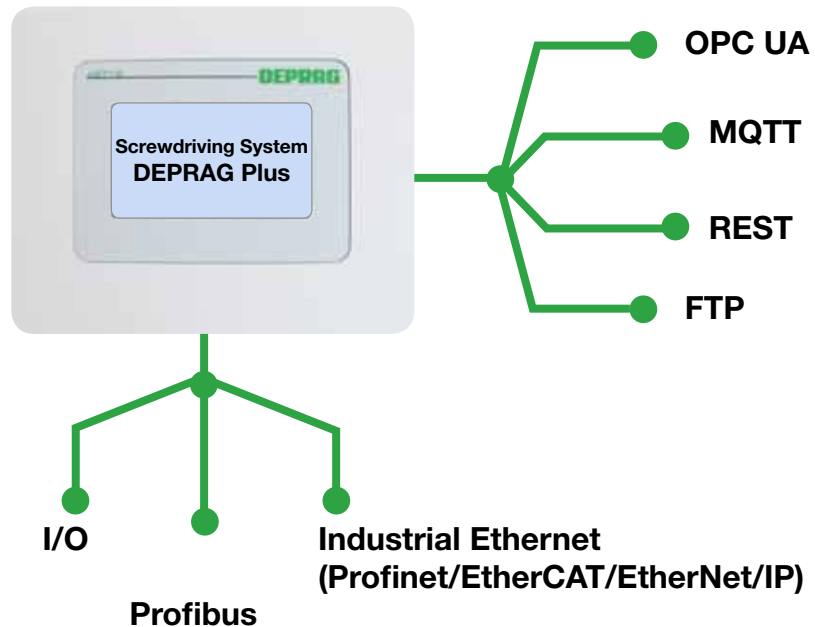


SCREWDRIVING SYSTEM **DEPRAG Plus**



+ CONNECTIVITY

Interfaces



DEPRAG Cockpit

Maintain an overview of your screwdriving systems with the DEPRAG Cockpit. The software enables supervision and analysis of assembly tasks (condition monitoring) and provides analysis tools for continuous process optimization, recognition of trends and predictive maintenance. The DEPRAG Cockpit can even be used to supervise and analyse screwdriving systems from other manufacturers.



DEPRAG Cockpit

As part of the screwdriving system DEPRAG Plus you also receive in the DEPRAG Cockpit Basic **your central user interface** in responsive design

- for parameterisation

- administration of global settings
- creation and organisation of screwdriving programs
- activation of additional features under DEPRAG Apps
- creation of back-ups and logic functions

- for visualisation

- processing data acquisition for single user

- for documentation

- automatic processing data acquisition of end values and screwdriving curves



Organizer

Organize screwdriving programs > create program groups:

- Simple structuring of screwdriving programs according to component version or product
- Fast change of screwdriving programs for different product versions > saves assembly time
- Easy retrieval of screwdriving programs relating to a specific product

Back-up function

Convenient back-up of system settings, screwdriving parameters, screwdriving results and screwdriving curves

Optionally available:

The DEPRAG Cockpit Professional models - in addition to the pre-installed Basic model, processes can be analysed and optimised. Assembly lines, workstations and assembly systems can be managed and displayed centrally and maintenance schedules can be pre-planned. The DEPRAG Cockpit Professional provides **one single** platform for all aspects of screwdriving technology.

Further information can be found in our catalogue D3900 Software solutions and updates.

WLAN Client

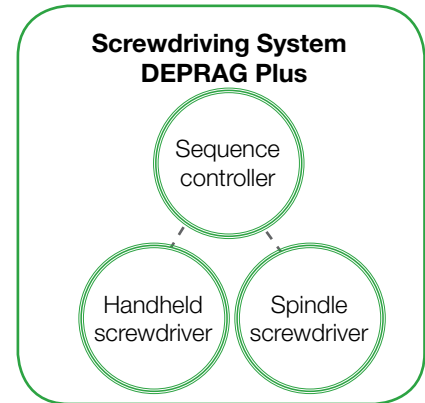
- Wireless connection
- Perfect in restricted areas
- External wireless parameterization
- Secure connection > https



+ FLEXIBILITY

Screwdriving System DEPRAG Plus – ONE system for DEPRAG handheld and spindle screwdrivers

- Extremely versatile for changing assembly requirements
- Reduces training needs
- Intuitive operator guidance with the DEPRAG Cockpit



DEPRAG Apps

Software solutions

- DEPRAG Cockpit
- DEPRAG Graph Viewer
- DEPRAG Data eXchange
- DEPRAG Operator Guidance
- Visualisation of the process
- Safety & Change tracking
- TIA Link
- TwinCAT Link

Industry 4.0 interfaces

- OPC UA, MQTT, REST, FTP

Fieldbus interfaces

- EtherNet/IP, EtherCAT, Profinet, Profibus

Screwdriving procedures

- Torque controlled
- Angle controlled
- Clamp Force Control (seating point detection)
- Friction procedure (friction dependent torque assembly)

Software updates

Update service and safety package

- one-time
- annual licence

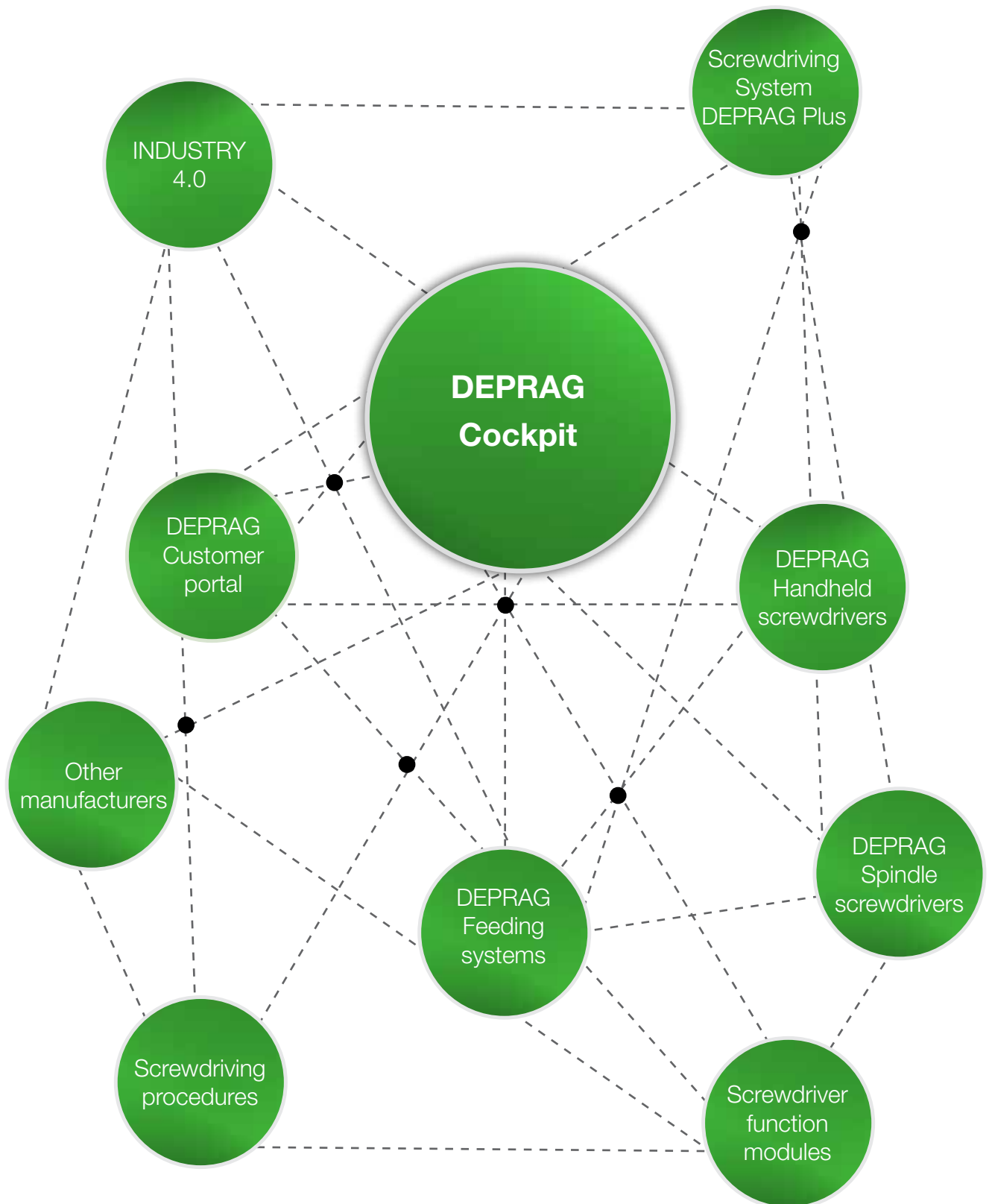


Logic functions

Logically link various assembly sequences to guarantee optimal processing reliability, such as scanning, part lock, screw position monitoring, ...

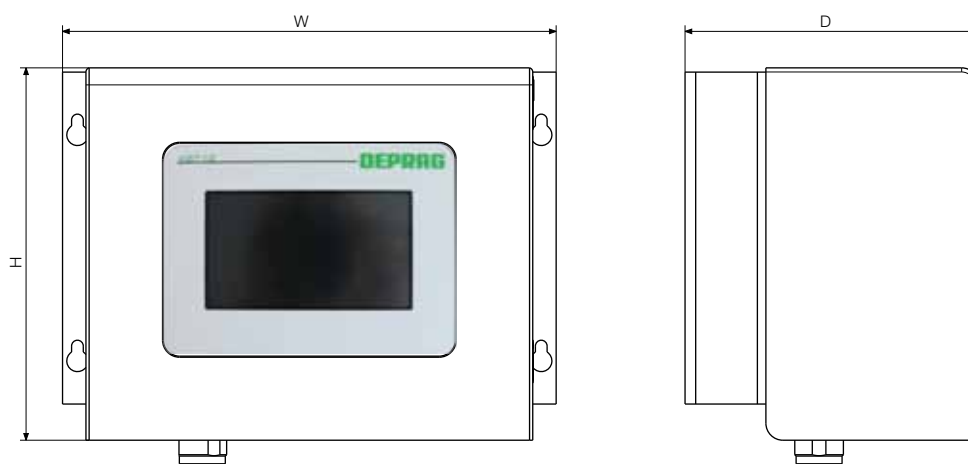


Fit for the future ...
with the DEPRAG Cockpit Platform



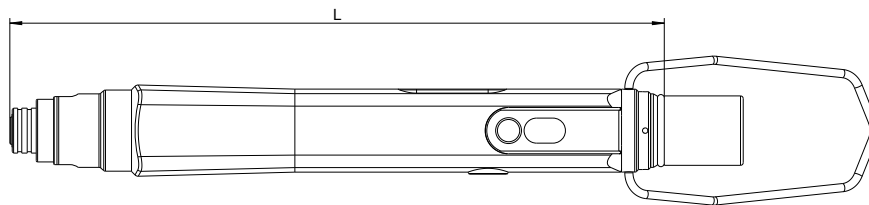
SCREWDRIVING SYSTEM DEPRAG Plus | TECHNICAL DATA SEQUENCE CONTROLLER

Type Part no.	AST12-1 115001A	AST12-1 PB 115001B	AST12-1 IE 115001C
Software DEPRAG Cockpit Basic is already pre-installed			
Max. number of programs saved	1000		
Max. number of screwdriving curves saved (graphic data)	1000		
Max. number of screwdriving results saved	last 7 days complete (> 80.000 in 24h)		
Interfaces	EA = inputs/outputs	EA = inputs/outputs PB = Profibus	EA = inputs/outputs IE = Profinet/EtherCAT/EtherNet/IP
Display	Graphic display with touch feature (capacitive)		
Industry 4.0 interfaces	REST OPC UA MQTT FTP		
Power connection	V / Hz	85-264 / 50-60	
Protection class		IP40	
Dimensions (W x H x D)	mm/in.	232 x 175 x 138 / 9.05 x 6.8 x 5.38	
Weight	kg/lbs	3.8 / 8.36	
Required accessories:			
Power cable EU US UK Brazil China	Part no.	833790 833791 833792 207388 832927	
Optional accessories:			
Base stand	Part no.	120234A	



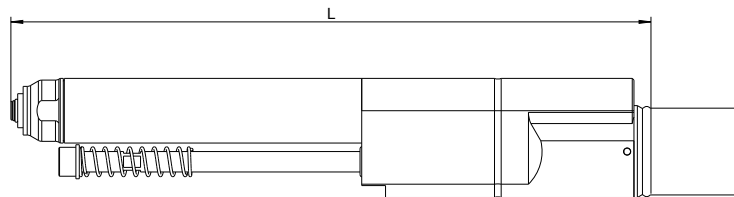
SCREWDRIVING SYSTEM DEPRAG Plus | TECHNICAL DATA HANDHELD SCREWDRIVER, straight design

MINIMAT-EC Handheld screwdriver Straight design, push-to-start		Type Part no.	321EGA27-0010 503042A	321EGA27-0018 503042B	321EGA27-0024 503042C	321EGA27-0042 503042D
MINIMAT-EC Handheld screwdriver Straight design, lever start		Type Part no.	321EGT27-0010 503043A	321EGT27-0018 503043B	321EGT27-0024 503043C	321EGT27-0042 503043D
MINIMAT-EC Handheld screwdriver In combination with feeder		Type Part no.	-	321EGZ27-0018 503044B	321EGZ27-0024 503044C	321EGZ27-0042 503044D
Torque accuracy			2 % standard deviation			
Torque range from to	Nm/in.lbs		0.15 - 1 / 1.33 - 8.85	0.4 - 1.8 / 3.54 - 15.9	0.4 - 2.4 / 3.54 - 21.2	0.7 - 4.2 / 6.2 - 37.2
Speed range from to	rpm		50 - 1000	100 - 1000	50 - 700	40 - 400
Diameter	mm/in.		30.5 / 1.2	30.5 / 1.2	30.5 / 1.2	30.5 / 1.2
Length	mm/in.		238 / 9.3	238 / 9.3	238 / 9.3	251 / 9.8
Weight	kg/lbs		0.58 / 1.3	0.58 / 1.3	0.58 / 1.3	0.63 / 1.4
Noise level	dB (A)		60	60	60	60
Internal hex drive with quick change chuck DIN ISO 1173			F6.3 (¼")	F6.3 (¼")	F6.3 (¼")	F6.3 (¼")
Connection parts with inserting end DIN ISO 1173			E6.3 (¼")	E6.3 (¼")	E6.3 (¼")	E6.3 (¼")
Used with sequence controller			AST12-1 AST12-1 PB AST12-1 IE			
Required accessories:						
Motor cable straight design	Length 2.5m 5m 8m 12m		117352A 117352B 117352C 117352D			
Motor cable with angle connector	Length 2.5m 5m 8m 12m		117353A 117353B 117353C 117353D			
Optional accessories:						
Spring sleeve cpl., without suction			364672A			
Spring sleeve cpl., with suction			364672C			
Support ring			389775C			



SCREWDRIVING SYSTEM DEPRAG Plus | TECHNICAL DATA SPINDLE SCREWDRIVER, straight design

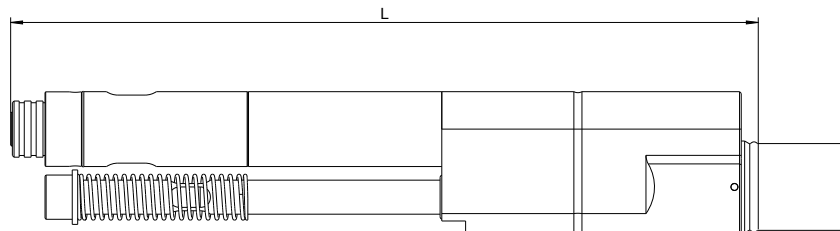
MICROMAT-EC Spindle screwdriver Straight design	Type Part no.	321E19-0002 503020A	321E19-0005 503020B	321E19-0008 503020C
Torque accuracy		2 % standard deviation		
Torque range from to	Nm/in.lbs	0.03 - 0.2 / 0.26 - 1.77	0.08 - 0.5 / 0.7 - 4.4	0.15 - 0.8 / 1.33 - 7.1
Speed range from to	rpm	150 - 1500	60 - 1200	100 - 1000
Diameter	mm/in.	19 / 0.74	19 / 0.74	19 / 0.74
Length	mm/in.	190 / 7.41	190 / 7.41	190 / 7.41
Weight	kg/lbs	0.25 / 0.55	0.25 / 0.55	0.25 / 0.55
Noise level	dB (A)	60	60	60
Drive with quick change chuck		4 mm half moon	4 mm half moon	4 mm half moon
Connection parts with inserting end		4 mm half moon	4 mm half moon	4 mm half moon
Used with sequence controller		AST12-1 AST12-1 PB AST12-1 IE		
Required accessories:				
Motor cable straight design Length 2.5m 5m 8m 12m		117352A 117352B 117352C 117352D		
Motor cable with angle connector Length 2.5m 5m 8m 12m		117353A 117353B 117353C 117353D		
Optional accessories:				
Depth control digital		909052C		
Depth control analog 10 mm		908838C plus amplifier 813712		



Further information on installation as well as CAD models can be found in the download area on our website www.deprag.com.

SCREWDRIVING SYSTEM DEPRAG Plus | TECHNICAL DATA SPINDLE SCREWDRIVER, straight design

MINIMAT-EC Spindle screwdriver Straight design	Type Part no.	321E22-00120 503030A	321E22-00200 503030B	321E27-0010 503040A	321E27-0018 503040B	321E27-0024 503040C	321E27-0042 503040D
Torque accuracy		2 % standard deviation					
Torque range from to	Nm/in.lbs	0.18-1.2/1.6-10.6	0.4-2/3.54-17.7	0.15-1/1.33-8.85	0.4-1.8/3.54-15.9	0.4-2.4/3.54-21.2	0.7-4.2/6.2-37.2
Speed range from to	rpm	50 - 900	30 - 550	50 - 1000	100 - 1000	50 - 700	40 - 400
Diameter	mm/in.	22/0.86	22/0.86	27/1.05	27/1.05	27/1.05	27/1.05
Length	mm/in.	220/8.6	220/8.6	237/9.2	237/9.2	237/9.2	249/9.66
Weight	kg/lbs	0.55/1.21	0.55/1.21	0.66/1.45	0.75/1.65	0.75/1.65	0.75/1.65
Noise level	dB (A)	60	60	60	60	60	60
Internal hex drive with quick change chuck DIN ISO 1173		F6.3 (¼")	F6.3 (¼")	F6.3 (¼")	F6.3 (¼")	F6.3 (¼")	F6.3 (¼")
Connection parts with inserting end DIN ISO 1173		E6.3 (¼")	E6.3 (¼")	E6.3 (¼")	E6.3 (¼")	E6.3 (¼")	E6.3 (¼")
Used with sequence controller		AST12-1 AST12-1 PB AST12-1 IE					
Required accessories:							
Motor cable straight design Length 2.5m 5m 8m 12m		117352A 117352B 117352C 117352D					
Motor cable with angle connector Length 2.5m 5m 8m 12m		117353A 117353B 117353C 117353D					
Optional accessories:							
Depth control digital		909052E		909052D			
Depth control analog 10 mm		908838I plus amplifier 813712		908838E plus amplifier 813712			



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SCREWDRIVING SYSTEM DEPRAG Plus | OPTIONALLY AVAILABLE SOFTWARE SOLUTIONS

DEPRAG Cockpit Basic 1 device license	Part no.	145806 (included in delivery of the screwdriving system DEPRAG Plus)
DEPRAG Cockpit Professional1 1 device license	Part no.	145440
DEPRAG Cockpit Professional5 5 device licenses	Part no.	142967
DEPRAG Cockpit Professional10 10 device licenses	Part no.	142968
DEPRAG Cockpit Professional20 20 device licenses	Part no.	142978
DEPRAG Cockpit Professional50 50 device licenses	Part no.	142979
DEPRAG Graph Viewer Activation code	Part no.	128901
DEPRAG Data eXchange Activation code	Part no.	132680
TIA Link Activation code	Part no.	135839
TwinCAT Link Activation code	Part no.	140996
Clamp Force Control (seating point detection) Activation code	Part no.	142961
Friction dependent torque screw assembly Activation code	Part no.	142959
Software update one-time Activation code	Part no.	142966
Software update annual license Activation code	Part no.	142965
Visualisation of the process Activation code	Part no.	144248
DEPRAG Operator Guidance Activation code	Part no.	146536
Safety & Change tracking Activation code	Part no.	144251
Industry 4.0 interfaces Activation code	Part no.	142962

Details finden Sie in unserem Produktkatalog D3900.

SCREWDRIVING SYSTEM DEPRAG Plus | OPTIONALLY AVAILABLE ACCESSORIES

Toolbox	Type Part no.	TB 7 398097B	
Technical data:		7	
Tool holders		up to Ø 24 mm/0.9 in. (AF 19)	
Tool size		DC 24 Volt	
Voltage		100 mA	
Amperage		SUB-D 15-pin connector	
Input/output interface		4-pin connector	
Start signal		225x50x120 mm / 8.8x1.9x4.7 in.	
Dimensions (WxHxD)		1.2 kg / 2.6 lbs.	
Weight			
Required: connection cable AST12-TB 7		385451C	

Suitable screwdriver adaptors can be found in product catalogue D3345E.

