

DEPRAG Apps

Software Solutions and Updates

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DEPRAG Cockpit Software for the Networked Factory!

Advantages

- Central platform for screwdriving and assembly technology
- Reliable processing data acquisition
- Detailed capacity and usage statistics
- Process monitoring and notifications
- Analysis and recognition of trends from system messages



DEPRAG Cockpit the Digital Platform for Screwdriving Technology

Software to reduce costs and save time through the ...



Parameterisation

- Central platform
 - One software for a wide range of hardware
 - Web-based solution → worldwide availability
 - Device specific documentation: Central management of documents, e.g. operating manuals,
 - factory certificates, machine capability study certificates,...
 - Automatic reminder function, e.g. for alignment or maintenance → Minimising downtime, increasing processing reliability, increasing system availability, raising productivity levels, planning convenient maintenance schedules

Visualisation

- Top processing reliability (OK/NOT OK feedback)
- Fast error analysis
- Minimal training requirements
- Error avoidance
- Quality assurance

Documentation

- Automatic processing data acquisition → eliminates time-consuming manual data collection
- Minimises complaints and product recalls
- Prepares all processing data for analysis as Big Data → eliminates manual marrying of different data sets

Analysis

- User-oriented, individualised and clear display of processing data
- Development of expertise
- Quick detection of NOT OK processes
- · Analysis of trends

Optimisation

• Detection of optimisation potentials, such as cycle time, capacity, standstill, improved quality of the process

DEPRAG Cockpit – Summary

- · Continuous processing optimisation
- Maximum availability due to analysis of trends and detection of anomalies
- Entire process and device documentation in one place available worldwide
- Ultimate cost savings due to recognition of potentials and early detection of possible problems
- Intelligent software: 80 % data saving
- Responsive design
- · Integration of multi-brand products

DEPRAG Cockpit

As part of the screwdriving system DEPRAG Plus you also receive in the DEPRAG Cockpit Basic **your central unser 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

We now have the software packages Professional and Advanced available to augment the software package Cockpit Basic.

The software is available as a download. To activate this software, proceed as described on page 35.

Demo version to test the DEPRAG Cockpit Professional free of charge:

You can try the DEPRAG Cockpit Professional version free of charge for 30 days. The licence is valid for 10 devices.

New free of charge Software Cockpit Programming Samples

The software contains quick start projects for the programmer of Beckhoff TwinCat and Siemens TIA environments. A demo procedure indicates how order information is transfered from a PLC to the DEPRAG Cockpit. These demos can be integrated quickly and simply in the PLC.

To establish a connection to the DEPRAG Cockpit, the following parameters must be entered: Server address, authentification, serial number, part serial number, product number

After the order information has been transmitted, the DEPRAG Cockpit links all screwdriving results with the transferred product or serial numbers. At the same time, the screwdriving results are stored in a drive and, depending on configuration, grouped according to serial numbers.









30 days demo version

Cockpit Programming

Samples no. 166217

activation key, no. 164785

documentation







Basic 1 license	Advanced 5, 10, 20, 50 licenses	Professional 5, 10, 20, 50 licenses
 PARAMETERISATION Web-based parameterisation interface in responsive design Management of global settings Creation and organisation of screwdriving programs Activation of screwdriving strategies and Industry 4.0 interfaces Creation of backups 	 PARAMETERISATION Basic features Preventive maintenance: reminder function for realignment / maintenance or other tasks relating to your screwdriving tools Central management of documents, e.g. ma- chine capability certificates, factory certificates, repair reports, operating manuals 	 PARAMETERISATION Basic features Central creation and parameterisation of screwdriving programs for all devices logged in
VISUALISATIONIntuitive processing data display	 VISUALISATION Basic features System overview: Structured overview of all screwdriving tools – digital twin System monitoring: automatic notification if anomalies occur with your screwdriving tools 	 VISUALISATION Basic & Advanced features Process supervision and recognition of trends: automatic messaging function if anomalies occur in your process
 Process data acquisition: automatic process data acquisition of final values and screwdriving curves 	 DOCUMENTATION Basic features Automatic process data acquisition => no need for complex manual data collection Preparation of all process data (final values + screwdriving curves) for additional analysis tools 	DOCUMENTATION • Basic & Advanced features
ANALYSIS -	ANALYSIS -	 ANALYSIS User-oriented, individualised and clear display of process data => recognition of optimisation potentials such as cycle time, capacity, downtime, processing quality Fast development of expertise Fast detection of NOT OK processes Execution of machine capability studies (MFU) Analysis of shift models Creation of digital quality control charts
OPTIMISATION -	OPTIMISATION -	 OPTIMISATION Predictive maintenance: The software determines the status of your screwdriving tools using various parameters and gives an early warning of potential breakdowns

Part numbers

DEPRAG Cockpit Activation key	Part no.	Number of licenses	Comment
DEPRAG Cockpit Basic	145806	1	included in delivery of the screwdriving system DEPRAG Plus and pre-installed on the AST12
DEPRAG Cockpit Advanced1	145795	1	
DEPRAG Cockpit Advanced5	145796	5	
DEPRAG Cockpit Advanced10	145797	10	
DEPRAG Cockpit Advanced20	145798	20	
DEPRAG Cockpit Advanced50	145799	50	
DEPRAG Cockpit Professional1	145440	1	
DEPRAG Cockpit Professional5	142967	5	
DEPRAG Cockpit Professional10	142968	10	
DEPRAG Cockpit Professional20	142978	20	
DEPRAG Cockpit Professional50	142979	50	





Software Solutions for Screwdriving System DEPRAG Plus with sequence controller AST12 as well as for the Sequence Controllers AST5/AST6/AST11/AST40

Possible combinations with AST controllers

Which software is suitable for the screwdriving system?

Hardware including software	Part no.	AST5	AST5-S	AST(i)6	AST11	AST(i)40
Interface Graph Loader	385834A					
Interface Graph Loader activation key	118742	, v	· ·	×	v	Ť
Module WEB-IO 12E/12A	383978A		~	v		
WEB-IO 12E/12A activation key *)	116995	v	X	X	X	X

*) no PC is required for this software

Software	Part no.	AST5	AST5-S	AST(i)6	AST11	AST(i)40	AST12	ComCenter ED 103196B
Datalogger activation key	202699	✓	 ✓ 	✓	✓	 ✓ 	X	x
Statistics activation key	206081	✓	~	~	~	~	X	x
ASTxx Serial Remote activation key	206565	✓	~	~	~	~	X	x
DEPRAG Clamp Force Control activation key		X	x	x	x	109108	142961	x
DEPRAG Friction Value Process activation key		201820	201820	201820	201820	201820	142959	x
DCON DEPRAG CONnect activation key	136244	X	x	x	✓	~	✓	x
DEPRAG Graph Viewer activation key	128901	\checkmark	~	~	✓	~	✓	x
DEPRAG Data eXchange activation key	132680	\checkmark	~	~	✓	~	✓	x
TIA Link activation key	135839	X	x	~	✓	~	✓	x
TwinCAT Link activation key	140996	x	x	~	✓	~	✓	x
DEPRAG Operator Guidance activation key	146536	\checkmark	~	x	✓	~	✓	✓
Visualisation of the process activation key	144248	X	x	x	X	x	✓	x
Safety & Change tracking activation key	144251	x	x	x	X	x	✓	x
DEPRAG Universal Robots Link activation key	164982	x	x	x	X	x	✓	x
DEPRAG iSERVE (software download)	145458B/C/E/F	x	x	x	✓	~	X	x

Note: The sequence controllers AST40, ASTi40 and AST11 now support the connection to the DEPRAG Cockpit. Please find details on the DEPRAG Cockpit on pages 4 to 7.

Interface Graph Loader

the hardware with installed software for EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST5, AST6, AST11 and AST40

The Interface Graph Loader is an optional accessory for the automatic transfer of screwdriving curves and final value data sets from DEPRAG screwdriving controllers. The Interface can be used with EC and EC servo screwdriving systems in combination with screwdriving controllers AST5, AST6, AST11 and AST40.

Part no. 385834A

Activation key 118742



in combination with the sequence controllers AST5, AST6, AST11 and AST40

The software statistics can be used to produce statistical evaluations of the screwdriving results, that are made available by the software datalogger.

When using the software statistics, we also recommend the installation of the software datalogger. To activate this pre-installed software, proceed as described on page 35.

ASTxx Serial Remote

the software for EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST5, AST6, AST11 and AST40 Activation key 206565

The program ASTxx Serial Remote is started on a PC and is controlled by commands over a serial interface (COM-Port). With this program, screwdriving curves and result-data can be transferred quickly and simply onto a PC. The PLC controls when and which data should be stored. The storage location (also the directory) on the PC is determined by the PLC as well. The directory is setup automatically on the PC.

To activate this pre-installed software, proceed as described on page 35.

DEPRAG Clamp Force Control

the software for screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controller AST12(*) /AST40

This patented, reliable and adaptive screwdriving procedure provides excellent constancy in the pre-load force even with fluctuating torque. The complete screw assembly consists of the screwdriving template seating point detection and a screw assembly to difference torque or angle.

The main element is the seating point detection. On the basis of a torque procedure a mathematical evaluation function is continuously formed. If the trend line reached exceeds a specifically defined limit value, the seating point is considered detected and the torque and angle values at the time of the seating point are saved. The evaluation procedure combines two essential advantages. It is robust in relation to coincidental fluctuations and increases during the torque procedure which do not arise from the actual seating point.

Single license activation key 109108 / 142961 ^(*)
5 licenses 171939 / 171966 ^(*)
10 licenses 171941 / 172017 ^(*)
20 licenses 171961 / 172019 ^(*)
50 licenses 171964 / 172022 ^(*)

Furthermore, the algorithm is universally valid so the user does not need to set any parameters specific to the evaluation. The parameters listed in the following table must be set. Torque upper limit is the abort criterion for the screwdriving step. The OK window for the seating point detection can optionally be monitored by seating point torque lower/upper limit and angle lower/upper level. Either the torque or angle values at the seating point or at the end of the program step can be stored as the end values.

The end values of the screwdriving template seating point detection portray the reference for the follow-on program step. Instead of screw assembly to difference torque the other option is screw assembly to angle.

The screwdriving procedure is used for applications where varying limiting conditions are present which can cause widely ranging torques. Using a torque controlled tightening procedure, even if there is the highest shut-off accuracy, can lead to large fluctuations in the resulting pre-load force. Tab.: Parameters for screwdriving template seating point detection

Parameter	Function
Monitoring time	Monitoring time for screwdriving step
Speed	Speed for screwdriving step
Seating point torque lower/ upper limit	Monitoring criterion for seating point detection
Torque upper limit	Abort criterion for screwdriving step
Angle lower limit	Monitoring criterion in relation to seating point, min. 720°
Angle upper limit	Monitoring criterion in relation to seating point
End value generation	Values for seating point / end program step, basis for sequential step

The adaptive screwdriving procedure DEPRAG Clamp Force Control ensures uniform output for the follow-on end tightening due to the reliable detection of the seating point. Consequently, there is a better constancy in the pre-load force. Typical application examples are direct screw assemblies in plastic or metal.

The procedure DEPRAG Clamp Force Control does not replace the friction value measurement or the friction dependent screw assembly. The screwdriving template friction value measurement can be used if compliance with the pre-set frictional value needs to be monitored. The friction dependent torque assembly also enables a good constancy of the pre-load force for constant frictional torque procedures where the screw position varies. A screw joint analysis is recommended to determine the most suitable screwdriving procedure. To activate this pre-installed software, proceed as described on page 35.

DEPRAG Friction Value Process

the software for screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST5, AST6, AST1/AST12(*) and AST40

With the friction-value process, it is possible to measure and compensate varying friction-values (e.g. on self-forming screw-joints). Additionally, this procedure can be used for monitoring of predetermined friction values at verification processes.

To activate this pre-installed software, proceed as described on page 35.



Module WEB-IO 12E/12A

the hardware with installed software for EC- and EC-Servo screwdriving systems in combination with the sequence controller AST5

Input/output extension for AST5. To activate this pre-installed software, proceed as described on page 35.

DCON DEPRAG CONnect

the software for the screwdriving system DEPRAG Plus in combination with the sequence controller AST12 and for the sequence controller AST11 and AST(i)40

Simple, fast connection of DEPRAG devices in the Beckhoff TwinCAT programming. The software is available as a download. To activate this software, proceed as described on page 35.

Part no. 383978A

Activation key 116995



DEPRAG Graph Viewer for evaluation of screwdriving curves

the software for screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS

During each screw assembly when using a sequence controller AST, the relevant measurement values are recorded in a file. There is now the DEPRAG Graph Viewer, to simply and easily evaluate and analyse these measurement values. The Graph Viewer opens the curve files of each sequence controller and can display the following visualisations:

- Visualisation of measurement values over time

In this visualisation, various measurement sizes can be shown in relation to the screwdriving procedure. All available measurement values can be displayed in chronological order.

- Visualisation of measurement values over angle

In this visualisation, the angle can be analysed in relation to the screwdriving procedure. The y-axis can be freely chosen by the user. This can e.g. enable analysis of angle in relation to torque or angle in relation to motor current, etc. In order to precisely analyse the screw assembly, a video can be played in visualisation over angle. Use the "start" and "pause" buttons in the same way as a video player to visualise the curve sequence of the screwdriving process. Individual sequences can be selected and displayed using the time bar.

- Superposition of measurement values over time / over angle

As well as visualisation over angle and visualisation over time, there is also an option to display several curves at the same time in order to draw correlations and recognise trends. Any number of curves can be added. It is also possible to align curves to specific synchronisation points and hide or show screwdriving steps.

As well as the screwdriving curves, the processing and parameter data is also accessible. The complete process can be analysed and evaluated using a single piece of software. The process data can be printed as documentation.

The software is available as a download. To activate this software, proceed as described on page 35. The software is also available as free trial software in demo mode.

DEPRAG Data eXchange

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS

AST sequence controllers, the adaptive screwdriving system ADAPTIVE DFS and the ComCenter document relevant processing data for every screw assembly, which is then saved in an internal format. The so-called "graphic files" contain all screw curves, end values and details relating to the screwdriving process and are only readable by DEPRAG's own software solutions. In order to use and analyse this data in other systems, it is necessary to convert the internal format into an external format.

The Software Data eXchange extracts all parameters relevant to processing, such as torque and angle values. Amongst other things, this includes the screwdriving program used, the serial number of the devices used, processing status and global settings. The new software solution allows the export of DEPRAG graphic files either as CSV or Excel files. This data can then be used in conjunction with other software solutions.

- Optional areas of application include:
- integration in a databank
- analysis in Matlab
- SAP integration
- filing in customer-specific processing software

Compatibility: all Windows systems (7, 8, 10) without any need for configuration. The software configures itself and is ready to run with just one click. The software is available as a download. To activate this software, proceed as described on page 35.

TIA Link / TwinCAT Link

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST11, AST12, AST40, AST6 including the i-versions, for the ComCenter 10 and for the position control stand

TIA Link: Integration in the Siemens programming environment (Totally Integrated Automation (TIA) Portal) is required to operate DEPRAG devices with the current SIMATIC controllers.

TwinCAT Link: Integration in the Beckhoff programming environment is required to operate DEPRAG devices with the current Beckhoff controllers.

This integration is quite time-consuming and requires expert domain knowledge of the DEPRAG devices. Therefore, the software TIA link and TwinCAT link have been created to enable simple integration of the following DEPRAG products: AST11, AST12, AST40 incl. i-versions, AST 6 incl. i-versions, ComCenter 10, position control stand

The software not only includes integration for the above products but also several Quick-Start projects in the "structured text" programming language which enable immediate execution of screw assemblies without first setting up communication using the user manual. As well as the fieldbus connection, there are additional examples provided for controlling the screwdriving system.

Software TIA Link

The following SIMATIC controllers are supported: SIMATIC S7-1200, SIMATIC S7-1500 and SIMATIC ET 200SP (CPU)

Software TwinCAT Link

The following Beckhoff software systems are supported: TwinCAT 2 and TwinCAT 3

The software is available as a download. To activate this software, proceed as described on page 35.

Single license activation key 128901 Upgrade to the current software version 139522 5 licenses 172649 10 licenses 172650 20 licenses 172689 50 licenses 172713





DEPRAG Operator Guidance

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST5, AST5-S, AST11 und AST12 and for the ComCenter ED

The software allows for the creation of as many digital assembly instructions as required without the need for knowledge of a high-level language. The App guides the operator step by step through the assembly process. New employees can therefore be trained up quickly and efficiently. Productivity and processing quality increase as unnecessary assembly errors are avoided.

Time and cost savings are attained due to the automatic documentation of processing data. Positioning data, screwdriving results and the component's serial number are matched together and automatically stored on the selected drive. There is also the option for automatic saving of screwdriving curves. In user management you can determine which parameters can be created or altered and by whom.

System requirements:

Operating system: From Windows 7 (64 Bit)

The software is available as a download. To activate this software, proceed as described on page 35. The software is also available as free trial software in demo mode.

Visualisation of the Process

the software for the screwdriving system DEPRAG Plus in combination with the sequence controller AST12

The user receives detailed feedback relating to the screwdriving process. There is a visualisation of relevant parameters, such as end values and error messages for each phase of the screwdriving process. The AST12 sequence controller screen can be projected onto another device, e.g. tablet, touch screen, PC screen or the AST12 display can be integrated into your HMI project. The remote function even enables external operation of your screwdriving system. The software is available as a download. To activate this software, proceed as described on page 35.

Safety & Change Tracking

the software for the screwdriving system DEPRAG Plus in combination with the sequence controller AST12



Processing reliability and traceability – Protect your process! With this software can you track any changes made. Unauthorised alterations to the processing parameters can be traced quickly. The software is available as a download. To activate this software, proceed as described on page 35.

DEPRAG Universal Robots Link

the software for the screwdriving system DEPRAG Plus in combination with the sequence controller AST12

The DEPRAG Universal Robots Link is available for quick and easy integration of the DEPRAG AST12 sequence controller into the robot's program sequence. The URCap for the screwdriving system DEPRAG Plus means the system has an intuitive user interface for the whole process - from feeding to fastener assembly. The interface guarantees smooth integration of the screwdriving system. The URCap can be downloaded from the AST12 sequence controller or from software.deprag.com.

The robots of the "e-series" generation from software version 5.9.1 or higher are supported.

The software download is available from the myDEPRAG customer portal (my.deprag.com). Registered users can activate the activation code and manage licences in MY ACCOUNT > DEPRAG Apps.

Single license activation key 146536 5 licenses 172733 10 licenses 172734 20 licenses 172735 50 licenses 172736



Activation key 144251



DEPRAG iSERVE

DEPRAG iSERVE for the independent parameterisation of screwdriving programs

for sequence controller AST11 and AST(i)40

DEPRAG iSERVE is available as a cloud application on the myDEPRAG customer portal and enables the creation and optimisation of screwdriving programs, without the need to be in the same physical location as the controller and screwdriving tool. This means that from one central location, screwdriving programs can be edited, analysed and, after completion, made available to all decentralised users for transfer to their screwdriving systems (24/7, worldwide).

A licence is needed to save program packages created with DEPRAG iSERVE. There are various options available for a usage period of 12 months:



up to 50 saving operations

up to 100 saving operations part no. 145458F

up to 250 saving operations part no. 145458B

up to 500 saving operations part no. 145458C

DEPRAG iSERVE quick guide:

- 1. Select the required screwdriving system
- 2. Create new program package or open/upload existing package
- 3. Save the newly created or edited program package in the customer portal
- 4. Download the program package from the customer portal and transfer to the screwdriving controller

Software Solutions for MINIMAT-EC Cordless Screwdriver

Possible combinations with MINIMAT-EC cordless screwdriver

Which software is suitable for the screwdriving system?

Hardware including software	Part no.	Base station ComCenter10
Programming kit ComCenter PC	385597A	\checkmark

Software	Part no.	Base station ComCenter10
Datalogger activation key	202699	\checkmark
Statistics activation key	206081	\checkmark
DEPRAG Graph Viewer activation key	128901	\checkmark
DEPRAG Data eXchange activation key	132680	\checkmark
TIA Link activation key	135839	\checkmark
TwinCAT Link activation key	140996	\checkmark

Base station ComCenter 10 the hardware Programming kit ComCenter PC the software

the hardware with integrated software

for MINIMAT-EC Cordless Screwdriver, wireless and battery operated EC Screwdriver

Bluetooth can be used to connect the screwdriver to the optional base station ComCenter 10. The convenient operator interface offers a comprehensive range of functions and using a standard integrated web server screw processes can be generated and adjusted quickly and simply.

The process integration for exchange of screw specifications and results data for documentation and archiving is also possible. The base station can be used to control four tools.

This creates the best framework for successful quality management and documentation. The base station ComCenter 10 provides temporary storage and easy access all daily results data over a whole week. The software datalogger can be used to transfer the measurement data of several base stations (up to 10 devices) automatically via Ethernet onto a PC. Data evaluation can be carried out using the software statistics.

Up to eight multi-stage screw processes, each with appropriate loosening program, can be adjusted and transferred to the screwdriver using the base station ComCenter 10 or alternatively the programming kit of the ComCenter PC.

The keypad on the screwdriver itself is used to select screwdriving programs. At just the press of a button additional loosening programs can be selected at any time for any screwdriving program.

The programming kit ComCenter PC is a PC software used to adjust parameters on the EC cordless screwdrivers independently from the base station ComCenter 10. The licence key for the software is saved on the Bluetooth adaptor and a release code is also provided. The settings on as many EC cordless screwdrivers as required can be managed using the ComCenter PC software, just select the screwdriver required when starting the software.

Range of functions:

Screwdriving programs can be generated and adjusted using the ComCenter PC software. Graphs can be displayed and transferred using the software module Graph Viewer. This is included and automatically installed with the ComCenter PC software.

All settings for the EC cordless screwdrivers can also be managed via the menus on the web interface of the base station ComCenter 10. There are 12 languages available for the ComCenter PC software and for the user interface of the base station ComCenter 10.





Part no. 385597A

Datalogger he software for EC- and EC-Servo screwdriving systems n combination with the sequence controllers AST5, AST6, AST11 and AST40		Activation key 202699
See page 10 for details.		
Statistics he software for EC- and EC-Servo screwdriving systems n combination with the sequence controllers AST5, AST6, AST11 and AST40	•	Activation key 206081
See page 10 for details.		
DEPRAG Graph Viewer for evaluation of screwdriving curves he software for screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS	•	Activation key 128901
See page 12 for details.		
DEPRAG Data eXchange he software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS	•	Activation key 132680
See page 12 for details.		
TIA Link he software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST11, AST12, AST40, AST6 including he i-versions, for the ComCenter 10 and for the position control stand	Þ	Activation key 135839
See page 12 for details.		
TwinCAT Link		

See page 12 for details.

the i-versions, for the ComCenter 10 and for the position control stand

Software Solutions for MINIMAT-ED Digital Electric Screwdriver, handheld



Possible combinations with MINIMAT-ED, the digital electric screwdriver

Software	Part no.	MINIMAT-ED
ComCenter ED with software OS BASIC	103196A	\checkmark
Upgrade to software OS ADVANCED activation key	160491	suitable for ComCenter ED with software OS BASIC
ComCenter ED with software OS ADVANCED	103196B	\checkmark
DEPRAG Friction Value Process activation key (details on page 11)	201820	suitable for ComCenter ED
DEPRAG Operator Guidance activation key (details on page 13)	146536	with software OS ADVANCED

ComCenter ED for MINIMAT-ED digital electric screwdriver, handheld

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
- Iow cost solution
- for varying tightening parameters
- upgraded communication

ComCenter ED with software OS BASIC Part no. 103196A

ComCenter ED with software OS ADVANCED Part no. 103196B

ComCenter ED - comparison of the software

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	16
Maximum number of program steps	3	25
Tightening to torque	\checkmark	\checkmark
Tightening to torque with angle control	×	\checkmark
Tightening to angle	\checkmark	\checkmark
Tightening to angle with torque control	×	\checkmark
Loosening to angle	\checkmark	\checkmark
DEPRAG Friction Value Process	×	\checkmark
Search run / save values / waiting time	×	\checkmark
Statistics	×	\checkmark
Automatic speed reduction	×	\checkmark
Documentation	7 days production	7 days production
DEPRAG Operator Guidance	×	\checkmark
Communication interfaces	I/O interface	I/O interface and http interface
Category B (VDI/VDE 2862)	\checkmark	\checkmark
Category C (VDI/VDE 2862)	\checkmark	\checkmark

Please note: In combination with OS ADVANCED, the MINIMAT-ED screwdriver requires display version 2.0. The display can be upgraded in house at DEPRAG. Please send the MINIMAT-ED screwdriver to Amberg for the update.

Software Solutions for MINIMAT-ED Digital Electric Screwdriver, stationary

Possible combinations with MINIMAT-ED, the digital electric screwdriver

Software	Part no.	MINIMAT-ED
Interface 330E with software 330 OS BASIC	106744B	\checkmark
Upgrade to software 330 OSADVANCED activation key	117244	\checkmark
Interface 330E with software 330 OS ADVANCED	106744C	\checkmark
DEPRAG Friction Value Process activation key	201820	\checkmark

Interface 330E with software 330 OS BASIC

the hardware with integrated software for the stationary, digital electric screwdriver MINIMAT-ED

There are five screwdriving programs (PG1 to PG5) available on the screwdriver for implementing individual screwdriving procedures; the process consists of a search run, torque, and angle screw assembly. There are also five loosening programs available (PG6 to PG10).

Enhanced functionality is always available by activating software 330 OS ADVANCED.

Interface 330E with software 330 OS ADVANCED

the hardware with integrated software for the stationary, digital electric screwdriver MINIMAT-ED

With the software 330 OS ADVANCED the range of functions of the BASIC software and additional an extended range of functions is available:

- 15 different screwdriving programs can be stored
- Screwdriving programs can be freely compiled using the following screwdriving templates and commands:
 - · assembly to torque
 - extended assembly to torque
 - assembly to angle / loosening to angle
 - DEPRAG friction value process (optional, the part no. is 201820, see page 11 for details)
 - search run / save values / waiting time
- Statistics
 - Speed reduction setting
- Extended end values







Software Solutions for ADAPTIVE DFS DEPRAG FASTENING SYSTEM

Possible combinations with ADAPTIVE DFS, the DEPRAG FASTENING SYSTEM

Which software is suitable for the screwdriving system?

Software	Part no.	ADAPTIVE DFS
DEPRAG Graph Viewer activation key	128901	✓
ADFS Threaded Fastener activation key	111914	✓
ADFS Push Fastener activation key	111915	✓
ADFS Push Plus Fastener activation key	1119151	✓
ADFS Calibration activation key	135894	✓
DEPRAG Data eXchange activation key	132680	✓
ADFS OPC UA activation key	131142	✓
ADAPTIVE DFS Two Step Penetration activation key	138918	✓

DEPRAG Graph Viewer for evaluation of screwdriving curves

the software for screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS

See page 12 for details.

Process software for flow forming screws. To activate this pre-installed software, proceed as described on page 35.

ADFS Push Fastener

ADFS Threaded Fastener

the software for ADAPTIVE DFS

the software for ADAPTIVE DFS

Process software for flow push elements. To activate this pre-installed software, proceed as described on page 35.

ADFS Push Plus Fastener

the software for ADAPTIVE DFS

Process software for the processing of FlowPush elements without entering a shut-off torque. The shut-off is based on the parameterised torque target range. The parameterisation can be used to adjust whether the screwdriving process should be optimised to short cycle times or high shut-off accuracy.

To activate this pre-installed software, proceed as described on page 35.

ADFS Calibration the software for ADAPTIVE DFS

Software for automatic execution of necessary calibration or adjustment procedures.

The advantages of using this software:

- significant cost and time savings
- effective avoidance of errors when transferring data
- intuitive user handling
- automatic generation of calibration certificate

To activate this pre-installed software, proceed as described on page 35.

Activation key 111914

Activation key 111915

Activation key 135894

Activation key 1119151

details.

Activation key 128901

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers ASTxx and ADAPTIVE DFS

See page 12 for details.

Activation key 132680

ADFS OPC UA

the software for ADAPTIVE DFS

Activation key 131142

OPC UA is a collection of standards for communication and data exchange within the field of industrial automation. The OPC UA is used to depict the transport of machine-to-machine data as well as interfaces and data.

The ADAPTIVE DFS OPC UA software enables retrieval of final values, statuses and system information. The OPC UA software provides the basis for the realisation of Industry 4.0 relevant content and is a unique selling point of the ADAPTIVE DFS.

To activate this pre-installed software, proceed as described on page 35.

ADAPTIVE DFS Two Step Penetration

Activation key 138918

the software for ADAPTIVE DFS

This innovative screwdriving procedure provides the user with even more flexibility when it comes to parameterisation of the ADAPTIVE DFS.

After activation, the relevant parameters are displayed in the processing step "Penetration". This enables independent adjustment of the drive speed and/or feed rate.

The start and end of the ramp for the speed and/or feed rate is configured over two set positions.

Due to the unique drive concept of the ADAPTIVE DFS, the precise time that the position will be reached can be calculated in advance. Thus, ensuring that the essential parameters relating to speed and feed rate have been applied.

The new screwdriving procedure can be used in conjunction with:

- Die-cast aluminium, to optimise flow in combination with the shortest possible cycle time

- High tensile steel, to optimise the energy transfer of fasteners in the material

To activate this pre-installed software, proceed as described on page 35.



www

home was a second was a second

Activation key 167387

PKS Simulation, the software for the position control stand

The PKS simulation software enables operation, configuration and set-up without a hardware component. This means that it is possible to create and test sequences and simulate functions in the development and process planning stages.

The PKS simulation software is available for Windows operating systems from Windows 10 and requires activation. The software download is available from the myDEPRAG customer portal (my.deprag.com). Registered users can activate the activation code and manage licences in MY ACCOUNT > DEPRAG Apps.

Software Solutions for Position Control Stand PKS



Process reliability and traceability – Ensure your process is secure! With this software, you can track who has changed what and when. Any unauthorised changes to the processing parameters can quickly be traced.

The software is already pre-installed on your hardware (e.g. sequence controller, position control stand). Registered users can activate the activation code and manage licences in MY ACCOUNT > DEPRAG Apps.



Feeding systems eacy feed guarantee optimal assembly conditions with ergonomic and comfortable operation.

The controller PFC100 enables customised settings without mechanical alterations.

- clear and easy operation via controller
 option of frequency and amplitude regulation via controller
 works to the individual working rhythm of the operator, with storage of up to 10 separate data sets

Software Solutions for DEPRAG Feeding Technology

PFC100 Manager

the parameterisation software for PFC100 controllers

Read, save and transfer parameters

The PFC100 Manager facilitates the reading and saving of parameters as text files for every PFC100 controller. Saved parameters can be transferred to any PFC100 controller quickly and simply using the PFC100 Manager.



The software is supplied on CD. The connection cable 385520B required to connect PC and PFC100 controller is supplied.

Available languages: German and English

	S	erial	no.	: 1234567		
Seneral Settings	_					
Serial number:	1234567			Software version:	1.8	
Language:	Deutsch	*		Password:	0000	
Becklight	00	-		Display settings:	Standard	
Waveform:	none	•		Galvanic isolation:	no	-
Screw presence: Fill level control.	none	-			no	
Phillevel control. PKS	00	-		Load control:	1	-
1.096	P.a.	-		Value for load regulation:	0	
				DFM delay.	0.0	18.
Device-specific Settings						
Amplitude:	100	_		Frequency:	2050	_
Range amplitude minimum:	0	_		Range frequency minimum:	1050	-
Range amplitude maximum.	1000	_		Range frequency maximum:	2500	
Pulse length (rail blow-back):	0.0	_	5	Rise time soft start	0.0	
Pause length (rail blow-back):	0.0	_		EP delay timer:	0.0	1
500 50	10				S	
'est Settings						
Amount of screws:	0			Pause between screws	0.0	8
Testmode	Rail 1 only	Ψ.		Pause after amount of screws:	0,0	8
Upload PFC100 settings						
Jser Times						
User:	1	*				
Minimum driver run-time:	0,3		9	Air-push duration:	0.1	\$
Load cycle start delay:	0,0		8	Air push delay:	0,0	
Separator forward duration:	0,1		8	Vibratory bowl run duration:	0,4	
Air blast extension:	0,0	_	8	ST Nachlautzeit		100
ST Max Emochatawit	1		ġ.,			
Upload user settings						



Software Solutions for DEPRAG Automation

Software packages for DCOS processing and system controllers

	Intelligent software packages														
DF	UN	DVIP		DPRO		DAST		DSPEC	DCON						
	Part no.		Part no.		Part no.		Part no.								
DFUN10	815454			DPRO10	815632										
DFUN50	815455	DVIP50	815629	DPRO50	815633			Part no.	Part no.						
DFUN100	815456	DVIP100	815630	DPRO100	815634	DAST100	815641	based upon order.	136244						
DFUN200	815457	DVIP200	815631	DPRO200	815635	DAST200	815642								

Software packages for DCOS processing and system controllers

Intelligent software packages combined with standardised hardware based on an industrial PC allow for individual solutions customised to your application.

Perfectly coordinated interfaces between standard components and intuitive user handling guarantee superior user comfort. Our technical advisors are happy to help with configuration.

Further information can be found in the product catalogues D3390 and D3350.

- DFUN DEPRAG FUNction combines and controls all standard functions on the manual work station.
- DPRO DEPRAG PROcess process control and data processing (BDE, MDE, MES, Industry 4.0).
- DVIP DEPRAG VIsion and Position position control and visualisation of assembly tasks.
- DAST DEPRAG AblaufSTeuerung central operation of all EC screwdriver controllers via a DCOS operating panel.
- DSPEC DEPRAG customer SPECification the software solution customised to your application.

DCON - DEPRAG CONnect - Simple, fast connection of DEPRAG devices in the Beckhoff TwinCAT programming.

Supported by your DEPRAG consultant, select the modules most suitable for your purposes from our standard software packages.

Software Updates

for the screwdriving system DEPRAG Plus

UPDATE for		screwdriving system DEPRAG Plus
One-time	Part no.	142966
Annual license	Part no.	142965

for AST sequence controllers

UPDATE	for	controller	AST5	AST5-S	AST6	ASTi6	AST11	AST40	ASTi40
		Part no.	114268	117217	114269	114270	114271	114254	114261
Firmware upd	late one-time	Part no.	-	-	-	-	-	148168	166165
Firmware upd	late annual license	Part no.	-	-	-	-	-	148167	166163

for AST sequence controllers (no longer in the current sales program)

UPDATE	for	controller	AST10	AST30-31
	Part no.		117340	117343

for EC screwdriver, EC-Servo screwdriver, electric screwdriver

		MINIMAT-EC cordless screwdriver 318Axx handheld	NANOMAT-EC, MICROMAT-EC, MINIMAT-EC 320E stationary	MINIMAT-ED digital electric screwdriver 330E36 stationary	MINIMAT-ED digital electric screwdriver 330EG36 handheld	MINIMAT-E 342Ex36 stationary	MINIMAT-EC- Servo 311Exx stationary
	Part no.	117263	117238	117267	117270	117272	117273
Update for handle	Part no.	-	-	-	-	-	137484

for the ADAPTIVE DFS

UPDATE for		ADAPTIVE DFS
	Part no.	117276

for part feeder control and position control stand

UPDATE	for		SZG Controller 6	PFC100	PFCi100	Position control stand	
		Part no.	137482	117288	117290	119657	

for measurement devices

UPDATE for		BME	ME1000DMS	ME1000PE	ME5000	ME5400	ME5500	ME5600	ME6000	ME6000F	ME6100
	Part no.	137354	137355	137500	117294	117295	117253	117296	117297	137362	137361

for battery, charger and programming kit

UPDATE	for		Battery Li-Ion 36V 54Wh	Charger	Programming kit ComCenter PC
		Part no.	117285	117284	117287

for function control, ComCenter and Interface 330E

UPDATE	for	fc10	fc11	fc20	ComCenter ED	ComCenter ED-S	ComCenter 10	ComCenter PC	Interface 330E
	Part no.	137480	117280	117283	117234	117252	117232	117287	117246

Software Updates

We recommend updating your software regularly so that you always have the most up-to-date drivers, enhanced features and security updates.

Protect your device from any possible threats or security issues by installing the most up-to-date software versions.

For optimal use and a full scope of features we recommend installing the most up-to-date version of the controller.

Process description for a software update

1. If your controller is connected to the internet, you will receive a message via the controller's website that there is an update available.

Click on this message for more detailed information regarding the update. The next step is to place the order for the update.

2. If your controller is not connected to the internet, you can also check the availability of updates here:

http://software.deprag.com

3. Of course, you can also contact us directly if you have any questions concerning the availability of updates or about the update itself. The contact details are found below.

Process:

We will send you the download link for the update along with the invoice. The update can then simply be installed on your controller. This process is very quick, and your controller is ready for operation after just a few minutes.

Your contact for questions about our software products:

Sales department E-Mail: verkauf@deprag.de

Export department E-Mail: export@deprag.de

Further contact details can be found on our website at www.deprag.com.

Part number index

Part no.	Cat- egory	Designation	Description		
103196A		ComCenter ED	with software OS BASIC		
103196B		ComCenter ED	with software OS ADVANCED		
106744B	-	Interface 330E with OS BASIC			
106744C	-	Interface 330E with OS ADVANCED			
109108	SFS	DEPRAG Clamp Force Control	Single license, activation key		
111914	SFS	Activation key ADFS Threaded Fastener	Process software for flow forming screws		
111915	SFS	Activation key ADFS Push Fastener	Process software for flow push elements		
1119151	SFS	Activation key ADFS Push Plus Fas- tener	Process software for flow push elements		
114254	SDL	Update	Sequence controller AST40		
114261	SDL	Update	Sequence controller ASTi40		
114268	SDL	Update	Sequence controller AST5		
114269	SDL	Update	Sequence controller AST6		
114270	SDL	Update	Sequence controller ASTi6		
114271	SDL	Update	Sequence controller AST11		
115460	SAT	Connection PFCi-DPU050/100	Driver and visualisation for DPU		
115461	SAT SFS	Connection PFCi-DPU200 Activation key WEB-IO 12E/12A	Driver and visualisation for DPU Input/output extension for AST5 (the activation key is free of charge)		
116995 117217	SDL	,	Sequence controller AST5-S		
117232	SDL	Update Update	Base station ComCenter 10		
117234	SDL	Update	ComCenter ED		
117238	SIN	Update	EC Screwdriver 320E		
117244	SFS	Upgrade / activation key	upgrade from software 330 OS BASIC to software 330 OS ADVANCED		
117246	SDL	Update	Interface 330E		
117252	SDL	Update	ComCenter ED-S		
117253	SDL	Update	Measurement device ME5500		
117259	SIN	Update	AST30-31		
117263	SIN	Update	MINIMAT-EC Cordless screwdriver, 318Axx		
117267	SIN	Update	MINIMAT-ED stationary, 330E36		
117270	SIN	Update	MINIMAT-ED handheld, 330E36		
117272	SIN	Update	MINIMAT-E stationary, 342Ex36		
117273	SIN	Update	MINIMAT-EC-Servo stationary, 311Exx		
117276	SFS	Update	ADAPTIVE DFS		
117280	SIN	Update	Function control fc11		
117283	SIN	Update	Function control fc20		
117284 117285	SIN	Update	Charger 833881 (MINIMAT-EC cordless screwdriver) Battery Li-Ion 367V 54Wh 833880 (MINIMAT-EC cordless screwdriver)		
117287	SDL	Update Update	Programming kit ComCenter PC (MINIMAT-EC cordless screwdriver)		
117288	SIN	Update	Controller PFC100		
117290	SIN	Update	Controller PFCi100		
117294	SIN	Update	Measurement device ME5000		
117295	SDL	Update	Measurement device ME5400		
117296	SIN	Update	Measurement device ME5600		
117297	SDL	Update	Measurement device ME6000		
117340	SDL	Update	AST10		
117343	SDL	Update	AST30-31		
118742	SFS	Activation key	for Interface Graph Loader 385834A		
119657	SDL	Update	Position control stand		
121759	SDT	PFC100 Manager			
122000	SFS	Activation key of 121759			
125134	SDL	DEPRAG Datalogger			
125135	SDL	Update for ASTxx Serial Remote	For sequence controller AST (software requires activation)		
128901 131142	SFS SFS	Single license Graph Viewer activation key ADFS OPC UA activation key			
132680	SFS	DEPRAG Data eXchange activation key	Software requires activation		
135839	SFS	TIA Link activation key			
135894	SFS	ADFS Calibration	Activation key		
136244	SFS	DEPRAG Connect	Activation key		
137354	SIN	Update	Measurement device BME		
137355	SIN	Update	Measurement device ME(1000DMS		
137361	SDL	Update	Measurement device ME6100		
137362 137480	SDL SIN	Update	Measurement device ME6000F Function control fc10		
137400		Update	SZG Controller 6		
137/80					
137482 137484	SIN	Update Update for handle	311Exx screwdriver		

Part number index

Part no.	Cat- egory	Designation	Description
138918	SFS	ADAPTIVE DFS Two Step Penetration	Activation key
139522	SFS	Upgrade of an existing license	to the current version (DEPRAG Graph Viewer)
140996	SFS	TwinCAT Link activation key	
142959	SFS	DEPRAG Friction value process	Single license, activation key (for AST12)
142961 142965	SFS SFS	DEPRAG Clamp Force Control Update annual license	Single license, activation key (for AST12) AST12
142966	SFS	Update one-time	AST12
142967	SCO	DEPRAG Cockpit Professional5	Activation key
142968	SCO	DEPRAG Cockpit Professional10	Activation key
142978	SCO	DEPRAG Cockpit Professional20	Activation key
142979	SCO	DEPRAG Cockpit Professional50	Activation key
144248	SFS	Visualisation of the Process	AST12, activation key
144251	SFS	Safety & Change tracking	AST12, activation key
145440	SCO	DEPRAG Cockpit Professional1	Activation key
145458B 145458C		DEPRAG ISERVE 250 Slots DEPRAG ISERVE 500 Slots	
145458E		DEPRAG ISERVE 500 Slots	
145458F		DEPRAG ISERVE 100 Slots	
145795	SCO	DEPRAG Cockpit Advanced1	Activation key
145796	SCO	DEPRAG Cockpit Advanced5	Activation key
145797	SCO	DEPRAG Cockpit Advanced10	Activation key
145798	SCO	DEPRAG Cockpit Advanced20	Activation key
145799	SCO	DEPRAG Cockpit Advanced50	Activation key
145806	SCO	DEPRAG Cockpit Basic	Activation key
146536	SFS	DEPRAG Operator Guidance	Single license, activation key
148167 148168	SFS SFS	Update annual license AST40 Update one-time AST40	Activation key Activation key
160491	SFS	Upgrade ComCenter ED	Activation key
162557	SFS	Update PKS	Activation key
162558	SFS	Industry 4.0 Interfaces (PKS)	Activation key
162560	SFS	Safety & Change tracking (PKS)	Activation key
162561	SFS	Scanner	Activation key
162562	SFS	Extended Process Control	Activation key
164785	SFS	30 days demo version	DEPRAG Cockpit Professional, activation key
164982 166163	SFS SFS	DEPRAG Universal Robots Link	Activation key
166165	SFS	Update annual license ASTi40 Update one-time ASTi40	Activation key Activation key
166217	SDL	Cockpit Programming Samples	
167387	SFS	PKS Simulation	Activation key
171939	SFS	5 licenses	for the activation of the software Clamp Force Control 109108
171941	SFS	10 licenses	for the activation of the software Clamp Force Control 109108
171961	SFS	20 licenses	for the activation of the software Clamp Force Control 109108
171964	SFS	50 licenses	for the activation of the software Clamp Force Control 109108
171966	SFS	5 licenses	for the activation of the software Clamp Force Control 142961 (AST12)
172017	SFS	10 licenses	for the activation of the software Clamp Force Control 142961 (AST12)
172019 172022	SFS SFS	20 licenses 50 licenses	for the activation of the software Clamp Force Control 142961 (AST12) for the activation of the software Clamp Force Control 142961 (AST12)
172193	SFS	5 licenses	for the activation of the software Friction value process 201820
172193	SFS	10 licenses	for the activation of the software Friction value process 201820
172209	SFS	20 licenses	for the activation of the software Friction value process 201820
172229	SFS	50 licenses	for the activation of the software Friction value process 201820
172231	SFS	5 licenses	for the activation of the software Friction value process 142959 (AST12)
172257	SFS	10 licenses	for the activation of the software Friction value process 142959 (AST12)
172276	SFS	20 licenses	for the activation of the software Friction value process 142959 (AST12)
172286	SFS	50 licenses	for the activation of the software Friction value process 142959 (AST12)
172649 172650	SFS SFS	5 licenses 10 licenses	for the activation of the software DEPRAG Graph Viewer for the activation of the software DEPRAG Graph Viewer
172689	SFS	20 licenses	for the activation of the software DEPRAG Graph Viewer
172713	SFS	50 licenses	for the activation of the software DEPRAG Graph Viewer
172733	SFS	5 licenses	for the activation of the software DEPRAG Operator Guidance
172734	SFS	10 licenses	for the activation of the software DEPRAG Operator Guidance
172735	SFS	20 licenses	for the activation of the software DEPRAG Operator Guidance
172736	SFS	50 licenses	for the activation of the software DEPRAG Operator Guidance
201820	SFS	DEPRAG Friction value process	Single license, activation key
202699	SFS	Datalogger	Activation key
206081	SFS	Statistics	Activation key
206565	SFS	ASTxx Serial Remote	Activation key

Part number index

Part no.	Cat- egory	Designation	Description		
383978A		Module WEB-IO 12E/12A			
385834A		Interface Graph Loader	(Hardware and software)		
385582A		Base station ComCenter 10			
385597A		Programming kit ComCenter PC			
815454	SAT				
815455	SAT		The basic software package regulates the functions of your system components. The functionality matches the performance capability of the relevant system control.		
815456	SAT	Software packages DFUN			
815457	SAT				
815629	SAT		The software package for visualisation and positioning. Operator guidance on the positioning control necessitates processing and sequencing visualisation. The functionality matches the performance capability of the relevant system		
815630	SAT	Software packages DVIP			
815631	SAT		control.		
815632	SAT		This software package supports the process control through BDE, MDE and MES connections.		
815633	SAT	Software packages DPRO			
815634	SAT		The functionality matches the performance capability of the		
815635	SAT		relevant system control.		
815641	SAT	Software packages DAST	The software panel for EC and EC-Servo systems. DAST is used to supervise the operation and visualisation of the screwdriver sequence controller (AST		
815642	SAT	Contware packages DAGT	series) through the system control. The functionality matches the performance capability of the relevant system control.		

Categories of our software products

Category	What do we need from our customer?	What do we deliver?		
SDL	Purchase order / PO	Download link (printed on the invoice)		
SAT	Purchase order / PO only for in-house projects (special machines): Part no. is captured internally in the customers order	Installed by DEPRAG		
SIN	Purchase order / PO, installation only possible at DEPRAG - the hardware must be sent to Amberg	Return of the hardware with installed software		
SDT	Purchase order / PO	Delivery on data medium (e.g. CD)		
SCO/SFS	Independent of a special machines project: Purchase order / PO and request file	Activation key (via my deprag)		
300/363	As part of a special machines project: Purchase order / PO	Activation already done by DEPRAG		

Activation of software products via the myDEPRAG customer portal

Category SCO / SFS – Activation (e.g. DEPRAG Cockpit Advanced version / Update AST12 annual licence)

- Navigate the menu guide for the software which requires activation to reach the request file procedure.
- Save the request file on your end device.
- Log in to the myDEPRAG customer portal under my.deprag.com.
- Search for the order number of the required software activation and place an order.
- Under My account > Order processing, you can view the status of your order.
- As soon as the order confirmation shows under the order number, the ordered licence appears in software management under My account > DEPRAG Apps.
- Select the licence number of the purchased software product.
- Activate the licence by selecting the saved request file and executing the activation.
- Download the activation file from the customer portal and save this on your end device.
- Activate the software product by uploading the activation file via the appropriate dialog in the software product.

Category SCO / SFS - Deactivate activation

- To reach the deactivation file procedure navigate the menu guide for the software product for which activation should be deactivated.
- Deactivate the software product and save the deactivation file on your end device.
- Log in to the myDEPRAG customer portal under my.deprag.com.
- Licence management is found under My account > DEPRAG Apps.
- Select the licence number of the originally purchased software product.
- Deactivate the licence by selecting the saved deactivation file and executing deactivation.
- The licence is now available to activate on another device.

Category SDL (e.g. Update package ComCenter ED with part number 117234)

- Log in to the myDEPRAG customer portal under my.deprag.com.
- Search for the required software product and place an order.
- You will find the link to download the software product on the invoice you receive for this order.
- Follow the instructions for installation in the device software and installation dialog.

Category SIN (e.g. Update package for PFC100 Controller with part number 117288)

In this instance ordering via the customer portal is not an option. Installation is only carried out in house at DEPRAG. The hardware must be sent to Amberg.

Activation of software products via the back office

For activation we require:

- the request key
- found to the right of the corresponding extension under System -> Extensions for sequence controller AST5/AST6 under Setup -> Extensions for sequence controller AST11 under Extras -> Extensions for sequence controller AST40
- the serial number of the sequence controller (found on the underside)
- your order number for the purchase of the extension
- a contact person with email address and telephone number in case of any queries

Send us these details via email to export@deprag.de. The key can either be directly copied and pasted into the email or clicked on to save in a file. In this case, attach the file to the email. In return you will receive a licence file with the corresponding activation key via email.

Activate the software product, by uploading the activation file via the appropriate software product dialog.

We recommend activation via the myDEPRAG customer portal. There is a service charge for activations which are handled via the office.

