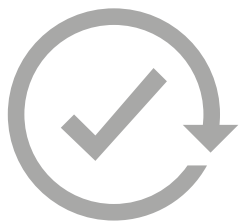




Industrial^{Tools}



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More Than Productivity



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

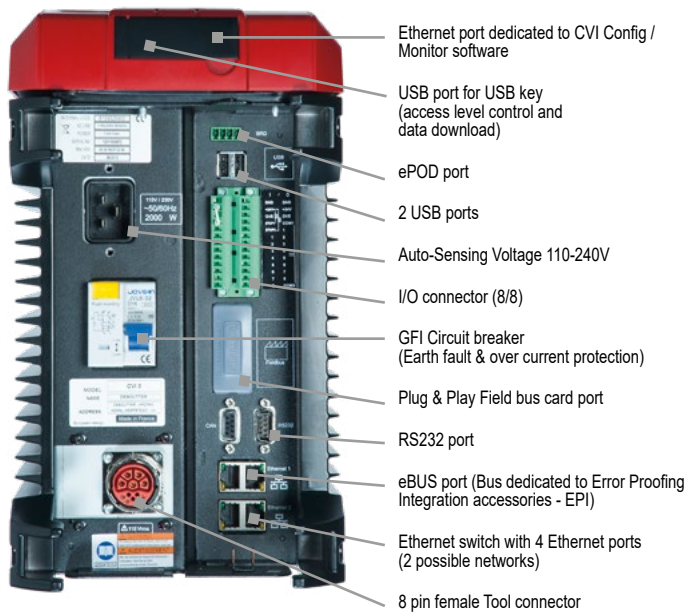


UNMATCHED FLEXIBILITY



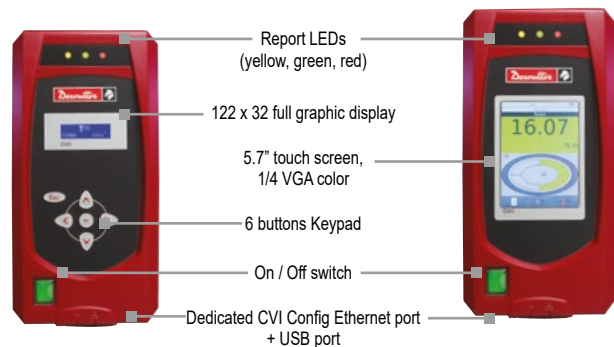
USER-FRIENDLY INTERFACE

Technical features



CVI3 Function /
CVI3 Essential

CVI3 Vision



FEATURES	CVI3 ESSENTIAL	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
----------	----------------	---------------	-------------	------------------------------

CONTROLLERS

Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm3)	19.5	19.5	19.5	29.6
Color touchscreen			✓ (5.7")	✓ (5.7")

STORAGE

Pset results (torque, angle, date, time, report)	10000 (Only OK/NOK)	10000	10000	10000/20000
Pset curves (OK/NOK)		20	20	20/40
Assembly Process results	1000 (Only OK/NOK)	1000	1000	1000/2000
Event log storage (number of events)	500	500	500	500

BASIC FUNCTIONS

Nbr of Psets	6	250	250	250
Nbr of steps per Pset	15	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	6	250	250	250
Advanced Soft PLC (in option with CVILOGIX, ePod Essential, 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*	Torque only	✓	✓	✓
Monitoring: torque rate*, 2nd part angle, current, slip off, stick slip, time & rundown angle	Angle only	✓	✓	✓

CONNECTIVITY

Configurable I/O	8/8	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



Controllers



A



B



C



D

PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
			110V	240V		WIDTH		HEIGHT		DEPTH		kg	lb.
A	CVI3 Vision	615 932 691 0	8A	4A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
A	CVI3 Vision eSTOP	615 932 694 0	8A	4A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	TWINCVI3	615 932 697 0	16A	8A	Single-phase	265	10.4	361	14.2	310	12.2	15	33.1
B	TWINCVI3 eSTOP	615 932 698 0	16A	8A	Single-phase	265	10.4	361	14.2	310	12.2	15	33.1
C	CVI3 Function	615 932 690 0	8A	4A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
C	CVI3 Function eSTOP	615 932 693 0	8A	4A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
D	CVI3 Essential	615 932 695 0	8A	4A	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

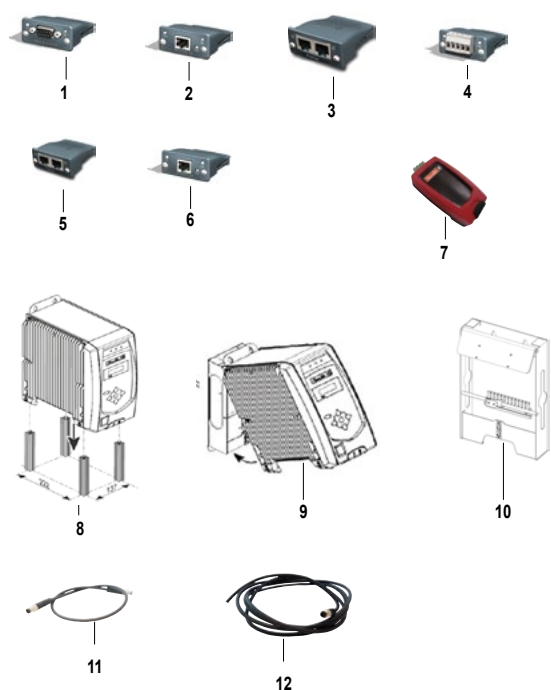
PLUG	DESCRIPTION	PART NO.
A	European	615 917 069 0
B	US NEMA 5-15	615 917 060 0
C	US NEMA 5-20	615 917 063 0
D	UK	615 917 070 0
E	Chinese	615 917 061 0



SOFTWARES
see page 76-77, 80-81

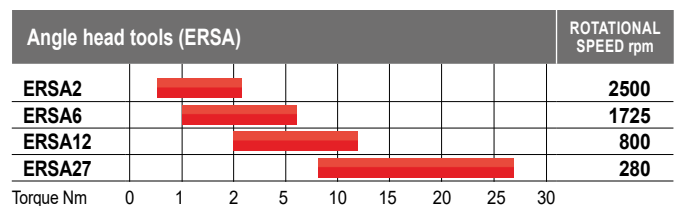
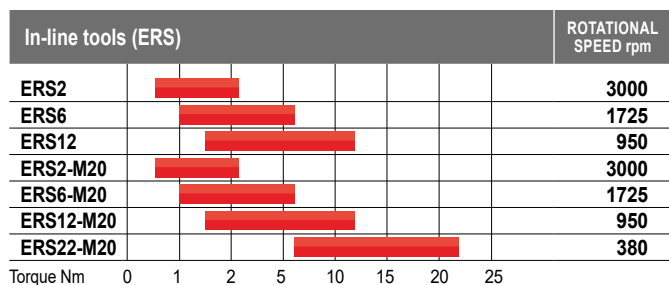
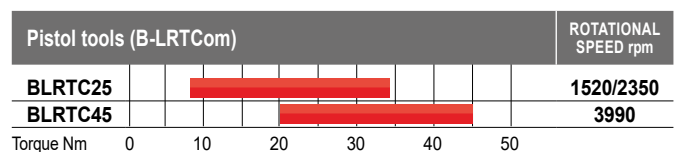
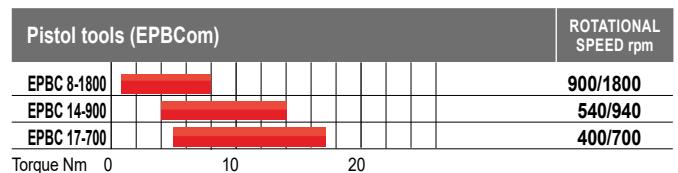
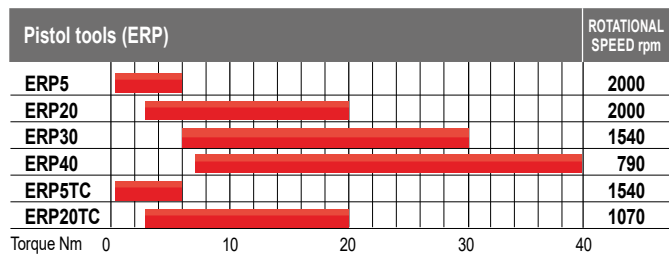
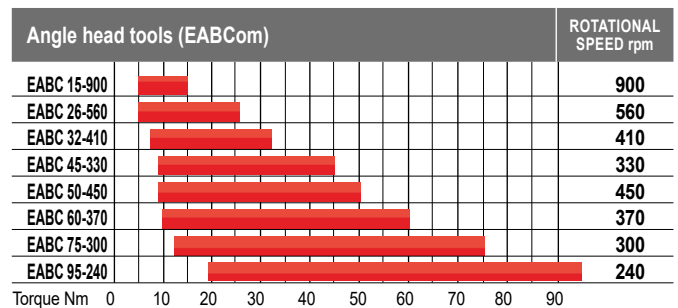
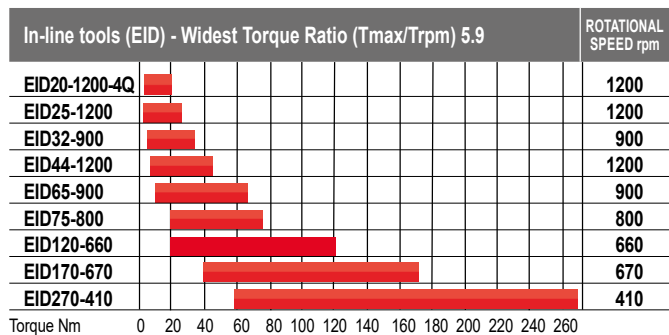
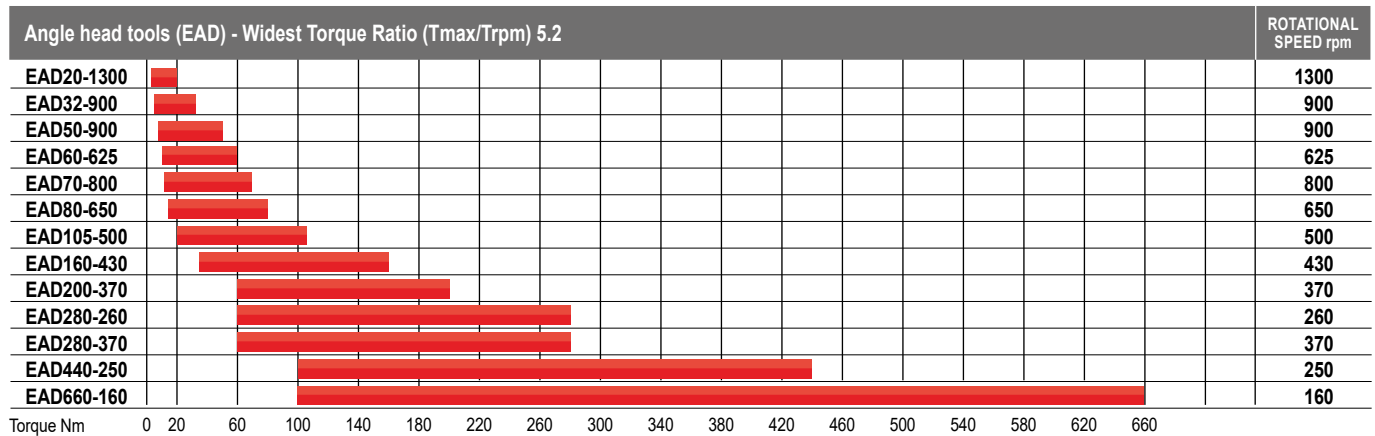
OPTIONAL ACCESSORIES

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
7 ePOD eCompass	615 936 333 0
7 ePOD Essential	615 936 836 0
Others Accessories	
8 Table mounting	615 397 399 5
9 Wall mounting CVI3 Function/Essential/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



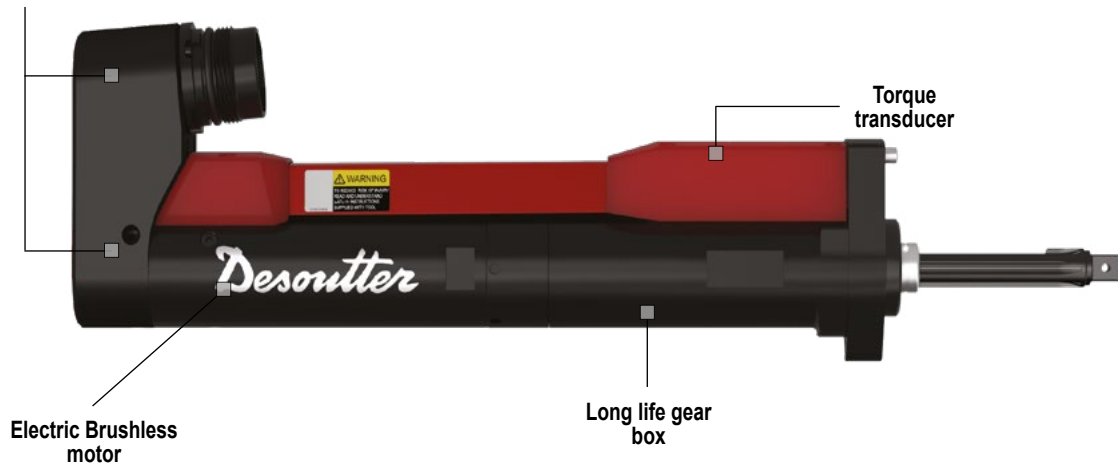
Torque Range - Portable electric nutrunners

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

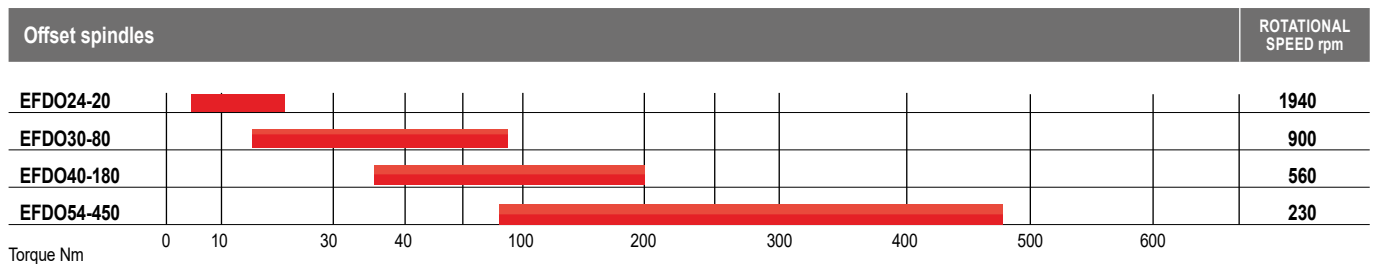
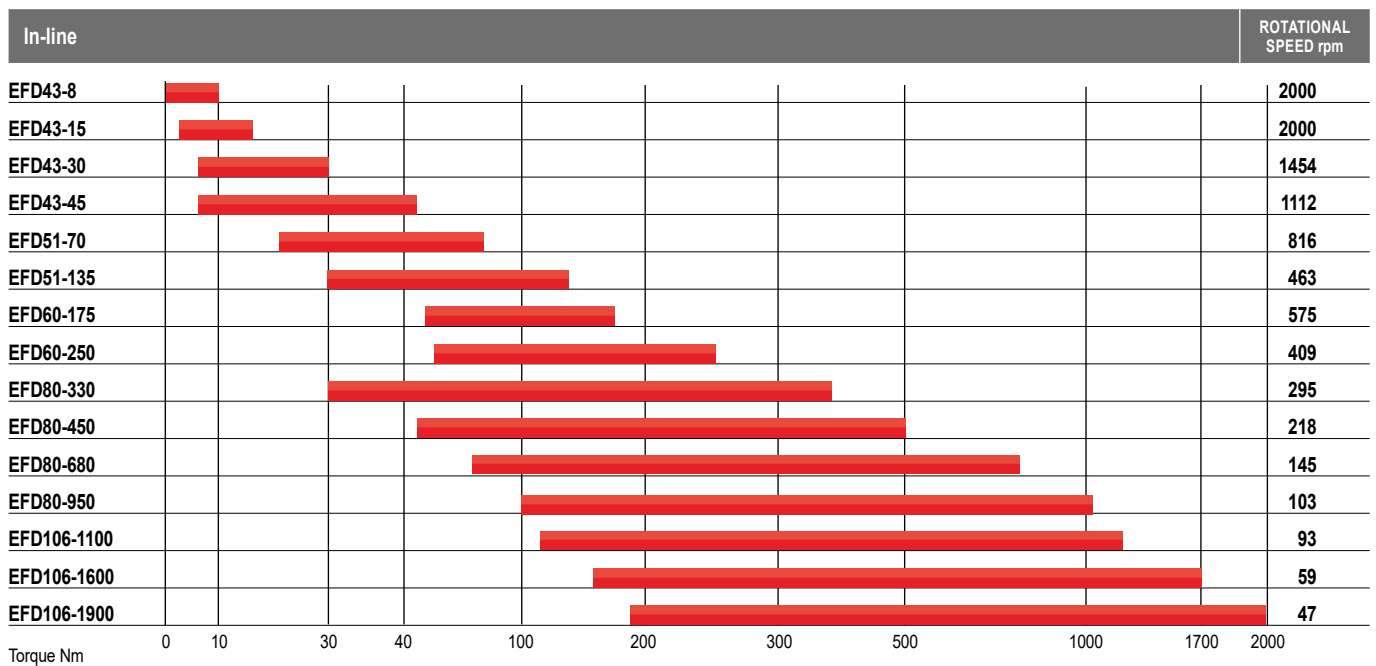


Torque Range - Fixtured electric spindles

Tool connector with 350° rotation in both direction



Performance of Fixtured electric spindles - EFD Range



Pistol grip electric nutrunners - CVI3

0.5 to 40 Nm (0.11 to 9 ft.lb) - 680 to 2000 rpm



A



B



C



D



ACCESSORIES
see pages 74-75

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	ERP5	615 166 198 0	Hex. 1/4 F	0.5	5	5	0.11	1.12	1.12	2000	222	8.7	1.1	2.4
B	ERP20	615 166 199 0	Hex. 1/4 F	3	20	20	0.67	4.5	4.5	1540	232	9.1	1.2	2.6
B	ERP30	615 166 200 0	Sq. 3/8	5	30	30	1.12	6.7	6.7	1070	228	9.0	1.2	2.6
C	ERP40	615 165 263 0	Sq. 3/8	6	40	40	1.35	9	9	680	263	10.4	2.1	4.6
D	ERP5TC	615 166 202 0	Hex. 1/4 F	0.5	5	5	0.11	1.12	1.12	2000	248	9.8	2.5	5.5
D	ERP20TC	615 166 203 0	Hex. 1/4 F	3	20	20	0.67	4.5	4.5	1540	258	10.2	2.6	5.7



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

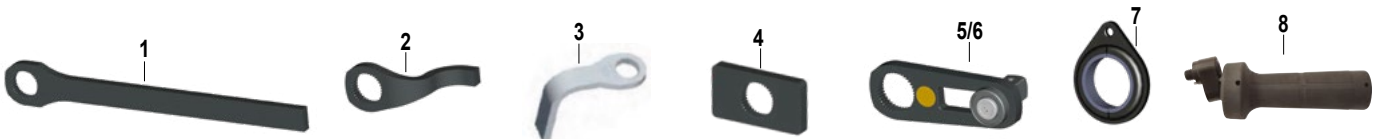
Complete Loop



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



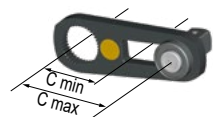
REACTION BARS	SPLINE	1 STRAIGHT	2 S-TYPE	3 L TYPE ALUMINIUM	4 SQUARE	5 SLIDING DRIVE	6 SLIDING DRIVE EXTENDED C-C	7 SUSPENSION BAIL	8 SIDE HANDLE
ERP250	3	615 812 097 5	615 812 068 5	615 812 072 5	615 812 057 5	615 812 113 5	N/A	615 812 123 0	615 576 085 0
ERP500	4	615 812 054 5	615 812 069 5	615 812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

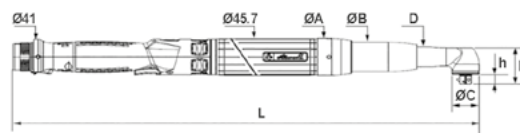


Slidding drive C-C

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

Angle head electric nutrunners - CVI3

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



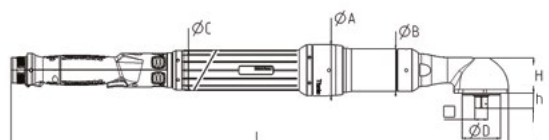
ACCESSORIES
see pages 74-75

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
EAD60-625	12.0	0.47	56.7	2.23	58	2.28	41	1.61	40	1.57	32	1.26
EAD60-625 - 1/2"	12.0	0.47	52.0	2.43	58	2.28	41	1.61	40	1.57	32	1.26
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

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	1.6	3.53
EAD32-900	615 165 607 0	3/8	5	30	32	3.7	22.1	23.6	900	481	19.2	1.6	3.53
EAD50-900	615 165 609 0	3/8	8	45	50	5.9	33.2	40.6	900	531	20.9	2	4.41
EAD60-625	615 166 079 0	3/8	10	55	60	7.4	41	44	625	504	19.8	2.1	4.5
EAD60-625 - 1/2"	615 166 188 0	1/2	10	55	60	7.4	41	44	625	504	19.8	2.1	4.5
EAD70-800	615 165 611 0	3/8	12	65	70	8.9	47.9	51.6	800	544	21.4	2.3	5.07
EAD70-800	615 165 882 0	1/2	12	65	70	8.9	47.9	51.6	800	544	21.4	2.3	5.07
EAD80-650	615 165 612 0	1/2	15	75	80	11.1	55.3	59	650	567	22.3	2.9	6.39
EAD105-500	615 165 613 0	1/2	20	90	105	14.8	66.4	77.4	500	567	22.3	2.9	6.39

Angle head electric nutrunners - CVI3

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



ACCESSORIES
see pages 74-75

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

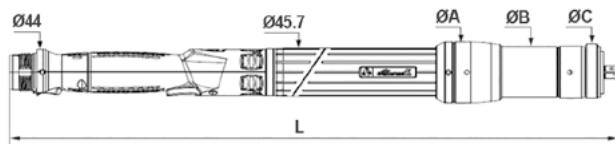
MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
EAD160-430	615 165 681 0	1/2	35	150	160	26	111	118	430	650	25.6	4.3	9.5
EAD200-370	615 165 682 0	3/4	60	170	200	44	125	148	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 74-75

MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
EID20-1200-4Q*	615 165 992 0	Hex. 1/4 F	3	18	21	2.2	13.3	15.5	1200	430	16.9	1.45	3.20
EID25-1200*	615 165 614 0	Sq. 3/8	3	20	25	2.2	14.8	18.4	1200	430	16.9	1.45	3.20
EID32-900*	615 165 615 0	Sq. 3/8	5	30	32	3.7	22.1	25.1	900	430	16.9	1.45	3.20
EID44-1200*	615 165 616 0	Sq. 3/8	7	40	44	5.2	29.5	33.2	1200	489	19.3	2	4.41
EID65-900	615 165 617 0	Sq. 1/2	10	60	65	7.4	44.3	47.9	900	489	19.3	2	4.41
EID75-800	615 165 618 0	Sq. 1/2	20	70	75	14.8	51.6	57.5	800	489	19.3	2	4.41

(*): 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

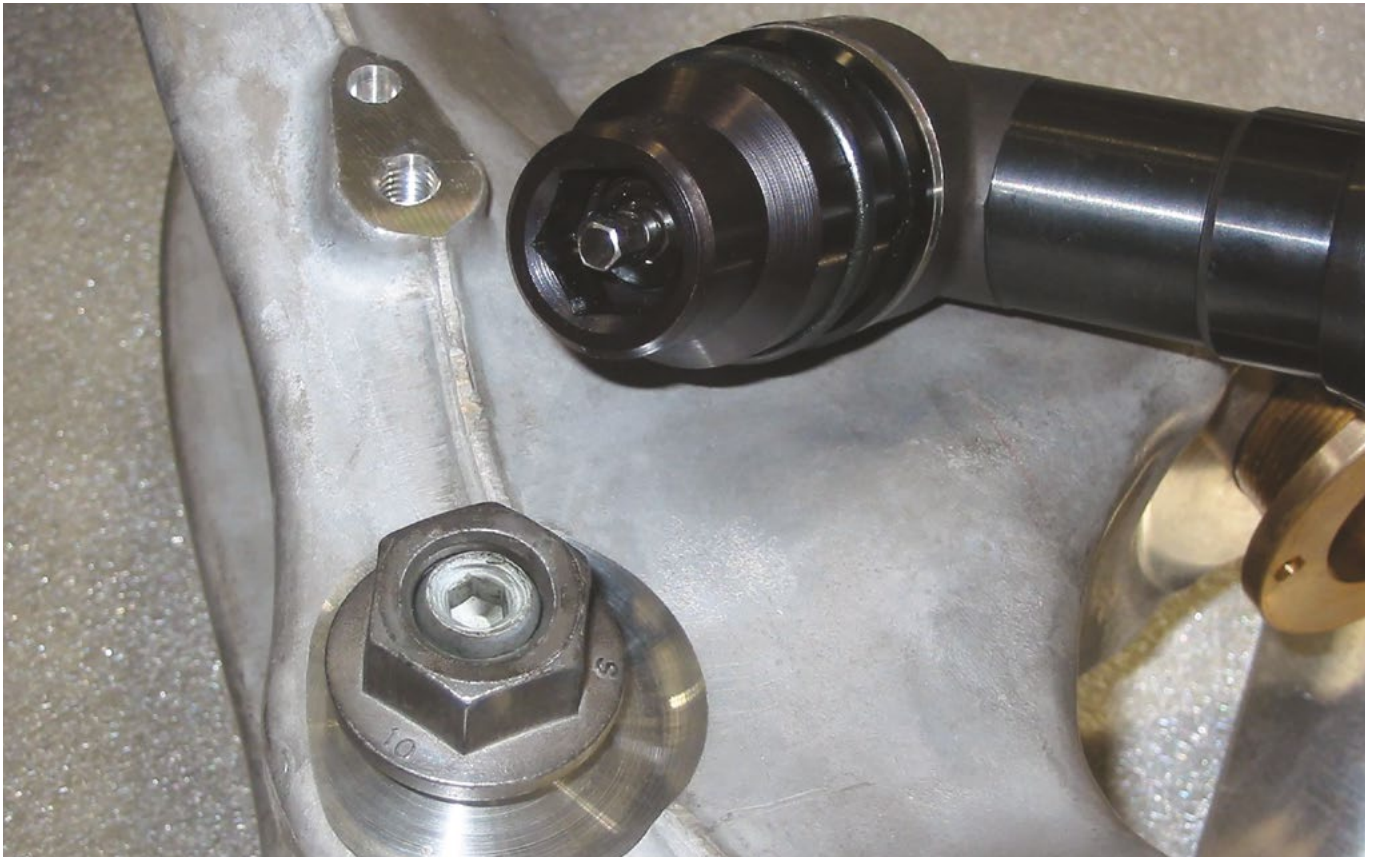


MODEL	ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.
EID120-660	66	2.60	55	2.17	52	2.05	42.0	1.65
EID170-670	72	2.83	55	2.17	66	2.60	42.0	1.65
EID270-410	76	2.99	67	2.64	66	2.60	53.5	2.11

 **ACCESSORIES**
see pages 74-75

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

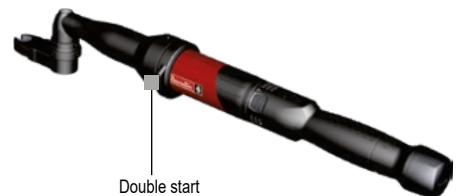
Crowfoot and tube nut tools



Offset Closed



Offset Open



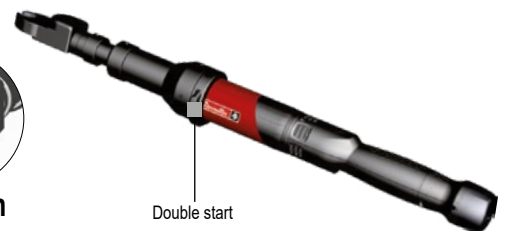
Double start



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.

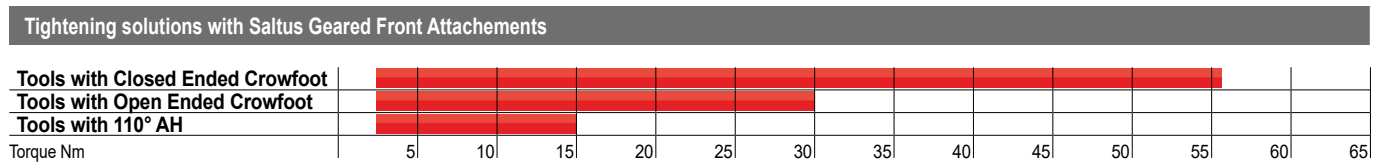
Standard Tightening Solutions with SALTUS

Geared Front Attachments

The Desoutter tightening solutions with SALTUS Geared front attachment includes a range of Closed-ended crowfoots, Open ended Crowfoots & 110° Angle Heads offering best-in class performance, quality and reliability for the most demanding applications.

The patented designs of SALTUS Geared front attachment provides the market leading efficiency & accuracy, and the optimal integration with the Desoutter tool range delivers the most ergonomic and durable solution for high-class tightening.

Torque range:



STANDARD TOOL RANGES WITH SALTUS GFAS



	ELECTRIC TRANSDUCERIZED	ELECTRIC CLUTCH TOOL	PNEUMATIC TOOLS
EAD	✓		
EAB	✓		
EPB	✓		
E-LIT		✓	
ERSA	✓		
ECSA	✓		
SD			✓
SH			✓

Standard Tightening Solutions with SALTUS

Geared Front Attachments

Main Features



Standard Tightening Solutions with SALTUS

Geared Front Attachments

Main Features



EXCLUSIVE HIGH-QUALITY STEEL
FOR CRITICAL COMPONENTS

For Industry-leading Durability and Efficiency

SAME SOCKET CAN BE
ASSEMBLED IN BOTH
DIRECTIONS UPWARD
AND DOWNWARD

Easy Reconfiguration

H&D SOCKETS AVAILABLE
WITH ALL CLOSED ENDED
GFAS

No housing difference
Easy Reconfiguration

MAGNET IN CROWFOOT HOUSING

Restricts metallic fragments from entering to the
gear mechanism
Improves durability

MODULAR CROWFOOT INTERFACE

Same interface for both fixed and indexing
adaptors

INDEXING ENGAGEMENT INDICATOR

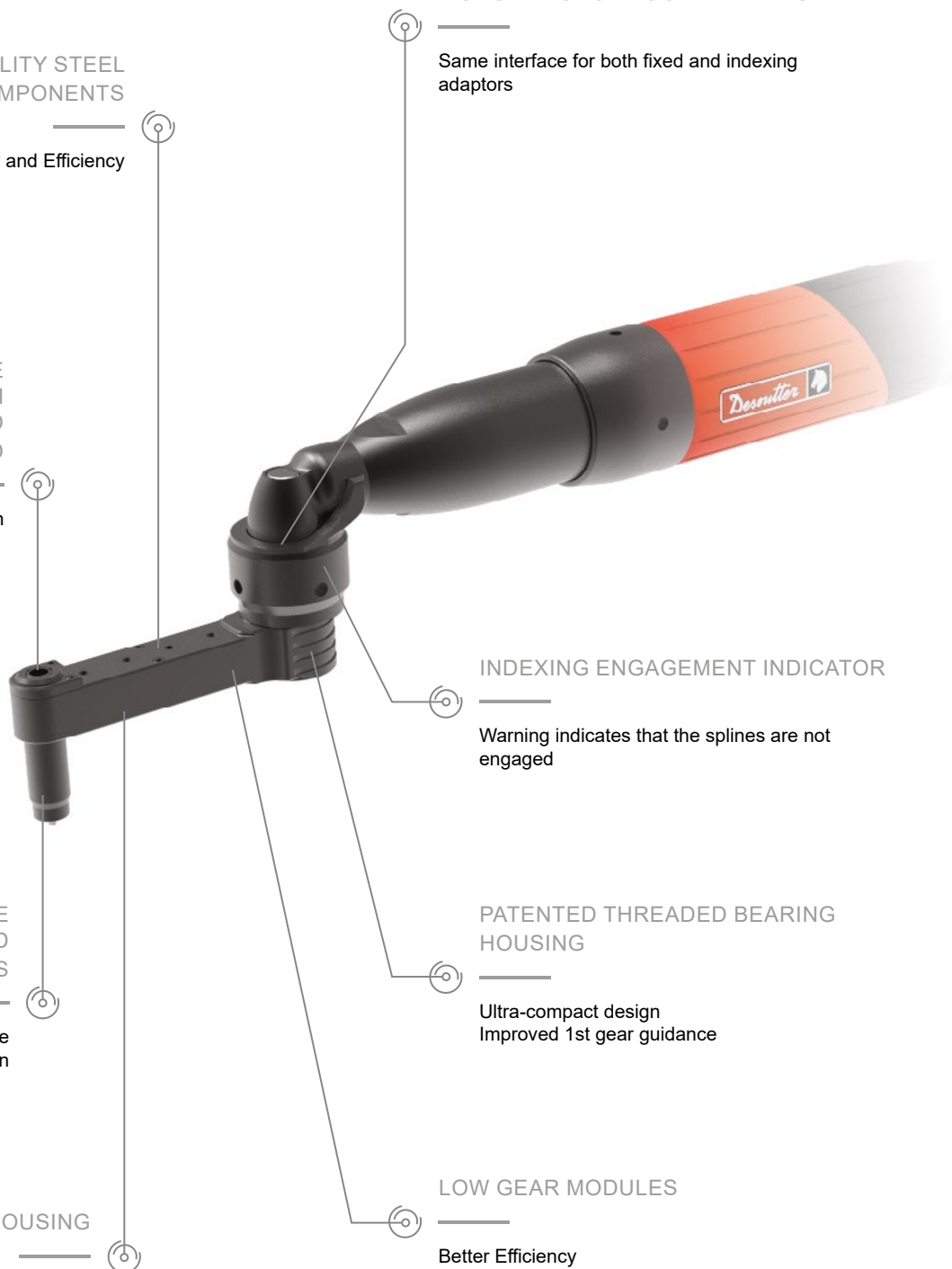
Warning indicates that the splines are not
engaged

PATENTED THREADED BEARING
HOUSING

Ultra-compact design
Improved 1st gear guidance

LOW GEAR MODULES

Better Efficiency
Better Accuracy
Less input torque is required for the same output



Standard Tightening Solutions with SALTUS

Geared Front Attachments

Main Features



BENEFITS

- Compact Solution thanks to optimal integration with Desoutter tools
- High accuracy and Durability
- Better tool Ergonomics
- Hundreds of standard configurations with Desoutter tool ranges are possible to access the most challenging tightening joints



MODEL	PART NUMBER	BASE TOOL / DRIVE UNIT	MAX. OUTPUT TORQUE	MAX. OUTPUT SPEED	TOOL ANGLE HEAD	CROWFOOT TYPE	ADAPTER TYPE	OUTPUT DIMENSION A/F	EXTENSION	BATTERY TYPE
			Nm	rpm				mm		
EAD50-900-OOZRg22h-30-900	6150700108	EAD50-900	30	900	90°	Open Offset	Fixed	14	Flush	-
EAD32-900-OOZMFG29-18-900	6150700110	EAD32-900	18	900	90°	Open Offset	Fixed	10	Flush	-
EAD50-900-COZE4J7Z-31-833	6150700113	EAD50-900	31	833	90°	Closed Offset	Fixed	12	Flush	-
EABC32-410-COZE4E7Z-29-379	6150700116	EABC32-410	29	379	90°	Closed Offset	Fixed	12	Flush	18/36 V

Contact your Desoutter representative for assistance in configuring the right standard solution with SALTUS geared front attachments for your application.

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

EFD : straight spindles

EFD0 : offset spindles

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

Tool cable 1m (3.28ft)	615 917 650 0
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

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



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

ePOD3



eStop

FIELD BUS



Operator panel



Stack Light



I/O expander

Advanced monitoring

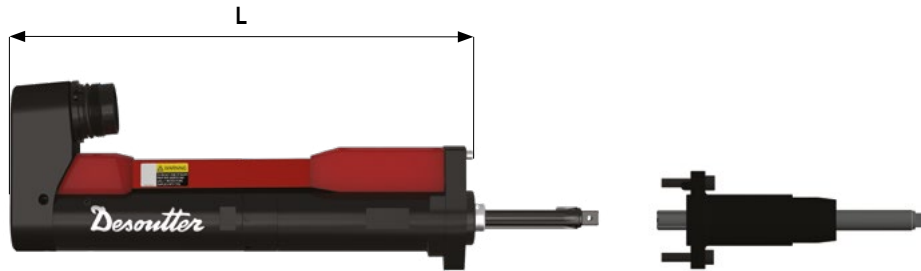
- The primary controller displays all tightening results and events and its own tightening curves.
- Each controller displays its own results

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



MODEL	LENGTH TOOL-L		WEIGHT TOOL	
	mm	in.	kg	lb.
EFD43-8	276	10.9	2.1	4.6
EFD43-15	276	10.9	2.1	4.6
EFD43-30	311	12.2	2.3	5.1
EFD43-45	311	12.2	2.3	5.1
EFD51-70	357	14.0	3.9	8.6
EFD51-135	357	14.0	3.9	8.6
EFD60-175	373	14.7	5.3	11.7
EFD60-250	373	14.7	5.3	11.7
EFD80-330	435	17	10.2	22.5
EFD80-450	435	17	10.2	22.5
EFD80-680	435	17	10.2	22.5
EFD80-950	435	17	10.2	22.5
EFD106-1100	476	19	15.3	33.7
EFD106-1600	511	20	15.9	35
EFD106-1900	511	20	15.9	35

TELESCOPIC MODULES (OPTION)	PART NO.	LENGTH		WEIGHT	
		mm	in.	kg	lb.
Telescopic Module 3/8" EFx43 IP54	615 397 013 5	165	6.50	0.75	1.65
Telescopic Module 1/2" EFx51 IP54	615 397 017 5	183	7.20	1.55	3.42
Telescopic Module 3/4" EFx60 IP54	615 397 014 5	203	7.99	1.95	4.3
Telescopic Module 3/4" EFx80 IP54	615 399 267 0	398	15.67	9.6	21.16
Telescopic Module 1" EFx80 IP54	615 399 268 0	406	15.98	9.6	21.16
Telescopic Module 1" EFx106 IP54	615 399 296 0	446	17.56	14.1	31.08
Telescopic Module 1 1/2" EFx106 IP54	615 399 270 0	467	18.39	14.1	31.08



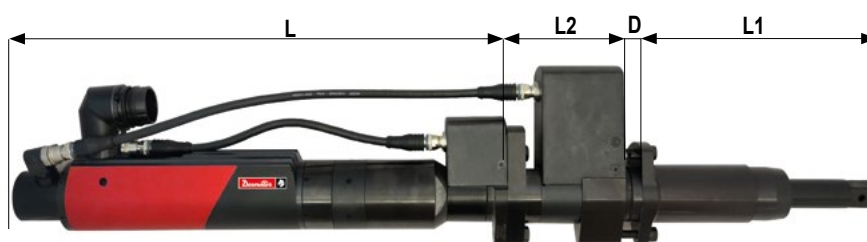
ACCESSOIRES
see page 74

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.
EFD43-8	615 166 204 0	3/8	1	8	10	0.7	5.9	7.4	2000	50	1.97	43	1.69
EFD43-15	615 166 205 0	3/8	3	15	17	2.2	11.1	12.5	2000	50	1.97	43	1.69
EFD43-30	615 166 206 0	3/8	7	30	32	5.2	22.1	23.6	1454	50	1.97	43	1.69
EFD43-45	615 166 207 0	3/8	7	45	50	5.2	33.2	36.9	1112	50	1.97	43	1.69
EFD51-70	615 166 208 0	1/2	20	70	80	14.7	51.6	59	816	50	1.97	51	2.01
EFD51-135	615 166 209 0	1/2	30	135	150	22.1	99.6	111	463	50	1.97	51	2.01
EFD60-175	615 166 211 0	3/4	50	175	190	36.9	129	140	575	50	1.97	60	2.36
EFD60-250	615 166 212 0	3/4	55	250	280	40.6	184	206	409	50	1.97	60	2.36
EFD80-330	615 166 213 0	3/4	30	330	360	22.1	243.4	265.5	299	60	1.97	80	3.15
EFD80-450	615 166 214 0	3/4	45	450	500	33.2	331.9	368.8	218	60	1.97	80	3.15
EFD80-680	615 166 215 0	1	70	680	740	51.6	501.5	545.8	145	60	1.97	80	3.15
EFD80-950	615 166 216 0	1	100	950	1050	73.8	700.7	774.4	103	60	1.97	80	3.15
EFD106-1100	615 166 217 0	1	110	1100	1150	81.1	811.3	848.2	93	60	1.97	106	4.17
EFD106-1600	615 166 218 0	1 1/2	160	1600	1700	118.0	1180.1	1253.9	59	60	1.97	106	4.17
EFD106-1900	615 166 219 0	1 1/2	190	1900	2000	140.1	1401.4	1475.1	47	60	1.97	106	4.17

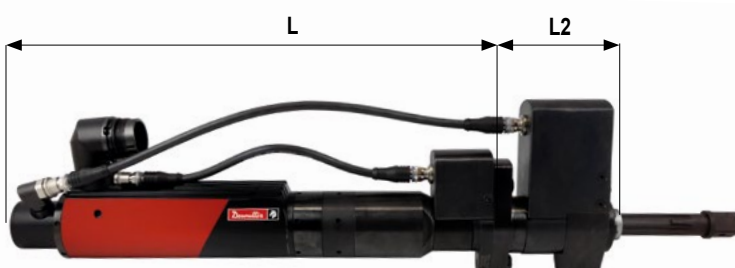


Fixtured electric spindles - CVI3

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 74

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-TA – With removable telescopic module & second transducer

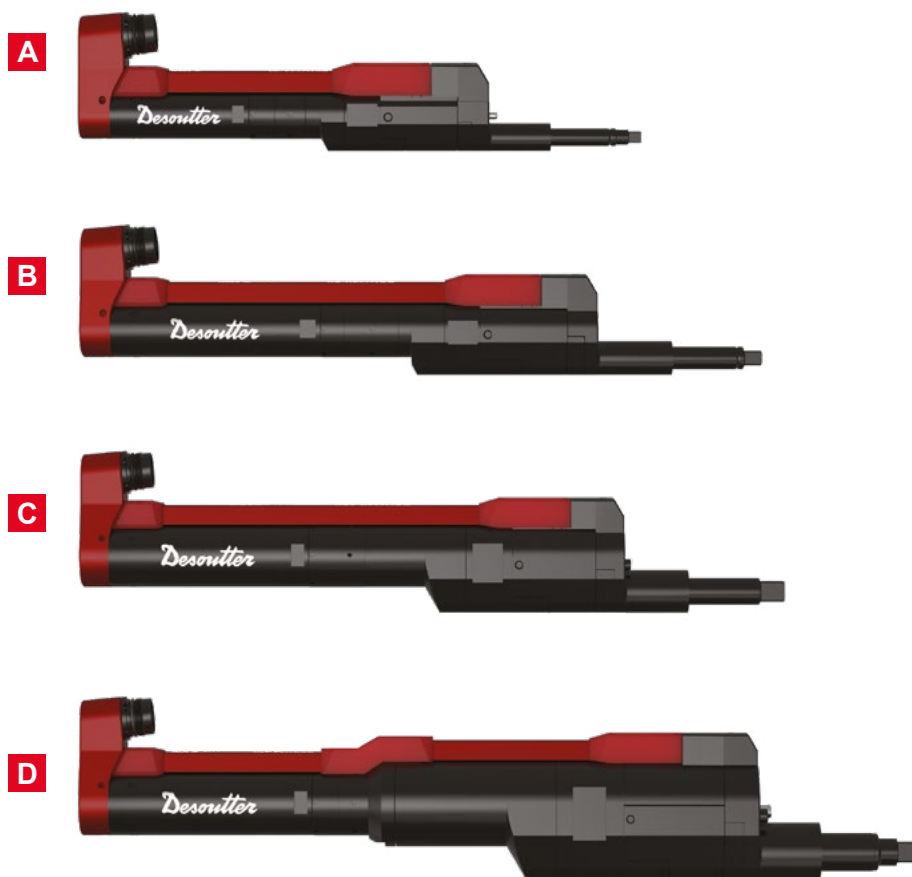
A	EFDE 43-8-TA	615 166 001 0	3/8	5	8	10	3,7	5,9	7,4	2000	50	1.97	43	1,69
A	EFDE 43-15-TA	615 166 002 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
A	EFDE 43-30-TA	615 166 003 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
A	EFDE 43-45-TA	615 166 004 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
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 offset electric spindles - CVI3

4 to 480 Nm (2.9 to 352.9 ft.lb) - 230 to 1940 rpm



PIC REF	MODEL	PART NUMBER	SOCKET HOLDER	STROKE	TORQUE						FREE SPEED	C-C DISTANCE		TOOL LENGTH		WEIGHT	
					MIN.	RECOM- MENDED	MAX.	MIN.	RECOM- MENDED	MAX.		mm	in.	mm	in.	kg	lb
			in.	mm	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm						
EFDO																	
A	EFDO24-20	615 166 190 0	3/8	50	4	20	22	2.9	14.7	16.2	1940	24	0.94	350	13.78	3.1	6.83
B	EFDO30-80	615 166 191 0	1/2	50	16	80	90	5.9	58.8	66.2	900	30	1.18	450	17.72	5.5	12.12
C	EFDO40-180	615 166 192 0	3/4	50	36	180	200	13.2	132.4	147.1	560	40	1.57	485	19.09	8.8	19.40
D	EFDO54-450	615 166 193 0	3/4	50	90	450	480	33.1	330.9	352.9	230	54	2.13	600	23.62	17.2	37.92



Accessories

Cable for ERP / EAD / EID / EFD



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

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

CABLE FOR EFD RANGE TOOLS	PART NO.
Tool cable 1m (3.28ft)	615 917 650 0
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 - EFD RANGE 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 EFD/EFM TOOLS	PART NO.
3/8" square drive EFD43 / EFM43	615 396 426 0
1/2" square drive EFD51/60-95 / EFM51/60-95	615 396 427 0
3/4" square drive EFD60-175/250 / EFM60-175/250	615 396 428 0
3/4" square drive EFD80-330/450 / EFM80-330/450	615 396 429 0



CVI3 Controllers

OPTIONAL ACCESSORIES

ITEM		PART NO.
Controllers		
1	Socket tray with tubes & inserts	615 936 095 0
	• Socket tray	615 936 071 0
2	Kit tubes & Inserts for Socket tray	615 398 035 5
3	Bit holder module for Socket tray	615 398 083 5
4	Bit Tray	615 936 080 0
5	Operator Panel	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



EAD / EID / ERP / ERPHT

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	615 911 034 5
9	Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 033 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 EAD60/70	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 EAD50/60	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

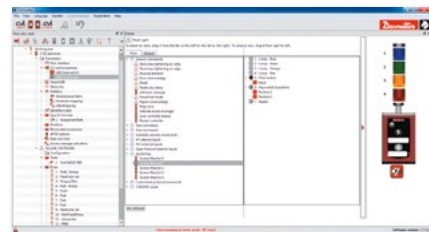
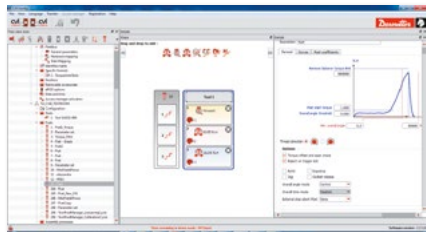


Set your tools right...

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

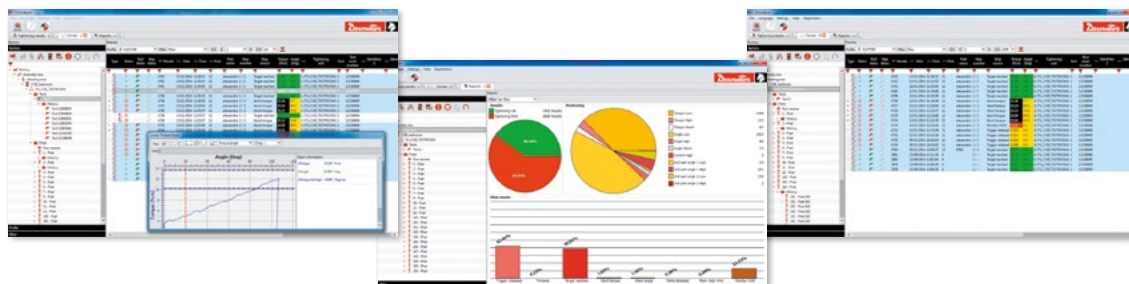


Set your tools right...

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

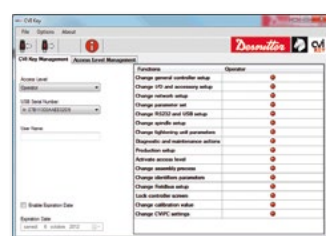
- Intuitive software to create/manage access level
- Protection guaranteed by unique profile keys created by the administrator (locked against copy)

SIMPLE INTERFACE

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

HIGH FLEXIBILITY

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



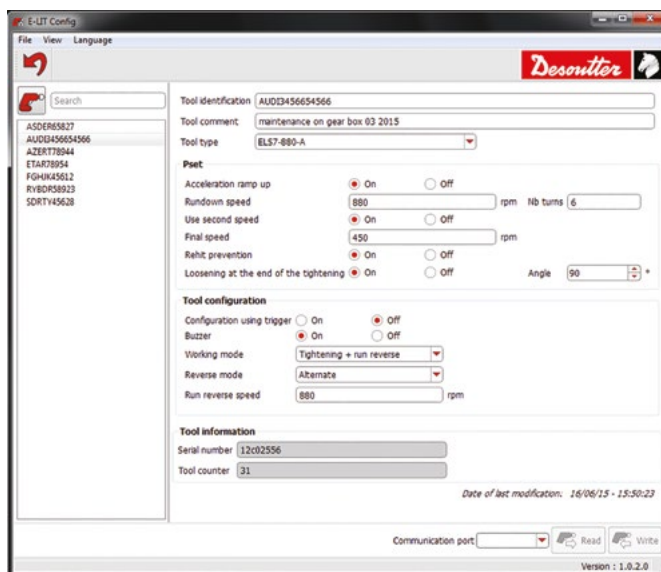
	PART NO.
Software	
CVI KEY	615 927 676 0

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.

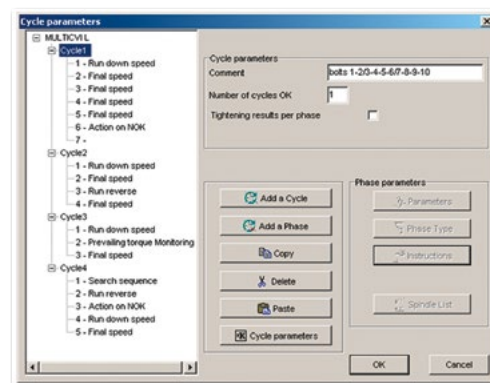
Programming mode

- 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

Quality Control and measurement traceability

Delta Quality Control

DELTA QC

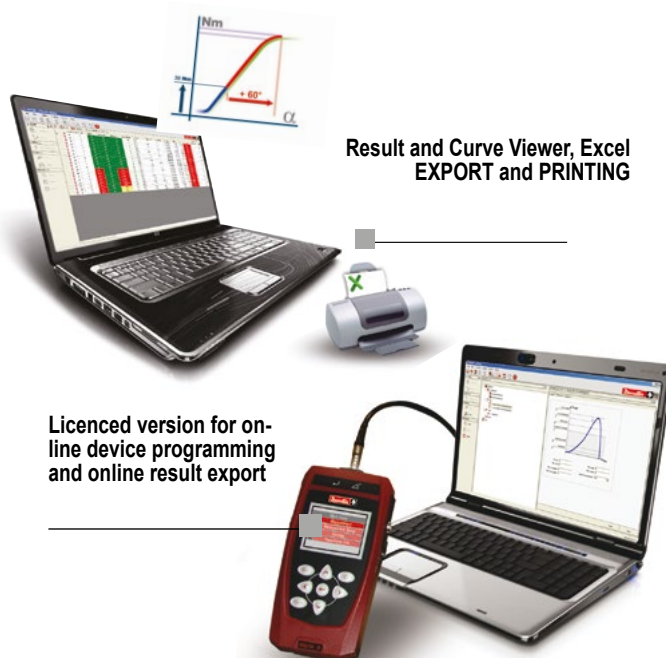
The Delta QC software is the common software platform for all Delta QC measurement equipment. Included features are programming, results and curve viewer ensuring measurement data traceability. Statistical machine capability tool or SPC are also ensured thanks to local database available in the Advanced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

CVI RECOVERY

- Process always under monitoring
- Scheduled Alert Notification for change from reference database
- Detailed report Configure comparison between the reference configuration versus the configuration deployed

	PART NO.
Software	
• CVI RECOVERY 1 Controller	615 927 767 0
• CVI RECOVERY 10 Controllers	615 927 768 0
• CVI RECOVERY 50 Controllers	615 927 769 0
• CVI RECOVERY 100 Controllers	615 927 770 0

Pivotware - Process Control

Product features

1 | PROCESS CONTROL

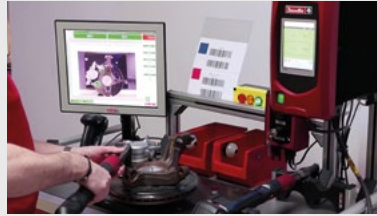


Process Configurator



Customizable, simple and powerful tool to improve your process

2 | OPERATOR GUIDANCE



Tracker Module

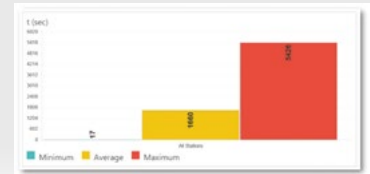
Infinity Station

Warranties the best practice on the line, the most efficient way



Builder Module

3 | REPORTS & TRACEABILITY



Reports & traceability

Bring confidence to your customers



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



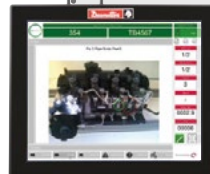
Production Management Module to manage products, sequencing and build requirements in each station.



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.

Station 1

start

warm

stop

start



Pivotware - Process Control

Product features

DESOUTTER FEATURE MANAGEMENT



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.



Station 2

Station 3

warm

stop

start

warm

stop

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



DE METER



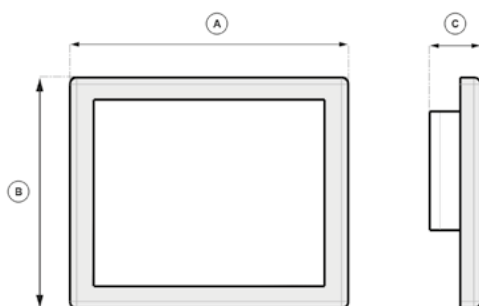
Pivotware - Process Control

Product references list

HARDWARE

Infinity		PART NUMBER
Prime Infinity One 8Gb	Infinity V7 and higher including Features Management	615 927 867 0
Panel PC's		PART NUMBER
Infinity Panel PC 17"	with Alim, without power cable	615 932 745 0
Infinity Client - Panel PC 17"	with Alim, without power cable	615 932 742 0
Windows 10 IoT with pre-loaded client software V6		
Infinity Module - Panel PC 17"	with Alim, without power cable	615 932 743 0
Windows 10 IoT with pre-loaded Module software V6 (Tracker or Builder)		
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.
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

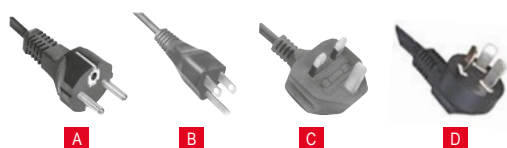


Infinity Micro



Sigma Nano Kit

CABLES



A

B

C

D



Smart Start / Install & set up



Start-up

Digital transformation is the key for industry 4.0. With our software experts and our global presence, we work together to make it happen at your facility.

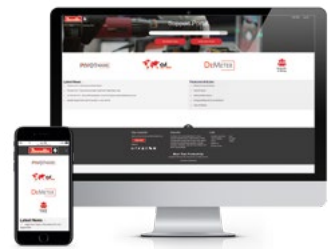


Software Support / Remote experts



Essential care

Connect to our expert team with Essential Care to make sure your software is always up and running.



- ✓ Support portal
- ✓ Remote support
- ✓ BOOSTLAB Trial



Production Boost / On-demand Services



BOOSTLAB

Prescription based on data analytics

Subscribe to BOOSTLAB to get production data analytics and prescriptions to boost efficiency in your plant.



Service Level 2 team is **CONNECTED** and **ONLINE**
Ask an access to the Support portal **NOW!**
Build with experts