

MINIMAT-ED Digital Electric Screwdriver

Straight handle design: torque ranges between 0.24 - 4.8 Nm



- flexible
- economical
- comfortable
- process reliable
- robust

A good team: The MINIMAT-ED handheld screwdriver, combined with the ComCenter ED, is the ideal solution for a wide range of applications. The upgraded ComCenter ED has impressive new features alongside the tried and tested characteristics of the handheld screwdriver which remain unchanged.

The powerful MINIMAT-ED is available in three versions for torques between 0.24 to 4.8 Nm at speeds of 1500 rpm. The speeds can be individually adjusted up to the maximum speed for each screwdriver type. The handheld screwdriver also benefits from a particularly slim design and is comfortably lightweight.

The MINIMAT-ED is recommended for a wide range of applications, particularly for workplaces with varying tightening parameters. There are opportunities for use in controller and control cabinet installations, in reworking stations, in series production or in repair facilities.

MINIMAT-ED Handheld Screwdriver

Advantages:

Flexible

The required torque can be set directly on the screwdriver by the push of a button.

Economical

Attractive purchase price and compact size due to the fully integrated controller.

Ergonomic

- End value displayed on the screwdriver
- Trigger-start or push-to-start
- Adjustable search run
- Speed for each step is adjustable
- Programming using tablet/smartphone via ComCenter ED
- Integrated quick change chuck for easy bit/socket exchange
- Suspension hanger for balancer hookup
- Low noise level
- Ergonomic design
- Flexible power cable

Process reliable

- Torque precision
- Password protected against unauthorized changes to the preset parameter
- Good/Bad cycle indication by LED lights red/green
- ESD-safe
- Integrated diagnostics

Robust

As robust as all DEPRAG MINIMAT screwdriver series: absolutely reliable and renowned for durability. The brushless drive enables high performance with low

Torque accuracies of < 3% standard deviation and thus Cmk values of \geq 1.67 with a tolerance of \pm 15% can be reached * with MINIMAT-ED handheld screwdrivers. Statistically speaking, the error rate is less than

*) under suitable process conditions

maintenance requirements. 0.6 per one million screw assemblies.

ComCenter ED - now with new features

The ComCenter ED enables user-friendly parameterisation of screwdriving programs using the web interface. The integrated input/output port can now also be used to select MINIMAT-ED screwdriving programs. In addition, an external start release of the screwdriver is available. The main advantage: If this function is activated, the handheld screwdriver can be used in combination with other products or a higher-level PLC.

This value-for-money option presents attractive opportunities. One example is combination with a position control stand (PKS). Only when the screwdriver has reached the right position is the correct screwdriving program selected and the start approval given.

Furthermore, there is the option of use in applications where sensors are used for supervision, such as in the detection of components, pick-and-place procedures or the use of a toolbox or scanner.

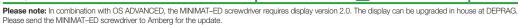
Your advantages:

- flexible
- low cost solution
- for varying tightening parameters

ComCenter ED - comparison of the software

upgraded communication

Characteristics	ComCenter ED in combination with standard software OS BASIC	ComCenter ED in combination with software OS ADVANCED	
Maximum number of screwdriving programs	5 tightening programs / 5 loosening programs		
Maximum number of program steps	3	25	
Tightening to torque	$\overline{\checkmark}$	$\overline{\checkmark}$	
Tightening to torque with angle control	×	√	
Tightening to angle	$\overline{\checkmark}$	$\overline{\checkmark}$	
Tightening to angle with torque control	×	$\overline{\checkmark}$	
Loosening to angle	$\overline{\checkmark}$	$\overline{\checkmark}$	
DEPRAG Friction Value Process	×	√	
Search run / save values / waiting time	×	$\overline{\checkmark}$	
Statistics	×	√	
Automatic speed reduction	×	$\overline{\checkmark}$	
Documentation	7 days production	7 days production	
DEPRAG Operator Guidance	×	$\overline{\checkmark}$	
Communication interfaces	I/O interface	I/O interface and http interface	
Category B (VDI/VDE 2862)	$\overline{\checkmark}$	$\overline{\checkmark}$	
Category C (VDI/VDE 2862)	V		





SYSTEM COMPONENTS

MINIMAT-ED SCREWDRIVER	Туре	330EG36-0012	330EG36-0018	330EG36-0032	330EG36-0048
Straight handle design, size 36	Part no.	440000A	440000B	440000E	440000C
Torque min.	Nm / in.lbs	0.24 / 2.1	0.36 / 3.2	0.64 / 5.66	1.0 / 8.85
Torque max.	Nm / in.lbs	1.2 / 10.6	1.8 / 15.9	3.2 / 28.3	4.8 / 42.5
Speed	rpm	1500	1500	1200	900
Diameter	mm / in.	36 / 1.4	36 / 1.4	36 / 1.4	36 / 1.4
Length	mm / in.	290 / 11.3	290 / 11.3	290 / 11.3	290 / 11.3
Weight	kg / lbs.	0.75 / 1.65	0.75 / 1.65	0.75 / 1.65	0.75 / 1.65
Noise level	dB(A)	63	63	65	65
Internal hex drive DIN ISO 1173		F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")
Suitable inserting tools and connection		·			
parts with inserting end DIN ISO 1173		E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")

Required accessories

Motor cable	length 2 m/6.6 ft.	Туре	Part no.	KS4-2M	151515A
alternatives					
Motor cable	length 5 m/16.5 ft.	Type	Part no.	KS4-5M	151515B
Motor cable	length 8 m/26.4 ft.	Туре	Part no.	KS4-8M	151515C
Motor cable	length 10 m/33 ft.	Type	Part no.	KS4-10M	151515D
Power unit			Part no.	NG300-ED	126422A
Power supply cable (EU) alternatives	length 2 m/6.6 ft.	Туре	Part no.	KN-C13/EU	833790
Power supply cable (USA)	length 2 m/6.6 ft.	Type	Part no.	KN-C13/US	833791
Power supply cable (UK)	length 2 m/6.6 ft.	Туре	Part no.	KN-C13/UK	833792
Power supply cable (China)	length 2.5 m/8.25 ft.	Туре	Part no.	KN-C13/CN	832927
Power supply cable (Brazil)	length 1.8 m/5.94 ft.	Туре	Part no.	KN-C13/BR	207388

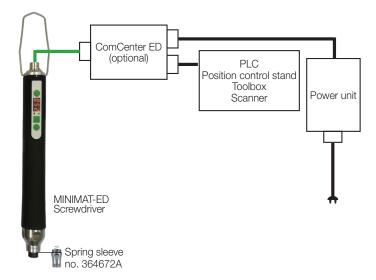
ComCenter ED Part no.		with software OS BASIC 103196A	with software OS ADVANCED 103196B	
Optionally available software solutions:				
Upgrade to software OS ADVANCED activation key	Part no.	160491	-	
DEPRAG Friction Value Process activation key	Part no.	-	201820	
DEPRAG Operator Guidance activation key	Part no.	146536	146536	
DEPRAG Cockpit Advanced 1/5/10/20/50 licenses	Part no.	145795/145796/145797/145798/145799	145795/145796/145797/145798/145799	
DEPRAG Cockpit Professional 1/5/10/20/50 licenses	Part no.	145440/142967/142968/142978/142979	145440/142967/142968/142978/142979	

ComCenter ED with older software versions can be upgraded by ordering an update (part no. 117234).

Optional equipment

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Toolbox	Туре	TB 7	
Technical data:	Part no.	398097B	
Tool holders		7	
Tool size	mm/in.	up to Ø 24/0.9 (AF 19)	
Voltage	V	DC 24	
Amperage	mA	100	
Input/output interface		SUB-D 15 pin connector	
Start signal		4-pin connector	
Dimensions (W x H x D)	mm/in.	225 x 50 x 120 / 8.8 x 1.9 x 4.7	
Weight	kg/lbs.	1.2 / 2.6	
Connection cable ComCenter ED - Toolbox	Part no.	122840A (length 5 m/16.5 ft.)	
Spring sleeve cpl.	Part no.	364672A	
Spring sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting tools D3320E)	Part no.	364672C	
Screwdriver adaption	Part no.	118246B	
Connection cable ComCenter ED - PKS	Part no.	101289D	
Connection cable ComCenter ED - PFC100	Part no.	952227A	
Router	Part no.	127545A	
		The router enables direct WiFi access to the ComCenter ED for use as an Access Point. It is operated via the Ethernet port (RJ45) of the ComCenter ED. This means that settings can easily be changed or screwdriving programs created or adjusted at any time with a smartphone, tablet or other mobile device.	

Additional accessories for integration in the manual work station can be found in our brochure D3345E. For more details to the software products, please see brochure D3900E.



It is necessary to use a torque support (e.g. stand, handgrip) for torque: over 4 Nm for straight design and over 10 Nm for pistol grip. Suitable torque supports can be found in our brochure D3345E.