BAUMÜLLER

Software Tools

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Software Tools

Our software tools let you easily determine the optimal drive solution for your machine, save a lot of time during the initial start-up of your system and profit from a very simple parameterization and operation – regardless of whether you are a beginner or a pro.

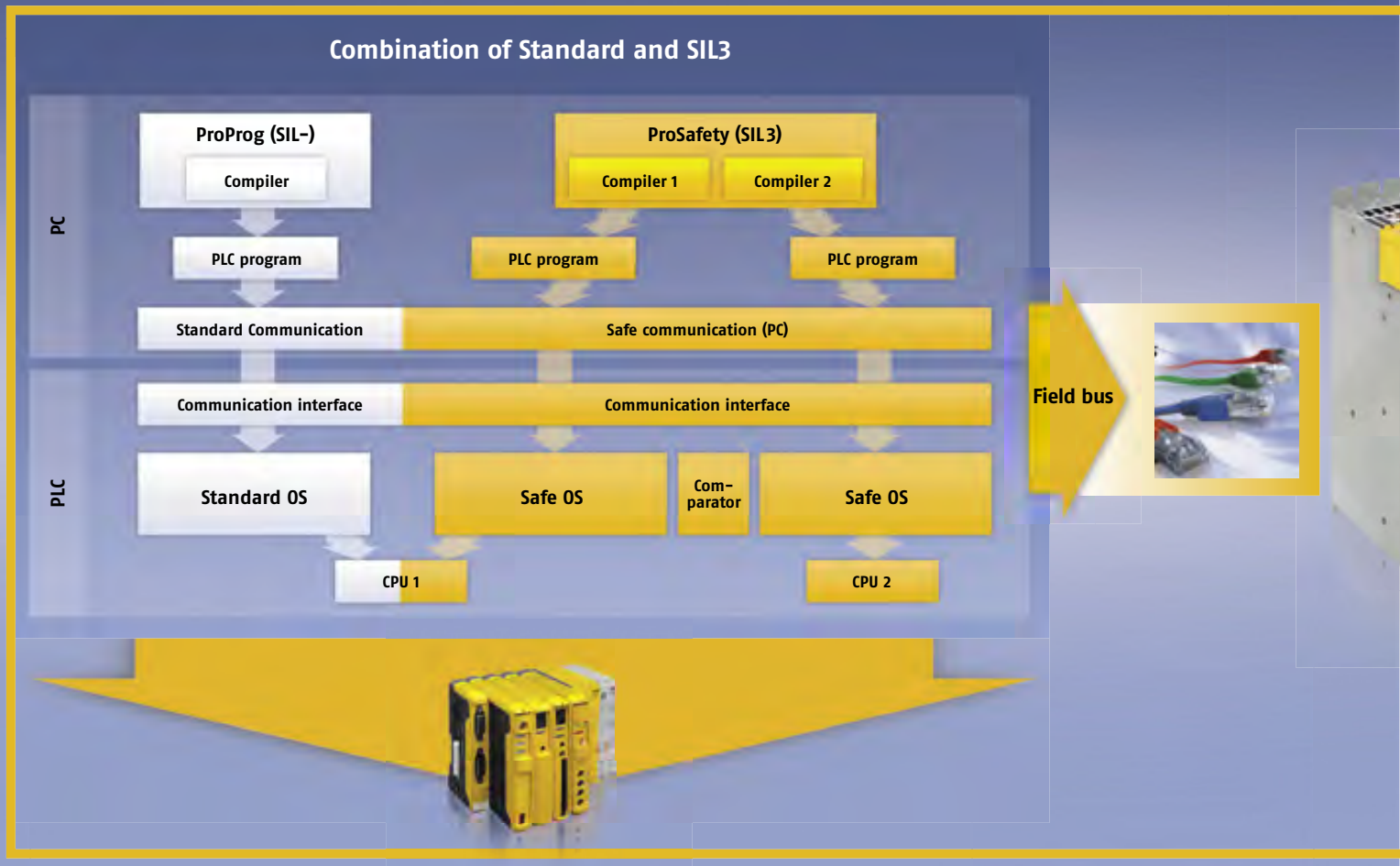
ProMaster
Engineering Framework

The more intuitive the engineering, the more efficient will be the automation solution. ProMaster allows you to introduce new machine concepts to the market-place more quickly and you systematically increase the added value of your machine.

Consistent machine configuration, parametrization, programming and diagnosis are the fundamental aspects for a machine-oriented application. The implementation of the independent standards such as Motion Control functionalities in accordance with PLCopen or EtherCAT field bus are used. Your knowledge is managed in the form of parameters and functions in data-sets and libraries — over the entire machine life cycle.

ProMaster

ProProg wt III ProSafety ProEtherCAT



ProSafety – Safety with ProMaster

The ProSafety programming system, together with its real-time environment, was developed according to the IEC 61508 requirements and covers the entire range of safety functions up to Safety Integrity Level 3 (SIL 3). A machine can be operated safely with little expenditure thanks to ProSafety. A wizard guides the user to a safe control program in just a few steps.

Your benefit

- Full integration of the safety programming and configuration with a uniform project database in ProMaster
- Consistent and transparent integration of the safety technology in the ProMaster engineering framework. Using ProSafety guarantees complete, safe configuration
- Combination of standard and SIL 3 programming on a controller fully possible and without any repercussions
- PLCopen Safety function modules are available as library elements for easy safety programming
- Configuration of safe devices, such as drives, sensors, relays and terminals
- In conjunction with our safe drives and bus terminals, safe systems can be implemented pursuant to IEC 61508 (up to SIL 3) and EN 13849 (up to PL e)

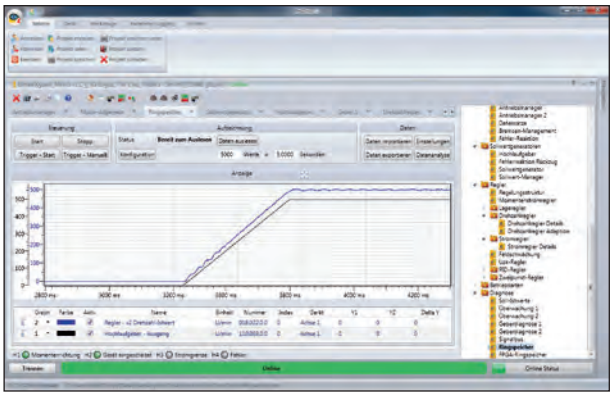
ProDrive

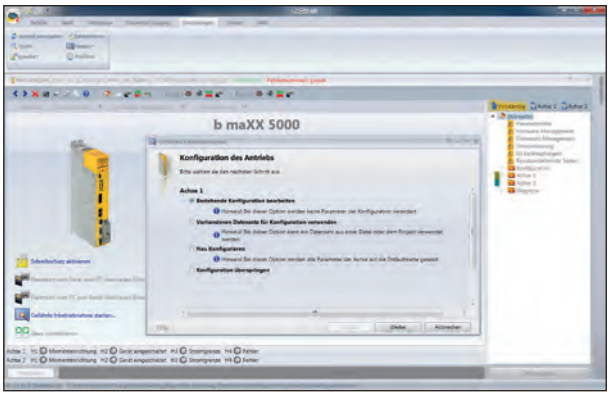
Ease of operation for newcomers

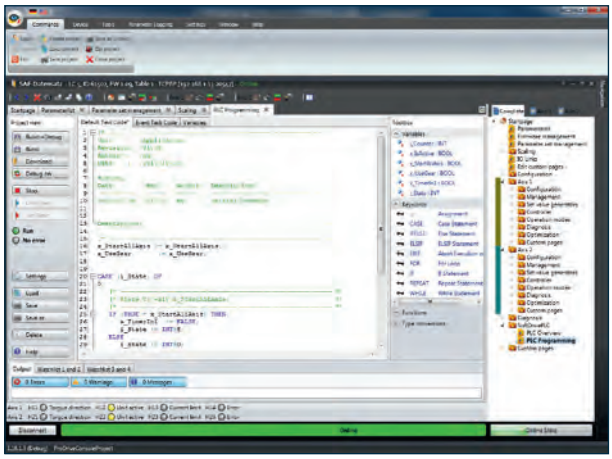
The support provided by the graphic user inter-face is very important for newcomers when parameterizing the controller. By clicking on the overview page, the user gains quick access to the individual interfaces of the drive functions. Here, he will initially only find the most important parameters, clearly arranged. In the details view, all the parameters of the corresponding drive function are listed on one page. This enhances transparency and eliminates the possibility of a mal-operation.

Range of functions

- Integrated, updateable power module, motor and encoder database, thus ensuring up-to-date maintenance via subsequently loaded modules
- Diagnosis/analysis tools such as oscilloscope function and FFT-analysis for optimization down to the last detail and for the simple and trans-parent analysis of the drive system; additional diagnosis devices are not necessary
- On-/offline-parameterization
- Single Axis or Multi Axis operation via Ethernet
- Language selection: German/English
- Guided commissioning with wizard







With the b maXX softdrivePLC Baumüller combines motion control and SPS functions in the controller and makes separate control hardware unnecessary for some applications.

Hence, ProDrive is a tool that can save newcomers and advanced users a great deal of time: parameterization, commissioning, analysis and (remote) diagnosis.

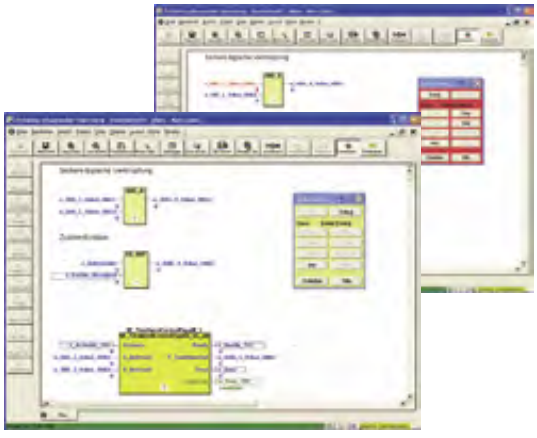
ProSafePara

The safety library

Baumüller currently offers 17 safety function modules based on PLCopen Safety which allows for an easy implementation of advanced safety functions.

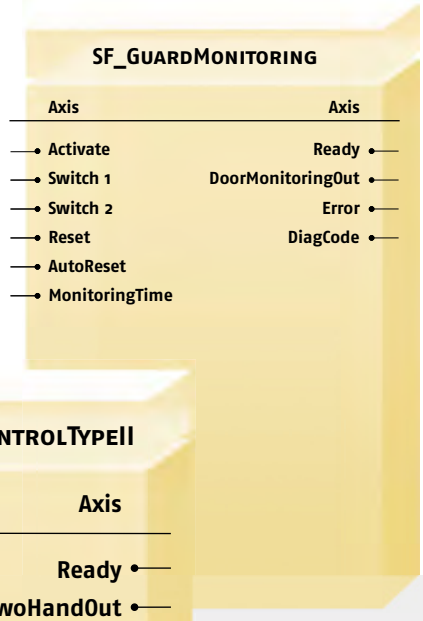
The comprehensive integration of safety, motion/logic and communication technology in Baumüller automation platforms offers the user high performance and profitability.

ProSafety is an integral part of the ProMaster Engineering Framework and can be programmed as easily as the common programming languages FBD (Function Block Diagram) and LD (Ladder Diagram) based on IEC 61131-3.



Your benefit

- Creation of safety applications from a purely technological and process-oriented viewpoint
- Communications programming and expert knowledge in field bus and real-time Ethernet technologies no longer required
- Clearly reduced wiring expenditure in conjunction with a programmable safety function



ProSafety modules

Module	Task
SF_Antivalent	Antivalent signal evaluation
SF_EDM	External device monitoring
SF_EnableSwitch	Enable switch
SF_Equivalent	Equivalent signal evaluation
SF_ESPE	Electro-sensitive protective equipment (ESPE)
SF_EmergencyStop	EMERGENCY STOP
SF_GuardLocking	Guard lock
SF_GuardMonitoring	Guard monitoring
SF_ModeSelector	Operating mode switch
SF_MutingPar_2Sensor	Parallel muting with two sensors
SF_MutingPar	Parallel muting
SF_MutingSeq	Sequential muting
SF_OutControl	Output control
SF_SafetyRequest	Safety request
SF_TestableSafetySensor	Safety sensor type 2 test
SF_TwoHandControlTypeII	Two hand control type 2
SF_TwoHandControlTypeIII	Two hand control type 3

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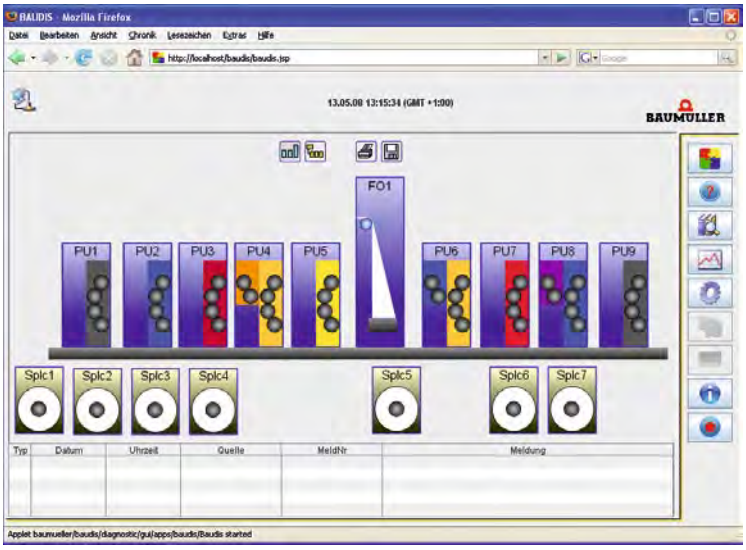
BAUDIS – Diagnostic and remote monitoring system



Platform-independent architecture and Internet-based operation

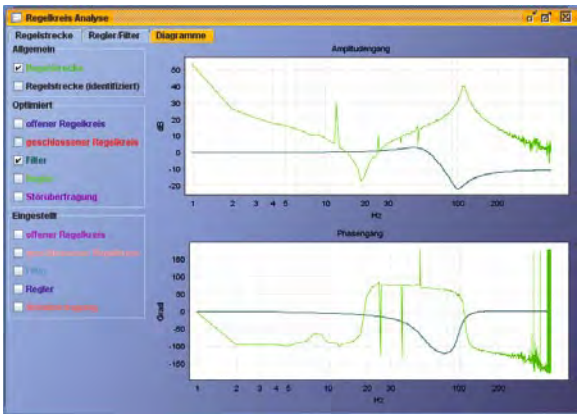
- System diagnostics via intranet and Internet
- Easy integration into system-dependent control centers
- Platform-independent presentation of diagnostic data

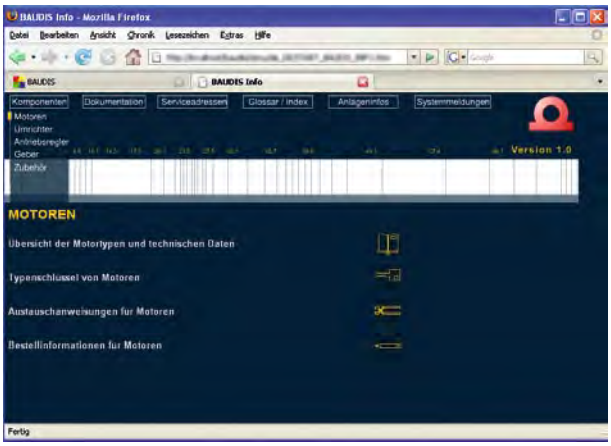
Modular construction with libraries

- Expandability and flexible adaptation to the needs of other industries
- Easy and quick creation of overviews for system diagnosis
- Drive-integrated diagnostics to PC-based diagnostics

Frequency response analysis and automatic regulator and filter settings

- Preventative diagnostics via the comparison of recorded frequency responses
- Software-supported drive optimization
- Analysis with the synthesis of digital filters that are specially configured to the regulation problem
- Signal analysis of the path of regulation with automated regulator configuration in regulated and controlled operation





Integrated help and maintenance support information

◎ Quick help when drive system signals

◎ Easier localization of fault causes

◎ Access to documentation for operating and replacement instructions for system components

◎ Management of system specific and customer-specific additions to the help and information system

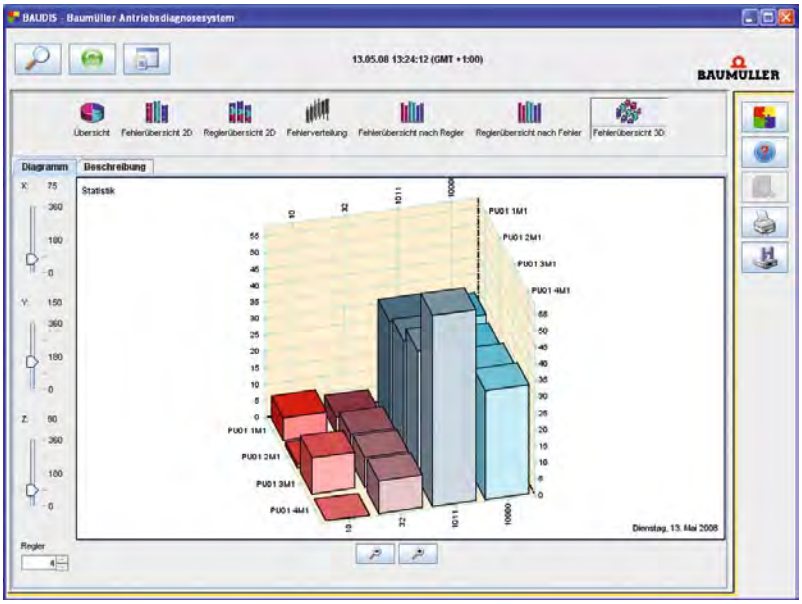
Additional functions

◎ Graphic evaluation of logs for finding fault frequencies

◎ Secure backup of a single drive or all the drives in a system

◎ Quick uploading and downloading of data records for one or more drives simultaneously

◎ Configurable routine monitoring of important operating parameters of the drive system



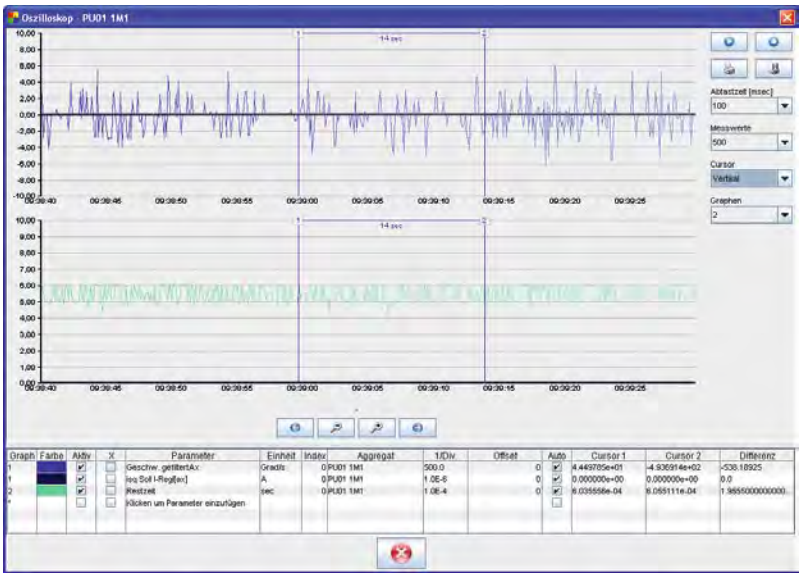
Integrated oscilloscope

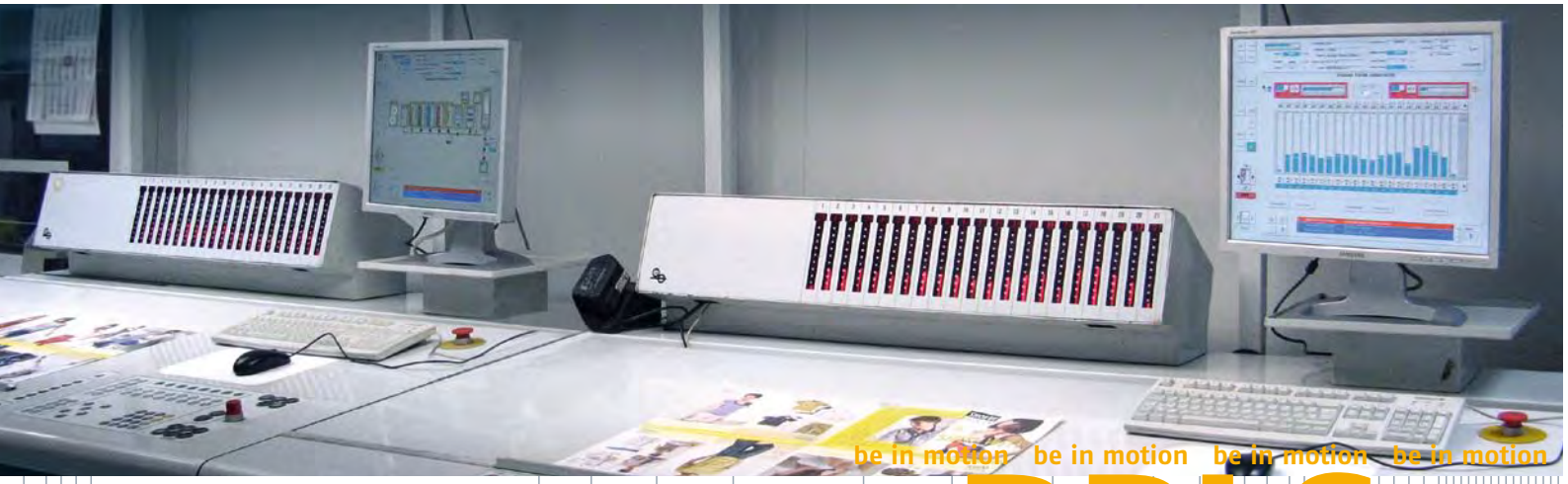
◎ Graphic display of various characteristics of the drive system

◎ Online and offline display of captured values

◎ Cursor function for the determination of exact values

◎ Averaging of characteristics using mathematical functions, such as differencing and mean value calculation





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BPLS

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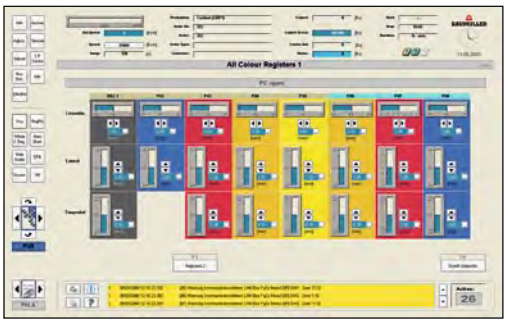
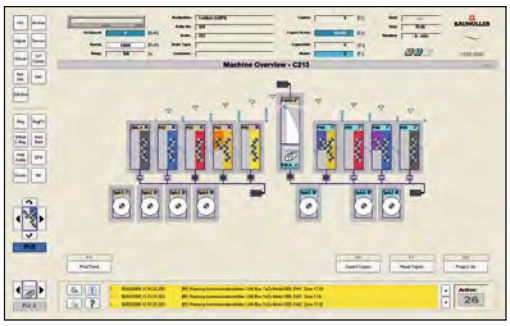
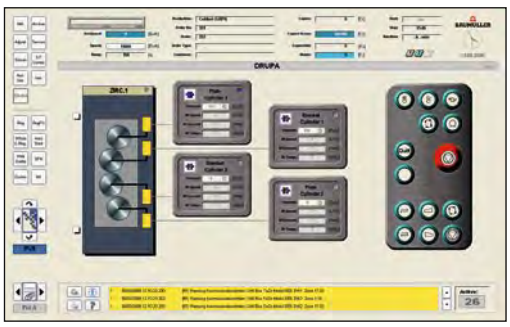
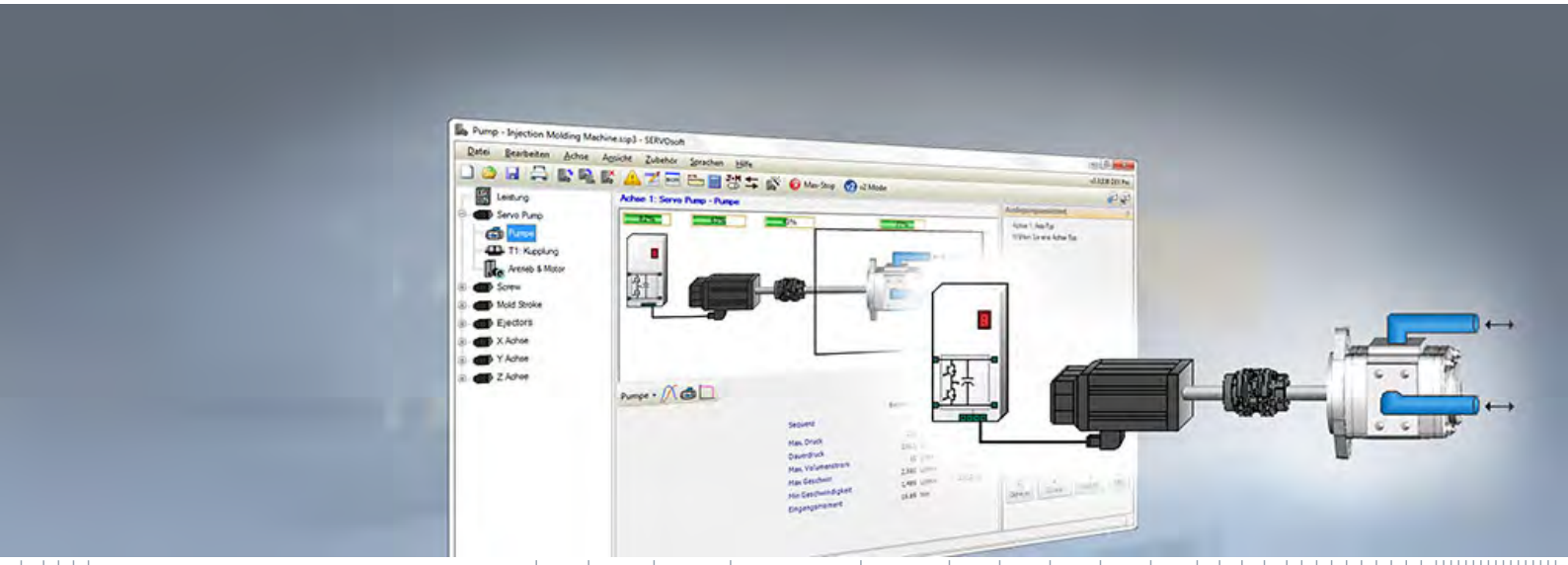
Baumüller process control system – BPLS







- A control center for the visualization and management of production and machine parameters for the graphic arts industry
- Convenient, simple, self-explanatory and ergonomically correct operation
- Preparation for subsequent production step while production is taking place is possible, which translates to faster conversion
- Presetting of color zones by importing CIP3 data is possible
- PC-based, which makes it ideal for the replacement of discontinued hardware components
- Control center provides interfaces to subsystems from other manufacturers, e.g. for the integration of color density regulation or connection to ERP systems
- Increase in productivity, reliability and availability, including for older printing machines, thanks to the use of the BPLS
- Complete solutions for new machines and retrofit solutions, from the controller to the drive to the control center.



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sizemaXX drive configurator

Drive configuration made easy

Configuring complete drive groups with sizemaXX. Baumüller developed a new software for drive dimensioning. The user can dimension up to six drives with sizemaXX.

This software from Baumüller allows for determining the perfect drive solution for a specific application
Users who are looking for new drives for their machines can access a helpful tool at www.baumueller.de, where sizemaXX is available in the download area.

This software from Baumüller allows for determining the perfect drive solution for a specific application.

All standard functionalities of the Baumüller drives are stored in a data record in sizemaXX. They are always up-to-date and available to the user since the database can always be updated online. This allows for easily, quickly and precisely configuring complete drive groups. Up to six drive units, consisting of motor and converter, can be dimensioned in an interconnected system.

The drive sizes are cleanly dimensioned together with the converter as well as the DC link, brake and feedback power. The user receives a component specification as the evaluation of his requirements. Existing cam disks are directly imported in sizemaXX and can be integrated with the ProCam editor.

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