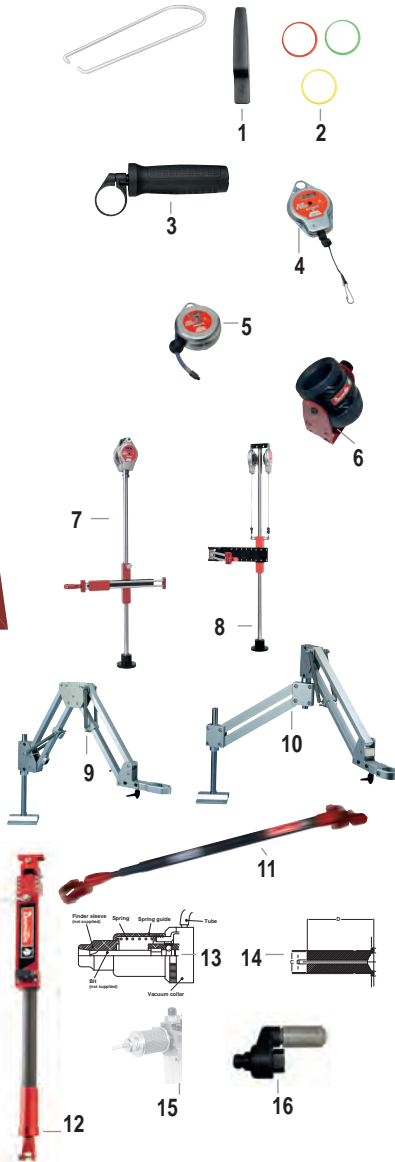
AUTOMATION - PUSH START - SHUT OFF - 1 WAY

C	SD035-1AM2200-S4Q	1464244	2200	1/4 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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	SD035-2RM2200-S4Q	1464314	2200	1/4 Hex	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 Hex	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 Hex	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 Hex	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 Hex	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 Hex	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
E	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	
E	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	

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 153-163)

7 D53-25 Linear arm (tool clamp included)	615 810 702 0	615 810 702 0	615 810 702 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

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 172-173)			
4 D59 Pantographic arm	408933	408933	408933
Miscellaneous			
5 Side handle	70442	70442	467033



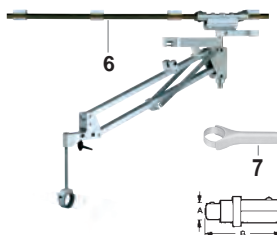
DIRECT DRIVE

ACCESSORIES INCLUDED

	SDP	SD	H410
• Suspension bail(s)	473153	467003	70042
• 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 172-173)			
6 D59 Pantographic arm	408933		
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



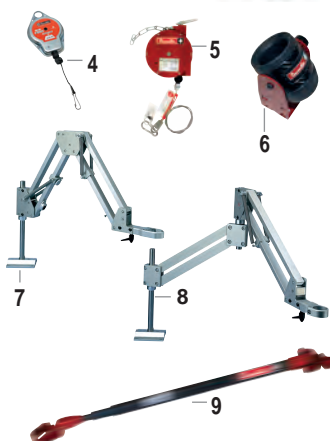
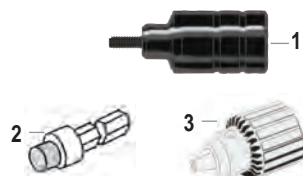
AUTO REVERSE

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	615 813 078 0
6 Tool holster DTH-42	107892
Bench Stands (for more information, see pages 172-173)	
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 178)



* 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 153-163)

6	D53-25 Linear arm (tool clamp included)	615 810 702 0	615 810 702 0	615 810 702 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 172-173)

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
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
---	--------------------	-------

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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TORQUE CONTROLLED

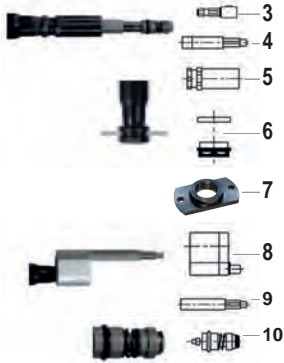
ACCESSORIES INCLUDED

ITEM		SC2 / 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



Pulse Tools - Non Shut off and Shut Off range

5 to 172 Nm (3.6 to 127 ft.lb) - 3400 to 6700 rpm



A



B



C



D

Air inlet: All models 1/4" R

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

NON SHUT OFF

A	PTF020-T6700-I4Q	615 172 101 0	6700	1/4 Hex	9-20	6.6-14.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.0	12.7	6	1/4
A	PTF028-T6300-I4Q	615 172 102 0	6300	1/4 Hex	16-28	11.8-20.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.7	14.1	6	1/4
A	PTF035-T6700-I4Q	615 172 103 0	6700	1/4 Hex	20-35	14.7-25.8	152	6.0	22	0.87	169	6.6	0.80	1.7	7.0	14.8	10	3/8
B	PTF024-T6700-I10S	615 172 072 0	6700	3/8 Sq	16-24	11.8-17.7	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.0	12.7	6	1/4
B	PTF040-T6300-I10S	615 172 074 0	6300	3/8 Sq	20-40	14.7-29.5	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.7	14.2	10	3/8
B	PTF056-T6700-I10S	615 172 075 0	6700	3/8 Sq	28-56	20.7-41.3	151.5	5.9	22	0.87	165.7	6.5	0.83	1.8	7.0	14.8	10	3/8
B	PTF060-T6100-I10S	615 172 076 0	6100	3/8 Sq	36-60	26.5-44.2	155	6.1	24	0.94	170.0	6.7	1.02	2.2	10.0	21.2	10	3/8
B	PTF096-T4600-I13S	615 172 077 0	4600	1/2 Sq	52-96	38.3-70.8	173	6.8	27	1.06	175.0	6.9	1.45	3.2	10.8	22.9	10	3/8
B	PTF136-T5000-I13S	615 172 078 0	5000	1/2 Sq	80-136	59-100	182.5	7.2	29.5	1.16	186.5	7.3	1.80	4.0	13.3	28.2	10	3/8
B	PTF172-T3800-I13S	615 172 079 0	3800	1/2 Sq	120-172	88-127	191.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.1	10	3/8

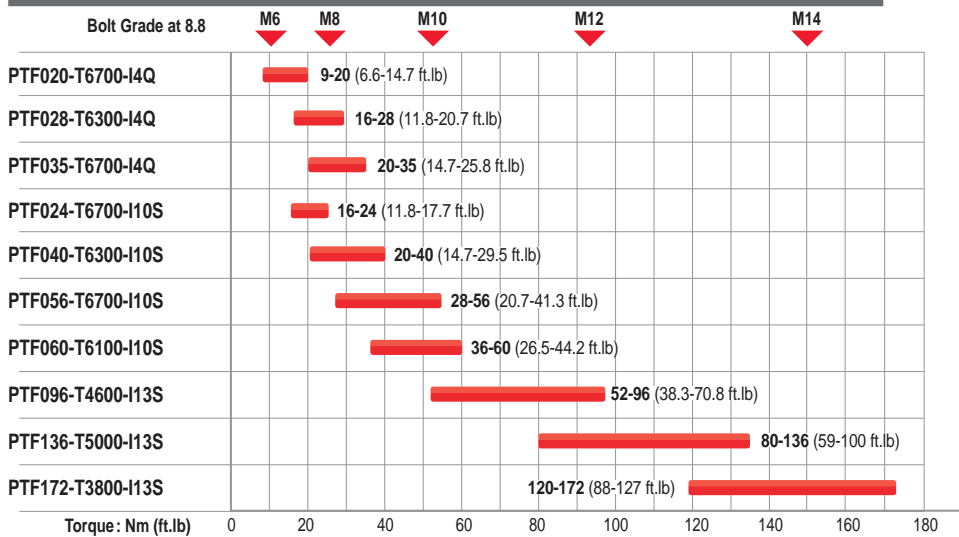
SHUT OFF

A	PTF012-T6200-S4Q	615 172 104 0	6200	1/4 Hex	5-12	3.6-8.8	181	7.1	22	0.87	169	6.6	1.00	2.2	6.7	14.1	6	1/4
A	PTF022-T6500-S4Q	615 172 105 0	6500	1/4 Hex	11-22	8.1-16.2	181	7.1	22	0.87	169	6.6	1.00	2.2	7.5	15.9	6	1/4
A	PTF028-T6300-S4Q	615 172 106 0	6300	1/4 Hex	19-28	14.0-20.5	193	7.6	22	0.87	169	6.6	1.00	2.2	9.2	19.4	10	3/8
C	PTF012-T6200-S10S	615 172 081 0	6200	3/8 Sq	5-12	3.7-8.8	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	6.7	14.1	6	1/4
C	PTF024-T6500-S10S	615 172 084 0	6500	3/8 Sq	11-24	8.1-17.7	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	7.5	15.9	10	3/8
C	PTF035-T6300-S10S	615 172 087 0	6300	3/8 Sq	22-35	16.2-25.8	192.5	5.9	22	0.87	164.3	6.5	1.00	2.2	9.2	19.4	10	3/8
D	PTF060-T6100-S10S	615 172 088 0	6100	3/8 Sq	30-55	22.1-40.6	189.5	6.1	24	0.94	169.0	6.7	1.10	2.4	10	21.1	10	3/8
D	PTF085-T4800-S13S	615 172 089 0	4800	1/2 Sq	50-85	36.9-62.7	208.5	6.8	27	1.06	175.0	6.9	1.60	3.5	11.3	24.0	10	3/8
D	PTF130-T4500-S13S	615 172 090 0	4500	1/2 Sq	70-120	51.6-88.5	217.5	7.2	29.5	1.16	186.5	7.3	1.85	4.1	13.3	18.2	10	3/8
D	PTF165-T3400-S13S	615 172 091 0	3400	1/2 Sq	110-155	81-114	227.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.0	10	3/8

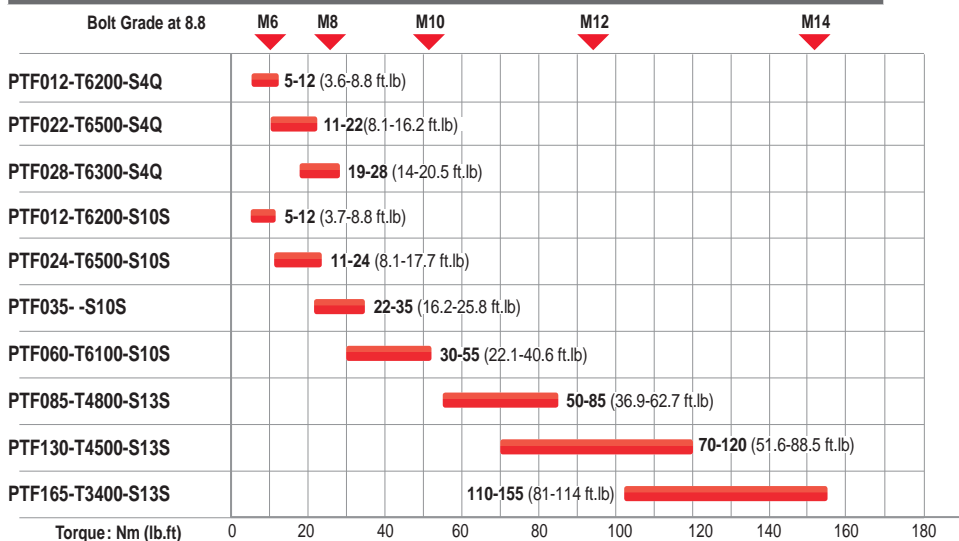
The tool is designed for a working pressure of 6.3 bar 90 PSI.

Pulse Tools - Tool Selection

NON SHUT OFF RANGE



SHUT OFF RANGE



Accessories

ACCESSORIES INCLUDED

	PART NO.
• Air Hose nipple PTF012/024/040	541 205 445 0
• Air Hose nipple (other models)	541 205 445 2
• Suspension bail	541 205 847 4
• Hex pin wrench	-

Pulse Non Shut Off

• Cover protection for PTF020/024/028/040.	541 206 045 6
• Cover protection for PTF060..	541 206 045 8
• Cover protection for PTF056/035.	541 206 045 7
• Cover protection for PTF096..	541 206 045 9
• Cover protection for PTF136..	541 206 046 0
• Cover protection for PTF172..	541 206 046 1

ACCESSORIES INCLUDED

	PART NO.
Pulse Shut Off	
• Cover protection for PTF012/022/024...	541 206 045 0
• Cover protection for PTF035...	541 206 045 1
• Cover protection for PTF060...	541 206 045 2
• Cover protection for PTF085...	541 206 045 3
• Cover protection for PTF130...	541 206 045 4
• Cover protection for PTF165...	541 206 045 5



Specific Nutrunners and Spindles



Specific nutrunners

- Flush socket
- Crowfoot (open or close ended)
- Hold and Drive
- Crowfoot Hold and Drive
- Insulated
- 2 output shafts
- With multiplier
- Quick Change

Specific spindles

- U-Shape
- Specific output shaft
- Second torque transducer

Specific reaction bars

AND MUCH MORE ON REQUEST !

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

Multiplus



Options

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

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	

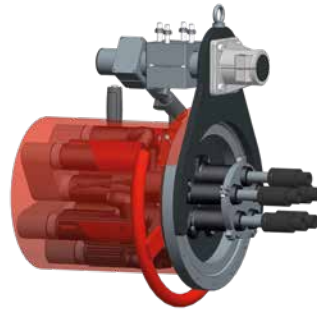
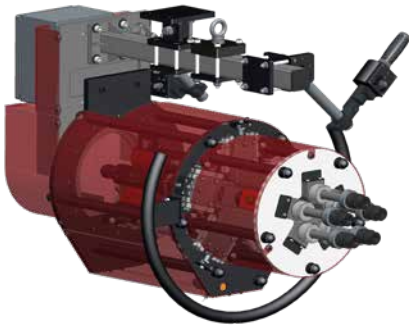
For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Customized Machine

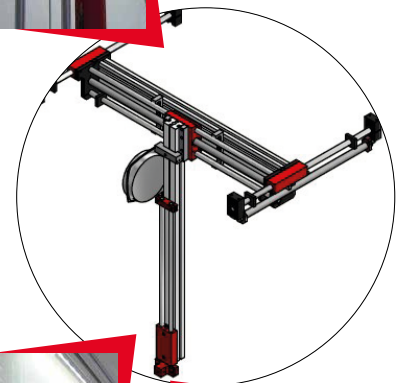
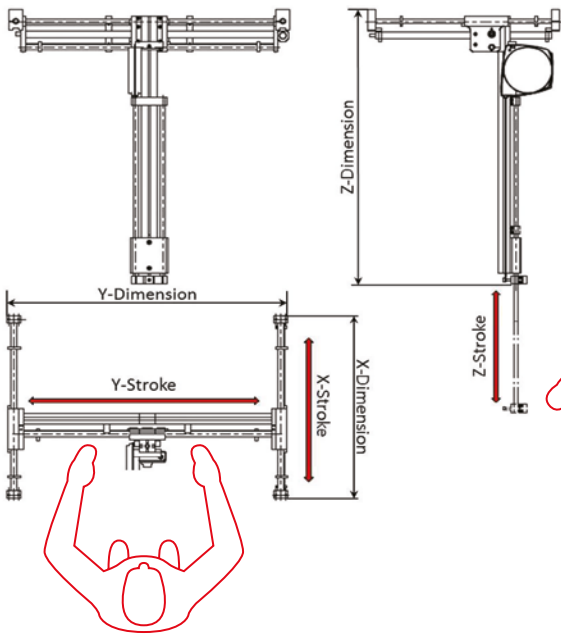
Single spindle, Multi spindles, Manual or automatic center distance adjustment



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



ROLLEX



DESCRIPTION	UNIT	TORQUE		
Maximum Torque	N.m (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)

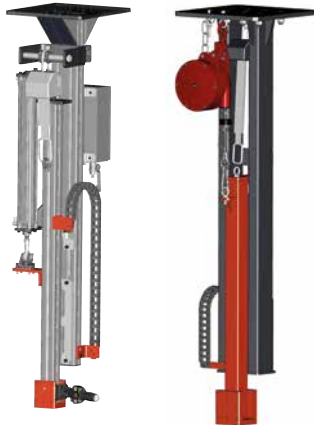
For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Arms and Torque Tubes



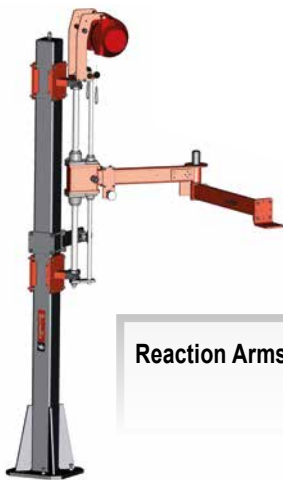
Torque Tubes

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



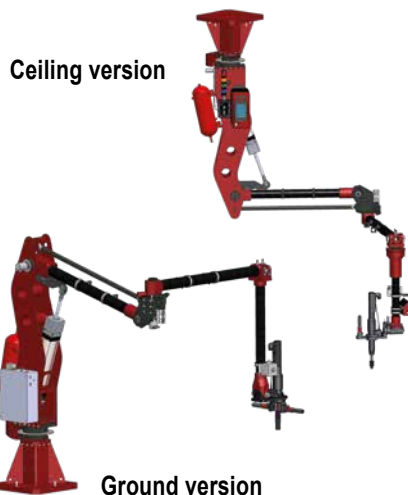
Light Torque Tubes

- Steel (250-1000 Nm) (185-737.5 ft.lb)
- Mono spindle
- Removal cover for balancer maintenance
- Integrated balancer suspension



Reaction Arms

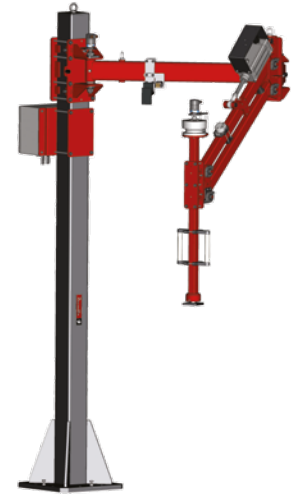
Up to 150 Nm (111 ft.lb)
Balancer suspension
Radius 1200 to 2000 mm (3.94 to 6.56 ft)



Ceiling version

Ground version

Up to 300-600 Nm (221-442 ft.lb)
Zero Gravity Carbon Arm
Easy moving manipulation
Radius 1500 to 2500 mm (4.92 to 8.20 ft)

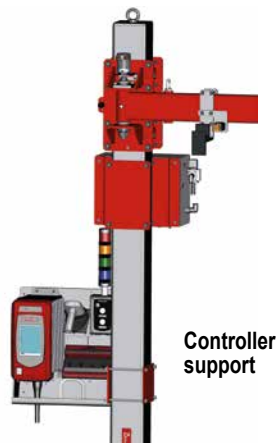


Up to 300-600-1000-2000 Nm
(221-442-737-1475 ft.lb)
Pneumatic cylinder suspension
Radius 1600 to 4000 mm (5.25 to 13.12 ft)

Options

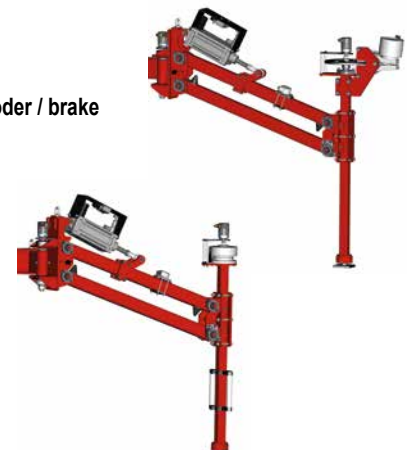
Arms options

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



Controller support

Encoder / brake

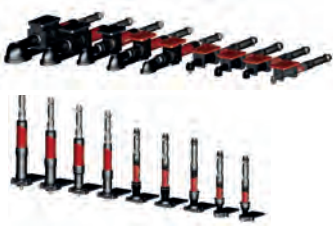


For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

Accessories and Options

Tool holders

Fixed tool holder



X-Rotating tool holder



Indexed X-Rotating tool holder



Z-Rotating tool holder



Indexed Z-Rotating tool holder



Y-Rotating tool holder



Indexed Y-Rotating tool holder



CVI3 HMI & Positioning System



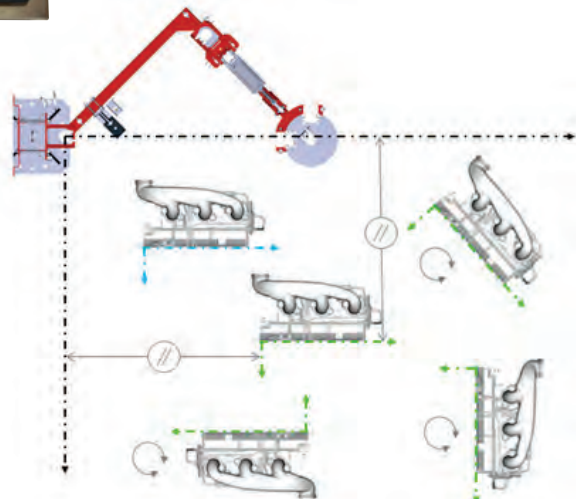
CVI3 HMI

- 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
- Multi-tool / Operator guidance working instruction management



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

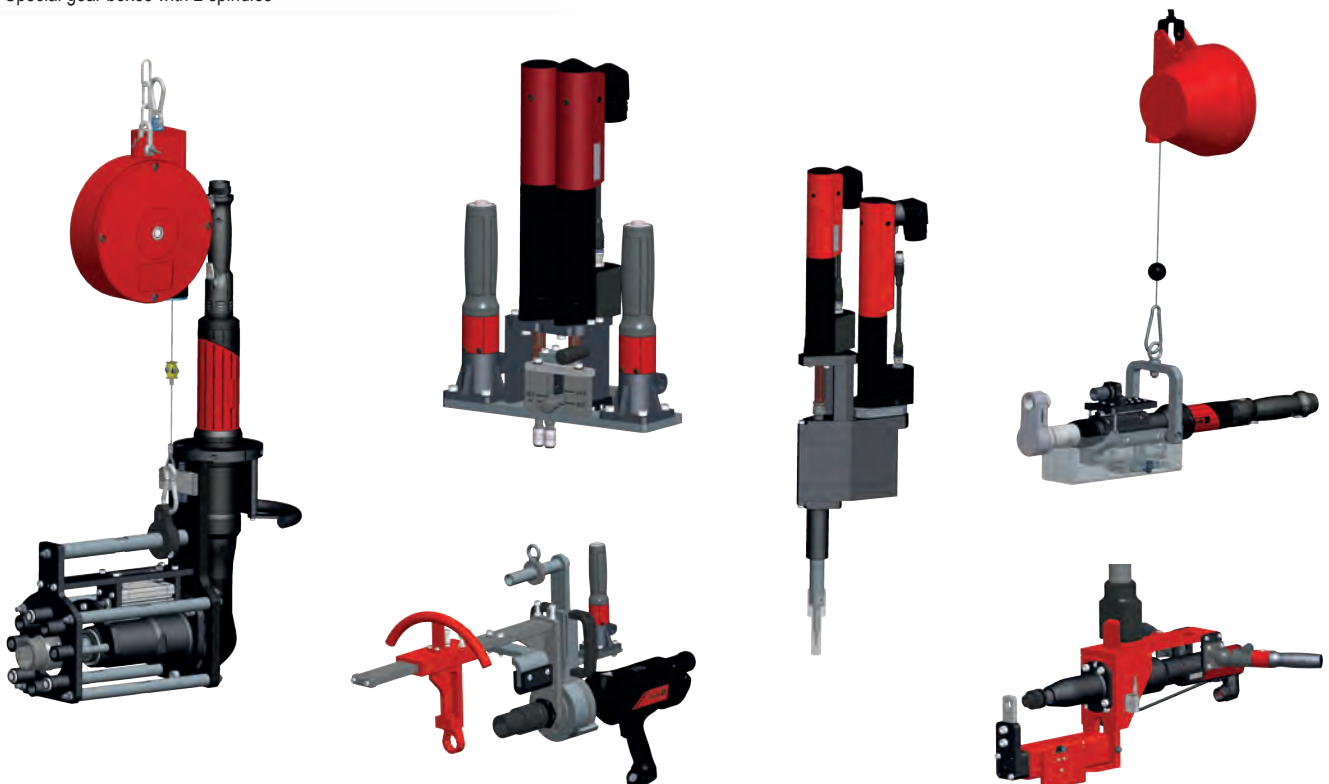
CONTROLLER STAND

- 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



SPECIAL FUNCTIONS:

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



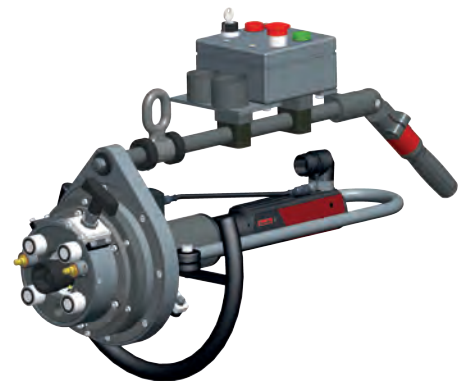
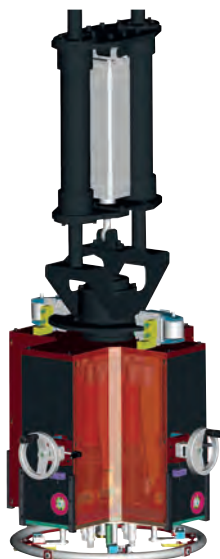
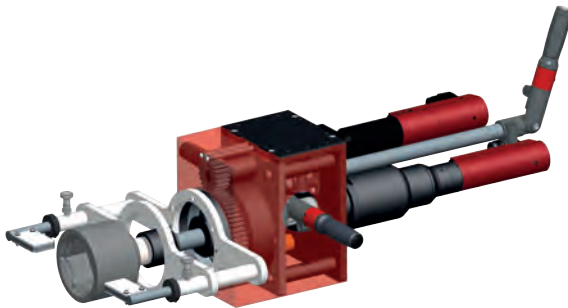
For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

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 !



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

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 78 mm	Up to 110 mm	Up to 80/180 mm	Up to 180 mm
Torque	Up to 10 Nm	Up to 15 Nm	Up to 100 Nm	Up to 100 Nm
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



CVI3 controller can control the complete screwfeeding system using CVI logix standard program"

Accessories

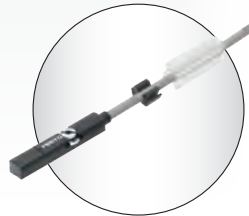
SENSORS



Screw present sensor
Screw feeding detection on hose



Home sensor
Home position detection of cylinders on SEL/SRL

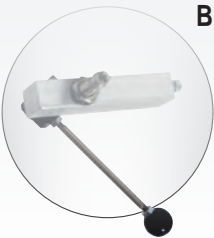


Depth sensor
Depth tightening detection when required by application



Escapement sensors
Control/Secure escapement mechanism

BOWL OPTIONS



Control level
Detect and inform when the bowl is empty



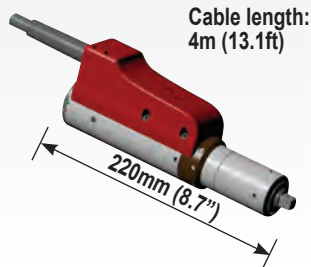
Hopper
increase your bowl capacity

LINEAR ARMS



Fixtured electric spindles ERF

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

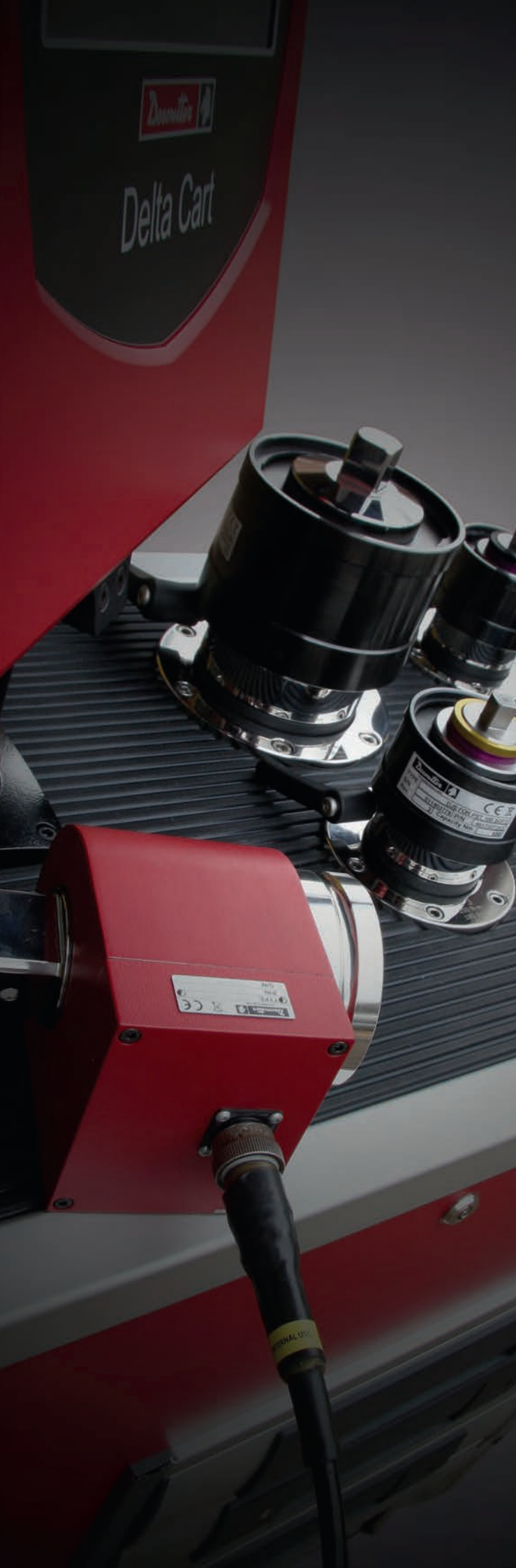


CVIL II Range

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

For further information about the technical data see pages 65

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



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



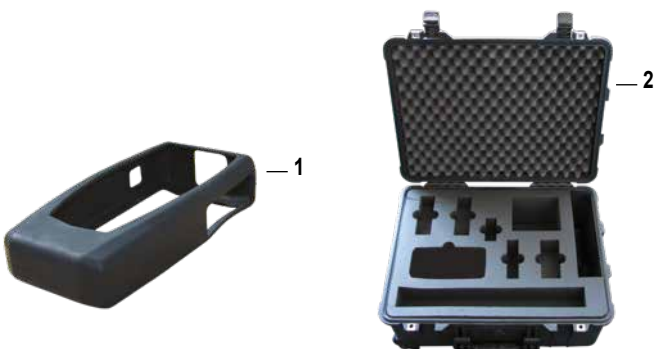
MAIN FEATURES	DELTA 1D	DELTA 6D	DELTA 7D
Transducer			
Connection to DRT4, DRT5, DST, PST	✓	✓	✓
Connection to DWT, DWTA			✓
Connection to CMD, GSE or general 19 pins analog transducer	✓	✓	✓
	Through optional analog/digital adapter		
On board functionality			
Wrench test	✓	✓	✓
Nutrunner test	✓	✓	✓
Pulse Tool test	✓	✓	✓
Tools	1	1000	1000
Pset		1000	1000
Integrated Statistic	Min, Max Avg	Cm, Cmk, SPC	Cm, Cmk, SPC
		(ISO, NF and CNOMO standards)	(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	CHARGER	DEPTH		WIDTH		HEIGHT		kg	lb
		hours	Volt	mm	in.	mm	in.	mm	in.		
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

All models are supplied with box including Battery, Power Supplier and Delta QC Free Version

ACCESSORIES INCLUDED

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



OPTIONAL ACCESSORIES

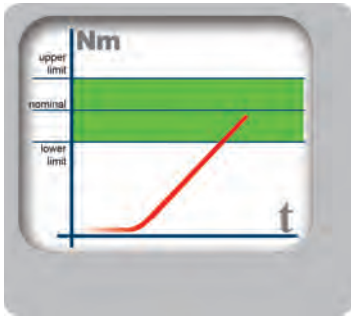
ITEM		PART NO.
1	Rubber Protection	615 936 141 0
•	CMD & ST 4000 Adapter	615 917 671 0
•	CMD 5000 Adapter	615 917 672 0
•	RS232 Adapter	615 917 670 0
•	GSE 2500 Adapter	615 917 674 0
•	GSE 8500T Adapter	615 917 675 0
•	GSE 8500T/A Adapter	615 917 676 0
•	Analog 19 pins Adapter	615 935 175 0
2	Delta Demo 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
•	Digital 10 pins Cable 2m	615 917 430 0
•	Digital 10 pins Spiral Cable 2m	615 917 432 0
•	Digital 10 pins Cable 5m	615 917 433 0

see not included Transducer cables p.137

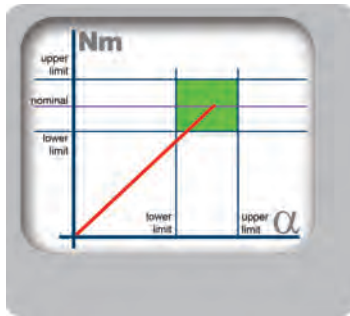
DWTA

Digital Wrench for Torque and Angle Measurement

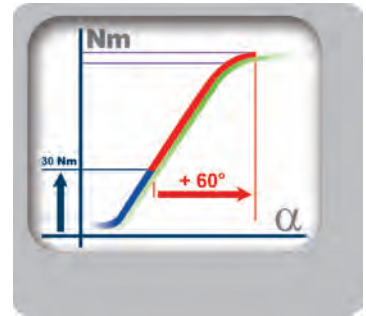
PRODUCTION AND QUALITY strategies: In combination with Delta 7D, the torque and angle wrench for residual automatic torque check and Joint analysis with Yield point detection.



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)

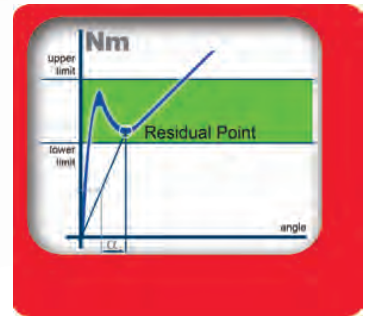


■ Military connector for standard transducer cable

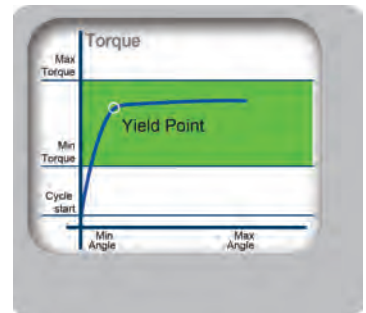


■ Delta7D

■ DWTA



Automatic Residual torque check



Joint analysis



■ 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	2.21-22.1	✓	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
DWTA 150 Short	615 165 761 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	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

no TAG feature available for DWTA



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 both torque and angle controlled joints tightening. Delta Wrench ensures perfect tightening operator independent thanks to automatic pre-defined PSet selection. It also includes residual torque measurement Quality strategies and traceability for a perfect quality audit with predefined routes.



Intelligent RFI-TAG for PSet automatic selection

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

Accuracy of +/-1% on Torque reading value (from 10 to 100% of the nominal torque)

Standard interchangeable heads and reversible ratchets



Wrench accessories see page 132

USB Port for DELTA QC free software communication for programming 200 predefined PSet or to Export result in XLS report.

Optional Wireless Communication

Ergonomic keyboard to recall the predefined PSet

A visual Backlight RGB colour display AND a complementary vibrating sensation system for an optimal operator guidance

Embedded high capacity Li-Ion battery



Optional gyroscope for angle measurement

Delta Wrench Vibrating Standalone



In order to provide a clear guidance to the operator during tightening, the vibrating wrench is configurable to give you an immediate feedback even in a loud environment of work.



MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30-AV	615 935 230 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150-AV Short	615 935 231 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	16.5	1.0	2.2
Delta Wrench 200-AV	615 935 232 0	20-200	14.75-147.5	✓	14x18	0.55x0.71	1/2	625	24.6	2	4.4
Delta Wrench 400-AV	615 935 233 0	40-400	29.5-295	✓	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 500-AV	615 935 234 0	50-500	36.88-368.8	✓	21X26	0.82X1.02	3/4	1137	44.8	5.5	12.1
Delta Wrench 800-AV	615 935 235 0	80-800	59.0-590	✓	Ø 28	Ø 1.1	1	1305	51.4	6.7	14.8

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version (Batteries supplied separately)



■ Li-Ion Battery and battery charger

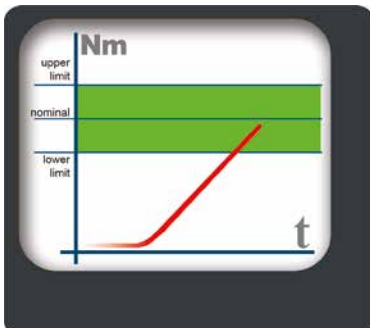


MODEL	PART NUMBER	HEIGHT		LENGTH		WIDTH		WEIGHT	
		mm	in	mm	in	mm	in	gr	lb
Delta Wrench Battery	615 936 150 0	-	-	110	4.33	Ø 22	Ø 8,86	80	0.18
Delta Wrench Battery Charger	615 936 151 0	60	2.36	140	5.51	80	3.15	240	0.53

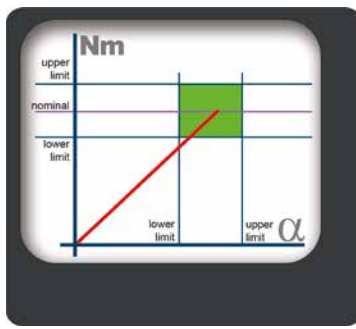
DELTAQC SOFTWARE	FREE	LICENSED	ADVANCED
PSet programming	✓	✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓
Result Database			✓

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

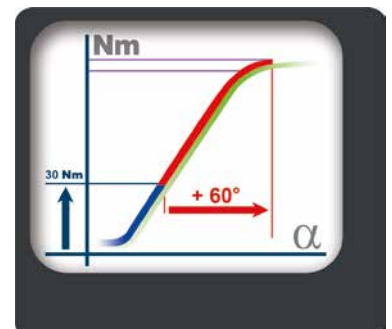


Tightening within torque limits



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

Prevailing torque automatic compensation



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 for safety & quality critical applications



Extension Application

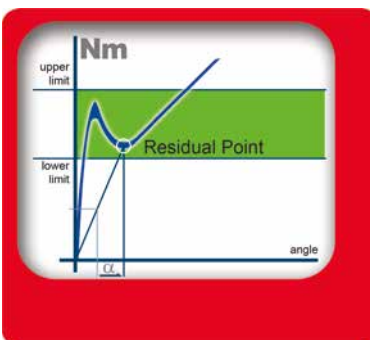
TECHNICAL SPECIFICATION

200 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 % from 15°/sec to 30°/sec.
Battery	Li-Ion Battery
Power Autonomy	up to 8h for stand alone, 5h for wireless communication 2,4GHz
USB Communication	Bi-directional communication to Delta QC Software
Results	1000 + 25 curves with Delta Licensed QC, Last 99 results are accessible directly on the wrench (FIFO) without an external PC or software
RGB Display	Red Green or Blue backlight
Extension Management	Torque and Angle bending correction
Multi-units	N•m, N•cm, Kg•cm, Kg•m, Oz•in, Lbf•in, Lbf•ft
Languages	French, English, Spanish, Italian, Deutsch, Portugese
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.

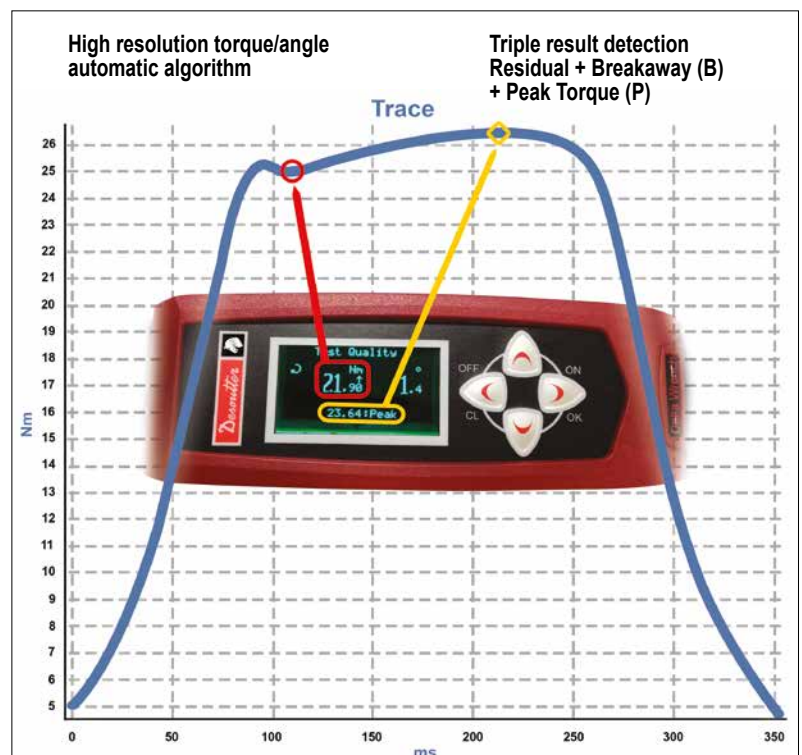


Automatic residual point detection



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

Plant Network



Customer Software Application

Access Point



Dual Band WLAN 2.4 & 5 GHz Infrastructure mode



- Remote PSet Setup & Selection
- Remote Enable/Disable Wrench
- Real Time Torque/Angle Results



Main available Command



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-AV Wlan	615 935 236 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-AV Wlan Short	615 935 237 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 200-AV Wlan	615 935 238 0	20-200	14.75 - 147.5	✓	14x18	0.55x0.71	1/2	625	24.6	2	4.4
Delta Wrench 400-AV Wlan	615 935 239 0	40-400	29.50-295.0	✓	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 500-AV Wlan	615 935 240 0	50-500	36.88-368.8	✓	21X26	0.82x1.02	3/4	1137	44.8	5.5	12.1
Delta Wrench 800-AV Wlan	615 935 241 0	80-800	59.00-590.0	✓	Ø28	Ø 1.1	1	1305	51.4	6.7	14.8
Delta Wrench 900-AV Wlan	615 935 248 0	90-900	66.38-663.8	✓	Ø28	Ø 1.1	1	1392	54.8	8.2	18.1

All models are supplied with box including reversible ratchet with TAG and Delta QC Free Version (Batteries supplied separately)

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 - H	615 811 420 5
Access Point Wifi7 802.11N - A	615 811 650 5
Access Point Power Cord UK	615 917 202 0



SOFTWARE
see page 65



FOCUS

1. Wireless communication
2. Fast to connect
3. Safe report
4. Visual feedback
5. Batch count to avoid forgotten bolts



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
 - Possibly to lock if memory full
- 4 Visual feedback**
 - Feedback directly on Wrench display
 - Wireless communication
 - Tightening OK / NOK
- 5 Buzzer feedback**



Delta Wrench ZigBee

WIRELESS SYSTEM

802-15-4 Standard



8 available outputs including:

- OK
- NOK
- Tool ready
- Tool disable
- Batch complete

4 available inputs including:

- Lock tool
- Unlock tool
- Unlock tool and reset



EASY PAIRING PROCESS



MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
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 (Batteries supplied separately)

ACCESSORIES

	PART NO.		PART NO.
• E-LIT BOX-V2	615 936 310 0	• Delta Wrench Battery	615 936 150 0
• Power supply E-LIT BOX	615 927 053 0	• Delta Wrench Battery Charger	615 936 151 0

Delta Wrench Accessories

End Fittings with embedded RFID TAG* and NO TAG



OPEN END - metric	TAG	NO TAG
Drive 9x12 Open End 7 mm	615 936 152 0	615 397 055 0
Drive 9x12 Open End 8 mm	615 936 153 0	615 397 056 0
Drive 9x12 Open End 9 mm	615 936 154 0	615 397 057 0
Drive 9x12 Open End 10 mm	615 936 155 0	615 397 058 0
Drive 9x12 Open End 11 mm	615 936 156 0	615 397 059 0
Drive 9x12 Open End 12 mm	615 936 157 0	615 397 060 0
Drive 9x12 Open End 13 mm	615 936 158 0	615 397 061 0
Drive 9x12 Open End 14 mm	615 936 159 0	615 397 062 0
Drive 9x12 Open End 15 mm	615 936 160 0	615 397 063 0
Drive 9x12 Open End 16 mm	615 936 161 0	615 397 064 0
Drive 9x12 Open End 17 mm	615 936 162 0	615 397 065 0
Drive 9x12 Open End 18 mm	615 936 163 0	615 397 066 0
Drive 9x12 Open End 19 mm	615 936 164 0	615 397 067 0
Drive 14x18 Open End 13 mm	615 936 194 0	615 397 131 0
Drive 14x18 Open End 14 mm	615 936 195 0	615 397 132 0
Drive 14x18 Open End 15 mm	615 936 196 0	615 397 133 0
Drive 14x18 Open End 16 mm	615 936 197 0	615 397 134 0
Drive 14x18 Open End 17 mm	615 936 198 0	615 397 135 0
Drive 14x18 Open End 18 mm	615 936 199 0	615 397 136 0
Drive 14x18 Open End 19 mm	615 936 200 0	615 397 137 0
Drive 14x18 Open End 21 mm	615 936 201 0	615 397 138 0
Drive 14x18 Open End 22 mm	615 936 202 0	615 397 139 0
Drive 14x18 Open End 24 mm	615 936 203 0	615 397 140 0
Drive 14x18 Open End 27 mm	615 936 204 0	615 397 141 0
Drive 14x18 Open End 30 mm	615 936 205 0	615 397 142 0
Drive 14x18 Open End 32 mm	615 936 206 0	615 397 143 0
Drive 14x18 Open End 34 mm	615 936 207 0	615 397 144 0

RING BOX END - metric	TAG	NO TAG
Drive 9x12 Ring Box End 7 mm	615 936 165 0	615 397 078 0
Drive 9x12 Ring Box End 8 mm	615 936 166 0	615 397 079 0
Drive 9x12 Ring Box End 10 mm	615 936 167 0	615 397 080 0
Drive 9x12 Ring Box End 11 mm	615 936 168 0	615 397 081 0
Drive 9x12 Ring Box End 12 mm	615 936 169 0	615 397 082 0
Drive 9x12 Ring Box End 13 mm	615 936 170 0	615 397 083 0
Drive 9x12 Ring Box End 14 mm	615 936 171 0	615 397 084 0
Drive 9x12 Ring Box End 15 mm	615 936 172 0	615 397 085 0
Drive 9x12 Ring Box End 16 mm	615 936 173 0	615 397 086 0
Drive 9x12 Ring Box End 17 mm	615 936 174 0	615 397 087 0
Drive 9x12 Ring Box End 18 mm	615 936 175 0	615 397 088 0
Drive 9x12 Ring Box End 19 mm	615 936 176 0	615 397 089 0
Drive 9x12 Ring Box End 21 mm	615 936 177 0	615 397 090 0
Drive 9x12 Ring Box End 22 mm	615 936 178 0	615 397 091 0
Drive 14x18 Ring Box End 13 mm	615 936 208 0	615 397 173 0
Drive 14x18 Ring Box End 14 mm	615 936 209 0	615 397 174 0
Drive 14x18 Ring Box End 15 mm	615 936 210 0	615 397 175 0
Drive 14x18 Ring Box End 16 mm	615 936 211 0	615 397 176 0
Drive 14x18 Ring Box End 17 mm	615 936 212 0	615 397 177 0
Drive 14x18 Ring Box End 18 mm	615 936 213 0	615 397 178 0
Drive 14x18 Ring Box End 19 mm	615 936 214 0	615 397 179 0
Drive 14x18 Ring Box End 21 mm	615 936 215 0	615 397 180 0
Drive 14x18 Ring Box End 22 mm	615 936 216 0	615 397 181 0
Drive 14x18 Ring Box End 24 mm	615 936 217 0	615 397 182 0
Drive 14x18 Ring Box End 27 mm	615 936 218 0	615 397 183 0
Drive 14x18 Ring Box End 30 mm	615 936 219 0	615 397 184 0
Drive 14x18 Ring Box End 32 mm	615 936 220 0	615 397 185 0
Drive 14x18 Ring Box End 34 mm	615 936 221 0	615 397 186 0
Drive 14x18 Ring Box End 36 mm	615 936 222 0	615 397 187 0
Drive 14x18 Ring Box End 41 mm	615 936 223 0	615 397 188 0



FLARED END - metric	TAG	NO TAG
Drive 9x12 Flared End 10 mm	615 936 179 0	615 397 103 0
Drive 9x12 Flared End 11 mm	615 936 180 0	615 397 104 0
Drive 9x12 Flared End 12 mm	615 936 181 0	615 397 105 0
Drive 9x12 Flared End 13 mm	615 936 182 0	615 397 106 0
Drive 9x12 Flared End 14 mm	615 936 183 0	615 397 107 0
Drive 9x12 Flared End 16 mm	615 936 184 0	615 397 108 0
Drive 9x12 Flared End 17 mm	615 936 185 0	615 397 109 0
Drive 9x12 Flared End 18 mm	615 936 186 0	615 397 110 0
Drive 9x12 Flared End 19 mm	615 936 187 0	615 397 111 0
Drive 9x12 Flared End 21 mm	615 936 188 0	615 397 112 0
Drive 9x12 Flared End 22 mm	615 936 189 0	615 397 113 0
Drive 9x12 Flared End 24 mm	615 936 190 0	615 397 114 0

BLANK END	TAG	NO TAG
Drive 9x12 Blank End	615 936 228 0	615 397 130 0
Drive 14x18 Blank End	615 936 226 0	615 397 203 0
Drive 21x26 Blank End	615 936 444 0	615 936 443 0



Delta Wrench Accessories

End Fittings with embedded RFID TAG* and NO TAG



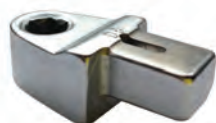
OPEN END - inches	TAG	NO TAG
Drive 9x12 Open End 1/4"	615 936 229 0	615 397 069 0
Drive 9x12 Open End 5/16"	615 936 230 0	615 397 070 0
Drive 9x12 Open End 3/8"	615 936 231 0	615 397 071 0
Drive 9x12 Open End 7/16"	615 936 232 0	615 397 072 0
Drive 9x12 Open End 1/2"	615 936 233 0	615 397 073 0
Drive 9x12 Open End 9/16"	615 936 234 0	615 397 074 0
Drive 9x12 Open End 5/8"	615 936 235 0	615 397 075 0
Drive 9x12 Open End 11/16"	615 936 236 0	615 397 076 0
Drive 9x12 Open End 3/4"	615 936 237 0	615 397 077 0
Drive 14x18 Open End 7/16"	615 221 008 0	615 397 145 0
Drive 14x18 Open End 1/2"	615 221 009 0	615 397 146 0
Drive 14x18 Open End 9/16"	615 221 010 0	615 397 147 0
Drive 14x18 Open End 5/8"	615 221 011 0	615 397 148 0
Drive 14x18 Open End 11/16"	615 221 012 0	615 397 149 0
Drive 14x18 Open End 3/4"	615 221 013 0	615 397 150 0
Drive 14x18 Open End 13/16"	615 221 014 0	615 397 151 0
Drive 14x18 Open End 7/8"	615 221 015 0	615 397 152 0
Drive 14x18 Open End 15/16"	615 221 016 0	615 397 153 0
Drive 14x18 Open End 1"	615 221 017 0	615 397 154 0
Drive 14x18 Open End 1, 1/8"	615 221 018 0	615 397 172 0

RING BOX END - inches	TAG	NO TAG
Drive 9x12 Ring Box End 1/4"	615 936 238 0	615 397 092 0
Drive 9x12 Ring Box End 5/16"	615 936 239 0	615 397 093 0
Drive 9x12 Ring Box End 3/8"	615 936 240 0	615 397 094 0
Drive 9x12 Ring Box End 7/16"	615 936 241 0	615 397 095 0
Drive 9x12 Ring Box End 1/2"	615 936 242 0	615 397 096 0
Drive 9x12 Ring Box End 9/16"	615 936 243 0	615 397 097 0
Drive 9x12 Ring Box End 5/8"	615 936 244 0	615 397 098 0
Drive 9x12 Ring Box End 11/16"	615 936 245 0	615 397 099 0
Drive 9x12 Ring Box End 3/4"	615 936 246 0	615 397 100 0
Drive 9x12 Ring Box End 13/16"	615 936 247 0	615 397 101 0
Drive 9x12 Ring Box End 7/8"	615 936 248 0	615 397 102 0
Drive 14x18 Box End 1/2"	615 221 019 0	615 397 189 0
Drive 14x18 Box End 9/16"	615 221 020 0	615 397 190 0
Drive 14x18 Box End 5/8"	615 221 021 0	615 397 191 0
Drive 14x18 Box End 11/16"	615 221 022 0	615 397 192 0
Drive 14x18 Box End 3/4"	615 221 023 0	615 397 193 0
Drive 14x18 Box End 13/16"	615 221 024 0	615 397 194 0
Drive 14x18 Box End 7/8"	615 221 025 0	615 397 195 0
Drive 14x18 Box End 15/16"	615 221 026 0	615 397 196 0
Drive 14x18 Box End 1"	615 221 027 0	615 397 197 0



FLARED END - inches	TAG	NO TAG
Drive 9x12 Flared End 3/8"	615 221 001 0	615 397 115 0
Drive 9x12 Flared End 7/16"	615 221 002 0	615 397 116 0
Drive 9x12 Flared End 1/2"	615 221 003 0	615 397 117 0
Drive 9x12 Flared End 9/16"	615 221 004 0	615 397 118 0
Drive 9x12 Flared End 5/8"	615 221 005 0	615 397 119 0
Drive 9x12 Flared End 11/16"	615 221 006 0	615 397 120 0
Drive 9x12 Flared End 3/4"	615 221 007 0	615 397 121 0

REVERSIBLE RATCHET	TAG	NO TAG
Drive 9x12 Reversible ratchet 1/4"	615 936 191 0	615 397 125 0
Drive 9x12 Reversible ratchet 3/8"	615 936 192 0	615 397 126 0
Drive 9x12 Reversible ratchet 1/2"	615 936 193 0	615 397 127 0
Drive 14x18 Reversible ratchet 1/2"	615 936 224 0	615 397 200 0
Drive 14x18 Reversible ratchet Hd 3/4"	615 936 440 0	615 936 439 0
Drive 21x26 Reversible ratchet 3/4"	615 936 442 0	615 936 441 0
Drive Ø 28 Reversible ratchet 1"	615 936 227 0	615 397 204 0



BITS HOLDER	TAG	NO TAG
Drive 9x12 Bits Holder 1/4"	615 221 028 0	615 397 128 0
Drive 9x12 Bits Holder 5/16"	615 221 029 0	615 397 129 0
Drive 14x18 Bits Holder 5/16"	615 221 030 0	615 397 202 0

FIXED SQUARE DRIVE	TAG	NO TAG
Drive 9x12 Fixed Square Drive 1/4"	-	615 397 122 0
Drive 9x12 Fixed Square Drive 3/8"	-	615 397 123 0
Drive 9x12 Fixed Square Drive 1/2"	-	615 397 124 0
Drive 14x18 Fixed Square Drive 1/2"	-	615 397 198 0
Drive 14x18 Fixed Square Drive 3/4"	-	615 397 199 0

Alpha Low Torque Analyzer

Dedicated torque analyzers for the setting and static test checks of low torque screwdrivers, either pneumatic or electric.



■ 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

DRT - Digital Rotary Transducers

Torque

The DRT4 rotary transducer series are designed to measure torque output (Only) of any non-impact assembly tool, directly on your application in dynamic mode.



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 10000 Nm (0.15 to 7375 ft.lb).
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of max. torque.
- 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	
DRT4				
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 ⅜"
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"
DRT4 Sq 10000	615 935 164 0	1000 - 10000	736.6 - 7375	Sq 1-½"

*Note: for pulse tool test - due to pulse peak overtorque - DRT max torque range is 50 % lower than nominal.

Digital Rotary Transducers & Accessories

Torque & Angle

The DRT5 series associated with a Delta 6D or Delta 7D are including an Angle measurement encoder to allow both Torque AND Angle quality controls (preferred series in case you are using Angle strategies and/or monitoring).



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 ⅜"
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"

*Note: for pulse tool test - due to pulse peak overtorque - DRT max torque range is 50 % lower than nominal.

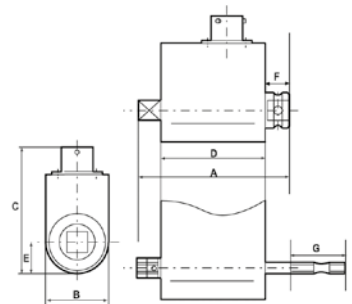


FEATURES

- Torque range from 0.2 to 5000 Nm (0.15 to 3685 ft.lb).
- Angle counting system 0.35° resolution.
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of max. torque.
- Built-in smart chip memory with calibration features: - type of transducer - sensitivity nominal load - serial number.

SAME SIZE FOR TORQUE OR TORQUE & ANGLE TRANSDUCER

OUTPUT	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		

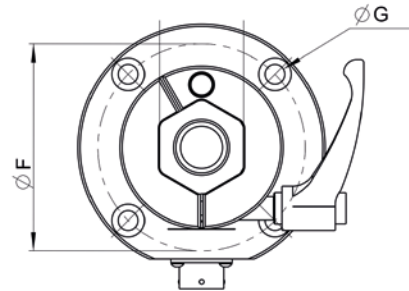
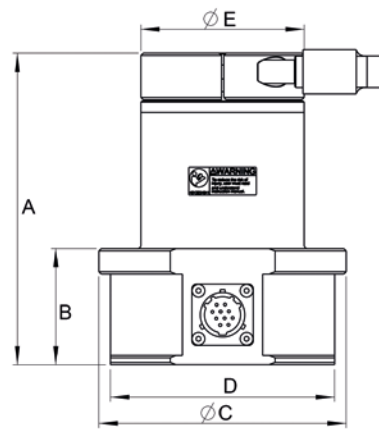
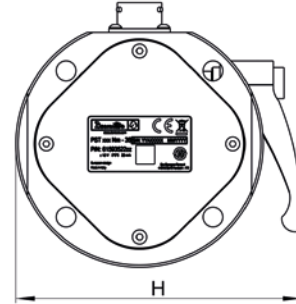


TRANSDUCER CABLES

MODEL	PART NUMBER	DESCRIPTION
2m (78.7") - 10 pins	615 917 430 0	for DRT / DST / PST - All Delta models
2m (78.7") spiral - 10 pins	615 917 432 0	for DRT / DST / PST - All Delta models
5m (196.8") - 10 pins	615 917 433 0	for DRT / DST / PST - All Delta models

PST - Pulse Static Transducer

Designed for testing hand wrenches, click wrenches, Pneumatic Pulse tools and electric nutrunners, the Pulse Static Transducer is the ideal solution to provide a periodic and static mean of control for audit at the station and will cover all your assembly tools in the production area.



(reminder: the joint simulator is required accessory in the case of a shut-off pulse or nutrunner tool test).



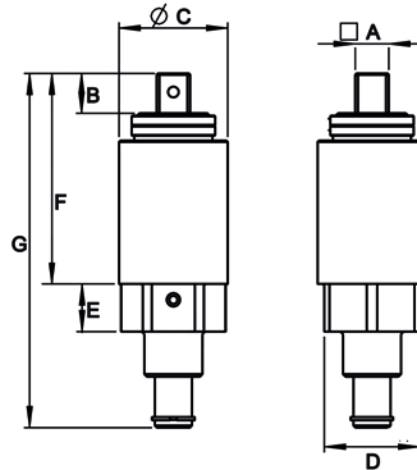
FEATURES

- Torque accuracy +/-0.35% of torque max.
- Built-in smart chip memory with calibration features:
 - type of transducer - sensitivity nominal load - serial number
- Lever to clamp the Joint simulator firmly for impulse tools
- Recommended for Pulse tools

MODEL	PART NUMBER	TORQUE RANGE		DIMENSIONS (MM)								INPUT	WEIGHT		
		Nm	ft lb	A	B	C	D	E	F	G	H		kg	lb	
PST															
PST 2 Nm - 13	615 935 220 0	0.2 - 2	0.15-1.5	83	39	80	69	45	64	4x Ø 6.5	/	Sq 1/2"	1.4	3.1	
PST 5 Nm - 13	615 935 221 0	0.5 - 5	0.37 - 3.7	83	39	80	69	45	64	4x Ø 6.5	/	Sq 1/2"	1.4	3.1	
PST 10 Nm - 13	615 935 222 0	1-10	0.74-7.4	83	39	80	69	45	64	4x Ø 6.5	/	Sq 1/2"	1.4	3.1	
PST 25 Nm - 36	615 935 223 0	2.5-25	1.8-18	134	50	106	96	70	89	4x Ø 8.5	123	Hex 36"	4	8.8	
PST 50 Nm - 36	615 935 224 0	5-50	3.7-37	134	50	106	96	70	89	4x Ø 8.5	123	Hex 36"	4	8.8	
PST 100 Nm - 36	615 935 225 0	10-100	7.4-74	134	50	106	96	70	89	4x Ø 8.5	123	Hex 36"	4	8.8	
PST 250 Nm - 36	615 935 226 0	25-250	18.4-184	134	50	106	96	70	89	4x Ø 8.5	123	Hex 36"	4	8.8	
PST 500 Nm - 50	615 935 227 0	50 - 500	36.9-369	170	50	148	136	108	125	6x Ø 8.5	180	Hex 50"	10.1	22.3	
PST 1000 Nm - 50	615 935 228 0	100-1000	73.8-738	170	50	148	136	108	125	6x Ø 8.5	180	Hex 50"	10.1	22.3	
PST 2000 Nm - 50	615 935 229 0	200-2000	147.5-1475	170	50	148	136	108	125	6x Ø 8.5	180	Hex 50"	10.1	22.3	

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 repeatable 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	COLOR	DIMENSIONS (MM)						
			A	B	C	D	E	F	G
DJS for DST and PST 2 Nm SOFT	615 165 529 0	YW – YW	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for DST and PST 2 Nm HARD	615 165 530 0	YW – BK	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for DST and PST 5 Nm SOFT	615 165 531 0	GR – YW	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for DST and PST 5 Nm HARD	615 165 571 0	GR – BK	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for PST 10 Nm SOFT	615 936 377 0	RD - YW	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for PST 10 Nm HARD	615 936 378 0	RD - BK	HEX ¼"	14	24	Sq. ½"	8	50	71,5
DJS for PST 25 Nm SOFT	615 936 379 0	RD – YW	Sq. ⅜"	11	34	Hex 36"	16,5	70	120,5
DJS for PST 25 Nm HARD	615 936 380 0	RD – BK	Sq. ⅜"	11	34	Hex 36"	16,5	70	120,5
DJS for PST 50 Nm SOFT	615 936 381 0	BL – YW	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 50 Nm HARD	615 936 382 0	BL – BK	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 100 Nm SOFT	615 936 365 0	VL – YW	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 100 Nm HARD	615 936 366 0	VL – BK	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 250 Nm SOFT	615 936 384 0	GY – YW	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 250 Nm HARD	615 936 385 0	GY – BK	Sq. ½"	15	41	Hex 36"	18	84	133,5
DJS for PST 500 Nm SOFT	615 936 369 0	BK – YW	Sq. ¾"	22	59	Hex 50"	30	141	224
DJS for PST 500 Nm HARD	615 936 370 0	BK – BK	Sq. ¾"	22	59	Hex 50"	30	141	224
DJS for PST 1000 Nm	615 936 386 0	no color	Sq. 1"	28	90	Hex 50"	30	179	273
DJS for PST 2000 Nm	615 936 393 0	no color	Sq. 1"	28	90	Hex 50"	30	179	273



MODEL	PART NO.	MODEL	PART NO.
HEX 36 M-1/2" F	615 936 399 0	HEX 50 M-1" F	615 936 433 0
HEX 50 M-1/2" F	615 936 431 0	HEX 1/4" M-1/4" F	615 936 118 0
HEX 50 M-3/4" F	615 936 432 0	HEX 1/4" M-3/8" F	615 936 119 0

Direct adapter for Non shut-off pulse tools and click wrenches (without DJS).

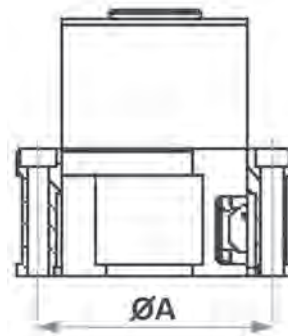
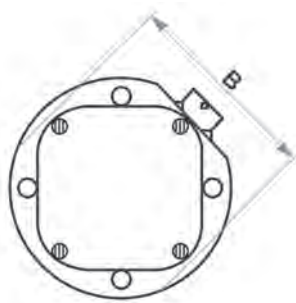
DST - Digital Static Transducers

DST Static Transducer series fit all assembly tools except impact and impulse tools. These are mainly recommended for continuous drive electric tools and hand wrenches. (reminder: for impulse tools refer to PST - Pulse Static Transducer series).

- Torque accuracy +/-0.35% of torque max.
- Built-in smart chip memory with calibration features:
 - type of transducer
 - sensitivity nominal load
 - serial number.



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	mm	in	mm	in	kg	lb
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



DJS - Digital Joint Simulator

These Joint simulators - specific to DST series - are available to reproduce the joint behavior; installing these joint simulators on a DST transducer allows you to test a tool in the same repeatable hard or soft joint working conditions.



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	615 936 137 0	2000	1475	1-1/2	1			14.1	28.8

DSA - DELTA STATIC TRANSDUCERS ACCESSORIES

(Common accessories for Joint simulators used on PST as well as for DST).

MODEL	PART NO.
3/4" M-1/4" F	615 397 205 0
3/4" M-3/8" F	615 397 206 0
1" M-1/2" F	615 397 207 0
1" 1/4 M-1/2" F	615 397 208 0
1" 1/4 M-3/4" F	615 397 209 0
1/4" F-1/4" F	615 397 210 0
3/8" F-3/8" F	615 397 211 0
1" M-3/4" F	615 936 110 0

MODEL	PART NO.
1/2" M-3/8" F	615 936 111 0
1/2" F-3/8" F	615 936 112 0
1/2" M-1/2" F	615 936 113 0
1" 1/4 M-3/4" F	615 936 114 0
1/4" F-3/8" F	615 936 115 0
1" 1/4 M-1" F	615 936 116 0
1" F-1" F	615 936 117 0

MODEL	PART NO.
HEX 1/4" M-1/4" F	615 936 118 0
HEX 1/4" M-3/8" F	615 936 119 0
1" F-3/4" F	615 936 126 0
3/4" F-1/2" F	615 936 130 0
1" 1/2 F-1" 1/2 F	615 936 131 0
1/2" F-1/2" F	615 165 573 0
3/4" F-3/4" F	615 165 576 0



Calibration Bench

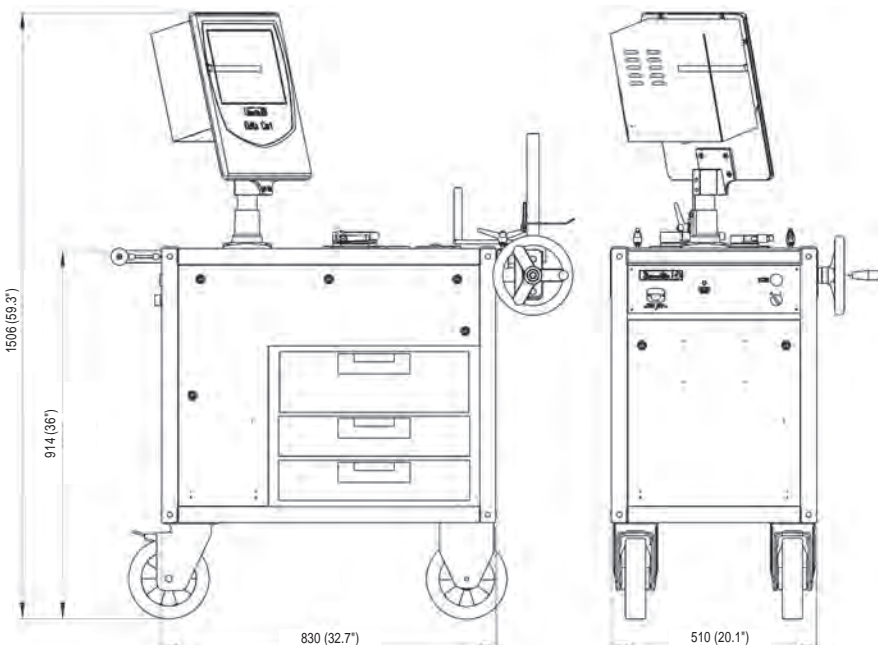
EMBEDDED TRANSDUCERS:

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.
- PST High accuracy static transducers with locking system specially designed for pulse tool calibration
- ISO RIG (mandatory over 200Nm)
System for torque wrench calibration



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



- 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

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.



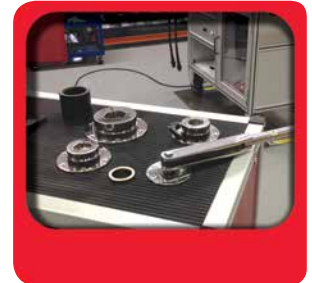
Electric and Pneumatic Nutrunner



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



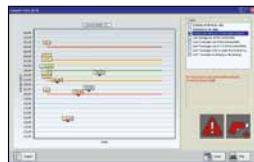
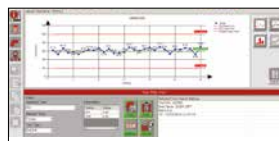
TECHNICAL FEATURES

- Configurable torque range from 1 Nm to 2000Nm
- Torque reaction bar and joint simulator included
- External DRT communication for in-line calibration
- Angle Strategy with external DRT5
- CVI2 and CVI3 autocalibration
- Double reading calibration with automatic deviation check



Embedded Software with local tool DB (SQL Server)

- Tools Inventory with calibration status and next calibration date (Excel sheet export)
- Calibration STATUS
- Cm/Cmk Reports
- SPC X/R Charts
- USER Management - login per user



SOFTWARE see page 65

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 - kgf.m - ozf.in - lbf.in - lbf.ft
Languages	English, French, Italian, German, Russian