

# Workgroup System

## A multi spindle machine up to 14 fixtured spindles

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

### All connection to the Primary :

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

## FIXTURED SPINDLES

**EFDE** : straight with telescopic output

**EFDS** : straight without telescopic output

**EFDA** : angle head

Fully compatible with EME range via the adaptor



## 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

### Transducer holders for EFDE tools

3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
3/4" Square drive EFDE60-175/250	615 396 428 0

### Miscellaneous

Spare transducer cable length 340mm (13.4")	615 917 426 0
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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
- Plastic zone
- 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, curves and events.

### Advanced Process control

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

# 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	-	-



**ACCESSOIRES**  
see page 46

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.

## EFDE – With removable telescopic module

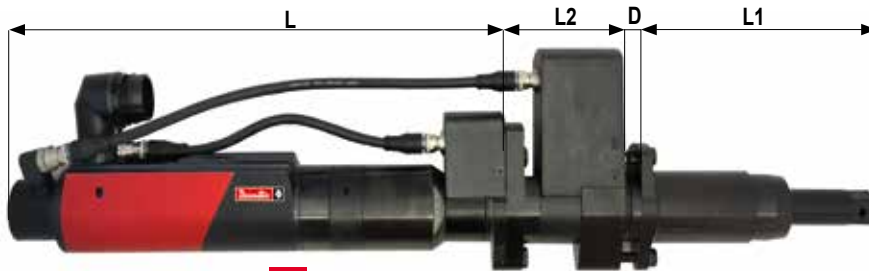
A	EFDE 43-8	615 165 864 0	3/8	1	8	10	0,7	5,9	7,4	2000	50	1.97	43	1.69
A	EFDE 43-15	615 165 865 0	3/8	3	15	17	2,2	11,1	12,5	2000	50	1.97	43	1.69
A	EFDE 43-30	615 165 866 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1.69
A	EFDE 43-45	615 165 867 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1.69
A	EFDE 51-70	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

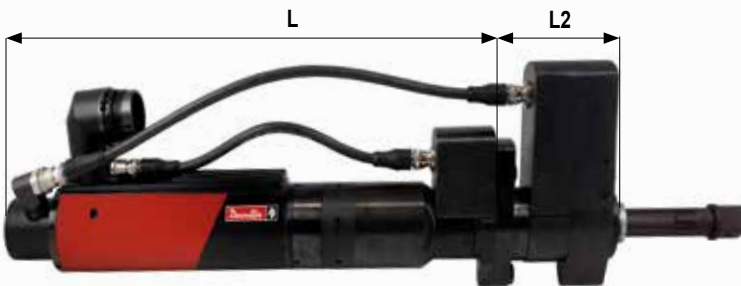
B	EFDS 43-8	615 165 907 0	3/8	1	8	10	0,7	5,9	7,4	2000	50	1.97	43	1.69
B	EFDS 43-15	615 165 908 0	3/8	3	15	17	2,2	11,1	12,5	2000	50	1.97	43	1.69
B	EFDS 43-30	615 165 909 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1.69
B	EFDS 43-45	615 165 910 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1.69
B	EFDS 51-70	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	276	10.9	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	276	10.9	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	311	12.2	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	311	12.2	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	357	14.0	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	357	14.0	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	373	14.7	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	373	14.7	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	373	14.7	203	8.0	98	3,86	16	0.63	5.3	11.7	1.87	4.12	2.8	6.17



**ACCESSOIRES**  
see page 46

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

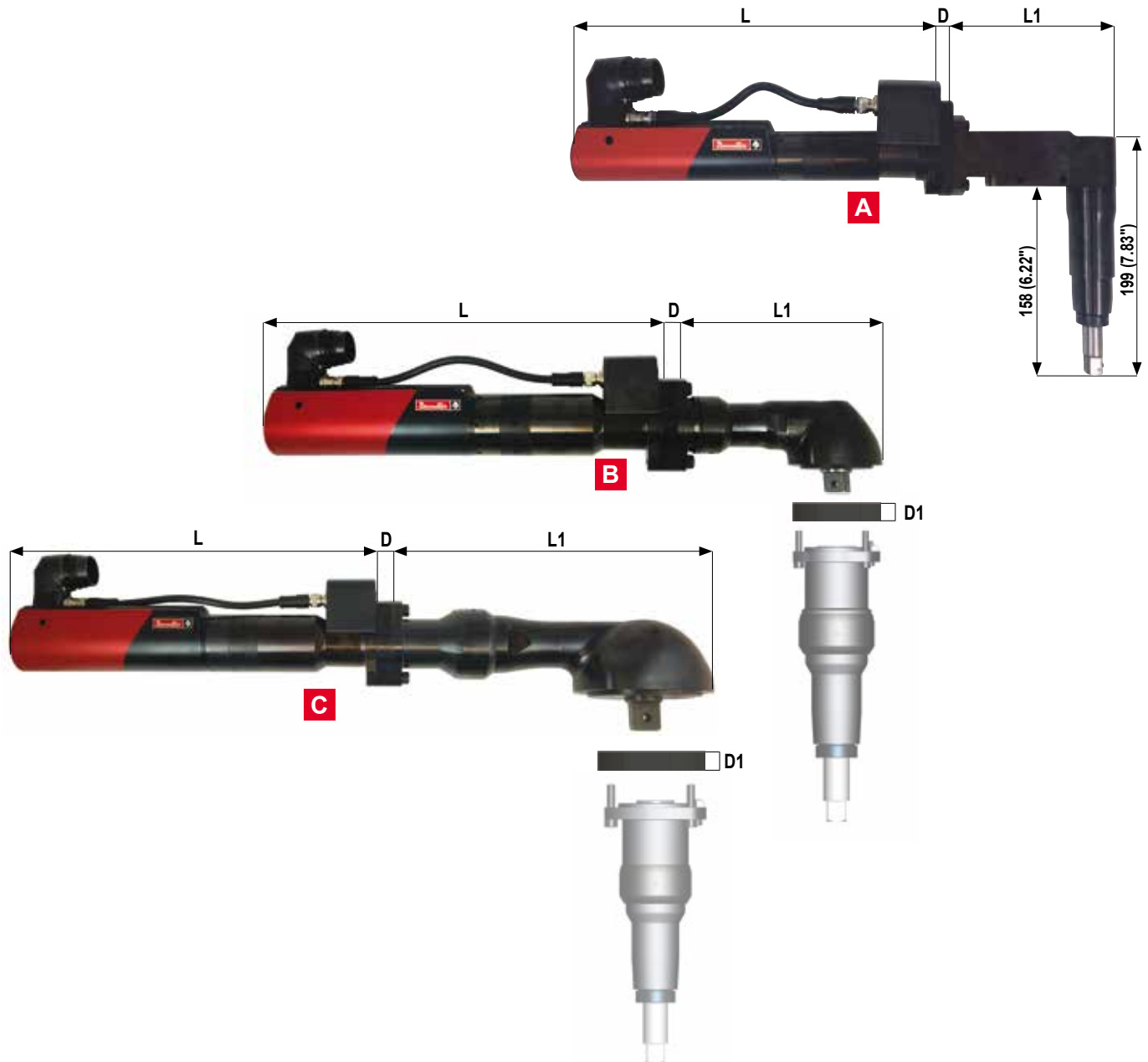
A	EFDE 43-15-TA	615 166 002 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
A	EFDE 43-30-TA	615 166 003 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
A	EFDE 43-45-TA	615 166 004 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
A	EFDE 51-70-TA	615 166 005 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	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



TELESCOPIC STROKE	LENGTH L2		D1		PART NO.	FOR MODEL	D		
	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 46

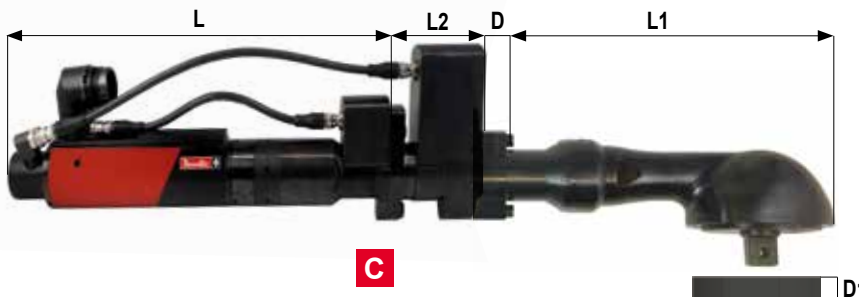
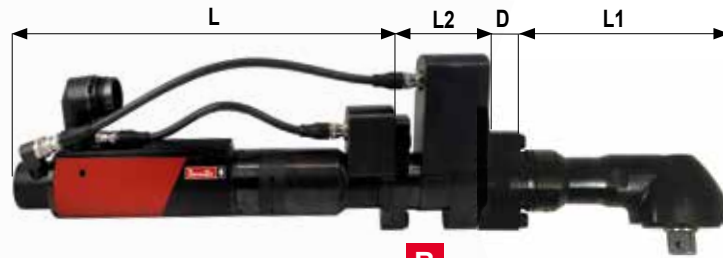
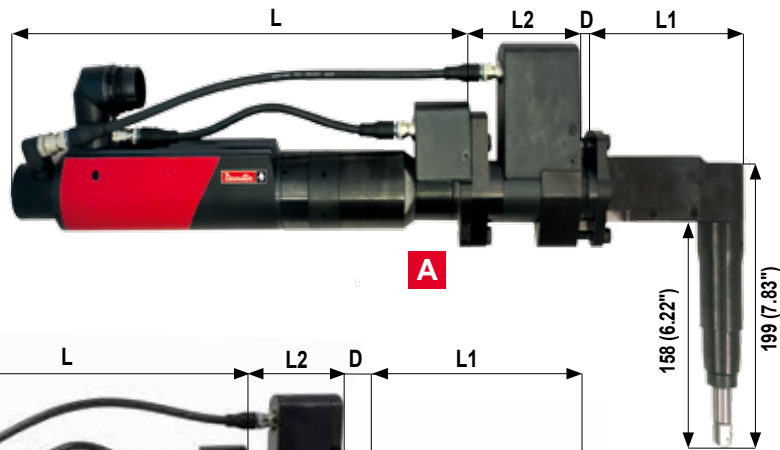
PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH				WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	TOOL L	ANGLE HEAD L1	mm	in.	kg	lb.
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	kg	lb.
<b>EFDA - Angle headed tools with integrated telescopic module</b>																		
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
<b>EFDA - Angle headed tools without telescopic module</b>																		
B	EFDA51-110*	-	1/2	45	110	150	33.2	81.1	111	590	51	2.01	373	14.7	168	6.6	7.2	15.8
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
B	EFDA76-300*	-	3/4	100	300	380	73.7	221	280	270	76	2.99	373	14.7	284	11.2	9.7	21.3
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


\*On request, contact your Desoutter representative



# Fixtured electric spindles - CVI3

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



 **ACCESSOIRES**  
see page 46

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	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.
<b>EFDA - Angle headed tools with integrated telescopic module</b>																						
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
<b>EFDA - Angle headed tools &amp; second transducer</b>																						
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 1m (3.3ft)	615 917 621 0
eBUS cable 3m (9.9ft)	615 917 622 0
eBUS cable 5m (16.4ft)	615 917 623 0
eBUS cable 15m (49.2ft)	615 917 624 0
eBUS Termination plug	615 917 625 0

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





## CVI3 Controllers

### OPTIONAL ACCESSORIES

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

## ERP / EAD / EID

### OPTIONAL ACCESSORIES

ITEM	PART NO.
<b>Suspension bail</b>	
8 Non swivelling - All tools up to EAD105/EID75	615 397 412 0
9 Swivelling - All tools up to EAD105/EID75	615 397 413 0
9 Swivelling - for tools EAD160/200/280-260 & EID120	615 571 072 0
<b>Front trigger</b>	
10 Mechanical kit for tools EAD20 to EAD105 & EID25 to EID75 (must be mounted on tool by authorized Desoutter service technician)	615 397 812 5
10 Electric kit for EAD20 to EAD32 & EID25 to EID32	615 911 013 5
10 Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 012 5
<b>Telescopic output for EID tools</b>	
11 3/8" for EID25/32	615 397 811 0
11 3/8" for EID44	615 398 178 0
11 1/2" for EID65/75	615 398 079 0
11 1/2" for EID120/170	615 398 080 0
11 3/4" for EID270/300	615 398 081 0
<b>Telescopic output for EAD / EFDA tools</b>	
12 1/2" for EAD160	615 398 076 0
12 3/4" for EAD200/280 & EFDA63-190	615 398 077 0
12 3/4" for EAD440	615 398 078 0
12 1" for EFDA107-450	615 398 161 0
<b>Angle head protection for EAD tools</b>	
13 For EAD20/32	615 573 207 0
13 For EAD50	615 573 208 0
13 For EAD70	615 573 209 0
13 For EAD80/105	615 573 210 0
<b>In-line protection for EID tools</b>	
14 For EID25/32	615 573 211 0
14 For EID44/65/75	615 573 212 0
<b>Finger Protection for EAD tools</b>	
15 For EAD20/32	615 397 635 0
15 For EAD50	615 397 636 0
15 For EAD70	615 397 637 0
<b>Miscellaneous</b>	
16 Handle lever	615 397 831 0
17 Trigger locker	615 397 842 0
18 Barcode reader + Headlight accessory - EAD/EID	615 812 138 0
19 Headlight accessory - EAD/EID	615 812 139 0
• Mounting plate for custom arm - EAD160/200/280/440/660	Contact Desoutter
<b>Desoutter Tool Holster</b>	
20 DTH42 (For ERP3/5/10/20/30)	107892
21 DTH90 (For ERP3/5/10/20/30)	615 812 119 0
22 DTH TWIN (single) without rail	615 811 411 0
23 DTH TWIN rail kit with 2 Twin holders	615 811 412 5
24 DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5
• D53 arms	See page 152
• TRA telescopic reaction arms	See page 162
• Balancers	See page 172
<b>ADAPTER FOR ERAL/ERDL/ERP/ EME AND ERS</b>	
25 CVI II Tool Adaptor	615 936 070 0
26 ERS module	615 936 537 0