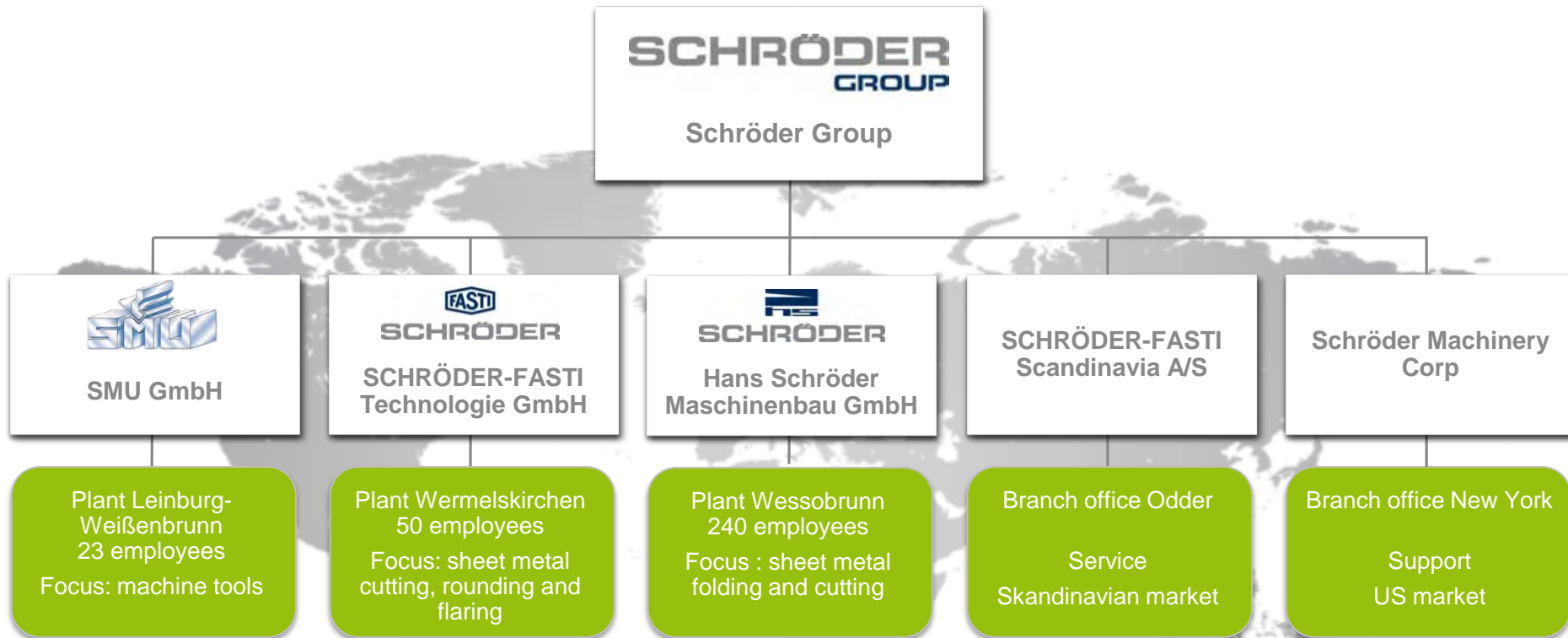




SCHRÖDER GROUP COMPANY PRESENTATION

SCHRÖDER Group

SCHRÖDER
GROUP

Worldwide partner network for sales and service

SCHRÖDER Group – At a glance



Everything for sheet metal working – everything out of one hand

- **Founded in 1949, we are a quality- and customer-oriented family business with tradition and modernity in the machine building industry**
- **Our focus:**
 - Development of modern machine concepts
 - Bending and cutting of metal sheets
- **Fields of application:**
 - Roof and facade elements
 - Ceiling and wall panel elements
- **Our customers and their needs are the focus of all our efforts:**

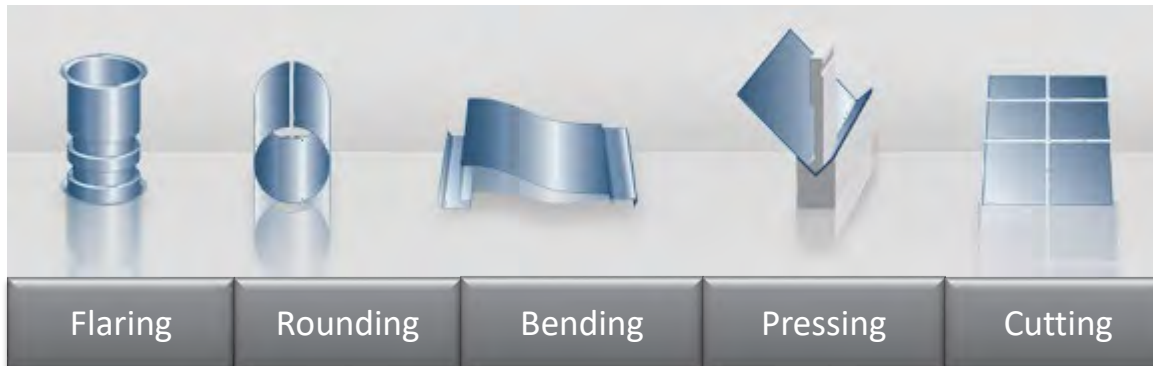
We offer you for every manufacturing task the technologically and economically convincing solution!



SCHRÖDER Group – At a glance



- 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:



- The SCHRÖDER portfolio is completed by :
 - customer specific solutions
 - fully automated industrial folding centres
 - software control for machine operation

SCHRÖDER Group – Training



„The employees, their experience and their Know-how are our greatest asset“

- In 2020 the Schröder Group got the award as an attractive employer in terms of training
- Training rate: about 12 % at a total of about 270 employees
- Commercial and industrial trainings are equally important to the Schröder Group:
 - Mechatronic technician (f/m)
 - Electronic technician for industrial engineering (f/m)
 - Precision mechanic (f/m)
 - IT specialist for system integration (f/m)
 - Product designer (f/m)
 - Office administrator (f/m)



Employee figures - Development



Milestones



1949

- **1949: Foundation of Hans Schröder Maschinenbau**
 - Initially a repair shop; later rapid growth as a commercial company



1960-1969

- **1960 – 1969: First successes with own developments in sheet metal processing**
 - Start of the successful serial production of universal folding machines (AK), eccentric guillotines and motorized guillotines

1970 - 1981

- **1970 – 1981: Rapid expansion and consistent modernisation**
 - Modernisation and expansion of site and production capacities
 - Establishment and professionalization of sales and marketing
 - Start of CNC production

Milestones



1982 - 2000

■ **1982 – 2000: Development into an internationally active mechanical engineering company**



- 1994: Franz Schröder takes full charge of the management of Hans Schröder Maschinenbau GmbH after the sudden death of Hans Schröder
- Expansion and modernisation of the on-site manufacturing techniques (5-axis milling centres, conveyor systems, CAD)
- First universal folding machines for industrial applications (MAK)
- Establishment of a department to develop software for electronic controls
- Start of internationalisation with partner networks in Europe, America and Asia

Milestones

**SCHRÖDER
GROUP**

2000 - 2008

- **2000 – today: The SCHRÖDER Group is evolving into an innovative technology company**
 - Construction of more new production and assembly halls as well as an office building
 - Introduction of the IntelliBend series with POS 2000 / POS 3000 graphic controls
 - Acquisition of Fasti-Werke and the Wermelskirchen plant (2006)
 - Presentation of the first fully automated bending centre
 - Introduction of the innovative EVOLUTION machine generation

2009

- **60th anniversary**



2003



2004



2006



2008

Milestones



2012

- The Schröder Innovations studio has been built.

2013

- Introduction of the innovative PowerBend-Machine generation

2016

- Development of the motorized folding machine PowerBend Industrial which expands the portfolio of the PowerBend-series. Development of an unfold software „Schröder Unfold“.

2018

- Development of a fully-automatic sheet metal handling system „AHS“

2019

- Introduction of the EVO Center at the Blechexpo 2019

2021

- Acquisition of the machine tool manufacturer SMU GmbH



2013



2016



2019

Our Unique Selling Point (USP)



- **Machine construction „made in Germany“**
 - Competence in the sheet metal working industry since 1949
 - 2 production sites in Germany (> 20 000 m² production area)
 - Broad portfolio from manual machines to fully automatic bending centres
- **High level of in-house production: about 85% (only electronic components and motors are purchased), our advantages:**
 - ✓ Lower costs through less coordination processes
 - ✓ Higher flexibility in bottleneck situations
 - ✓ Dynamic control of capacities
 - ✓ Core competences in production remain within the company
 - ✓ Improvement of quality through continuous quality controls
 - ✓ Independency of suppliers



Increasing innovation power and productivity

Our Unique Selling Point (USP)



■ Innovative strength

- State-of-the art development and production processes
- Own software development for control/visualisation (POS 2000/POS 3000)
- Customized production
- Global network of competent partners

■ Strong values

- Solidly financed, modern family business run by the third generation
- Quality, customer and service orientation put into practice (e.g. free hotline)
- Long-term customer- and partner relationship

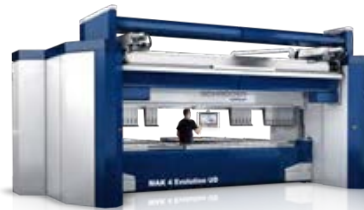


SCHRÖDER GROUP – Portfolio

SCHRÖDER
GROUP

Hans Schröder Maschinenbau

- Motorized swivel folding machine for craft and industry
- Manual folding machines
- Fully automatic bending centre for the industry
- Motorized guillotine
- Hand-operated guillotines
- Software



Schröder-Fasti Technologie

- Slip bending rolls
- Flaring machine
- Motorized shears
- Pivoting bending machines



SMU GmbH

- Standard-/ Special folding tools
- Combined punching- & folding tools
- Tool clamping devices
- Crowning devices
- Folding machine tools
- Shear blades
- Tool overhaul
- Bending foil
- Complete lines
- semi- and fullyautomatic tools

Highlights

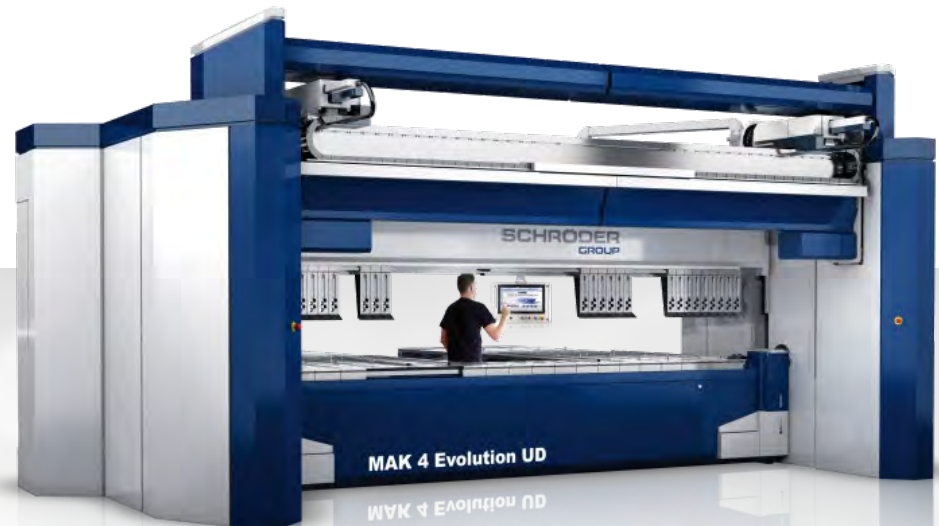
SCHRÖDER
GROUP

High performance folding machine:

MAK 4 Evolution UD

- Revolutionary „Up-and-Down“ folding technique
 - Folding without having to turn over the sheet
 - Precise folding results and high efficiency
- High flexibility
 - POS 3000 3D graphic control
 - Fully automatic tool changer
 - Variety of tools
 - Back gauge with suction cups
 - Hydraulic clamping beam tool clamping
 - Pneumatic folding beam tool clamping

Work. length max. 5000 mm
Sheet thickn. max. 6 mm



Highlights

**SCHRÖDER
GROUP**

Motorized folding machine EVO-CENTER

Your industrial solution to achieve large-volume as well as flexible series production with utmost repeat accuracy.

Work. length max. 4000 mm
Sheet thickn. max. 4 mm

- Innovative sheet metal handling system (AHS) with suction cups for automated sheet metal processing
- Fully-automatic tool changer for clamping beam tools up to 400 mm tool height
- Fully-automatic processing of complete bending programs
- Camera system to control correct alignment of the sheet



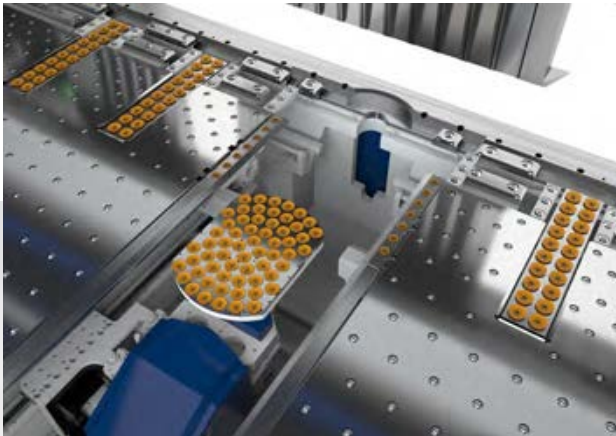
Highlights



Fully-automatic sheet metal handling system “AHS”

Gauging once, bending all

- Schröder Advanced Handling System (AHS)
- Innovative sheet metal handling system with suction cups for automatic sheet metal processing
- Fully-automatic processing of complete bending programs
- Camera system for reviewing the correct alignment of the sheet



Highlights

**SCHRÖDER
GROUP**

Motorized folding machine:

PowerBend Industrial UD

The new professional solution for reliable and efficient operation in heavy production industrial shops

Work. length max. 4000 mm
Sheet thickn. max. 6 mm

- Unique robustness, reliability and repeat accuracy
- Production of single pieces and prototypes
- Patented, hydraulic Up-and-Down system
- Clamping beam stroke: 650 mm
- Tool positioning display alongside the clamping beam
- Production status indicator lights
- Bilateral drives on the clamping- and the folding beam
- Two touch-panels for easy operation from the front and the rear side of the machine



Highlights

SCHRÖDER
GROUP

Motorized folding machine:

PowerBend Professional

The professional solution to your thin sheet metal applications

- Revolutionary "Up-and-Down" folding technology:
 - Folding without having to turn over the sheet
 - Precise folding results and high efficiency
- High flexibility:
 - POS 2000 Professional control / POS 3000 control
 - Bilateral folding beam drive
 - Middle motor clamping beam drive
 - Hydraulic clamping device for clamping beam
 - Pneumatic clamping device for folding beam
 - Rotating clamping beam
 - Back gauge with 4 suction units

Work. length max. 4000 mm
Sheet thickn. max. 4 mm



Highlights

SCHRÖDER
GROUP

Hydraulic Shear:

PowerShear Professional

- 8" touchscreen control
- Optimal rigidity: new constructed machine body (FEM) and precise cut
- Torsion-free cuttings
- Minimal shearing angle
- Energy-efficient drive
- Automatic adjustment of shearing angle and blade gap
- Frequency-controlled motorized back gauge

Work. length max. 3000 mm
Sheet thickn. max. 6 mm



Highlights

SCHRÖDER
GROUP

High-performance bending centres:

POWER-BEND-CENTER

Building on our technology, our hardware and our software, we develop your individual sheet metal working solutions that range from **customized machines**, through **various steps of automation** and right up to **complete production lines**

- Semi-automatic and fully-automatic folding centers
- Large-volume and flexible series production with utmost repeat accuracy
- Basis: precise folding machines of the Evolution-Series



Let us show you the possibilities you have with the automation of sheet metal working!

Highlights



Software POS 3000 – 3D Graphic Control

Software to control universal folding machines via 3D graphics

- Intuitive, reliable operation thanks to superior 3D visualisation
- Quick selection of standard products
- Product profiles can be designed by drawing with the finger
- Dimensioning and automatic generation of the bending sequence
- Graphical bending sequence and tool setup plan
- Integration in higher-level IT systems (MES/ERP)
- Remote maintenance



Highlights



Unfold software „SCHRÖDER Unfold“

Software to calculate the blank size and program with effortless precision

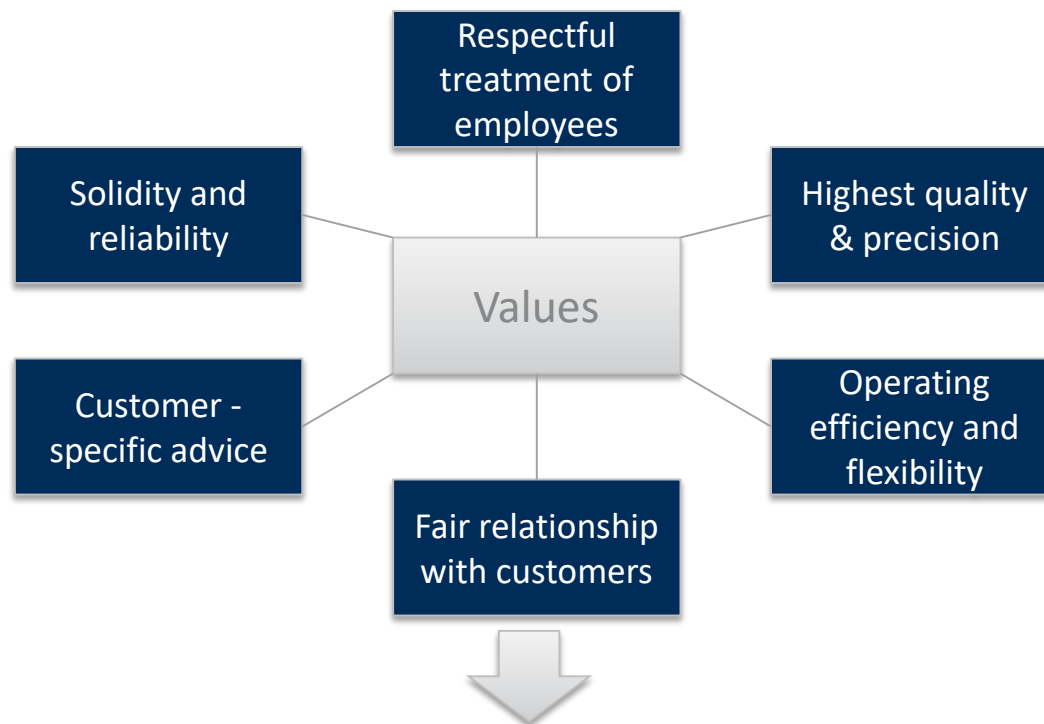
- Import of Step-files into Schröder Unfold
- Start of an unfold assistant with selection of necessary information such as product name, material thickness...
- Creation of program file and DXF file for export



Our philosophy



We are guided by shared values, that we live both internally and externally and that are a major component of our identity:



Continuous and sound growth as well as the low turnover rate and the strong relationship to our hometown are an expression of our commitment to our values.

Our philosophy



Better sheet metal processing – From manual cutting machines to the fully automatic industrial folding centers - we offer solutions for everyone who works with sheet metal.

We want to fascinate our customers with:

- our own fascination for sheet metal working
- outstanding **service solutions**
- **numerous equipment options** and customer-specific solutions
- our **innovative strength** resulting from in-house development and construction - including our software control
- our **high in-house production depth**: starting with conveniently-equipped basic machines, our machines can be extended for optimum results



Our focus lies in the production of fascinating high performance machines, that set standards in terms of design, security, user friendliness and reliability.

Our vision



Our innovative SCHRÖDER products contribute to our customer's success in every sheet metal processing application worldwide!

Our highest priority:

- Highest quality and efficient procedures in the production
- Continuous improvement of our products and processes (e.g. Lowering the number of parts and components through standardisation)
- Sustainable profitable growth and thus increase of our company value on the long-run
- Constant satisfaction of our customers
- Being a leader in the area of sheet metal processing
- Excellent implementation and efficiency as well as motivated and capable employees



Sustainability



- Partnership is the foundation of our mutual cooperation within the company - and in our dealings with customers and suppliers.
- Optimized processes in the whole value chain support our sustainable actions, this shows e.g. our **environmentally friendly painting line**.
- The confidence of our customers is vital to our future successes.
- As manufacturers of metal working machines for the industry and the craft, we continuously intent to respond rapidly and flexibly to our customers' requirements.

We therefore consider it our task to enhance our customers to concentrate on core competences and to build our strength together!



Thank you for your attention!