



DEPRAG

NEW

MINIMAT-E EC-Electric Servo Screwdriver Handheld, Angle-Head Design

**The brushless, EC-electric Screwdriver
for torque ranges of 7 – 60 Nm (62 – 531 in.lbs.)**

The DEPRAG EC-Electric Servo Screwdriver allows the free programming of the screw-tightening process. Within the performance range of the Screwdriver, torque, speed, stand-by and turn-direction may be individually adapted to fit the required tightening process.

The integrated torque- and angle measurement permits the exact control and supervision of the tightening process, as well as the documentation of important processing parameters. Thus, the highest possible precision during the tightening process is guaranteed.

The brushless EC-motor is the reason for the maintenance-free operation, eliminating wear-and-tear parts. It also achieves a high motor dynamics and is capable of reaching the necessary high peak-torque required for fastener tightening.



Technical Data

Screwdriver reversible	type order no.	315EWT58-0350-E10 399853 B	315EWT58-0600-E12 399853 A
Line voltage (DC)	V	300	300
Torque min.	Nm / in. lbs	7 / 62	12 / 106
Torque max.	Nm / in. lbs	35 / 310	60 / 531
Speed min.	rpm	50	25
Speed max.	rpm	800	550
Diameter	mm / in.	58 / 2 9/32	58 / 2 9/32
Length	mm / in.	550 / 21 21/32	550 / 21 21/32
Weight	kg / lbs.	2,4 / 5,28	2,4 / 5,28
Noise level	dB (A)	62	62
External square drive	DIN 3121	E 10 (3/8")	E 12.5 (1/2")
Torque measuring system			
DMS (strain gage) fully bridged accuracy classification		yes 1	yes 1
Angle encoder channel resolution	degree	A-B 1	A-B 1

Please also find suitable tool inserts in our brochure D 3320 E.

Required Accessories		type	order no.
Sequence controller	EU US	AST 30-31-230 V AST 30-31-115 V	385455 A 385455 B
Power unit (AC)	V / Hz V / Hz		230 / 50 (60) 115 / 50 (60)
Power consumption	VA		800
Insulation			IP 54
LC-display			4 lines
Membrane keyboard			yes
USB interface			yes
Profibus			yes
Ethernet			optional
Amount of connectable drivers			1
Dimensions (W x H x D)	mm / in.		170 x 295 x 340 / 6 11/16 x 11 39/64 x 13 3/8
Weight	kg / lbs.		9.5 / 20.9 (EU) / 9.7 / 21.3 (US)
Programming kit no. 385426 C (consisting of operating manual, software package and programming cable) is a single standard component of the sequence controller.			
Motor cable (screwdriver – sequence controller)		type	order no.
Standard length	5 m / 16.4 ft.	KMO-AST30-31-5 m	404908 A
Alternative length	8 m / 26.2 ft.	KMO-AST30-31-8 m	404908 B
	12 m / 39.4 ft.	KMO-AST30-31-12 m	404908 C

Optional Equipment	type	order no.
PC-Software	TC 30-PC	828560
TC 30-PC statistic		828634
TC 30-PC data logger		829085
(additional modules at request)		
TC 30-PC to QS-STAT conversion program **)		830458
Software Expansion:		
Shut-Off at effective torque		829613
Friction dependent tightening torque		829614
Remote display keypad module (incl. connecting cable 3 m / 10 ft.) additional length available	AST 30-DT	388727 A
Ethernet-Module	AST 30-EN	388729 A
Programming cable PC to AST 30-31 (USB)		831420
Printer ND 100 *)		823476
Cable AST 30-31 to ND 100		385419 A
Data cable AST 30-31 to PC		385423 A
Support Stand for AST 30-31		947405 A
Suspension ring		406767 A

*) for additional technical data please see our catalog D3022 E

**) only in connection with Data Logger program

To operate the Screwdriver, a sequence controller (AST 30-31) with integrated power supply and a motor-cable is necessary. The motor-cable is available in different lengths.

The sequence controller already contains ready-to-use basic programs with common tightening processes, so that the operation can take place using just a few steps. This necessitates the connection to a standard PC with the supplied, very userfriendly Windows®-Software TC 30-PC. Current Software-Updates (Statistics, etc.) can be supplied as options on special request.

The integrated display- and operating keypad visualizes the operating conditions and screwdriving results and it also allows the direct changing of screwdriving parameter (i.e. Speed, Shut-Off Torque) required for the production-process - without having a PC-connection.

Over the operating keypad or the I/O-port of the controller it is possible to change the two available default screwdriving programs. Once the cycle finishes, a status signal is optically displayed on the Screwdriver and also reported back to the PLC, if a PLC is used.

When using this EC-system with a PLC, then the communication can be made using the standard supplied Profibus port.

When using either bus-ports, Profibus or Ethernet (optional) and if those ports are connected with an IP-system, then the complete assembly process (screwdriving-curve, statistics, archiving) and the data-exchange between computers is possible.

When the Data Logger program (Optional Equipment) is used, it is possible to transfer the measuring data of several controllers to a PC using different ports (i.e. USB, Ethernet).

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