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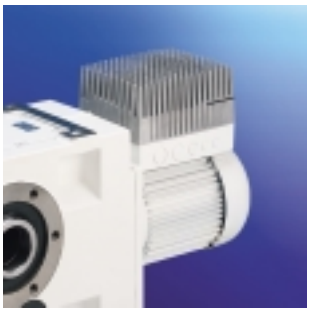

Global Drive Control

Software for operation, parameterization and diagnostics of intelligent drives

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Global Drive Control

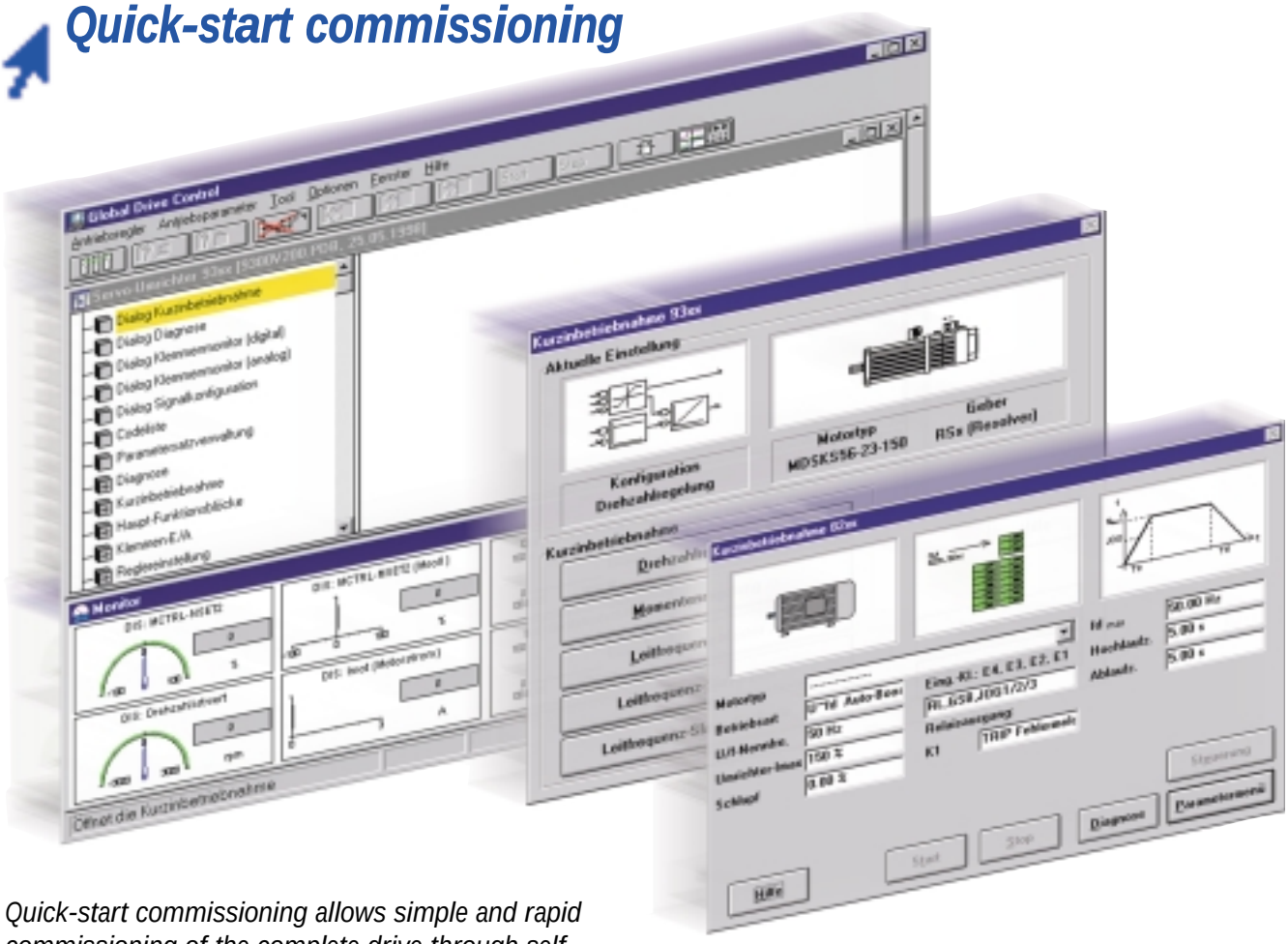
Intelligent drives are being installed in increasing numbers in modern production systems. In addition to their normal drive tasks, these drives handle technology functions for the production process.

Global Drive Control (GDC) provides a tool for the operation, parameterization and diagnostics of drive tasks that is clearly laid out and easy to understand.

GDC offers the following features

- ***Rapid and simple commissioning of the drive with "Quick-start" commissioning***
- ***Numerous help functions enable simple operation, even for inexperienced users***
- ***Comfortable diagnostic options through various monitoring windows and oscilloscope functions***
- ***Simple interfacing with the drive, through RS232/485, optical fibres, or via the system bus***

Quick-start commissioning



Quick-start commissioning allows simple and rapid commissioning of the complete drive through self-explanatory dialogs. All the parameters that are required for the drive train are entered in a menu that is appropriate to the drive controller and appears on the screen automatically. And extensive help functions that match the inverter are always available, with detailed descriptions of the individual parameters.

Global Drive Control

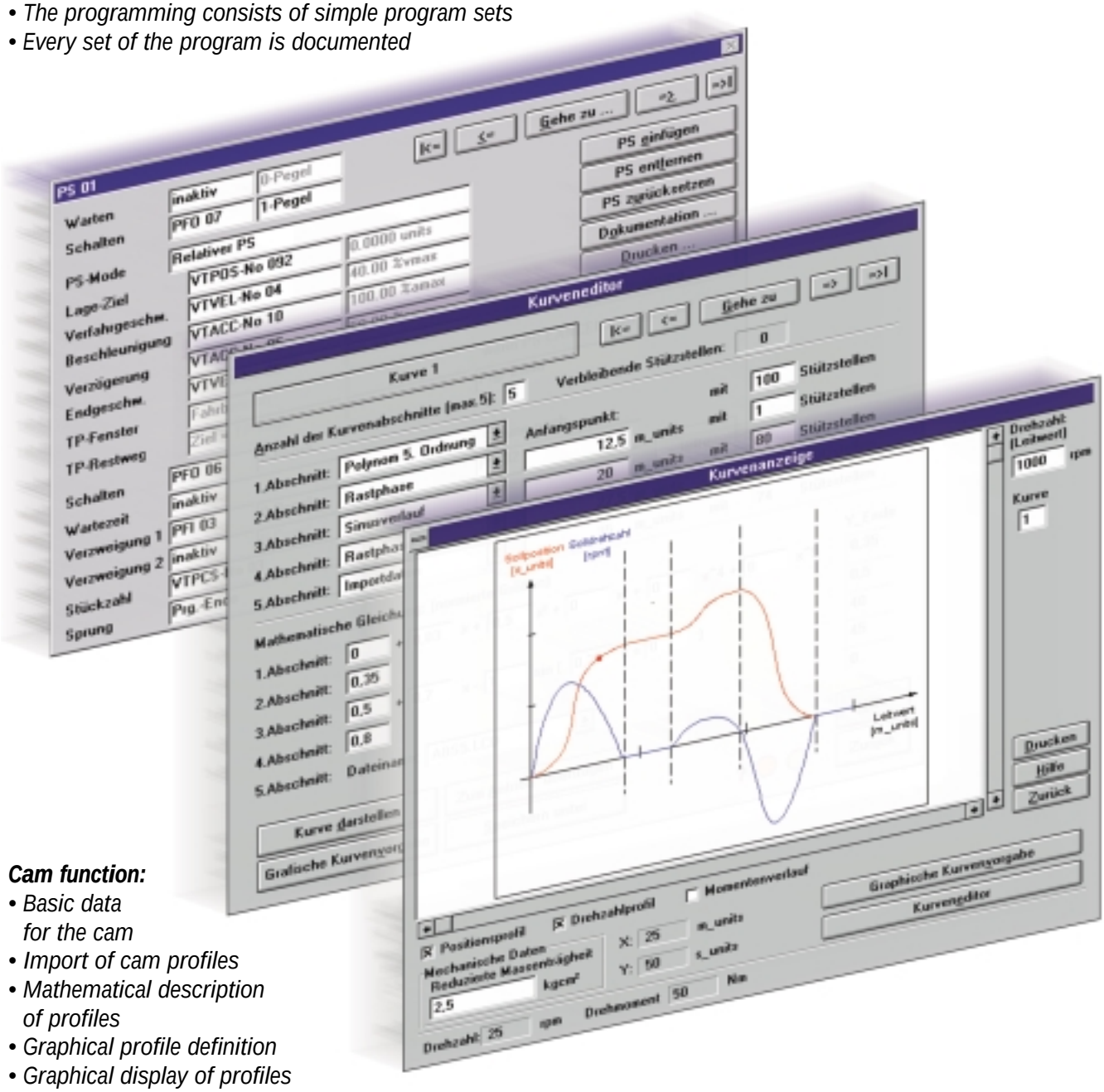
Commissioning of technology functions

for the 9300 series of drive controllers

A number of technology functions are available for the Global Drive servo controllers to solve special drive problems.
No programming knowledge is necessary for the simple commissioning and adaptation of these functions.

Various windows make operation easier
Examples:

Positioning control:
- *The programming consists of simple program sets*
- *Every set of the program is documented*



Cam function:
- *Basic data for the cam*
- *Import of cam profiles*
- *Mathematical description of profiles*
- *Graphical profile definition*
- *Graphical display of profiles*

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Global Drive Control

Programming

for the 9300 series of drive controllers

Further clearly laid-out dialogs are available in the GDC for programming the Global Drive servo controllers.
The functionality of the inverter is shown in a function-block structure, which is automatically generated when quick-start commissioning is used. The individual function blocks represent intelligently grouped functional elements with their inputs and outputs.
The programming, which does not require any programming knowledge, is performed with the aid of the function-block editor that is included in the GDC.

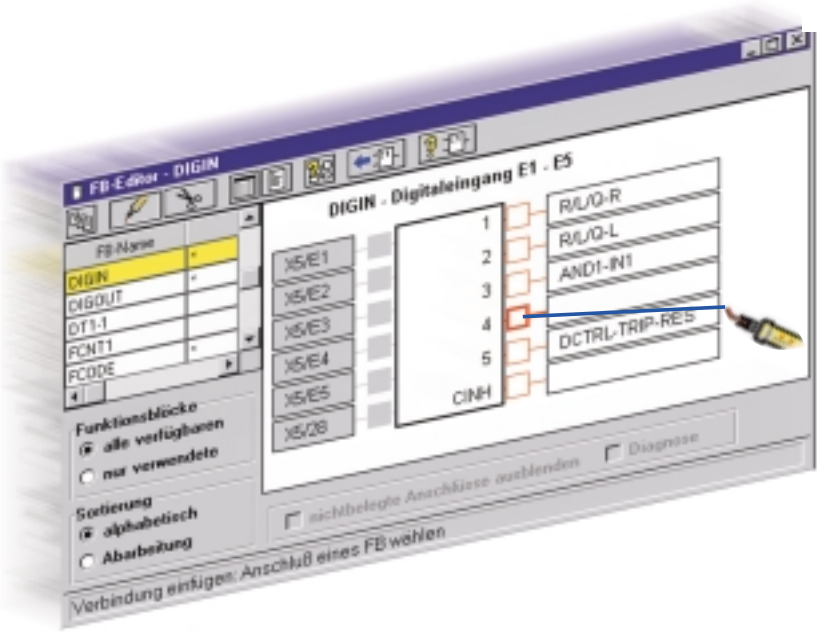
Examples of function blocks:

Logical combinations: *AND, OR, NOT*

Interface functions: *digital inputs/outputs*
system bus
fieldbus module: INTERBUS, PROFIBUS

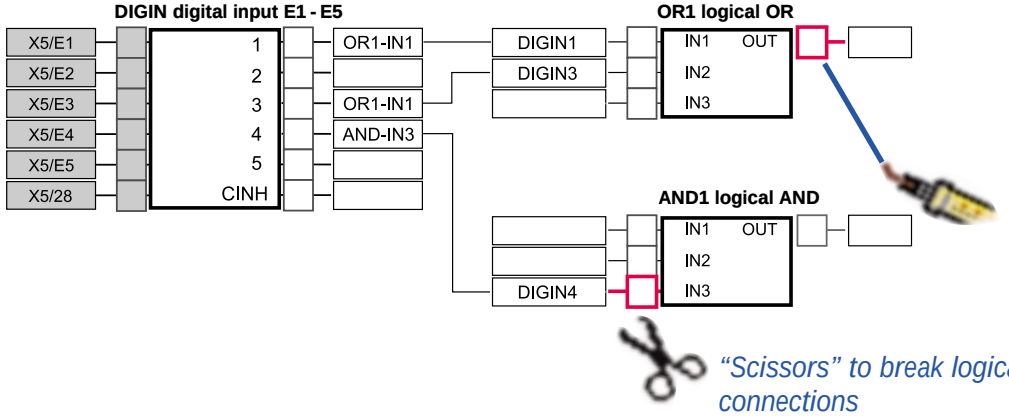
Mathematical functions: *arithmetical operations*

Drive functions: *brake logic, positioning control, motor control, electronic gearing*



Advantages:
- ***easily understandable operation***
- ***no programming knowledge needed***
- ***extensive function-block library with online help***

. . . and this is how programming is done:



"Soldering iron" to join the inputs and outputs

"Scissors" to break logical connections

Global Drive Control

Oscilloscope functions

for the 9300 series of drive controllers

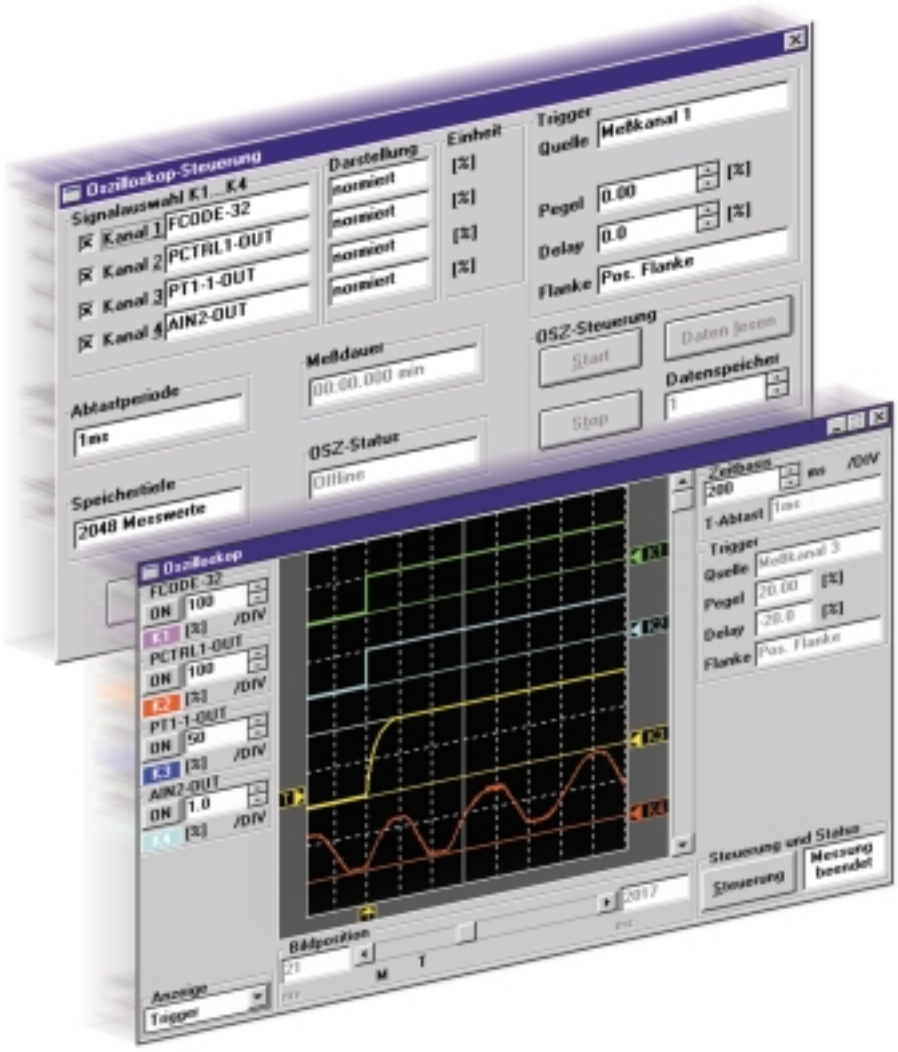
The oscilloscope function is distinguished by the following features:
In large systems it can be difficult to determine the speeds and torques of the individual drives. But, when these systems are commissioned, a precise knowledge of these values is just what you need to make everything much simpler.

The oscilloscope functions that are integrated into GDC make it unnecessary to connect up or build in complicated measuring instruments – the drive controller itself is a comprehensive measuring device for all the variables which affect the drive.

The user gains the following significant advantages:
- *Precise measurement of process-specific variables without additional measuring instruments*
- *No need to build in temporary sensors into the system*
- *Easy documentation when control loops are fine-tuned*
- *Simple maintenance and fault-finding*

The oscilloscope function is distinguished by the following features:

- *Measurement of freely selected analog signals*
- *Simultaneous measurement on up to 4 independent channels*
- *Triggering on freely selected digital or analog signals*
- *Pre and post-triggering*
- *Cursor and magnifier function for analyzing the measurements*
- *Variable sampling rate*
- *Simple comparison of measurements by using the overlay function*
- *Load, store, comment, and print the measurements*



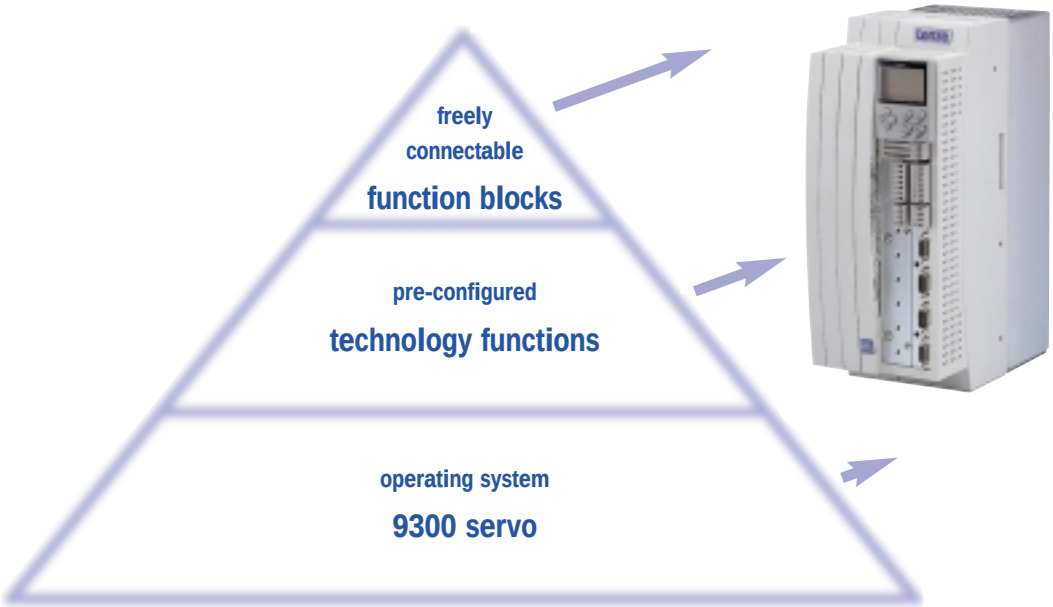
Global Drive Control

Global Drive frequency inverters

The Global Drive series of frequency inverters gives you the right drive controller for every application:

- *8200 – the proven frequency inverter*
- *8200 HVAC – the frequency inverter with special functions. Ideal for simple HVAC control tasks*
- *8200 motec – for direct mounting on the motor / geared motor, or close by*
- *9300 vector – the frequency inverter with vector control for torque control and large ranges of adjustment*

9300 series servos



The 9300 series of servo controllers is an intelligent drive system that offers you the right inverter for every application:

- ***9300 servo***
- ***9300 positioning control***
- ***9300 cam profile***
- ***9300 register control***

With the technology functions, every application task can be solved quite simply by the pre-configured function blocks. If necessary, freely connectable function blocks can enable an individual implementation of your technological expertise, without you having to concern yourself with drive technology.

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Global Drive Control

Software package

Global Drive system requirements

- *486 DX33 processor or higher*
- *minimum 8 MB RAM*
- *MS-Windows™ 3.11 or Windows 95*
- *VGA graphics card*
- *mouse or other pointing device*
- *approx. 30 MB hard-disk space*
- *a free serial interface for communication with the drive*