Desoutter

Industrial Tools



EIDF

The new low torque spindle

BUILT FOR **AUTOMATION**

COMPACT BY DESIGN

ENGINEERED FOR **ACCURACY**

More Than Productivity



EIDF
THE NEW LOW TORQUE SPINDLE





REMOVE AUTOMATION **CONSTRAINTS**

Modern assembly cells demand flexibility.
EIDF helps machine builders and manufacturers simplify station design through a compact (21cm – 8.27 in) spindle architecture designed for automation from day one.

Designed to:
- Reduce robot and station footprint
- Simplify integration into existing lines
- Adapt cable routing to application constraints
- Enable fast installation in robotic and screwfeeding cells

ELIMINATE QUALITY **COMPROMISES**

Maintaining tightening accuracy across multiple applications can be challenging, especially at low torque levels.
EIDF delivers reliable fastening performance across a wide torque range thanks to integrated transducer technology.

Designed to:
- Ensure consistent tightening quality
- Reduce rework and scrap risks
- Support process traceability
- Improve first-time-right production

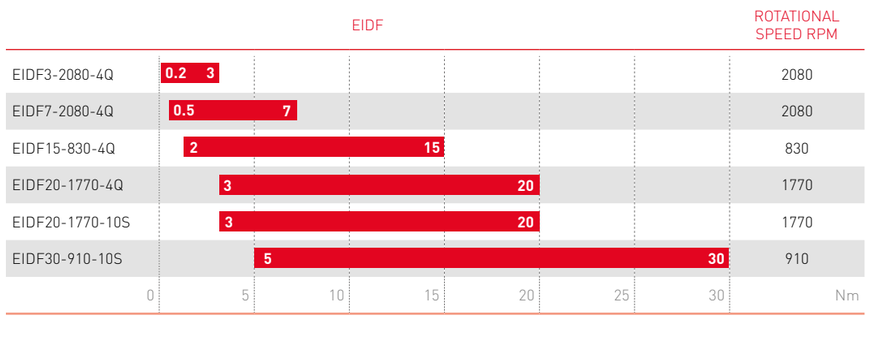
REDUCE UNPLANNED **DOWNTIME**

In automated production, even a simple maintenance operation can impact productivity.
EIDF is designed to simplify maintenance and keep production running.

Designed to:
- Minimize maintenance interruptions
- Simplify tool replacement
- Increase equipment availability
- Support long-term reliability

EIDF **RANGE**

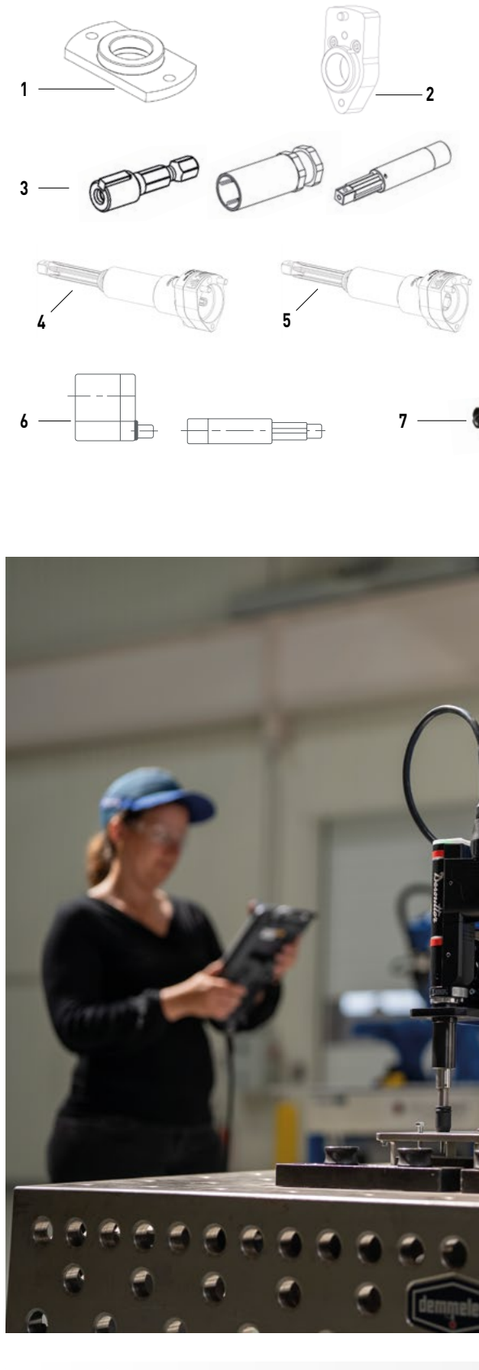




PIC	MODEL	PART NUMBER	OUTPUT DRIVE	SPEED	MIN TORQUE		MAX TORQUE		WEIGHT		TOOL LENGTH	
				rpm	Nm	ft/lb	Nm	ft/lb	kg	lb	mm	in
A	EIDF3-2080-4Q	615 166 355 0	Hex. ¼ F	2080	0.2	0.15	3	2.21	0.8	1.76	215	8.46
A	EIDF7-2080-4Q	615 166 356 0	Hex. ¼ F	2080	0.5	0.4	7	5.16	0.8	1.76	215	8.46
A	EIDF15-830-4Q	615 166 357 0	Hex. ¼ F	830	2	1.48	15	11.06	0.8	1.76	215	8.46
B	EIDF20-1770-4Q	615 166 358 0	Hex. ¼ F	1770	3	2.21	20	14.75	1	2.20	217	8.54
C	EIDF20-1770-10S	615 166 359 0	Sq. 3/8 F	1770	3	2.21	20	14.75	1	2.20	209	8.22
C	EIDF30-910-10S	615 166 360 0	Sq. 3/8 F	910	5	3,69	30	22.13	1	2.20	209	8.22



AVAILABLE **ACCESSORIES**



ITEM	DESCRIPTION	PART NUMBER
1	Flange (when remplacing ERSF)	205 052 875 3
•	Mounting plate for EIDF	615 961 592 0
2	EIDF adaptor to EFD mounting plate	615 961 593 0
3	Spring loaded shafts (please order the 3 references)	103782 + 108342 + 108412
4	Telescopic module Hex EIDF (for EIDF3-2080-4Q, EIDF7-2080-4Q, EIDF15-830-4Q, EIDF20-1770-4Q)	615 401 097 0
5	Telescopic module Square EIDF (for EIDF20-1770-10, EIDF30-910-10S)	615 401 604 0
6	Offset Head 30mm (1.18") & Shaft Spring loaded 3/8" SQ (please order both references)	384993 + 108342
7	Cables	See page 7

AUTOMATION SHOULD ADAPT TO YOUR APPLICATION. NOT THE OTHER WAY AROUND.

Many spindle integrations require compromises on routing, accessibility, or station layout.
EIDF was designed to integrate seamlessly into both new and existing automated assembly environments. Whether the application involves robots, screw feeders or fixtured systems, EIDF provides the flexibility required to simplify implementation.

EIDF IS DESIGNED FOR **FIXTURED APPLICATIONS**



ROBOT APPLICATION



with RAPID screwfeeding system



with eRAPID screwfeeding system

SCREWFEEDING APPLICATION

EASY INTEGRATION INTO **YOUR STATION**



M20 INTERFACE ON EIDF 3, EIDF 7 AND EIDF 15

To access the M20 interface for accessory installation, remove the cap.



FLANGE AVAILABLE ON ALL MODELS

To ensure accurate tool indexing and robust industrial integration.

In addition, dedicated mounting plates are available to fit your applications on existing and new lines.

CABLES

NEW CABLE

The EIDF comes with a new cable, the same as the one used on the EIDS series and the EPD range.



SUB-RANGE	MODEL	PART NUMBER
Cables	TOOL CABLE 2.5M	615 917 835 0
	TOOL CABLE 5M	615 917 836 0
	TOOL CABLE 10M	615 917 837 0
	TOOL CABLE 15M	615 917 838 0
Extensions	CABLE EXTENSION 8M	615 917 581 0
	CABLE EXTENSION 16M	615 917 584 0

Note: The total cable length (cable + extension) must remain below 30 meters.

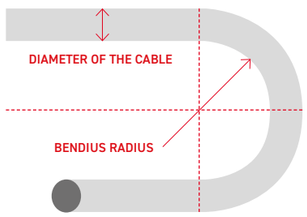
ROUTE THE CABLE AROUND YOUR APPLICATION

Reduce station redesign and simplify robot integration with front or rear cable routing from the same tool reference, thanks to a 180° rotatable cable connector.





BENDIUS RADIUS OF THE CABLE



CABLE	MINIMUM BENDIUS RADIUS		
Description	**Diameter (d)**	**Static use (5d)**	**Dynamic use (10d)**
EIDF / EPD / EIDS cable (CABLTO-XX-LT-XX)	10mm +/- 0.2mm	50mm	100mm

QUALITY REQUIREMENTS ARE INCREASING

As electronic assemblies become more sensitive and manufacturing environments more demanding, tightening equipment must contribute to process reliability rather than introduce risk.
EIDF helps manufacturers protect critical components while maintaining tightening performance.

EIDF IS **ESD-CERTIFIED**



Desoutter offers ESD-certified screwdrivers in its standard range, widely used in the electronics industry.

The EIDF range protect sensitive components from electrostatic discharge (ESD), which can cause invisible damage, reduce reliability, or lead to costly failures and warranty issues if no Electrostatic Protected Area (EPA) is in place.

Certified to IEC 61340-5-1 by SP, the Swedish National Testing and Research Institute, the EIDF will never hold an electrostatic potential above 100 V for more than 2 seconds, ensuring maximum protection for your components.

SOFTWARE **PACKAGE**

- EASY CONNECTIVITY AND A USER-FRIENDLY INTERFACE make for a fast installation and smooth commissioning
- ROBUST TOOLS AND HARDWARE BACKUP provide a reliable and safe station
- EASY UPGRADE CAPABILITIES AND FLEXIBILITY OF THE TOOL RANGE assure readiness for your future requirements
- ASSEMBLY QUALITY GUARANTEED with the process control and the error-proofing modules

cvi KEY
Create & manage tailor-made access rights per user profile

cvi CONFIG
Set up your systems point-to-point or on a network with a guided intuitive interface

cvi MONITOR
Live diagnostics for I/O and fieldbus for fast commissioning

cvi ANALYZER
Import, analyze tightening port, and data with results, curves, filters, and profiles

DEMETER Desoutter
Collect & store 100% tightening data in a real-time database with advanced analytics via a web-based software in service mode

POWERED BY THE **DESOUTTER ECOSYSTEM**

A tightening spindle alone cannot guarantee process quality.
EIDF leverages Desoutter's proven AXON and CVI3 platforms to provide process control, traceability, and production insight.

AXON & CVI3 (VISION, FUNCTION, TWIN)



AXON - SX + DRIVE

AXON is a unique platform designed to fit all applications.It collects and monitors live data to ensure real-time error-proofing. With AXON, you gain access to Feature Management - a scalable solution that gives you exactly what you need. We offer three AXON packages tailored to match your applications, including the AXON controller and its module. With the AXON controller, you benefit from an embedded web user interface that gives you access to results and data anytime, anywhere, with no limit on the number of simultaneous users.

Learn more on our website.

	DESCRIPTION	DETAIL	PART NO.
	AXON Drive	AXD	615 932 780 0
	AXON Module SX	AXM-SX	615 932 783 0
PACK	AXON-SX Essential	AXD + AXM-SX + TU Essential	615 932 797 0
PACK	AXON-SX Core	AXD + AXM-SX + TU Core	615 932 795 0
PACK	AXON-SX Premium	AXD + AXM-SX + TU Premium	615 932 796 0
PACK	AXON-SX Max	AXD+AXM-SX+TU Premium + Extra Features	615 932 806 0
ESTOP	AXON Drive-eSTOP	AXON Drive with eSTOP function	615 932 781 0
ESTOP	AXON-SX Essential-eSTOP	AXON Drive with eSTOP function + AXON Module + TU Essential	615 932 804 0
ESTOP	AXON-SX Core-eSTOP	AXON Drive with eSTOP function + AXON Module + TU Core	615 932 802 0
ESTOP	AXON-SX Premium-eSTOP	AXON Drive with eSTOP function + AXON Module + TU premium	615 932 803 0
ESTOP	AXON-SX Max-eSTOP	AXON Drive with eSTOP function + AXON Module + TU premium + Extra features	615 932 805 0

AXON eSTOP and CVI3 eSTOP feature an integrated, and certified Emergency Stop function compliant with IEC 62841, enhancing operator safety.
Recommended for use in automated machines to help ensure compliance with the European Machinery Regulation (EU) 2023/1230.



CVI3 FUNCTION

All essential features with button keypad interface.

MODEL	PART NO.
CVI3 FUNCTION	615 932 690 0
CVI3 FUNCTION E-STOP	615 932 693 0



CVI3 VISION

User friendly with touchscreen interface and extend with battery tools possibilities.

MODEL	PART NO.
CVI3 VISION	615 932 691 0
CVI3 VISION E-STOP	615 932 694 0



TWINCVI3 VISION

Compact controller With 2 tool channels.

MODEL	PART NO.
TWINCVI3	615 932 697 0
TWINCVI3 E-STOP	615 932 698 0

MAINTENANCE & CALIBRATION

MAXIMISED UPTIME, CONSISTENT QUALITY, EXTENDED LIFESPAN

	TOOL CALIBRATION	PREVENTIVE MAINTENANCE	WARRANTY PACK
Machine Capability Test (MCT) 30 measurements MCT Certificate at Desoutter workshop Traceable to national standards, Tool adjustment, pass/fail statement	✔	✔	✔
Preventive Maintenance and wear parts replacement[1] Incoming inspection at the nearest Desoutter workshop Disassembly and spare parts evaluation[2] Wear parts replacement[3], Cleaning and greasing, final performance verification [1] Once per year or before the number of tightenings stated in the Preventive Maintenance plan, whichever comes first [2] A quotation is issued if other parts should be replaced [3] Wear parts included		✔	✔
Proactive and Reactive Repairs Fixed budget including labour, genuine spare parts and Capability test Proactive repairs4 and reactive repairs, at the nearest Desoutter workshop [4] All Spare parts replaced when needed, labour included			✔
Circularity When possible, we repair spare parts and reuse components, contributing to lowering your maintenance CO_2 footprint and adding circularity to your maintenance			✔



MAINTENANCE & CALIBRATION

INCREASED **UPTIME**

- Less breakdowns with preventive maintenance

IMPROVED **PRODUCTIVITY**

- Quality is OK first time with preventive maintenance and calibration

INCREASED **LIFESPAN**

- Extend your tool's lifetime from preventive maintenance

REDUCED **ENVIRONMENTAL IMPACT**

- CO_2 and material savings from preventive maintenance

NOTES

More Than Productivity

English
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