

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

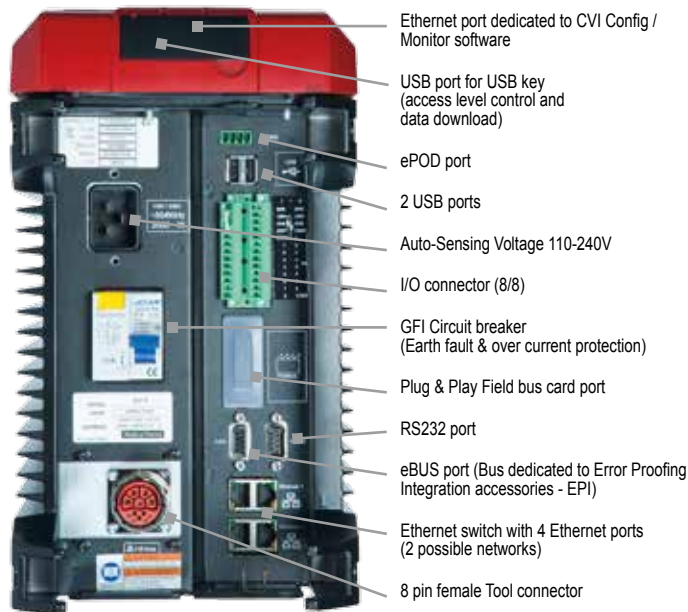


UNMATCHED FLEXIBILITY



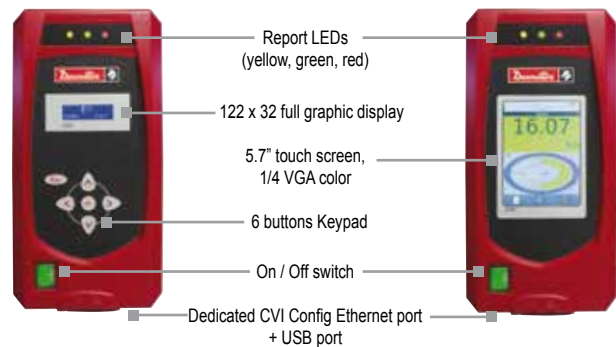
USER-FRIENDLY INTERFACE

Technical features



CVI3 Function

CVI3 Vision



FEATURES	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
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CONTROLLERS

Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm ³)	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	✓	✓	✓
Tubnut release	✓	✓	✓

ADVANCED FUNCTIONS

Access Level Control/Management with unlimited profiles	✓	✓	✓
ID input to select Assembly Process (up to 4 different identifiers)	✓	✓	✓
Number of Assembly Process	250	250	250
Advanced Soft PLC (in option with CVILOGIX)	✓	✓	✓
1 Network/Fieldbus Access point per group of up to 14 controllers		✓	✓
Full synchronized control for a group of up to 14 controllers (static/dynamic)		✓	✓

TIGHTENING STRATEGIES

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

CONNECTIVITY

Configurable I/O	8/8	8/8	8/8
USB ports (2 + 1 front)	✓	✓	✓
Embedded Ethernet switch (4 ports + 1 front – 2 networks)	✓	✓	✓
Dedicated Bus for integrated positioning management	✓	✓	✓

OPTIONAL FIELDBUS

Plug & Play Fieldbus card port (EthernetIP, ProfiNet A/B, Modbus TCP, DeviceNet, Profibus, CC-Link)	✓	✓	✓
Fieldbus dynamic memory mapping	✓	✓	✓



desoutter.info/CVI3



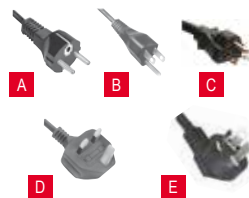
PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
			115V	220V		WIDTH		HEIGHT		DEPTH		kg	lb.
A	CVI3 Vision	615 932 691 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
A	CVI3 Vision eSTOP	615 932 694 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	TWINCVI3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



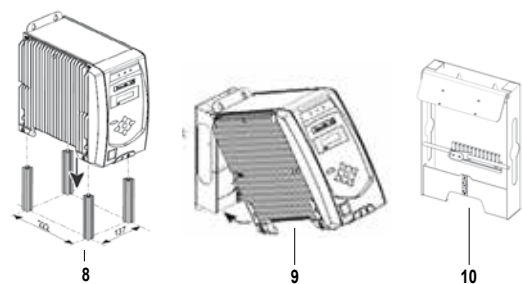
OPTIONAL ACCESSORIES

Software

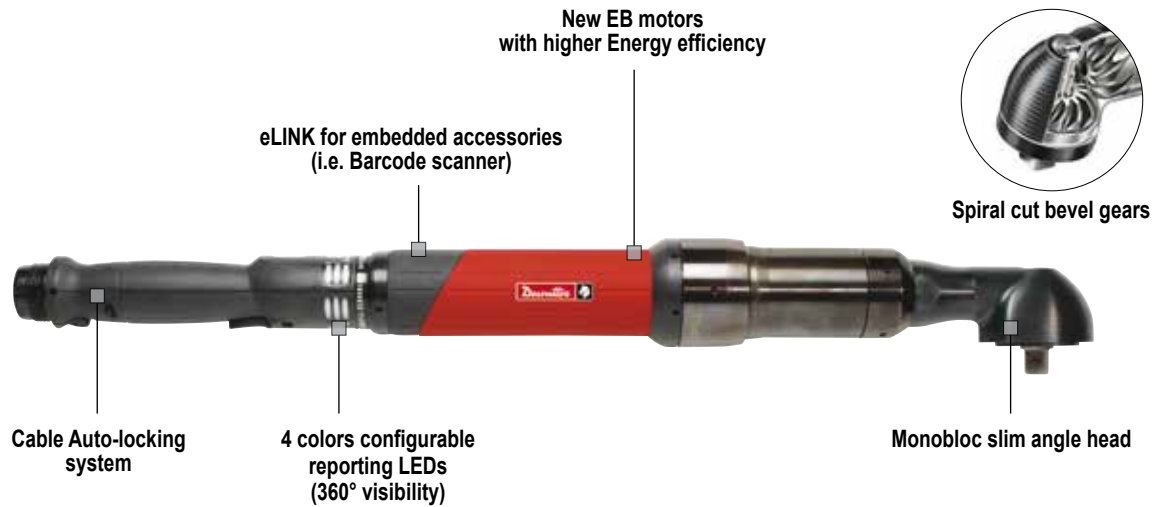
	PART NO.
• CVI CONFIG - 1 user	615 927 699 0
• CVI CONFIG - 5 users	615 927 700 0
• CVI CONFIG - 25 users	615 927 701 0
• CVI ANALYZER - 1 user	615 927 696 0
• CVI ANALYZER - 5 users	615 927 697 0
• CVI ANALYZER - 25 users	615 927 698 0
• CVINET WEB - 1 cont.	615 927 736 0
• CVINET WEB - 10 cont.	615 927 737 0
• CVINET WEB - 25 cont.	615 927 738 0
• CVINET WEB - 50 cont.	615 927 739 0
• CVINET WEB - 100 cont.	615 927 747 0
• CVINET WEB - 200 cont	615 927 748 0
• CVINET WEB - Open Protocol Adapter	615 927 758 0
• CVINET WEB - Notifier	615 927 076 0
• Upgrade from CVI NET to CVINET WEB 1 cont.	615 927 740 0
• Upgrade from CVI NET to CVINET WEB 10 cont.	615 927 741 0
• Upgrade from CVI NET to CVINET WEB 25 cont.	615 927 742 0
• Upgrade from CVI NET to CVINET WEB 50 cont.	615 927 743 0
• Upgrade from CVI NET to CVINET WEB 200 cont.	615 927 744 0
• CVIKEY (access level management on USB key)	615 927 676 0

OPTIONAL ACCESSORIES

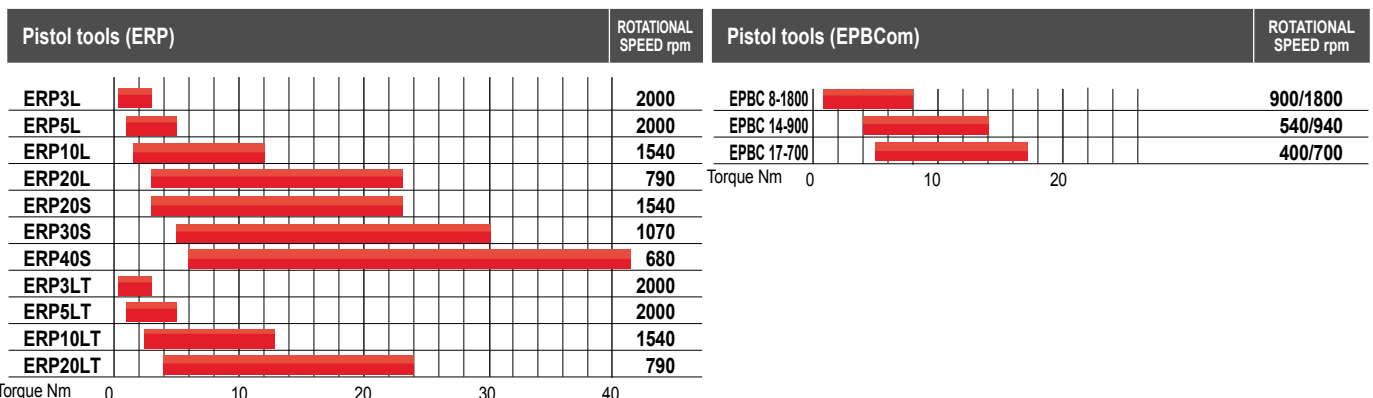
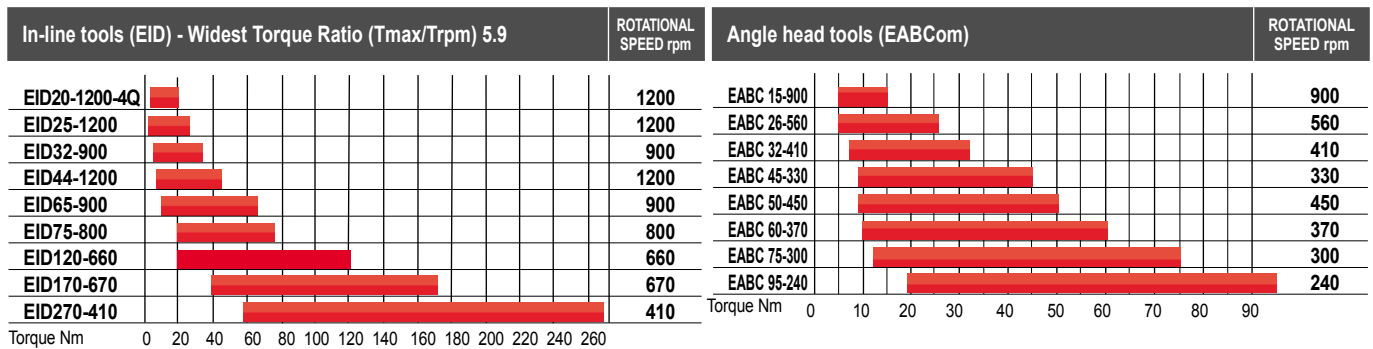
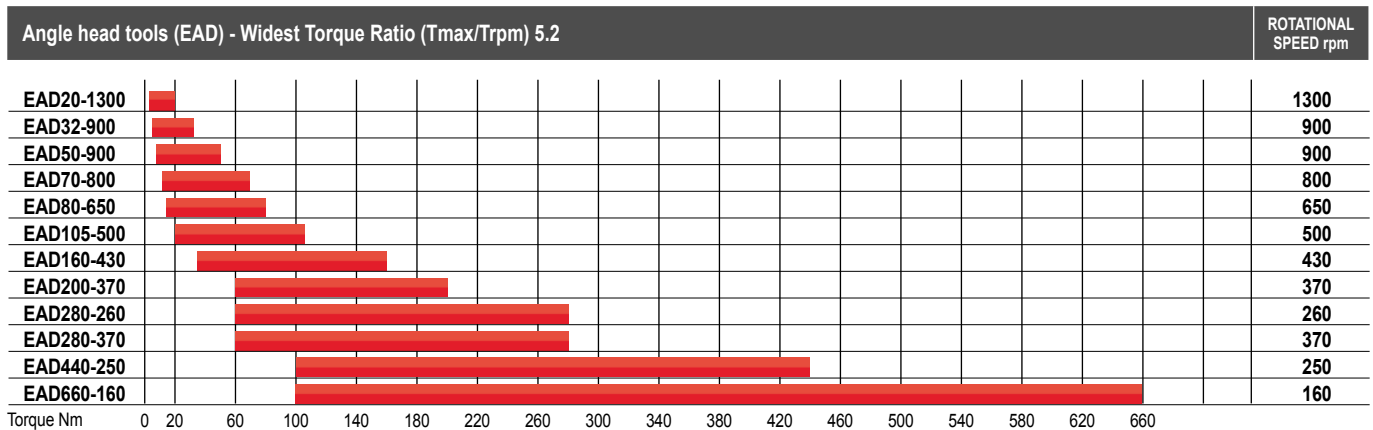
ITEM		PART NO.
Fieldbus modules		
1	Profibus module	615 927 595 0
2	ProfiNet module (1 port)	615 927 596 0
3	ProfiNet module (2 ports)	615 927 597 0
3	ProfiNet IRT module (2 ports)	615 927 070 0
4	DeviceNet module	615 927 599 0
4	CC-Link module	615 927 598 0
5	EtherNet IP module	615 927 594 0
6	Modbus 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



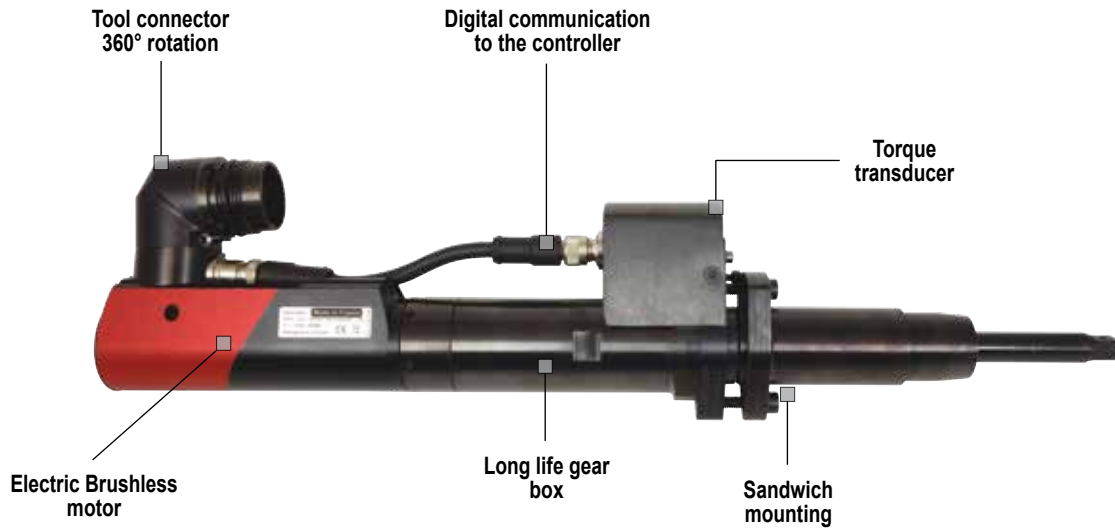
Torque Range - Portable electric nutrunners



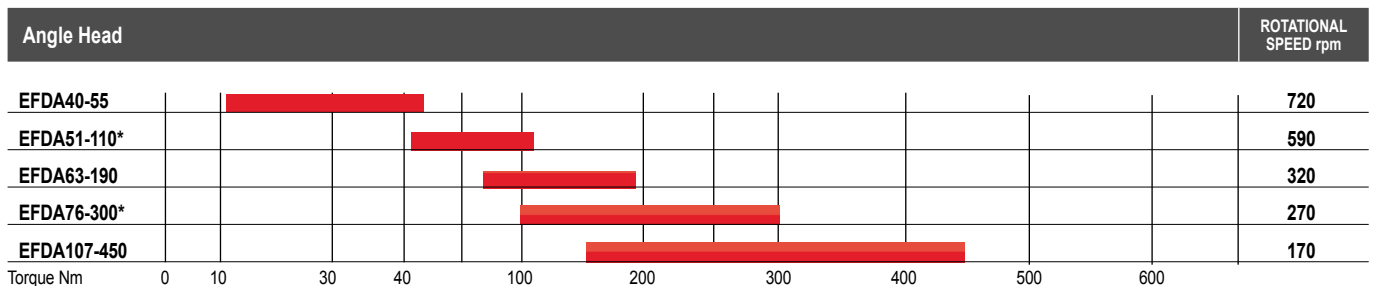
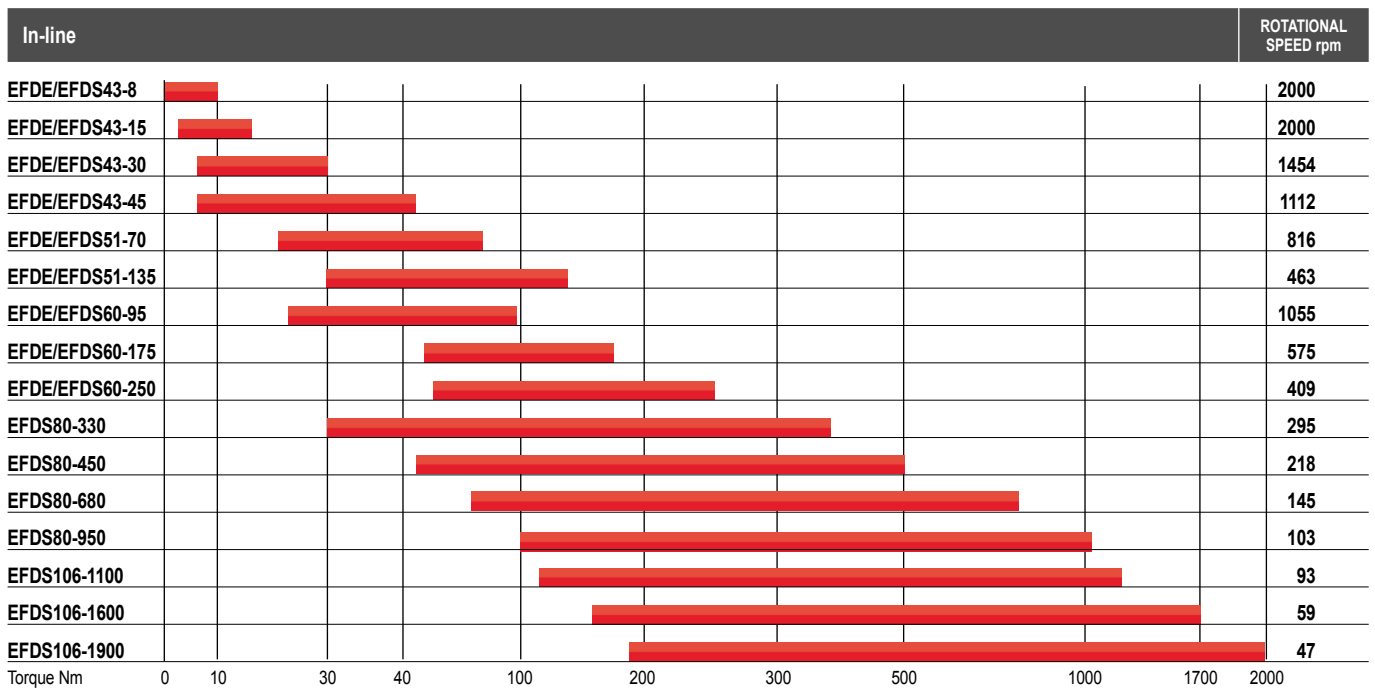
Performance of Portable electric nutrunners - EAD, EID, EABC, EPBC and ERP



Torque Range - Fixtured electric spindles



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



*On request, contact your Desoutter representative