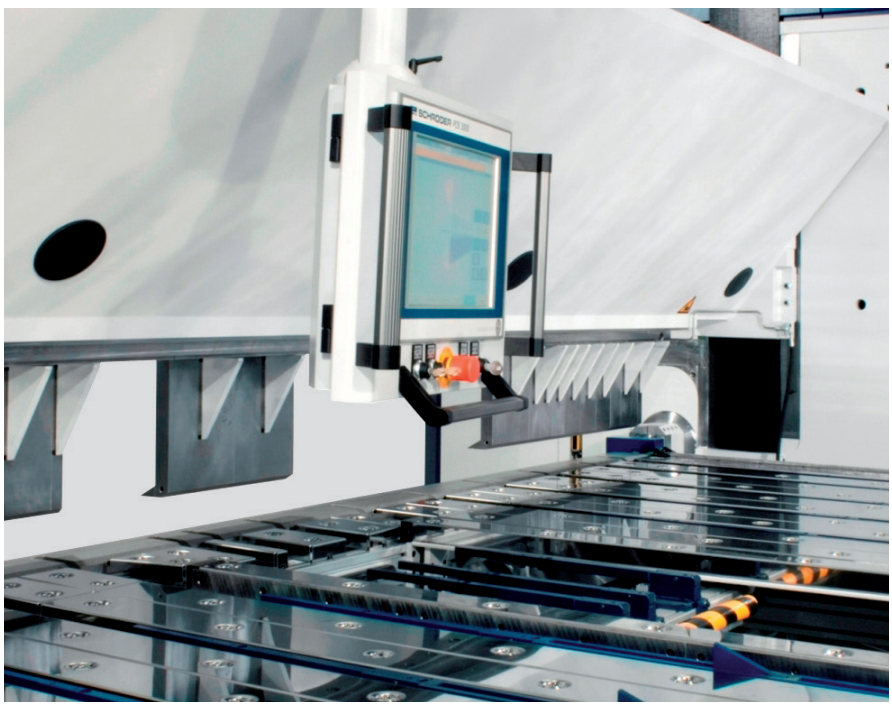
SCHRÖDER GROUP

CONTROL SOFTWARE

POS 3000 | POS 2000 Professional nano Touch

Software for folders

Modern folding machines are only able to achieve maximum performance, flexibility, and speed when software and hardware form a single, seamless unit.



The control software guides the user through the bending program.

Thanks to the swiveling arm, the user always has access to the operating panel, wherever he needs it.

Our service: Perfectly matched hardware and software from a single source. Every step of the process is supported continuously, from creation of the program for various products to storing them as bending simulations and operator guidance during serial production.

Hans Schröder Maschinenbau has been a leading manufacturer of high-quality folding machines for decades and a pioneer in the digital controls for these machines.

We developed and maintained the skills involved with control software at our own company earlier than other machine manufacturers. Our development and support teams work using the newest methods and with the most modern tools. As an expert in sheet metal processing, the development and optimization of our software is guided by the requirements of industrial processes and practical daily applications in craftsmen's workshops.

One big 'plus' offered by our solutions: The control work in perfect harmony with the machine. Hardware and software come from a single source, just like service and support. We are happy to be your partner, and we are pleased to assume responsibility for the complete solution.

The right control software for every requirement

Stability, performance, and the precision of the actions – this is what folding machines from the Schröder Group stand for. High-quality control software makes the hardware in our modern machines into flexible solutions for processing sheet metal.

The operation of our control software reflects the established work processes in industrial and workshop settings. To put it differently: Anyone who understands sheet metal folding will be able to operate our software quickly and easily, and they will learn to appreciate it as a valuable aid to serial manufacturing, flexible production of small series, and prototype development.

Principles of controller development

- Clear, simple user guidance
- Step-by-step programming
- Graphical depiction and simulation
- Importing and saving functions for re-using programs
- Quick corrections and adjustments to material variations
- Operation via touch displays on the swivel arm
- PC version of the control for work preparations
- Optional integration with CAD data/integration with ERP programs

A human-machine interface the way it should be: Folding machines from Schröder receive their instructions via touch display panels.

Above: The control software becomes a convenient product catalog. Below: Not only the work piece is displayed, the tools are also shown – in this case, in the mounting plan.

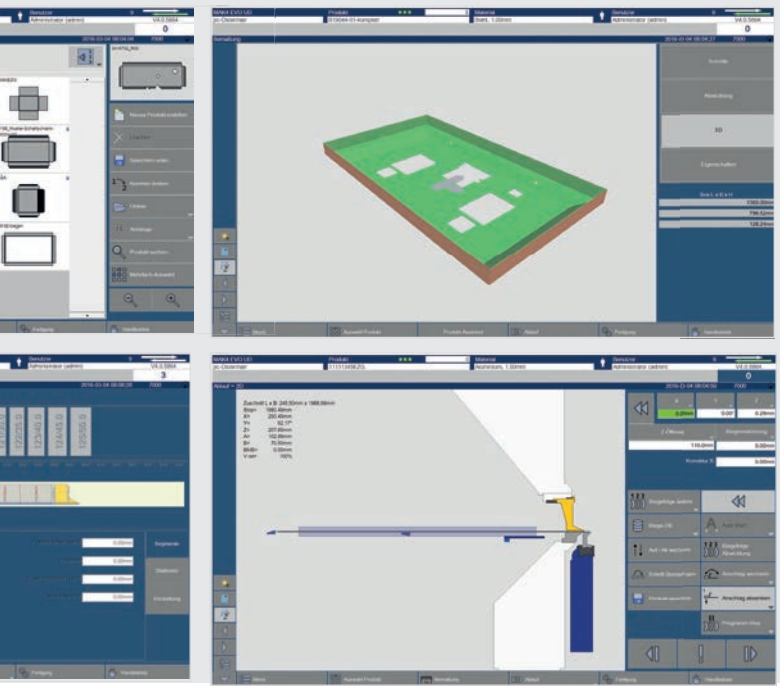
POS 3000 3D graphic control:

Interactive sheet design

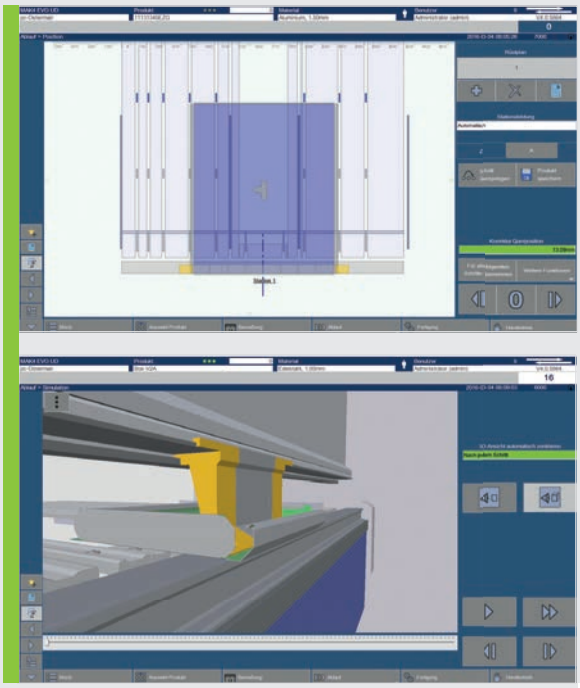
With the POS 3000 3D graphic control, our sheet folding specialists are setting new standards in the control of industrial sheet metal processing.

The new, high-end POS 3000 control and the folding machines in the Evolution series from Schröder are a perfect match, including control over complex machine options like automatic tool changers and handling robots.

Special feature: Program graphically with the POS 3000. Since ultimately, we know that: Your operating staff and preparation employees have a better eye for products than they do for IT programming lines. The machine, tool, work piece, and type of bend are all clearly displayed. That's why your employees bend visually on the screen beforehand and check the result in the software's 3D bending simulator, making sure that the sheet metal will be processed perfectly from the first bend. Bending programs that have already been created can be called up again quickly, checked visually, and corrected according to material requirements.



Above: the 3D display simplifies dimensioning. Below: a 2D display of the bending position



Above: the position of the sheet on the back stop is displayed in the programming plan. Below: POS 3000 simulates production in 3D.

Working with POS 3000 is extremely comfortable:

Clearly laid-out product selection including a search function and navigation in submenus enables the operator to select work steps and connect them in the production plan menu to create sequences.

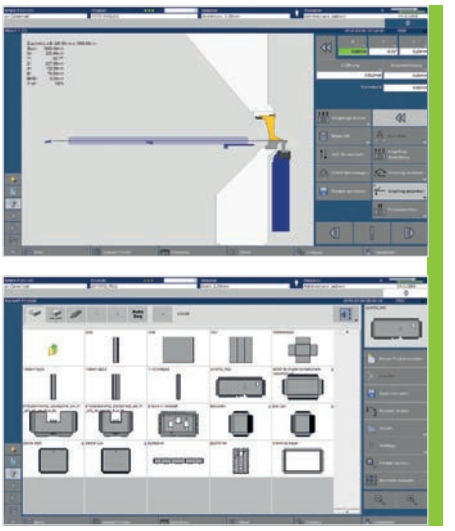
Individual product profiles can be designed very quickly via the intuitive finger-activated drawing feature. The exact dimensions may be entered and changed in the dimensioning menu. In order to check and coordinate together with the customer, the drawing may be output on paper using a printer.

Using the program that is created, the software generates the optimal sequence of bends, including automatic collision and threshold value monitoring. The folding angle and cut are corrected automatically using interpolation from the database.

3D Interactive Software
POS 3000
SheetmetalDesigner

Highlights

- 3D graphic control including a schematic depiction of the machine, tool, and work pieces
- Intuitive, visual touchscreen programming
- 3D bending simulator for visual program inspection
- Mount programming and control of the automatic tool changer
- Cycle time calculator
- High-speed data transmission to frequency inverters (Ethernet Power Link)
- CAM connection, ERP/PPS interfaces, and DXF converter available
- Remote maintenance from Schröder software service



Above: Standard bending programs are available in the product selection menu. Below: The software shows the processing steps beforehand.

POS 2000 Professional – the standard for industrial folding machines

The POS 2000 Professional software qualifies as the direct successor of the POS 2000, THE controller for folding machines, which has been proved and expanded in hundreds of installations across the world.

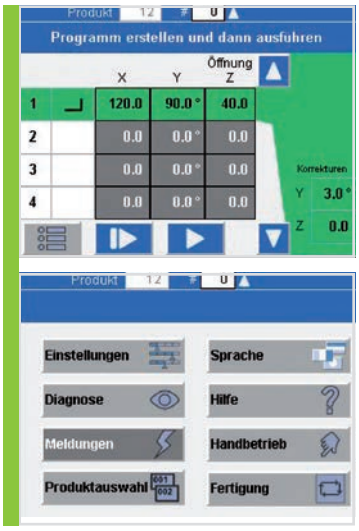
Work quickly and precisely with this software. Support and guidance through the software reduces the number of errors and error costs resulting during sheet processing to the minimum.

A comprehensive, expandable catalog enables the desired program components to be selected in POS 2000 Professional. The angle and side dimensions are easily changed by pressing the monitor. The cut length is displayed depending on the material and geometry involved.

The control software displays exactly what the machine is doing: The folding machine, work piece, and tool are displayed schematically and updated for every bending step. Anyone who programs preparation of the work away from the machine can test the quality of their program using the bending simulation, which effectively avoids waste and delays during production. This is what makes our control software so uniquely user-friendly: all of the necessary operator activities like turning, rotating, etc. are displayed for each bending step.

Highlights

- PC featuring touchscreen control on the swivel arm
- Windows operating system
- Extensive profile catalog, unlimited expansion possible
- Automatic cut calculation
- Material and tool library
- True-to-size bending simulation
- Zoom function
- Speed of the servo axis may be adjusted without stages
- PC version for creating bending programs during preparation of the work



Simple icons and alphanumeric data are used to describe the bending program.

nano Touch – the most clearly laid-out alphanumeric control

We developed the modern nano Touch alphanumeric control as the standard software for craftsmen and industrial manufacturers who use folding machines like the PowerBend Universal, MAK V, and MAKV S.

nano Touch controls the clamping beam and the folding beam using a path measurement system, and the motorized back stop is controlled via the digitally controlled frequency inverter. The user interface is clearly laid-out and combines easy-to-understand icons with text and numerical displays.

Do you need unified bending programs for metal sheets of different quality? Special programs no longer need to be created in case of material-dependent deviations when using nano Touch. The option to enter corrections to settings for the clamping beam and the folding beam is available for each bend.

Software
nano Touch
NC-Programmierung

Highlights

- 9,999 saving points for bending programs featuring up to 99 bends each
- Quick selection of bends using icons
- Individual corrections in case of material deviations
- Current production step in the list of bends is highlighted
- Piece counter for serial orders
- Control board on the swiveling arm
- Upgrade option to POS 2000 Professional

Schröder Group

The Schröder Group consists of Hans Schröder Maschinenbau GmbH, which is located in Wessobrunn, Germany, and SCHRÖDER-FASTI Technologie GmbH, which is located in Wermelskirchen, Germany.

Founded in 1949, Hans Schröder Maschinenbau GmbH unifies traditional and modern approaches in machine building: Successfully managed as a quality and customer-oriented, family-owned company, Hans Schröder Maschinenbau is specialized in the development of modern machine concepts for bending and cutting sheet metal.

The successful integration of the Fasti Company in 2006 and its worldwide presence make the Schröder Group one of today's leading providers of machines for bending, cutting, beading, flanging, and circular bending all types of sheet metal. The company's precision machines range from proven solutions for craftsmen to innovative, high-performance machines for automatic industrial production processes. Overall, the Schröder Group currently employs more than 240 people at various locations at home and abroad.

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