DEPRAG

machines unlimited

DEPRAG Apps

Software Solutions and Updates

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DEPRAG Cockpit
Software for the Networked Factory!

Advantages

- Data supply via OPC UA
- 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

optimisation

parameterisation

OPTIMAL SCREWDRIVING PROCESS

visualisation

documentation

analysis
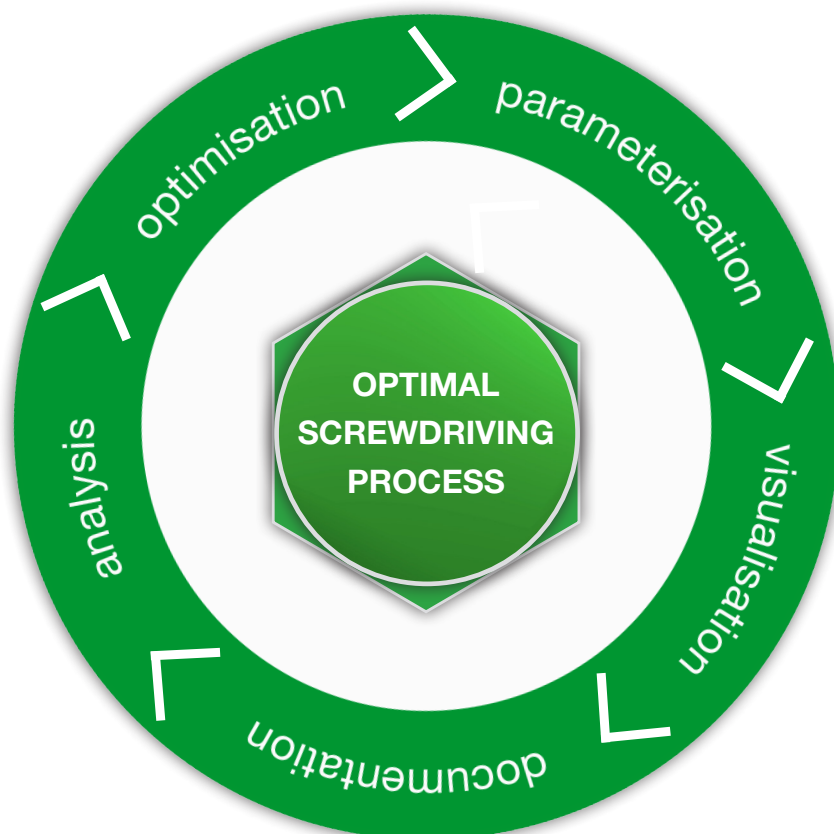
DEPRAG Cockpit
the Digital Platform for Screwdriving Technology

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

parameterisation ▸ visualisation ▸ documentation ▸ analysis ▸ optimisation

of your process.

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
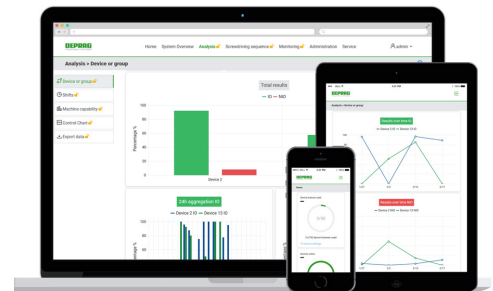
Organizer
Organize screwdriving programs > create program groups:
- Simple structuring of screwdriving programs according to component version or product
- Fast change of screwdriving programs for different product versions > saves assembly time
- Easy retrieval of screwdriving programs relating to a 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 OPC UA interface is available in all versions of Cockpit Advanced and Professional.

The software is available as a download. To activate this software, proceed as described on page 33.

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.

> **30 days demo version activation key no.164785**

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.

> **Cockpit Programming Samples no. 166217**

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.
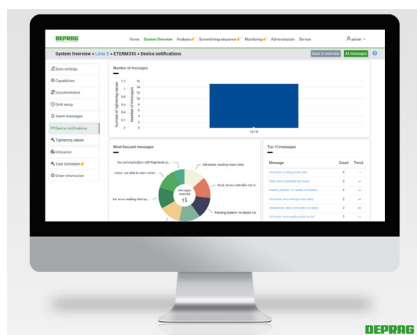
visualisation
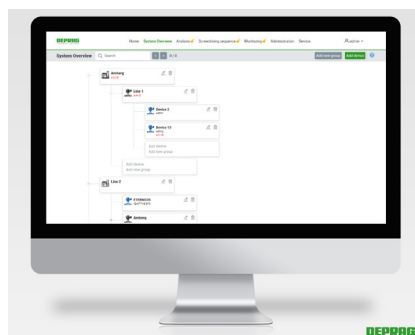
documentation

optimisation

The software packages and their features

Basic 1 license	Advanced 1, 5, 10, 20, 50 licenses	Professional 1, 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. machine capability certificates, factory certificates, repair reports, operating manuals	**PARAMETERISATION** • Basic features • Central creation and parameterisation of screwdriving programs for all devices logged in
VISUALISATION • Intuitive 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
DOCUMENTATION • 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-S/AST40

Possible combinations with AST controllers
Which software is suitable for the screwdriving system?

Hardware including software	Part no.	AST5-S	AST(i)40
Interface Graph Loader	385834A	✓	✓
Interface Graph Loader activation key	118742		

Software	Part no.	AST5-S	AST(i)40	AST12	ComCenter ED Interface 330E
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	109108	142961	x
DEPRAG Friction Value Process activation key		201820	201820	142959	201820
DCON DEPRAG CONnect activation key	136244	x	✓	✓	x
DEPRAG Smart activation key	190789	x	x	✓	x
DEPRAG Graph Viewer activation key	128901	✓	✓	✓	x
DEPRAG Data eXchange activation key	132680	✓	✓	✓	x
TIA Link activation key	135839	x	✓	✓	x
TwinCAT Link activation key	140996	x	✓	✓	x
DEPRAG Operator Guidance activation key	146536	✓	✓	✓	✓ for ComCenter ED
Visualisation of the process activation key	144248	x	x	✓	x
Safety & Change tracking activation key	144251	x	x	✓	x
DEPRAG Universal Robots Link activation key	164982	x	x	✓	x
DEPRAG iSERVE (software download)	145458B/C/E/F	x	✓	x	x
DEPRAG Cockpit Advanced 1/ 5/ 10/20/ 50	145795/145796/ 145797/145798/ 145799	x	✓	✓	✓
DEPRAG Cockpit Professional 1/ 5/ 10/20/ 50	145440/142967/ 142968/142978/ 142979	x	✓	✓	✓
Open Protocol	178341	x	✓	x	x
Process Control activation key	179966	x	x	✓	x
Process Control (duration 30 days) activation key	179972	x	x	✓	x
Allen-Bradley Link activation key	190928	x	✓	✓	x
DEPRAG GraphViewer Cloud activation key	193198	✓	✓	✓	x
AST12 Industry 4.0 interfaces activation key	142962	x	x	✓	x

Note: 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
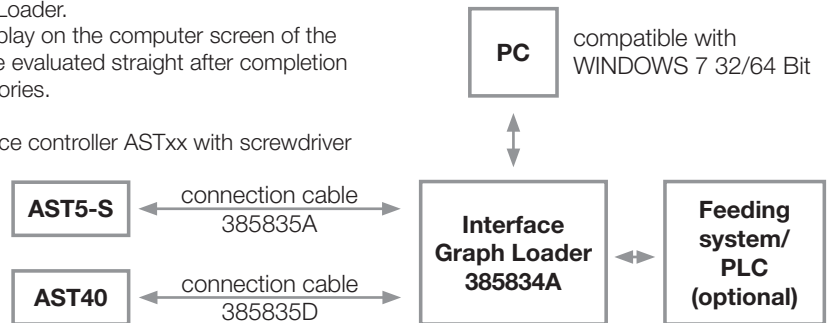in combination with the sequence controllers AST5-S and AST40

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-S and AST40.

The storage of screwdriving graphs and end value data sets (e.g. torque, angle etc.) for manual work stations and screwdriving stations can be carried out automatically using the Interface Graph Loader.
The corresponding software enables immediate display on the computer screen of the current screwdriving graph, the screw assembly can be evaluated straight after completion and *csv and *bin files can be saved in individual directories.

The device requires a suitable adapter cable, a sequence controller ASTxx with screwdriver and a PC to save the data.

The software requires a free activation (118742).
A description of the procedure can be found on page 35.

| PC | compatible with WINDOWS 7 32/64 Bit |

AST5-S — connection cable 385835A — Interface Graph Loader 385834A — Feeding system/ PLC (optional)

AST40 — connection cable 385835D — Interface Graph Loader 385834A

Datalogger
the software for EC- and EC-Servo screwdriving systems
in combination with the sequence controllers AST5-S and AST40

The software datalogger can be used to record and archive the final-values of up to 10 sequence controllers. This storage format corresponds with the required format of the software statistics, so that the data sets can be analyzed with the software statistics. Select whether the data is collected automatically while the program is running, or whether the data reading should be triggered manually. The connection to the controllers is done by Ethernet and TCP/IP. The software is available in the following languages:
German, English, French, Italian, Spanish
To activate this pre-installed software, proceed as described on page 33.

Statistics
the software for EC- and EC-Servo screwdriving systems
in combination with the sequence controllers AST5-S 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 33.

ASTxx Serial Remote
the software for EC- and EC-Servo screwdriving systems
in combination with the sequence controllers AST5-S and AST40

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 33.

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

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.

In the case of a delivery with the associated sequence controller and FAT (e.g. as part of a special machine project), the parameters are set either with application-independent standard parameters or in this case (e.g. by performing a screwdriving analysis) based on the specifications for the differential torque.

The software is already pre-installed on your hardware (e.g. sequence controller, position control stand). Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

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

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-S/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.
In the case of a delivery with the associated sequence controller and FAT (e.g. as part of a special machine project), the parameters are set either with application-independent standard parameters or in this case (e.g. by performing a screwdriving analysis) based on the specifications for the friction torque.
The software is already pre-installed on your hardware (e.g. sequence controller, position control stand). Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

Single license activation key 201820 / 142959 (*)
5 licenses 172193 / 172231 (*)
10 licenses 172194 / 172257 (*)
20 licenses 172209 / 172276 (*)
50 licenses 172229 / 172286 (*)

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

DEPRAG Connect is the software for PLC programmers who program using Beckhoff TwinCAT and DEPRAG end devices. The software product provides a simple, fast connection of DEPRAG devices in the programming environment. Time-consuming and error-prone individual programming and parameterisation is a thing of the past. Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

Activation key 136244

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

DEPRAG Smart supports PLC programmers by providing ready-to-use functions for a variety of tasks. It provides access to the function library in form of a OPC UA server. Through the standardised OPC UA interface, the system can communicate with many different PLCs and other customer systems, regardless of manufacturer.
As well as the actual OPC UA server, DEPRAG Smart also provides example applications and libraries for the PLC environments Beckhoff TwinCAT 3 and Siemens TIA Portal. These facilitate the commissioning of the system within just a few minutes and simplify the integration of functionalities in already existing PLC solutions. The complete range of functions can be found at smartdocu.deprag-software.com.
The software is available for operating systems from Windows 10. Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

Activation key 190789
Free trial software in demo mode 190828

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 the DEPRAG Graph Viewer, to simply and easily evaluate and analyse these measurement values. 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 can be downloaded via the myDEPRAG customer portal (my.deprag.com).
The software is also available as free trial software in demo mode.

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 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 and the adaptive screwdriving system ADAPTIVE DFS 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 enable the use and analysis of this data in other systems, the internal format must be converted into an external format. DEPRAG Data eXchange exports the DEPRAG graphic file either as a csv or as an Excel file. This data can now be used in other software solutions.
The software can be downloaded via the myDEPRAG customer portal (my.deprag.com).

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 AST12, AST40, for the position control stand and for the screwdriver function moudule with electronic stroke (E-SFM)

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:
AST12, AST40 incl. i-versions, position control stand, E-SFM
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 can be downloaded via the myDEPRAG customer portal (my.deprag.com).

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 can be downloaded via the myDEPRAG customer portal (my.deprag.com).

DEPRAG Cockpit Advanced and Professional
The sequence controllers AST12 and AST(i)40 support the connection to the DEPRAG Cockpit. Please find details on pages 4 to 7.

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-S, AST12 and for the ComCenter ED

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

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 can be downloaded via the myDEPRAG customer portal (my.deprag.com). The software is also available as free trial software in demo mode.

Safety & Change Tracking

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

Activation key 144251

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 can be downloaded via the myDEPRAG customer portal (my.deprag.com).

DEPRAG Universal Robots Link

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

Activation key 164982

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).

Open Protocol

the software for the EC-Servo screwdriving systems in combination with the sequence controllers AST40

Activation key 178341

Protocol for active efficient data exchange. The software is already pre-installed on your hardware (e.g. sequence controller, position control stand). Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

Process Control

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

Activation key 179966

Activation key 179972 (duration 30 days)

The process control provides a logic function which can be configured intuitively to realise simple control tasks without a higher-level controller. Ready-made function blocks such as „screw" or basic logic functions such as „AND links" are used.

In addition, the process control can evaluate the signals of 8 digital inputs (for example, evaluating a sensor to ascertain whether a part is present) and set 5 digital outputs (for example part locking). The sequences for the process control are configured on the AST12 website.

Available from AST12 software version 2022.09. Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

Allen-Bradley Link

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST12, AST(i)40 and for the position control stand

Activation key 190928

Integration in the programming environment "Studio 5000 Logix Designer" is required for the operation of DEPRAG devices with the current Allen-Bradley (Rockwell Automation) Logix controllers. The Allen-Bradley Link software is used for simple quick integration of the AST12, AST(i)40 controllers as well as the DEPRAG position control stand. The software contains integration in the Studio 5000 Logix Designer as well as several Quick Start projects in the "Kontaktplan" (contact plan) programming language which enable immediate screw assembly without having to spend time mastering the time-consuming communication processes using the user manual.

All Logix series controllers which are programmable with Studio 5000 Logix Designer are supported. The software is available for Windows 10 onwards. The software download is available from the myDEPRAG customer portal (my.deprag.com).

AST12 Industry 4.0 Interfaces

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

Activation key 142962

OPC UA: Currently not yet available | MQTT: Protocol for active efficient data exchange (M2M)

REST: Interface for communication (M2M) | FTP: Process documentation

The software is already pre-installed on your hardware (e.g. sequence controller, position control stand). Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal.

DEPRAG iSERVE

DEPRAG iSERVE for the independent parameterisation of screwdriving programs
for sequence controller 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 configured, 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 storage spaces **part no. 145458E**	**up to 250 storage spaces** **part no. 145458B**
up to 100 storage spaces **part no. 145458F**	**up to 500 storage spaces** **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

DEPRAG Cloud Solutions
the web-based applications

DEPRAG GraphViewer Cloud

the web-based application for the visualisation of screwdriving curves
the software for the screwdriving system DEPRAG Plus in combination
with the sequence controller AST12 as well as for the EC-Servo screwdriving
system in combination with the sequence controller AST5-S and for the ADAPTIVE DFS

This software allows you to analyse and optimise your tightening process.
For more information, please visit graphviewer.deprag.com.
Duration: 12 months

Activation key 193198
Duration: 12 months

DEPRAG Cloud Solutions
the web-based applications

Software Solutions for MINIMAT-ED
Digital Electric Screwdriver, handheld

Possible combinations with MINIMAT-ED, the digital electric screwdriver

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

The ComCenter ED supports the connection to the DEPRAG Cockpit. Please find details on the DEPRAG Cockpit on pages 4 to 7.

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

ComCenter ED OS BASIC 103196A

ComCenter ED OS ADVANCED 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	☑	☑
Tightening to torque with angle control	☒	☑
Tightening to angle	☑	☑
Tightening to angle with torque control	☒	☑
Loosening to angle	☑	☑
DEPRAG Friction Value Process	☒	☑
Search run / save values / waiting time	☒	☑
Statistics	☒	☑
Automatic speed reduction	☒	☑
Documentation	7 days production	7 days production
DEPRAG Operator Guidance	☒	☑
Communication interfaces	I/O interface	I/O interface and http interface
Category B (VDI/VDE 2862)	☑	☑
Category C (VDI/VDE 2862)	☑	☑

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

The Interface 330E supports the connection to the DEPRAG Cockpit. Please find details on the DEPRAG Cockpit on pages 4 to 7.

Interface 330E with software 330 OS BASIC
the hardware with integrated software for the stationary, digital electric screwdriver MINIMAT-ED

Interface 330E OS BASIC 106744B

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

Interface 330E OS ADVANCED 106744C

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 10 for details)
  - search run / save values / waiting time
- Statistics
- Speed reduction setting
- Extended end values

Software Solutions for MINIMAT-EDS Digital Electric Screwdriver, stationary

Possible combinations with MINIMAT-EDS, the digital electric screwdriver

Software solutions for MINIMAT-EDS, the digital electric screwdriver with integrated power electronics			
330EDS Application Programming Interface API (activation key)	Part no.	185130	PLC module, Quick start - for simple integration into the Beckhoff TwinCAT III development environment.
DEPRAG Friction value process activation key (details page 11)	Part no.	201820	License for 1 screwdriving system

The MINIMAT EDS screwdriver supports the connection to the DEPRAG Cockpit Professional. Please find details on the DEPRAG Cockpit on pages 4 to 7.

330EDS Application Programming Interface API
the software for the stationary, digital electric screwdriver MINIMAT-EDS

**Activation key
185130**

The Quick start application enables the screwdriving system to be commissioned and tested quickly and easily. By accessing the Application Programming Interface (API) of the PLC module, selected functions can be used without programming knowledge. This supports initial commissioning, diagnostics during servicing and product presentations.

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 Generation 5
DEPRAG Graph Viewer activation key	128901	✓
ADFS Threaded Fastener activation key	111914	✓
ADFS Calibration, annual license, activation key	135894	✓
DEPRAG Data eXchange activation key	132680	✓
ADAPTIVE DFS Two Step Penetration activation key	138918	✓
ADAPTIVE DFS MQTT activation key	138445	✓
ADAPTIVE DFS Synoptic activation key	185355	✓
ADAPTIVE DFS Adaptive Tightening activation key	185356	✓
ADAPTIVE DFS Clamp Force Control activation key	185129	✓
ADAPTIVE DFS OS BASIC activation key	160639	✓
DEPRAG GraphViewer Cloud activation key	193198	✓

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 10 for details.

ADFS Threaded Fastener

the software for ADAPTIVE DFS

Process software for flow forming screws.
Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

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

Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

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

See page 11 for details.

ADAPTIVE DFS Two Step Penetration

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

Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

ADAPTIVE DFS MQTT
the software for ADAPTIVE DFS

This modern industry 4.0 interface allows continuous processing parameters to be received on demand.
All process-relevant results are transmitted to an MQTT broker. Alongside the classic parameters of torque, angle and processing time, these also include a wide variety of other outputs, such as screwdriving curves.
Initial commissioning is fast and cost-effective due to the simple protocol and high reliability.
Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

ADAPTIVE DFS Synoptic
the software for ADAPTIVE DFS

The complete ADAPTIVE DFS system can be schematically displayed using the Synoptic visualisation software. When notifications relating to components appear, they can be allocated and displayed. Just click on the highlighted component for the message detail, a description of the possible causes and a suggested solution. This fast diagnosis is a significant time saver.
Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

ADAPTIVE DFS Adaptive Tightening
the software for ADAPTIVE DFS

In the new screwdriving procedure Adaptive Tightening, the shut-off torque for each assembly is individually calculated according to the threadforming torque recorded. This new procedure is therefore ideally suited to battery pack assemblies and assemblies with or without pilot hole.
Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

ADAPTIVE DFS Clamp Force Control
the software for ADAPTIVE DFS

The new screwdriving procedure Clamp Force Control enables detection of the seating point of the fastener with subsequent angle or torque assembly (difference torque). This procedure is therefore suitable for assemblies of battery packs and the installation of covers. Assembly with pilot hole using the ADAPTIVE DFS System is a prerequisite for ADAPTIVE DFS Clamp Force Control.
Activate the activation key and manage licenses effortlessly via the myDEPRAG customer portal (my.deprag.com).

ADAPTIVE DFS OS BASIC
the software for ADAPTIVE DFS

The activation includes the operating system for an ADAPTIVE DFS (DEPRAG Fastening System).
In terms of hardware, a DPUi is required. In order to operate the system, a process activation, such as these below, is additionally required:

• ADFS Threaded Fastener 111914
• ADFS Adaptive Tightening 185356
• ADFS Clamp Force Control 185129

The software download is available from the myDEPRAG customer portal (my.deprag.com). Registered users can activate the activation code and manage licences on myDEPRAG customer portal.

DEPRAG GraphViewer Cloud
the web-based application for the visualisation of screwdriving curves

See page 14 for details.

DEPRAG Cockpit Advanced and Professional

The position control stand types with electronics support the connection to the DEPRAG Cockpit. Please find details on the DEPRAG Cockpit on pages 4 to 7.

Scanner, the software for the position control stand

- Sequence selection using a scanned code
- Automatic matching of processing data with the scanned code

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 on myDEPRAG customer portal.

Activation key 162561

Update PKS, the software for the position control stand

You receive the latest security updates, extended functions and drivers. By keeping your software version up-to-date, you can ensure that your device is optimally prepared and protected for all the innovations relating to Industry 4.0.

The software download is available from the myDEPRAG customer portal (my.deprag.com).

Registered users can activate the activation code and manage licences on myDEPRAG customer portal.

Activation key 162557

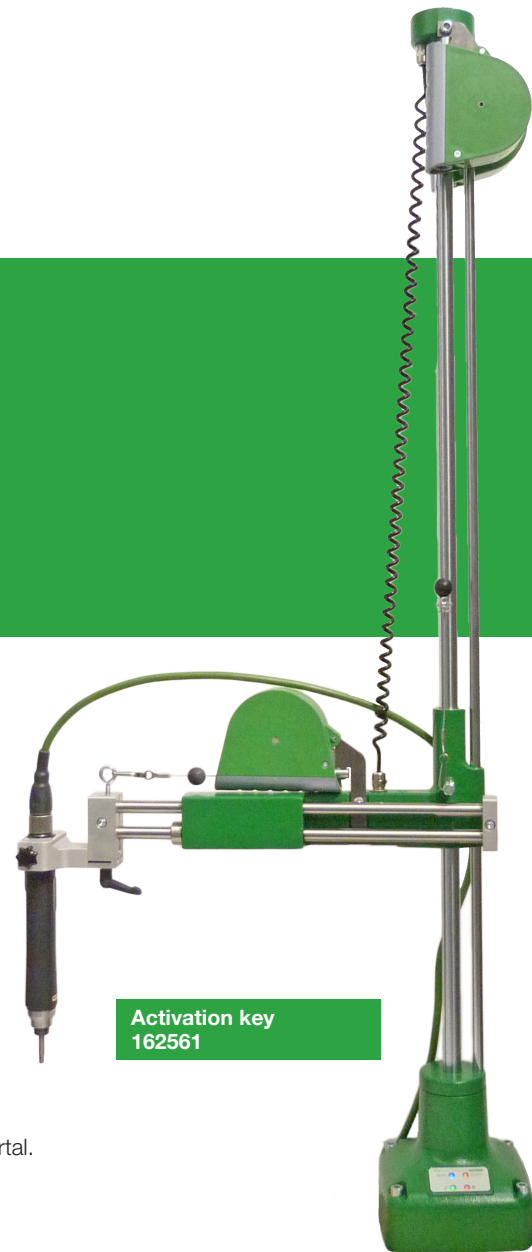## PKS Simulation, the software for the position control stand

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 on myDEPRAG customer portal.

Activation key 167387

Allen-Bradley Link

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST12, AST(i)40 and for the position control stand

See page 12 for details.

Activation key 190928

Software Solutions for Position Control Stand PKS

TIA Link

the software for the screwdriving system DEPRAG Plus as well as EC- and EC-Servo screwdriving systems in combination with the sequence controllers AST12, AST40 and for the position control stand

See page 11 for details.

Activation key 135839

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 AST12, AST40 and for the position control stand

See page 11 for details.

Activation key 140996

Extended Process Control, the software for the position control stand

- Documentation of screwdriving results and position in the PKS final value data set
  (screwdriving system DEPRAG Plus)
- Digital operator guidance with questions and instructions
- The use of several component images per sequence
The software download is available from the myDEPRAG customer portal (my.deprag.com).

Activation key 162562

Industry 4.0 Interfaces, the software for the position control stand

REST: interface for communication (M2M) | MQTT: Protocol for active efficient data exchange (M2M)
FTP: Process documentation | WebSocket: interface for communication (M2M)
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 on myDEPRAG customer portal.

Activation key 162558

Safety & Change Tracking, the software for the position control stand

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 on myDEPRAG customer portal.

Activation key 162560

Software Solutions for Screwdriver Function Module with electronic stroke (E-SFM)

E-SFM Manager
the parameterisation software for screwdriver function module with electronic stroke

The E-SFM Manager is used for parameter adjustment of movement steps (sequences), as well as to save these on the E-Control.

The software download is available from the myDEPRAG customer portal (my.deprag.com).

**Activation key
192336**

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 connection cable 385520B required to connect the PC and PFC100 must be ordered separately.

The software download is available from the myDEPRAG customer portal (my.deprag.com).

Available languages: German and English

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 Automation

Software packages for DCOS processing and system controllers

Intelligent software packages									
DFUN		**DVIP**		**DPRO**		**DAST**		**DSPEC**	**DCON**
	Part no.		Part no.		Part no.		Part no.		
DFUN10	815454			DPRO10	815632			Part no. based upon order.	Part no. 136244
DFUN100	815456	DVIP100	815630	DPRO100	815634	DAST100	815641		
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 catalogs D3390 and D3350.

DFUN – **D**EPRAG **FUN**ction – combines and controls all standard functions on the manual work station.

DPRO – **D**EPRAG **PRO**cess – process control and data processing (BDE, MDE, MES, Industry 4.0).

DVIP – **D**EPRAG **VI**sion and **P**osition – position control and visualisation of assembly tasks.

DAST – **D**EPRAG **A**blauf**ST**euerung – central operation of all EC screwdriver controllers via a DCOS operating panel.

DSPEC – **D**EPRAG customer **SPEC**ification – the software solution customised to your application.

DCON – DEPRAG **CON**nect – 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-S	AST40	ASTi40
		Part no.	117217	114254	114261
Firmware update one-time		Part no.	-	148168	166165
Firmware update annual license		Part no.	-	148167	166163

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

UPDATE	for	controller	AST10	AST5	AST6	ASTi6	AST11	AST30-31
		Part no.	117340	114268	114269	114270	114271	117343

for EC screwdriver, EC-Servo screwdriver, electric screwdriver

UPDATE	for 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.	160640

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.	Category	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
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	Connection PFCi-DPU200	Driver and visualisation for DPU
117217	SDL	Update	Sequence controller AST5-S
117232	SDL	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-..
117280	SIN	Update	Function control fc11
117283	SIN	Update	Function control fc20
117284	SIN	Update	Charger 833881 (MINIMAT-EC cordless screwdriver)
117285	SIN	Update	Battery Li-Ion 367V 54Wh 833880 (MINIMAT-EC cordless screwdriver)
117287	SDL	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
122000	SFS	PFC100 Manager	Activation key
125134	SDL	DEPRAG Datalogger	
125135	SDL	Update for ASTxx Serial Remote	
128901	SFS	Single license Graph Viewer activation key	For sequence controller AST (software requires activation)
132680	SFS	DEPRAG Data eXchange activation key	Software requires activation
135839	SFS	TIA Link activation key	
135894	SFS	ADFS Calibration, annual license	Activation key
136244	SFS	DEPRAG Connect	Activation key
137354	SIN	Update	Measurement device BME
137355	SIN	Update	Measurement device ME1000DMS
137361	SDL	Update	Measurement device ME6100
137362	SDL	Update	Measurement device ME6000F
137480	SIN	Update	Function control fc10
137482	SIN	Update	SZG Controller 6
137484	SIN	Update for handle	311Exx screwdriver
137500	SIN	Update	Measurement device ME1000PE
138445	SFS	ADAPTIVE DFS MQTT	Activation key
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	SFS	DEPRAG Clamp Force Control	Single license, activation key (for AST12)

Part number index

Part no.	Category	Designation	Description
142962	SFS	AST12 Industry 4.0 Interfaces	Activation key
142965	SFS	Update annual license	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		DEPRAG iSERVE 250 Slots	
145458C		DEPRAG iSERVE 500 Slots	
145458E		DEPRAG iSERVE 50 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	SFS	Update annual license AST40	Activation key
148168	SFS	Update one-time AST40	Activation key
160491	SFS	Upgrade ComCenter ED	Activation key
160639	SFS	ADAPTIVE DFS OS BASIC	Activation key
160640	SFS	ADAPTIVE DFS Update	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	SFS	DEPRAG Universal Robots Link	Activation key
166163	SFS	Update annual license ASTi40	Activation key
166165	SFS	Update one-time ASTi40	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	SFS	20 licenses	for the activation of the software Clamp Force Control 142961 (AST12)
172022	SFS	50 licenses	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
172194	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	SFS	5 licenses	for the activation of the software DEPRAG Graph Viewer
172650C	SFS	10 licenses	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
178341	SFS	Open Protocol	Activation key
179966	SFS	Process Control	Activation key
179972	SFS	Process Control (duration 30 days)	Activation key
185129	SFS	ADAPTIVE DFS Clamp Force Control	Activation key

Part number index

Part no.	Category	Designation	Description
185130	SFS	330EDS Application Programming Interface API	Activation key
185355	SFS	ADAPTIVE DFS Synoptic	Activation key
185356	SFS	ADAPTIVE DFS Adaptive Tightening	Activation key
190789	SFS	DEPRAG Smart	Activation key
190828	SFS	DEPRAG Smart demo mode	Activation key
190928	SFS	Allen-Bradley Link	Activation key
192336	SFS	E-SFM Manager	Activation key
193198	SFC	DEPRAG GraphViewer Cloud	Activation key
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
385834A		Interface Graph Loader	(Hardware and software)
815454	SAT	Software packages DFUN	The basic software package regulates the functions of your system components. The functionality matches the performance capability of the relevant system control.
815455	SAT		
815456	SAT		
815457	SAT		
815629	SAT	Software packages DVIP	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 control.
815630	SAT		
815631	SAT		
815632	SAT	Software packages DPRO	This software package supports the process control through BDE, MDE and MES connections. The functionality matches the performance capability of the relevant system control.
815633	SAT		
815634	SAT		
815635	SAT		
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 series) through the system control. The functionality matches the performance capability of the relevant system control.
815642	SAT		

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)
SCO/SFS	**As part of a special machines project:** Purchase order / PO	Activation already done by DEPRAG
SFC	Purchase order / PO	Email containing licence information. The software can be accessed via an internet link.

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-S
  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.

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