



Range of Supply

# Machines of Schröder Group

## Range of Supply



Better sheet metal working – we have dedicated ourselves to enabling highest quality standards and efficient processes in the production of sheet metal products. This brochure can only give you an initial overview of our range of supply – we are pleased to offer you our advice to selecting a suitable machine for your requirements.



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# Motorized folding machines

Decades of experience in keeping up with the highest quality standards and efficiency in sheet metal working culminates in high-performance machines that enable industrial solutions.

Folding machine

## MAK 4 Evolution UD

Sheet metal working  
with highest efficiency

- Up-and-down function
- Industrial POS 3000 3D graphic control
- Option for fast set-up:  
fully automatic tool changer
- Option: Fully automatic sheet metal handling system „AHS“ with suction cups

Folding machine

## EVO-CENTER

Highly automated with  
completely new design

- Fully-automatic tool changer
- Up-and-Down function
- Industrial POS 3000  
3D-graphic control
- Option: Rotating plate with suction cups  
Advanced Handling System (AHS)



MAK 4 Evolution UD

- 2,500 x 6.00
- 2,500 x 8.00
- 3,200 x 6.00
- 4,000 x 5.00
- 5,000 x 4.00

EVO-CENTER

- 3 200 x 4,00
- 4 000 x 3,00

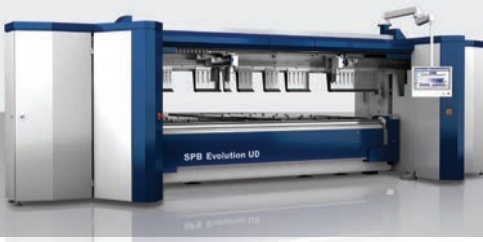
All data for working length x sheet thickness are provided in mm at 400 N/mm<sup>2</sup>.

Folding machine

## SPB Evolution UD

Fast, strong, precise for serial production and single piece production

- Up-and-down function
- Rotating clamping beam
- Industrial POS 3000 3D graphic control
- Option for fast set-up: fully automatic tool changer



SPB Evolution UD

3,200 x 4.00

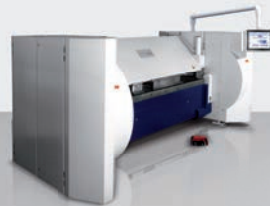
4,000 x 3.00

Folding machine

## MAK 4

Efficient and powerful

- Graphic control POS 2000 Professional
- High precision folding machine for thick sheets
- Different gauge extensions for optimal handling



MAK 4

3,200 x 6.00

4,000 x 5.00

# Motorized folding machines

When muscle power is not enough these machines can offer you an easy entry into motorized processing – robust machines for continuous use or thick metal sheets.

## Folding machine

### PowerBend Industrial UD

Powerful package for sheet thickness up to 6 mm

- High-precision folding machine with 2 monitors
- Clamping beam stroke: 650 mm
- Up-and-down function
- Tool positioning display
- Option: production status indicator lights

## Folding machine

### PowerBend Professional

Robust and precise: the professional solution for thin metal applications

- Optimal rigidity and precise gauge
- POS 2000 Professional control
- Options: up-and-down function and rotating clamping beam



#### PowerBend Industrial UD

3,200 x 6.00

4,000 x 5.00

#### PowerBend Professional

2,500 x 4.00

3,200 x 3.00

4,000 x 2.50

Folding machine

## PowerBend Universal

Workshop standard machine  
with numerous options

- Optimal rigidity and precise gauge
- Easy to handle with nano Touch control
- Options:  
motorized folding beam adjustment and  
crowning device



### PowerBend Universal

2,000 x 4.00  
2,500 x 4.00  
3,200 x 3.00  
4,000 x 2.50

Folding machine

## MPB

Allrounder for thin  
sheet metal working

- Graphic control POS 2000 Professional
- Shortened set-up times through a  
rotating clamping beam
- Servoconverter-controlled drives for  
folding beam, clamping beam and  
back gauge



### MPB

2,500 x 2.50  
3,200 x 2.00  
4,000 x 1.75

# Motorized / Hydraulic folding machines

## Motorized folding machine

### MAKU

Entry into motorized sheet metal working

- Fast, compact and flexible for serial- and single piece production
- Equipped with the alpha numeric control nano Touch or alternatively with the control POS 2000 Professional
- Huge clearances on the clamping and the bottom beam

## Hydraulic folding machine

### 225

A fast machine with high long-life accuracy

- Clamping beam generously dimensioned, maintenance-free guide, clamping beam stroke 350 mm (optionally 500 mm)
- Motorized adjustment of folding beam with hydraulic drive on both sides
- Motorized bottom beam adjustment



### MAKU

2,500 x 2.00

3,200 x 1.50

### 225

2,000 x 6.00

2,500 x 5.00

3,200 x 6.00

4,000 x 3.00



## Hydraulic folding machine

# 216

The universal folding machine with a compact hydraulic drive

- High productivity thanks to easy handling of tools
- Clamping beam stroke 500 mm
- Compact hydraulic drive
- High flexibility and variability thanks to extensive equipment



## Arcfolding machine

# 720

Fast and precise

- Clamping beam as box form with clearance on the rear
- Operation from rear side of the machine
- Mechanic tool clamping device
- Hydraulic crowning system
- CFP 120 control



216

2,000 x 10.00	3,200 x 16.00
2,000 x 12.00	4,000 x 6.00
2,500 x 8.00	4,000 x 8.00
2,500 x 10.00	4,000 x 10.00
2,500 x 12.00	4,000 x 12.00
3,200 x 8.00	5,000 x 4.00
3,200 x 10.00	5,000 x 6.00
3,200 x 12.00	6,000 x 4.00

720

3,200 x 2.00
--------------

# Manual folding machines

Machines from Schröder Group stand for precise work: robust, reliable and best accuracy.

## Manual folding machine

### AK

Workshop standard equipment – indestructible and easy to operate

- Excentric drive for fast opening and secure clamping of tools
- Option: Manual back gauge 10 – 750 mm, adjustable from the front with digital read out incl. sheet support table
- Ergonomic working height: 930 mm
- Clamping beam stroke: 110 mm

## Manual folding machine

### ASK 3

Manual folding machine of the 3rd generation

- Segmented tools at all three beams
- Quick clamping device with eccentric
- Multi-stage clamping beam drive for four different tool heights
- New: clamping beam with tool storage function and stand with depositing plate



### AK

- 2,000 x 1.00
- 2,000 x 1.50
- 2,500 x 1.00
- 3,000 x 1.00

### ASK 3

- 1,000 x 1.50
- 1,250 x 1.50
- 1,500 x 1.50

## Segment folding machine

### ASK II

Proven a thousand times in workshops

- Maximum versatility through segmented tools at all three beams
- Quick clamping device with eccentric
- Reinforced version and frame-guided clamping beam



ASK II

1,000 x 2.00

1,500 x 1.75

2,000 x 1.00

## Manual folding machine

### 204

The small folder with features of a big one

- Essential for sample construction and repair shops
- Clamping beam with sufficient stroke for different tool geometries
- Folding beam adjustable for precise radius bending



204

1,000 x 2.00

# Manual folding machines

Since more than 60 years we are supplying workshops with folding machines. We offer you reliable precision tools for the workshop and the construction site.

Manual folding machine

## BAM

Proven a thousand times in workshops

- Additional clearance enables profiles such as narrow U-bendings
- Back gauge system incl. sheet support
- Option: cutting device incl. guide rail
- Rotating clamping beam at BAM 1000



BAM

1,000 x 0.80

2,000 x 0.75

Manual long folding machine

## MODULAR

Long profiles, accurately bent

- In a few simple steps two or more folding machines can be connected to one long folding machine
- Option:  
a multifunctional tool cuts, beads and closes hem folds



MODULAR 2000

2,000 x 0.80

Basic modul

2,000 x 0.80

Extension modul

MODULAR 3000

3,000 x 0.80

Basic modul

3,000 x 0.80

Extension modul

# Motorized shears

A precise cut is the first step from a metal sheet to the work piece. Our shears enable clear cuts for serial production without any difficulties.

## Motorized shear

### MHSU

#### Entry into motorized cutting

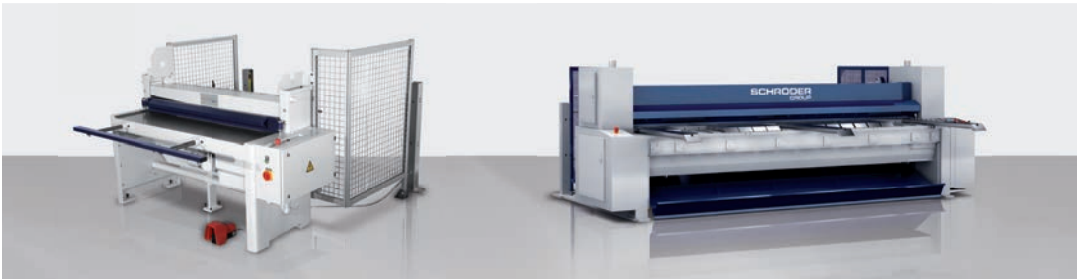
- Slideway guided motorized shear cuts fast and clear
- Hold-down device with hard rubber rail to protect polished sheets
- Adjustable angle gauge left and right with scale

## Motorized shear

### PDC

#### Powerful and stable with „DUO-CUT-Drive“ system

- Quiet, smooth operation through double motorization (from 2000 mm)
- Blade gap adjustment to minimize bur on material and to keep wearing on blades down to a minimum



#### MHSU

1,000 x 3.00	2,000 x 3.00
1,000 x 4.00	2,500 x 2.00
1,250 x 3.00	2,500 x 2.50
1,500 x 2.50	3,200 x 1.50
1,500 x 4.00	3,200 x 2.00
2,000 x 2.50	

#### PDC

1,000 x 4.50	2,500 x 3.50
1,500 x 4.50	3,200 x 3.00
2,000 x 4.00	4,000 x 2.50

## Motorized shear

# 527

### The heavy-duty guillotine

- Manual blade gap adjustment on both sides
- Back gauge 10-600 mm
- Angle gauge with scale, 750 mm from blade edge
- Table extension 750 mm from blade edge
- Protection of gear side of machine via protection guard system
- Hold-down device one-piece
- Flex table



## 527

1,000 x 4.00

1,200 x 4.00

1,600 x 3.75

2,000 x 3.25

2,500 x 3.25

3,200 x 2.75

# Hydraulic shears

The industrial solution to cut large amounts of sheet metal at high speed.

## Hydraulic shear

### 528

#### Hydraulic shear for universal use

- Motorized back gauge 10-1000 mm
- Cutting edge illumination
- Automatic calculation of cutting angle
- Lateral angle gauge with scale, 1000 mm from blade edge
- Protection of rear guillotine side by protective light barrier

## Hydraulic shear

### PowerShear Professional/Universal/Basic

#### Ideal for continuous operation

- Touchscreen control on swivel arm
- Robust machine construction
- Automatic calculation of blade gap adjustment
- Frequency controlled motorized back gauge 10 - 1000 mm
- „Return to Sender“ function



### 528

2,000 x 10.00	4,000 x 10.00
3,000 x 10.00	4,000 x 13.00
3,000 x 13.00	4,000 x 16.00
3,000 x 16.00	
3,000 x 20.00	

### PowerShear Professional/Universal/Basic

3,000 x 6.00
4,000 x 6.00



# Manual shears

The manual shears will be used for nearly all cutting problems. Ridge-free, distortion-free and almost burr-free cuttings are typical characteristics of these shears.

## Manual shear

### HS

#### Effort-saving manual shear

- Cutting up to 2 mm thick metal sheets without any difficulties and free from burrs by hand
- Options:
  - sheet separator with stacking function
  - mechanical sheet support
  - Manual back gauge adjustable from the front with digital readout



#### HS

1,000 x 2.00

2,000 x 1.25

2,500 x 1.00

3,000 x 1.00

# Slip bending rolls

We offer you slip bending rolls for the use on construction sites and in workshops.

## Manual slip bending roll

### 102

The small slip bending roll for continuous operation

- Rolls, ca. 700 N/mm<sup>2</sup>
- Top roll with pivotable bearing has a seam groove for seam tube production
- Lower roll and back roll with wire grooves. Adjustment of lower roll with lever, adjustment of back roll with handwheel and digital readout

## Motorized slip bending roll

### 125

The small slip bending roll with motorized drive

- Control FM 1R
- Rolls, ca. 700 N/mm<sup>2</sup>
- Motorized drive of upper roll and bottom roll: speed 6 m/min
- Double foot switch for clockwise and anti-clockwise rotation



### 102

1,000 x 1.00 (50)  
1,000 x 1.25 (55)  
1,000 x 1.50 (65)  
1,200 x 1.00 (55)  
1,200 x 1.25 (65)

### 125

1,000 x 1.00 (50)  
1,000 x 1.25 (55)  
1,000 x 1.50 (65)  
1,200 x 1.00 (55)  
1,200 x 1.25 (65)

The upper roll diameter is put in brackets.

## Motorized slip bending roll

### 134 and 136

#### Prerolling and final rolling in one machine

- Robust machine construction
- Rolls, ca. 700 N/mm<sup>2</sup>
- Motorized drive of upper roll and bottom roll
- Control FM 1R
- Manual back roll adjustment by handwheel with digital readout



#### 134

1,000 x 2.00 (80)	1,500 x 1.50 (80)
1,000 x 3.00 (100)	1,500 x 2.00 (100)
1,000 x 4.00 (110)	1,500 x 3.00 (110)
1,000 x 4.50 (120)	1,500 x 3.50 (120)
1,200 x 1.75 (80)	2,000 x 1.00 (80)
1,200 x 2.50 (100)	2,000 x 1.50 (100)
1,200 x 3.50 (110)	2,000 x 2.00 (110)
1,200 x 4.00 (120)	2,000 x 2.50 (120)

#### 136

1,000 x 5.00 (130)	1,500 x 4.00 (130)	2,500 x 2.50 (140)
1,000 x 5.50 (140)	1,500 x 4.50 (140)	2,500 x 3.00 (150)
1,000 x 6.00 (150)	1,500 x 5.00 (150)	2,500 x 3.50 (160)
1,000 x 6.50 (160)	1,500 x 5.50 (160)	
1,200 x 4.50 (130)	2,000 x 3.00 (130)	
1,200 x 5.00 (140)	2,000 x 3.50 (140)	
1,200 x 5.50 (150)	2,000 x 4.00 (150)	
1,200 x 6.00 (160)	2,000 x 4.50 (160)	

# Slip bending rolls

NC-controlled slip bending roll

**114**

NC-controlled slip bending roll

- Motorized drive of upper roll and bottom roll
- Three roll drive
- Hydraulic prebending roll- and bottom roll adjustment
- Automatic opening of top roll
- CR80-control

Motorized slip bending roll

**145**

Reflector slip bending roll with servo drive

- Rolls hardened, hard-chromed and polished, all rolls with 7 supporters for top roll
- Three roll drive
- Fine adjustment of upper roll via dial gauge
- Motor. upper-and bottom roll adjustment



114

1,000 x 1.00 (68)

1,000 x 1.50 (80)

1,000 x 2.00 (90)

145

1,800 x 0.75 (40)

Bending capacity at 180 N/mm<sup>2</sup> aluminium

The upper roll diameter is put in brackets.

# Swaging machines

Swaging machines of Schröder Group are designed reliably and stable.

## Manual swaging machine

### 401

The simple and reliable machine for manual operation

- Table execution without rolls and gauge
- Working height over table 250 or 315 mm
- High rigidity and low wear because of location of drive shaft in front of gravity

## Motorized swaging machine

### 431

Motor drive with two speeds

- Drive: High rigidity and low wear
- Electrical safety control
- Double foot switch: clockwise and anticlockwise rotation
- Optional: gauges and wheels



401

50 x 1.00

63 x 1.25

431

50 x 1.00

63 x 1.25

# Swaging machines

## Motorized swaging machine

**416**

The powerful machine with rigid frame design

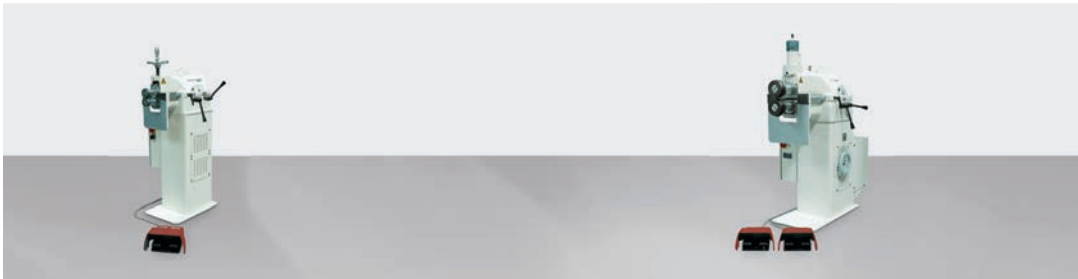
- High rigidity and low wear by position of shaft drive in front of gravity point
- Frequency controlled drive: 3 - 15 m/min
- Electrical safety control
- Double foot switch: clockwise and anticlockwise rotation

## Motorized swaging machine

**417**

Motor drive with two speeds

- High rigidity and low wear
- Hydraulic shaft adjustment
- Frequency controlled drive: 3 - 15 m/min
- Electrical safety control
- Double foot switch: clockwise and anticlockwise rotation / on-off function



416

63 x 1.50

100 x 2.00

417

63 x 1.50

100 x 2.00

125 x 3.00

# Modular automation systems

A Schröder bending center is your industrial solution to achieve large volume as well as flexible series production with utmost repeatable accuracy.

Modular automation systems

## Bending Center

High performance machines

- Machine in operation:  
Evolution-Series
- Load and unload: Industrial roboter of leading manufacturers
- Software control: POS 3000
- Others:
  - Automatic tool changer
  - Handling systems
  - Tables
  - Gauging systems
  - Highly flexible manipulators for reliable tool positioning



### Individual solutions

- 24/7 hours operation
- Large-volume series production
- Improved manufacturing process
- Utmost repeatable accuracy

# Software

The motorized machines from Schröder Group are characterized by electronic controls that are ideally adapted to the hardware and to your requirements - thanks to our own software development.

	POS 3000	POS 2000 Professional	nano Touch	CFP 120	FM 1R
MAK 4 Evolution UD	●	-	-	-	-
SPB Evolution UD	●	-	-	-	-
MAK 4	-	●	-	-	-
PowerBend Industrial UD (PBI)	●	●	-	-	-
PowerBendProfessional (PBP)	●	●	-	-	-
PowerBend Universal (PBU)	-	●	●	-	-
MPB	-	●	-	-	-
MAKU	-	●	●	-	-
225	-	-	-	●	-
216	-	-	-	●	-
720	-	-	-	●	-
MHSU	-	-	-	-	-
PDC	-	-	-	-	-
PDC-NC	-	-	-	-	-
527	-	-	-	-	-
528	-	-	-	-	-
PowerShear Basic	-	-	-	-	-
PowerShear Universal	-	-	-	-	-
PowerShear Professional	-	-	-	-	-
125	-	-	-	-	●
134	-	-	-	-	●
136	-	-	-	-	●
114	-	-	-	-	-
145	-	-	-	-	-



FM 2R	CR 80	CRP SPS	FM 1S	POS 100	CGS 80 SPS	FM 200 P
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
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-	-	-	-	-	-	-
●	●	-	-	-	-	-
●	●	-	-	-	-	-
-	●	-	-	-	-	-
-	-	●	-	-	-	-

# Fields of application

Working length ▶ Sheet thickn. ▼	1,000	1,250	1,500	2,000	2,500	3,000	3,200	4,000	5,000	6,000	9,000
<b>Folding machines</b>											
0.75				BAM							
0.80	BAM			MODULAR 2 000		MODULAR 3 000		MODULAR 2 000 (2x)	MODULAR 2 000 (1x) MODULAR 3 000 (1x)	MODULAR 2 000 (3x) MODULAR 3 000 (2x)	MODULAR 3 000 (3x)
1.00				AK / ASK II	AK	AK					
1.25											
1.50	ASK 3	ASK 3	ASK 3	AK			MAKU				
1.75			ASK II					MPB			
2.00	ASK II / 204				MAKU		MPB / 720				
2.50					MPB			PBP / PBU			
3.00							PBP/PBU	SPB Evolution UD / 225 / EVO-CENTER			
4.00				PBU	PBP/PBU		SPB Evolution UD / EVO-CENTER		MAK 4 Evolution UD / 216	216	
5.00					SPB Evolution UD / 225			MAK 4 Evolution UD / PBI / MAK 4			
6.00				225	MAK 4 Evolution UD		MAK 4 Evolution UD / PBI / MAK 4 / 225	216	216		
8.00					MAK 4 Evolution UD / 216			216	216		
10.00				216	216			216			
12.00				216	216			216			
16.00								216			

Center distance ▶ between wheels Sheet thickn. ▼	50	63	100	125
<b>Swaging machine</b>				
1,00	401 / 431			
1,25		401 / 431		
1,50		416 / 417		
2,00			416 / 417	
3,00				417

Working length	1,000	1,250	1,500	1,600	1,800	2,000	2,500	3,000	3,200	4,000
Sheet thic kn. ▼										
<b>Shears</b>										
1,00							HS	HS		
1,25						HS				
1,50									MHSU	
2,00	HS						MHSU		MHSU	
2,50			MHSU			MHSU	MHSU			PDC
2,75									527	
3,00	MHSU	MHSU				MHSU			PDC	
3,25						527	527			
3,50							PDC			
3,75				527						
4,00	MHSU / 527	527	MHSU			PDC				
4,50	PDC		PDC							
6,00								Power Shear		Power Shear
10,00						528		528		528
13,00								528		528
16,00								528		528
20,00								528		

Working length	1,000	1,200	1,500	1,600	1,800	2,000	2,500	3,000	3,200	4,000
Sheet thic kn. ▼										
<b>Slip bending rolls</b>										
0.5/0.75					145					
1.00	102 / 114 /125	125				134				
1.25	102 / 125	102 / 125								
1.50	102 / 114 /125		134			134				
1.75		134								
2.00	114 / 134		134			134				
2.50		134				134	136			
3.00	134		134			136	136			
3.50		134	134			136	136			
4.00	134	134	136			136				
4.50	134	136	136			136				
5.00	136	136	136							
5.50	136	136	136							
6.00	136	136								
6.50	136									



## 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 270 people at various locations at home and abroad.

All information provided as a guide only  
and subject to change at all times.  
HSM 191022EN

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GROUP