



SHEET METAL WORKING MACHINES Industrial sector

# Sheet metal folders for the industrial sector



EVO DuoBend

PowerBend Industrial UD

EVO Heavy Duty

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 machines designed for thick sheet metal applications up to 16 mm steel sheet – we are pleased to offer you our advice to selecting a suitable machine for your requirements.

#### More than 75 years of sheet metal working

Since more than 75 years Hans Schröder Maschinenbau GmbH specialized in the development of modern machine concepts for bending and cutting sheet metal for craftsmen and for industrial production processes. The family owned company founded in 1949 by Hans Schröder unifies traditional and modern approaches in machine building: technical competence and high commitment to innovation, intensive quality- and service orientation, the work for and with the customer as well as a trusting cooperation with suppliers and employees. Graphic control POS 2000 Professional



Clamping beam tools

Working length Sheet thickness (400 N/mm <sup>2</sup> )	3,200	4,000	5,000
	Folding	machines	
3.00		SPB Evolution UD / EVO Center	
4.00	SPB Evolution UD / EVO Center	EVO DuoBend	MAK 4 Evolution UD
5.00	EVO DuoBend	MAK 4 Evolution UD / PBI UD	
6.00	MAK 4 Evolution UD / PBI UD		
16.00	EVO Heavy Duty		

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## Folding machine MAK 4 Evolution UD

The MAK 4 Evolution UD is our solution for complex tasks involving industrial sheet metal working – powerful, precise, and extremely efficient.



Optional fully-automatic tool changer for clamping beam tools for max. tool height 500 mm

The MAK 4 Evolution UD combines the Schröder groups' many years of experience in sheet metal folding with pioneering innovations: precise linear drive, graphical programming and an automatic tool changer.

With the MAK 4 Evolution UD you are able to work more productively thanks to the "Up-and-Down" technology. All of this opens up new opportunities to your company for processing sheet metal – for faster, more flexible production and reduced costs per unit.

Thanks to the revised Advanced Handling System "AHS", a turntable gauge technology, you can turn your customers' increasing demands for quality, flexibility and speed into competitive advantages for your company.

### Gauge system "AHS"

Das Advanced Handling System "AHS" consists of a rotary plate with suction cups in the middle of the machine (aisle) and offers two exchangeable suction plates including table plates (aisle side) to suit the respective plate size:

- 1. Nonminal size = ø220 mm
- 2. Nonminal size = ø330mm

Optional: Nominal size = ø330mm x 460mm



### Table

- Table support closed with ball rollers
- Suction plates movable in the gauge table

### Accessories

- Camera system for measuring the sheet metal contour
- Motorized referencing axes for positioning
- Additional operating terminal at the rear support column rotatable and height-adjustable
- Including safety concept



Standard equip	ment
Software control	<ul> <li>POS 3000 3-D graphic control with touchscreen on swivelling arm</li> <li>Radius function</li> <li>Remote maintenance</li> </ul>
Clamping beam	<ul> <li>Clamping beam stroke: 1,090 mm</li> <li>Clamping beam geometry: 180°</li> <li>Hydraulic tool clamping device (WZS 5010)</li> </ul>
Folding beam	<ul> <li>Up'n Down folding beam, automatically controlled</li> <li>Pneumatic tool clamping device (WZS 7000)</li> <li>Motorized folding beam adjustment: 180 mm</li> <li>Motorized folding center adjustment: 100 mm</li> <li>Motorized central crowning device</li> <li>Center point adjustment, converter-controlled drive</li> </ul>
Back gauge	<ul> <li>Back gauge table 1,700 mm as U-shape, segmented support plates with steel balls</li> <li>Lateral angle gauge right and left side 1500 mm (outside)</li> <li>Suction plates in gauge table, controlled via POS 3000</li> <li>2 pneumatic pop-up square arms assembled aisle side, program-controlled</li> <li>Gauge axis in front</li> </ul>
Safety	<ul> <li>Protection via light barrier controlled by safety-PLC for operation from the rear</li> <li>Safety package for operation from the front incl. 2nd foot switch on rail for lateral movement (in combination with tool changer clamping beam no operation from the front possible)</li> </ul>
Others	<ul> <li>Standard machine without tools</li> <li>Foot switch</li> <li>Anchor plates incl. dowels</li> </ul>

Special equipment			
Clamping beam	<ul> <li>Fully automatic tool changer (WSZ 6010) with a hydraulic tool clamping device (a total of 8 axis) for max. tool height of 500 mm (without toolings), two asynchronously movable tool changers with one gripper unit each</li> <li>incl. safety fence with lateral access door</li> <li>incl. air conditioner on both switch cabinets</li> <li>Central lubrication, program-controlled via POS 3000</li> </ul>		
Folding beam	<ul> <li>Additional option, automatic tool changer for folding beam tools with pneumatic tool clamping device WZS 7200 incl. incl. two tool magazines and one folding beam tool set</li> </ul>		
Back gauge	<ul> <li>Side table left or right, sheet support table closed with ball rollers (graphic p.7)</li> <li>2 storage tables for manual unloading, can be lowered mechanically, sheet support table with ball rollers (graphic p.7)</li> <li>2x table flap to close the gap between the stop and side table (graphic p.7)</li> <li>Pneumatically lowerable gauge fingers (2 sectors 850/1700 mm)</li> <li>Back gauge extension right and/or left with pneumatically lowerable gauge fingers (balls in table), combinable with side table</li> <li>Gauge system "AHS": Rotary plate with suction cups in the middle of the machine, controlled via POS 3000; flexible handling, as automatic and manual loading is possible. Technical data (p. 6)</li> <li>Gripper gauge (p. 6)</li> </ul>		
Safety	<ul> <li>Additional equipment for 2-man-operation control in accordance with accident prevention rules required</li> </ul>		
Others	<ul> <li>External programming (PC-Version)</li> <li>Voltage transformer 52 kVA</li> <li>Air conditioner on both switch cabinets</li> <li>Tool options see p. 28-29</li> </ul>		



	- //// //		MAK 4 EVOLUTION UD	3 200 x6.0	4000 x 5.0	5000 x 4.0
			Working length (a)	3,240 mm	4,040 mm	5,040 mm
/	00000		Sheet thickness (400 N/mm <sup>2</sup> )	6.0 mm	5.0 mm	4.0 mm
· · ·			Machine length (b)	6,418 mm	7,218 mm	8,218 mm
· · ////				Back gauge (c)		
• /////	<u></u>		U-3400	5,310 mm	-	-
0			U-4250	-	6,160 mm	-
1.3 0		•	U-5100	-	-	7,010 mm
11.3 51		· / ·	Weight without back gauge	ca. 22,000 kg	ca. 23,500 kg	ca. 26,000 kg
1.0		11	Clamping beam			
Option: The rotary plate gauge s		inced handling system "AHS"	Geometry	180°	180°	180°
with a camera system for measuring the sheet contour.		Stroke	1090 mm			
Technical data "AHS"	3,200 x 6.0	4,000 x 5.0	Drive power	2 x 9.45 kW	2 x 9.45 kW	2 x 9.45 kW
Smallest sheet format	360 x 360 mm	360 x 360 mm	Speed	100 mm/sec	100 mm/sec	100 mm/sec
Largest sheet format 3,700 x 1,500 mm 3,700 x 1,500 mm		Folding beam				
Max. weight that can be handled on the table (S235)300 kg (Large format sheet)300 kg (Large format sheet)6 x 1,500 x 3,000 mm6 x 1,500 x 4,000 mm		Adjustment, motorized	180 mm			
Max. weight of hte product to be handled 236 kg		Drive power	2 x 9.42 kW	2 x 9.42 kW	2 x 9.42 kW	
		Speed	150°/sec	150°/sec	150°/sec	
Stroke of rotary plate	100 mm		Folding center adjustment	100 mm		



#### Suitable back gauge and table options for your tasks

Support tables with balls enable easy and gentle handling of the workpiece. The pneumatically lowerable angle gauges on the left and right of the aisle are ideal for folding long, narrow sheets at an exact right angle. Suction plates in the back gauge table are controlled via POS 3000. They fix the workpiece pneumatically and grip where stop fingers cannot find a reliable hold because the sheet has curves or recesses on the back gauge side, for example.



#### Optional: Gripper gauge available

You will receive a U-shaped support table 2,000 mm with a movement range of 150 – 2150 mm. The table also has two pneumatic grippers that can be moved sideways. Two stop fingers or two suction plates are available as additional stop options (cannot be used in combination). Two additional side tables on the left and right consisting of a closed table support with ball rollers to extend the support table to the machine width are also included in this option.

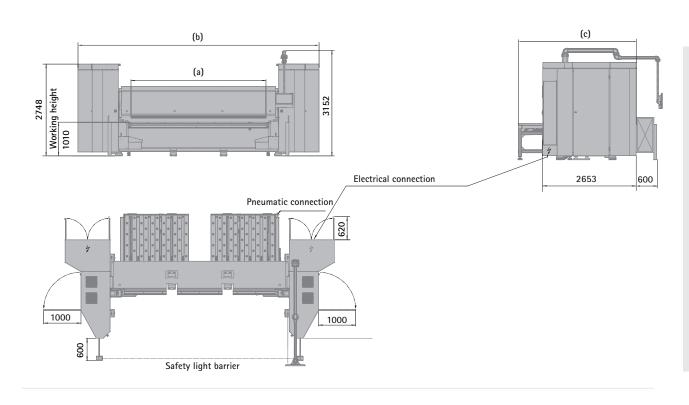


#### Fast and safe setup with POS 3000

The MAK 4 Evolution UD can be equipped with a fully automatic tool changer. The clamping beam and optionally also the folding beam are equipped with tools in a matter of seconds. Two rotary units, each moved by high-precision linear drives, use a gripper unit to remove tools from the magazine and position them in the tool changer or remove the existing ones.

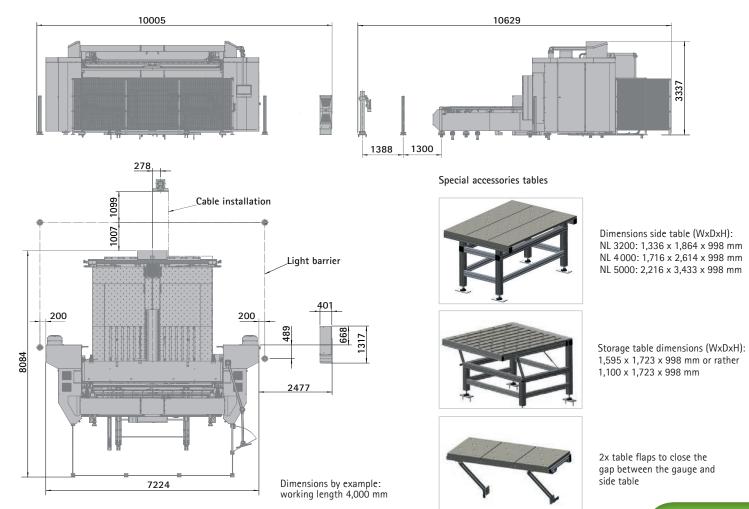


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Automatic setup programming and control of the tool changer
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and DXF converter
- Options: PC-Version, Unfold software "SCHRÖDER Unfold"



### Dimensions: MAK 4 Evolution UD without tool changer

### Dimensions: MAK 4 Evolution UD with tool changer and AHS



## Folding machine EVO DuoBend

The innovative EVO DuoBend double-folder is used in sheet metal processing industrial plants and offers the perfect solution for the production of large-format products with counterbends.





Thanks to the two folding beams the machine is able to bend a large number of counterfolds one after the other. The prime example of such workpieces is a customer-specific trapezoidal sheet.

### EVO DuoBend with two folding beams

The motorized folding machine EVO DuoBend owes its name "DuoBend" to its two independently operated folding beams. With the EVO DuoBend, the Schröder Group is once again increasing its flexibility in the area of sheet metal folding many times over: Products for container construction, vehicle construction or conventional folding applications such as heavy sheets with counterbends, can be manufactured efficiently.

The machine can also be used by large contract manufacturing companies. It can be purchased in the working lengths 4,040 mm for sheets up to 4 mm thickness or 3,200 mm for sheets up to 5 mm thickness.

The two folding beams of the EVO DuoBend enable a highly efficient motion sequence:

A positive bend is performed by the bottom folding beam and folding of a negative bend by the top folding beam. This eliminates the need to bypass product sides that have already been bent, which means that there are no longer any restrictions due to the maximum bypass radius of less than 200 mm. The time saved when changing from up to down or down to up bending results in a shorter cycle time.

The workpiece is processed during the entire folding process without a machine operator as the operator only has to position the product once at the beginning. This significantly reduces the error rate by the operator. The high bending quality is supported by the motorized crowning on both folding beams, which contributes to a straight bending result.



Standard equipment				
Software con- trol	<ul> <li>POS 3000 3-D Graphic control on swivelling arm</li> <li>Radius function</li> <li>Remote maintenance via Internet</li> <li>External programming (PC-Version 1. Licence)</li> </ul>			
Clamping beam	<ul> <li>Clamping beam stroke: 850 mm</li> <li>Clamping beam geometry: 180°</li> <li>Fully automatic tool changer WZS 6500 for clamping beam tools with a hydraulic tool clamping device (a total of 8 axis) for max. tool height of 500 mm, two asynchronously movable tool changers with one gripper unit each</li> </ul>			
Folding beam	<ul> <li>Two folding beams, program-controlled</li> <li>Mechanic tool clamping device (screwed) (WZS 19000)</li> <li>Motorized folding beam adjustment 150 mm</li> <li>Motorized folding center adjustment 370 mm</li> <li>Motorized central crowning device in both beams</li> </ul>			
Back gauge	<ul> <li>Gauge table 1,700 mm as U-shape divided support plates with steel balls</li> <li>Lateral angle gauge right and left side 1500 mm (outside)</li> <li>Suction plates in gauge table, controlled via POS 3000</li> <li>2 pneumatic pop up square arms assembled aisle side, program-controlled</li> <li>Gauge axis in front</li> </ul>			
Work safety	<ul> <li>Protection via light curtain controlled by safety-PLC for operation from the rear</li> <li>Safety fence with double doors</li> </ul>			
Others	<ul> <li>Standard machine without tools</li> <li>Working height 1,160 mm</li> <li>Foot switch, anchor plates incl. dowels, decentralized lubrication system</li> <li>Air conditioner on both switch cabinets</li> </ul>			

Special equipmer	Special equipment				
Back gauge	<ul> <li>Side table left or right, sheet support table closed with ball rollers (graphic p. 11)</li> <li>2 storage tables for manual unloading, can be lowered mechanically, sheet support table with ball rollers (graphic p. 11)</li> <li>2x table flap to close the gap between the stop and side table (graphic p. 11)</li> <li>Pneumatically lowerable gauge fingers (2 sectors 850/1700 mm)</li> <li>Back gauge extension right and/or left with pneumatically lowerable gauge fingers (balls in table), combinable with side table</li> <li>Gripper gauge system:</li> <li>U-shaped table 2,000 mm, movement range 150 - 2,150 mm</li> <li>2 lateral moveable pneumatic grippers</li> <li>Additional gauge options:</li> <li>2 suction plates</li> <li>(gauge options cannot be used in combination)</li> <li>2 additional side tables left and right, sheet support table closed with ball rollers to extend the table up to machine width</li> </ul>				
Safety	<ul> <li>Additional equipment for 2-man-operation control in accordance with accident prevention rules required</li> </ul>				
Software control	– SCHRÖDER Unfold software				
Others	<ul> <li>Voltage transformer 52 kVA, Overseas packaging</li> <li>Tool options, please see p. 30-31</li> </ul>				

Positive bend

Negative bend





EVO DuoBend	3,200 x 5.0	4,000 x 4.0
Working length (a)	3,240 mm	4,040 mm
Sheet thickness (400 N/mm <sup>2</sup> )	5.0 mm	4.0 mm
Machine height with ATC	3,337 mm	3,337 mm
Machine length (b)	6,420 mm	7,220 mm
Back gauge (c)		
U-3400	5,310 mm	-
U-4250	-	6,160 mm
Weight without back gauge	ca. 27,500 kg	ca. 29,000 kg
Clamping beam		
Geometry	180°	180°
Stroke	850	mm
Drive power	2 x 9.45 kW	2 x 9.45 kW
Speed	100 mm/sec	100 mm/sec
Folding beam (2x)		
Adjustment, motorized 150 mm		
Drive power	2 x 9.42 kW	2 x 9.42 kW
Speed	150°/sec	150°/sec
Folding center adjustment	370 mm	

EVO DuoBend with two folding beams

Cross section: clamping beam tools, bottom beam tools and folding beam tools of the upper folding beam



### Back gauge system

In its standard version the EVO DuoBend has a U-shaped 1700 mm sheet support table. This sheet support table with balls makes handling easy and gentle on the material. There are 1500 mm angle gauges on the left and right side of the table as well as pneumatically lowerable angle gauges in the aisle of the machine that enable exact positioning of the sheet.



### Suction plates controlled via POS 3000 software

The basic version of the EVO DuoBend is equipped with suction plates in the gauge table. These enable pneumatic fixing of the workpiece: the sheet gets fixed pneumatically once and, thanks to the intelligent control system, all bends on one side run automatically and without further handling by the machine operator. Optionally you can increase the operating comfort with an additional gripper gauge. With two laterally movable pneumatic grippers, this gripper gauge offers you even greater safety when fixing heavy large-format sheets.



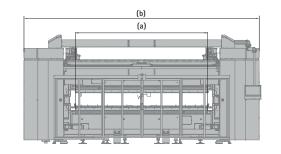
#### Fast and safe setup with POS 3000

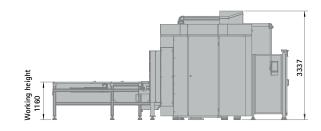
The EVO DuoBend is equipped with a fully automatic tool changer on the clamping beam, which can be set up with up to 500 mm high tools. Two rotary units, each moved by high-precision linear drives, use a gripper unit to remove tools from the magazine and position them in the tool clamping device or remove the existing tools. A clamping beam stroke of 850 mm enables foursided boxes with a depth of 500 mm to be bent.

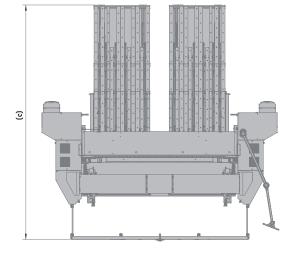


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Automatic setup programming and control of the tool changer
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and DXF converter
- Options: Unfold software "SCHRÖDER Unfold"

### Dimensions: EVO DuoBend









#### Gripper back gauge

As an option, you can increase operating convenience with an additional gripper gauge. With two pneumatic grippers that can be moved sideways, this gripper stop offers you even greater safety when fixing heavy, large-format sheets.



Rear view EVO DuoBend: Support table 1,700 mm in U-shape, split support plates with steel ball rollers.

### Special accessories tables







Dimensions side table (WxD): WL 3200: 1,330 x 1,864 x 1,160 mm WL 4000: 1,710 x 1,864 x 1,160 mm

Storage table dimensions (WxD): 1,723 x 1,959 mm or rather 1,723 x 1,100 mm

2x table flaps to close the gap between the gauge and side table

## Folding machine EVO Center

The best premise for your top performance - A Schröder EVO Center is your industrial solution to achieve high volume as well as flexible serial production with extreme repeatability.



The EVO Center is a folding machine that processes sheet metal in almost fully automatic operation. The development of the Schröder EVO Center is based on our many years of experience in the field of our modern folding machine technology of the Evolution series.

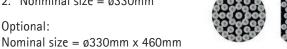
Thanks to intelligent set-up technology and our optionally available innovative Advanced Handling System "AHS", the Schröder EVO Center can be used efficiently both for series production and for order-related production with rapidly changing small batches.

The tool changer and handling system are controlled via our specially developed intelligent 3D control software POS 3000.

### Gauge system "AHS"

Das Advanced Handling System "AHS" consists of a rotary plate with suction cups in the middle of the machine (aisle) and offers two exchangeable suction plates including table plates (aisle side) to suit the respective plate size:

- 1. Nonminal size = ø220 mm
- 2. Nonminal size = ø330mm



### Table

Optional:

- Table support closed with ball rollers
- Suction plates movable in the gauge table

### Accessories

- Camera system for measuring the sheet metal contour
- Motorized referencing axes for positioning
- Additional operating terminal at the rear support column rotatable and height-adjustable
- Including safety concept



Standard equip	ment
Software control	<ul> <li>POS 3000 3-D graphic control with 22" TFT touch-screen colour display movable via guide rail</li> <li>Radius function</li> <li>Remote maintenance</li> <li>External programming (PC-Version 1st licence)</li> </ul>
Clamping beam	<ul> <li>Z-axis drive max. axis speed: 120 mm/sec</li> <li>Clamping beam geometry: 180°</li> <li>Clamping beam stroke: 850 mm</li> <li>Hydraulic tool clamping device (WZS 6010)</li> <li>Fully automatic tool changer for clamping beam tools for max. tool height 400 mm, 2 asynchronously movable tool changers with one gripper unit each</li> </ul>
Folding beam	<ul> <li>Up'n Down folding beam, program-controlled</li> <li>Pneumatic tool clamping device (WZS 7000)</li> <li>Motorized folding beam adjustment: 200 mm</li> <li>Motorized central crowning device</li> <li>Motorized center point adjustment, converter-controlled drive</li> </ul>
Back gauge	<ul> <li>Gauge table 1,700 mm as U-shape, divided support plates with steel balls</li> <li>Lateral angle gauge right and left side 1,500 mm (outside)</li> <li>Suction plates in gauge table, controlled via POS 3000</li> <li>2 pneumatic pop-up square arms assembled aisle side, program-controlled</li> <li>Gauge axis in front</li> </ul>
Drive	<ul> <li>Servoconverter-controlled drives for clamping beam, folding beam, B-Axis, D-Axis and back gauge</li> </ul>
Safety	<ul> <li>Protection via light curtain controlled by safety-PLC for operation from the rear</li> <li>Safety at the front via double-leaf sliding door</li> </ul>
Others	<ul> <li>Air conditioner on both switch cabinets</li> <li>Foot switch with two pedals incl. protection cover</li> <li>Anchor plates incl. dowels</li> <li>Standard machine without tools</li> </ul>

Special equipm	Special equipment			
Back gauge	<ul> <li>Side table left or right, support table closed with ball rollers. Technical data (p. 15)</li> <li>2 storage tables for manual unloading, can be lowered mechanically, sheet support table with ball rollers (graphic p. 15)</li> <li>2x table flap to close the gap between the stop and side table (graphic p. 15)</li> <li>Pneumatically lowerable gauge fingers (2 sectors 850/1700 mm)</li> <li>Various back gauge extensions right and/or left with pneumatically lowerable gauge fingers (balls in table), combinable with side table</li> <li>Gauge system "AHS": Rotary plate with suction cups in the middle of the machine, controlled via POS 3000; flexible handling, as automatic and manual loading is possible. Technical data (p. 14)</li> <li>Gripper gauge (p. 14)</li> </ul>			
Folding beam	<ul> <li>Additional option, automatic tool changer for folding beam tools with pneumatic tool clamping device WZS 7200 incl. two tool magazines and one folding beam tool set</li> </ul>			
Others	– Voltage transformer 18 kVA – Tool options, see p. 28-29			





Option: The rotary plate gauge system is a fully automatic advanced handling system "AHS" with a camera system for measuring the sheet contour.

Technical data "AHS"	3,200 x 4.0	4,000 x 3.0	
Smalles sheet format	360 x 360 mm	360 x 360 mm	
Largest sheet format	3,700 x 1,500 mm	3,700 x 1,500 mm	
Max. weight that can be handled on the table (S235)	300 kg (Large format sheet) 6 x 1,500 x 3,000 mm	300 kg (Large format sheetl) 6 x 1,500 x 4,000 mm	
Max. weight of hte product to be handled	23	6 kg	
Stroke of rotary plate	100 mm		

EVO Center	3,200 x 4.0	4,000 x 3.0		
Working length (a)	3,240 mm	4,040 mm		
Sheet thickness (400 N/mm <sup>2</sup> )	4.0 mm	3.0 mm		
Machine length (b)	9,406 mm	10,206 mm		
Back gauge (c)				
U-1700	3,362 mm	3,362 mm		
U- or rather J-3400	5,145 mm	-		
U- or rather J-4250	-	5,995 mm		
Weight with back gauge U-1700 (ca.)	14,000 kg	16,380 kg		
Clamping beam				
Geometry	180°	180°		
Stroke	850 mm	850 mm		
Drive power	2 x 6.69 kW	2 x 6.69 kW		
Speed	120 mm/sec	120 mm/sec		
Folding beam				
Adjustment, motorized	200 mm	200 mm		
Drive power	2 x 7.0 kW	2 x 7.0 kW		
Speed	150°/sec	150°/sec		
Folding center adjustment	mm			



### Suitable back gauge and table variants for your tasks

Support tables with balls enable easy and gentle handling of the workpiece. The pneumatically lowerable angle gauges on the left and right of the aisle are ideal for folding long, narrow sheets at an exact right angle. Suction plates in the back gauge table are controlled via POS 3000. They fix the workpiece pneumatically and grip where stop fingers cannot find a reliable hold because the sheet has curves or recesses on the back gauge side, for example.



#### Optional: Gripper gauge available

You will receive a U-shaped support table 2,000 mm with a movement range of 150 – 2,150 mm. The table also has two pneumatic grippers that can be moved sideways. Two stop fingers or two suction plates are available as additional stop options (cannot be used in combination). Two additional side tables on the left and right consisting of a closed table support with ball rollers to extend the support table to the machine width are also included in this option.



Flexibility thanks to automatic tool changer The EVO Center's fully automatic tool changer loads the clamping beam quickly and accurately with tools for a maximum clamping beam tool height of 400 mm.

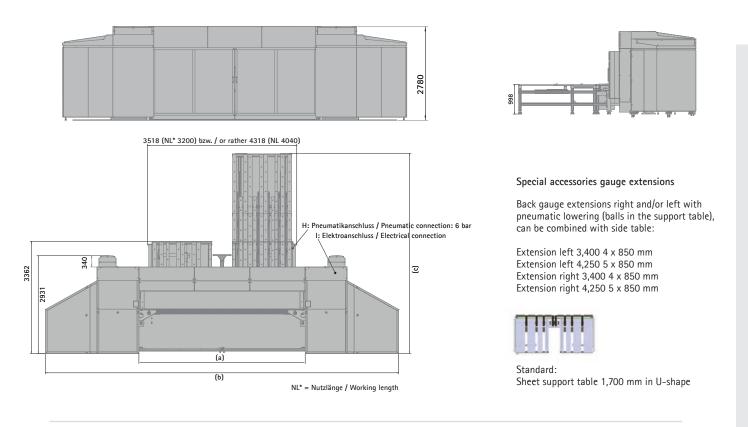


**Fully automatic folding beam tool changer** An automatic tool changer for folding beam tools is available as an option. The tools are clamped pneumatically.

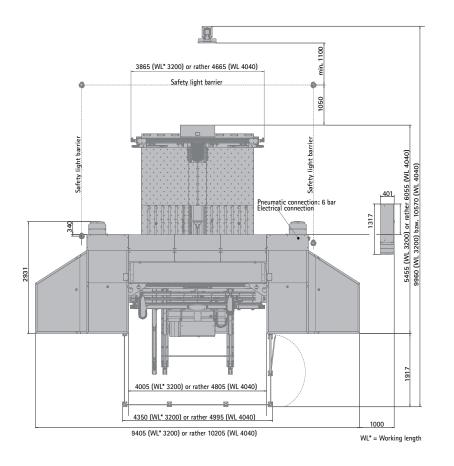


- 3D graphic control POS 3000
- Intuitive programming
- 3D bending simulator
- Cycle time calculator
- ERP/PPS interfaces and more

### Dimensions: EVO Center



### Special accessory EVO Center with optional Advanced Handling System "AHS"



Special accessories tables







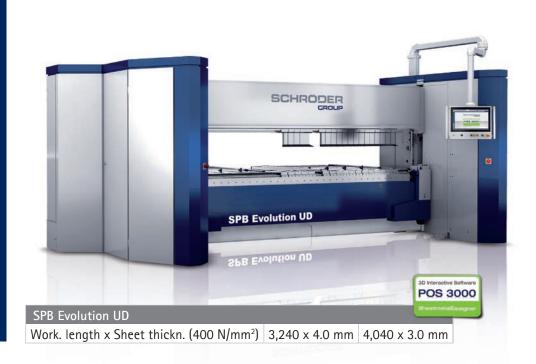
Dimensions side table (WxDxH): NL 3200: 1,336 x 1,864 x 998 mm NL 4000: 1,716 x 2,614 x 998 mm

Storage table dimensions (WxDxH): 1,595 x 1,723 x 998 mm or rather 1,100 x 1,723 x 998 mm

2x table flaps to close the gap between the gauge and side table

## Folding machine SPB Evolution UD

The SPB Evolution UD is our versatile industrial folding machine for the single piece and serial production that unifies power, speed and precision.





Up-and-Down function: counter folds without turning the sheet

The SPB Evolution UD allows you to bend complex work pieces such as panels, boxes or cassettes and to achieve high productivity at the same time. The machine with the working length 3,200 x 4.0 or 4,000 x 3.0 is an extremely flexible Up-and-Down folding machine. In addition to precise linear drives and graphic programming, the rotating clamping beam or the suction gauge are the highlight functions of the machine. All these are possibilities to make your production faster, more efficient and more flexible.

Multi-shift operation, industrial series production, complex processing of stable metal sheets – the SPB Evolution UD provides the ability and robustness required for these challenges.

### Up-and-Down-Technology increases productivity

Minimize the costs of handling large metal sheets on the machine and take advantage of Schröder's Up-and-Down technology. More processing steps in shorter times. With conventional folding machines, the sheet needs to be turned. Even a simple Z-fold becomes a challenge if an operator needs to turn a four-meter long sheet upside down.

We provide the solution: The SPB Evolution UD bends up and down in one processing step. This saves numerous manual actions, simplifies the handling of unwieldy work pieces, shortens throughput times and lowers costs per unit.



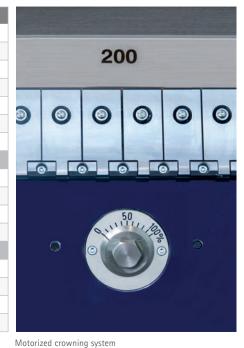


Standard equipment		
Software control	<ul> <li>POS 3000 3-D graphic control with touchscreen on swivelling arm</li> <li>Radius function</li> <li>Remote maintenance</li> </ul>	
Clamping beam	<ul> <li>Clamping beam stroke: 650 mm</li> <li>Rotating clamping beam as automatic tool changing system incl. hydraulic tool clamping device (WZS 2000)</li> </ul>	
Folding beam	<ul> <li>Up'n Down folding beam, automatically controlled</li> <li>Pneumatic tool clamping device (WZS 7000)</li> <li>Folding beam adjustment, motorized: 200 mm</li> <li>Folding center adjustment, motorized: 80 mm</li> <li>Motorized central crowning device</li> <li>Center point adjustment, converter-controlled drive</li> </ul>	
Back gauge	<ul> <li>Positioning gauge 10 - 3,400 mm and 10 - 4,250 mm as U-shape with sectors, pneumatic pop-up gauge fingers, steel balls in sheet support table.</li> <li>Angle gauge 1,500 mm left and right side.</li> <li>Suction plates in gauge table, program-controlled incl. 2 pneumatic pop up square arms assembled aisle side. The sheet support plates can be removed to make room for downflange applications</li> </ul>	
Safety	<ul> <li>Protection via light barrier controlled by safety-PLC for operation from the rear</li> <li>Safety package for operation from the front, incl. 2nd foot switch on rail for lateral movement</li> </ul>	
Others	<ul> <li>Standard machine without tools</li> <li>Foot switch</li> <li>Anchor plates incl. dowels</li> </ul>	

Special equipment		
Software control	– External programming (PC-Version) – Unfold software "SCHRÖDER Unfold" (POS 3000 PC Version required)	
Safety	<ul> <li>Additional equipment for 2-man-operation control in accordance with accident prevention rules required</li> </ul>	
Others	<ul> <li>Voltage transformer 18 kVA</li> <li>Air conditioner on both switch cabinets</li> <li>Tool options see p. 28-29</li> </ul>	



SPB EVOLUTION UD	3,200 x 4.0	4,000 x 3.0	
Working length (a)	3,240 mm	4,040 mm	
Sheet thickness (400 N/mm <sup>2</sup> )	4.0 mm	3.0 mm	
Machine length (b)	6,332 mm	7,132 mm	
Back gauge (c)			
U-3400	5,180 mm	-	
U-4250	-	6,030 mm	
Weight without back gauge	12,260 kg	13,350 kg	
Clamping beam			
Geometry	180° / 45°	180° / 45°	
Stroke	650 mm	650 mm	
Drive power	2 x 6.69 kW	2 x 6.69 kW	
Speed	120 mm/sec	120 mm/sec	
Folding beam			
Adjustment	200 mm	200 mm	
Drive power	2 x 7.0 kW	2 x 7.0 kW	
Speed	150°/sec	150°/sec	
Folding center adjustment	80 mm	80 mm	



The rotating clamping beam holds a second set of tools.



### Rotating clamping beam

Fast changing jobs or complex folding tasks with different folding tools – the SPB Evolution UD holds a second set of tools in the rotating clamping beam. Where other folding machines need to be re-equipped, the SPB Evolution UD simply continues to work. An additional advantage: The rotating clamping beam provides an alternative machine geometry with other clearances.



#### Suction gauge controlled via POS 3000

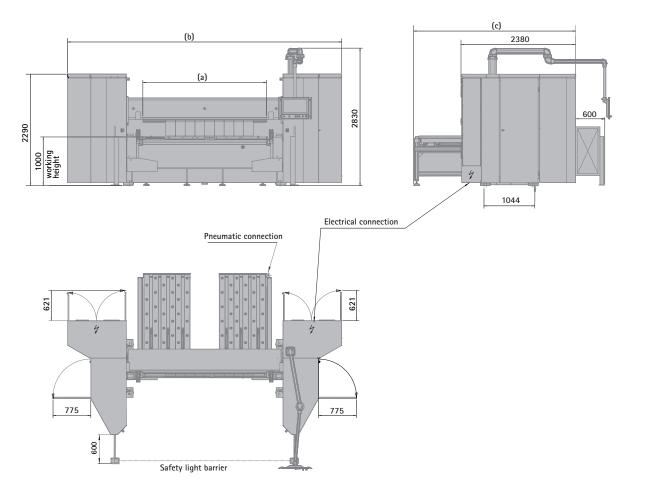
Suction cups in the back gauge pneumatically fix the sheet: The suction gauge takes effect where the pop-up gauge fingers have no reliable grip if the work piece on the gauge side e.g. has cut-outs or roundings. The sheet gets pneumatically fixed and thanks to the intelligent software control all bends on one side can be carried out with one single manual action.



Visualized quality with the POS 3000 3D graphic control Sophisticated folding shapes can be produced easily thanks to the graphical user interface of the control software and the wide range of tools.



- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Automatic setup programming and control of the tool changer
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and DXF converter
- Options: PC-Version, Unfold software "SCHRÖDER Unfold"



### Dimensions: SPB Evolution UD

Back gauge extensions (Standard version)

Positioning gauge 10-3,400 mm or rather 10-4,250 mm as U-shape with sectors incl. pneumatic lowering:

U-shape 3,400 mm U-shape 4,250 mm



## Folding machine PowerBend Industrial UD

The PowerBend Industrial UD is our professional solution for reliable and efficient operation in heavy production industrial shops. This powerful, motorized folding machine expands the portfolio of the PowerBend-series.





The Up-and-Down folding beam allows counterbends in one working step.

Just as the PowerBend-series, the folding machine PowerBend Industrial was engineered using finite element analysis as well as latest computer simulations. Decades of experience in industrial folding result in a rigid frame that provides a base from which the PowerBend Industrial UD achieves unmatched precision and operational efficiency.

The PowerBend Industrial UD is available with a working length of 3,200 mm for bending steel sheets up to 6.0 mm thickness. This machine can also be acquired at a working length of 4,000 mm for steel sheets up to 5.0 mm thick.

### Highlights

- Unique robustness, reliability and repeat accuracy
- Production of single pieces and prototypes
- Patented Up-and-Down system
- Clamping beam stroke of 850 mm
- Tool positioning display alongside the clamping beam
- Bilateral drives on the clamping- and the folding beam achieve extremely fast clamping and folding speeds



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Standard equipment		
Software control	<ul> <li>Graphic control POS 2000 Professional on swivelling arm</li> <li>PC Version (external programming), 1st licence</li> <li>Radius function</li> <li>Remote maintenance</li> </ul>	
Clamping beam	<ul> <li>Drive: 2 x 3.0 kW (converter controlled, recirculated ball screw)</li> <li>Clamping beam geometry: 180°</li> <li>Clamping beam stroke: 850 mm</li> <li>Axis inclination of clamping beam</li> <li>Hydraulic tool clampling device (WZS 2000)</li> <li>Tool positioning display alongside the clamping beam</li> </ul>	
Folding beam	<ul> <li>Up'n Down folding beam, program-controlled</li> <li>2 servo drives for continous commuting of the axis</li> <li>Drive: 2 x 5.5 kW (converter-controlled, trapezoidal spindle)</li> <li>Hydraulic tool clampling device (WZS 15100)</li> <li>Motorized folding beam adjusment 170 mm, servo-controlled</li> <li>Motorized folding center adjustment +80/-15 mm</li> <li>Motorized central crowning device</li> </ul>	
Back gauge	<ul> <li>Positioning gauge as U-shape: 20 – 1,600 mm, 2 sectors pneumatically lowerable, sheet support table with balls, recirculated ball screw (+/- 0,1 mm)</li> </ul>	
Tools	<ul> <li>Standard machine without clamping beam- and folding beam tools</li> <li>Bottom beam blade, one-piece, 30° with finger grooves, minimal gauge 20 mm, ca. 1100 N/mm<sup>2</sup> surface-hardened (nitrated) (WZS 16300)</li> </ul>	
Safety	<ul> <li>Light barrier package for operation from the front or rear side</li> <li>2nd foot switch on rail for lateral movement</li> <li>RFID switch through cabinet door</li> </ul>	
Others	<ul> <li>Air conditioner, foot switch, LED Status display</li> <li>Anchor plates incl. dowels</li> </ul>	

Special equipment		
Technology package 3D	<ul> <li>POS 3000 3D-Graphic control, DXF-Import and more processor capacity</li> <li>Suction plates in gauge table wit 6 suction units, program-controlled incl. positioning against the folding beam</li> <li>2 fixed square arms (left + right side)</li> <li>2 pneumatic pop-up square arms assembled aisle side</li> </ul>	
Software control	<ul> <li>POS 3000 3D Graphic control, DXF-Import and more processor capacity</li> <li>POS 3000 or POS 2000 Professional PC Version</li> <li>Unfold software "SCHRÖDER Unfold" (POS 3000 PC Version required)</li> </ul>	
Back gauge	<ul> <li>Back gauge extension to J-gauge (1,600/3,200 oder 1,600/4,000 mm) or U-gauge (1,600/3,200/4,000 mm) (see p. 23 for more options)</li> <li>U-gauge 1,600 mm: double the number of ball rollers and corners of the sheet support plates welded and ground</li> <li>U-gauge or J-gauge (left or right): double the number of roller rollers, corners of the support plates welded and ground, support plate wider on the outside and with balls</li> <li>2 fixed square arms (left + right side)</li> <li>2 pneumatic pop-up square arms assembled aisle side</li> </ul>	
Safety	<ul> <li>Additional equipment for 2-man-operation control in accordance with accident prevention rules required</li> </ul>	
Others	– Voltage transformer 30 kVA – Tool options see p. 30-31	

S	SCHRÖDER GROUP

PowerBend Industrial UD	3,200 × 6.0	4,000 × 5.0	
Working length (a)	3,240 mm	4,040 mm	
Sheet thickness 400 N/mm <sup>2</sup>	6.0 mm	5.0 mm	
Machine length (b)	5,078 mm	5,878 mm	
Machine height max. 2,610 mm		) mm	
Machine width with back gauge (c)	Machine width with back gauge (c)		
U-1600	3,328 mm		
U- or rather J-3200	5,058 mm	-	
U- or rather J-4000	-	5,849 mm	
Weight basic machine (ca.)	12,600 kg	15,200 kg	
Clamping beam			
Geometry	180°	180°	
Stroke	650 mm	650 mm	
Drive (speed)	2 x 3.0 kW (65 mm/sec)	2 x 3.0 kW (65 mm/sec)	
Folding beam	Folding beam		
Drive power (speed)	2 x 5.5 kW (90°/sec)	2 x 5.5 kW (90°/sec)	
Folding beam adjustment, motor.	170 mm	170 mm	
Folding center adjustment, motor.	+80/-15 mm	+80/-15 mm	

Clamping beam stroke of 850 mm leaves room for 400 mm high tools.



### Great variety of tools

Thanks to various tools the PowerBend Industrial is able to handle most complex folding tasks. For every product we can offer you a wide range of segmented tools, that can be changed fast and easily thanks to a hydraulic tool clamping device. The clamping beam stroke of 850 mm enables the use of 400 mm high tools and offers a lot of space when processing bulky work pieces.



#### Suction gauge controlled via POS 3000

The suction gauge is an optional extension of the back gauge and enables a pneumatic fixing of sheets. Sheets can be gauged precisely against the folding beam and get fixed by suction cups. The software control recognizes the position of the sheet and starts the processing step. Afterwards the suction gauge positions the sheet automatically for every bend on that sheet – thanks to the Up-and-Down-folding beam with folds and counterfolds and without any intervention by the operator.

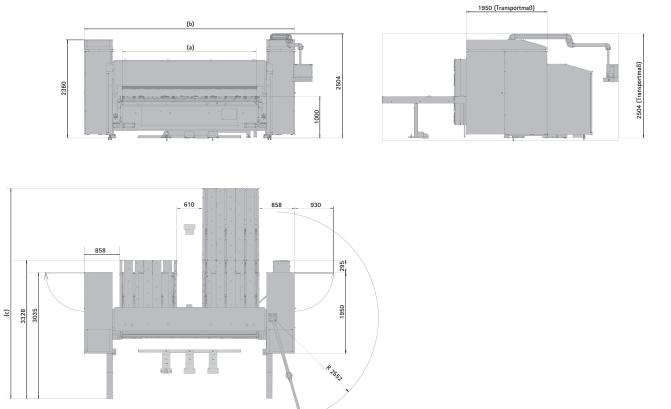


#### Highlight: Tool positioning display

The correct positioning of clamping beam tools is visualized by an integrated LED bar over the total length of the clamping beam. The folding program visualizes the position of the tools by a tool positioning display – extremely practical e.g. if you want to set up two different tool stations on the clamping beam.



- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Cycle time calculator
- PC-Version, CAM connection, ERP/PPS interfaces and DXF converter
- Options: Unfold software "SCHRÖDER Unfold"



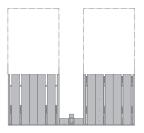
### Dimensions: PowerBend Industrial UD

### Options for back gauge extensions

Back gauge extensions: Basis: U-shape 20 - 1,600 mm

J-shape 1,600/3,200 mm J-shape 1,600/4,000 mm U-shape 3,400 mm U-shape 4,000 mm





Further back gauge options:

- Additional price for U- and J-shaped gauge for:
- double number of balls
- corners of gauge plates welded shut and sanded
- For J-shape and U-shaped gauge extension gauge plates outside are wider and with balls

## Folding machine EVO Heavy Duty

The EVO Heavy Duty is our hydraulic power machine for heavy sheet metal. The heavy duty folding machine is available in a working length of 3,240 mm and effortlessly bends up to 16.0 mm steel. This machine is built for demanding, hard work.



Option: Tool cabinet WZS 2500 on the left side of the machine for storage of goat's foot segments

### The EVO Heavy Duty - strong and powerful

- Bending work with one tool set from thin sheet up to thick sheet
- Economical and reliable folding machine with high operator friendliness
- Optimum flow of forces during bending
- Minimal set-up times
- Innovative and new hydraulic compact drives enable high compression force of 220 t
- High-precision stops thanks to graphic control POS2000 Professional (optionally POS3000)
- Great flexibility and variability due to extensive equipment such as motorized adjustment of lower and bending beams, control systems, stop systems, tool options.

### Highlights

- Unique robustness, reliability and repeatability
- Highest precision combined with greatest possible bending performance
- High productivity due to easy handling of the workpieces
- Offline-programming and innovative CAD/CAM concept thanks to Schröder Unfold
- Rear lighting alongside the clamping beam
- Optionally storage space for tools in side panels
- Clamping and folding beam drives on both sides for extremely fast closing of the clamping beam and swiveling of the folding beam





Standard equipment	t
Software control	<ul> <li>Graphic control POS 2000 Professional</li> <li>Monitor in front of the machine, integrated into the casing - rotatable</li> <li>Radius function</li> <li>PC Version (external programming), 1. licence</li> <li>Remote maintenance</li> </ul>
Clamping beam	<ul> <li>Clamping beam stroke: 500 mm</li> <li>Clamping beam geometry: 45°</li> <li>Hydraulic tool clamping device (WZS 2500)</li> </ul>
Folding beam	<ul> <li>Folding beam adjustment, motorized: 60 mm</li> <li>Mechanic tool clamping device (WZS 18000)</li> <li>Bending angle, max. 180°</li> <li>Motorized crowning device</li> <li>Folding blade 2-piece, b= 18 mm, h= 110 mm</li> <li>Reinforced folding blade 2-piece, b= 112 mm, h= 110 mm</li> </ul>
Bottom beam	<ul> <li>Bottom beam adjustment, motorized: 60 mm</li> <li>Mechanic tool clamping device (WZS 17000)</li> <li>Bottom beam blade with finger grooves, min. gauge dimension 30 mm or rather bottom beam blade without finger grooves, min. gauge dimension 120 mm</li> </ul>
Back gauge	<ul> <li>Motorized back gauge MAH 25R, working range 30 - 1,600 mm, motorized adjustment via ball screws, sheet support table with balls</li> </ul>
Safety	<ul><li>Foot switch on rail for lateral movement</li><li>Safety enclosure on the left and right of the machine with two shelves each</li></ul>
Others	<ul><li>Motor drive 37 kW</li><li>Anchor plates incl. dowels</li></ul>

Special equipment	
Software control	<ul> <li>POS 3000 3D Graphic control, DXF-Import and more processor capacity</li> <li>Unfold software "SCHRÖDER Unfold"</li> </ul>
Back gauge	<ul> <li>Thanks to its modular system, the motorized back gauge MAH 25R 30-1,600 mm can be extended to J- or U-gauge: J-shape 30 - 1,600/3,200 mm or U-shape 30 - 3,200 mm</li> <li>Angle gauge right or left side, adjustable</li> <li>Gripper gauge system MAH21, gauge table 120 - 2,000 mm, reinforced sheet supports with balls movement range 1880 mm, 4 pneumatic grippers fixed screwed (minimum height clamping beam tool 80 mm)</li> </ul>
Safety	<ul> <li>Additional equipment for 2-man-operation control in accordance with accident prevention rules required</li> <li>Safety package Plus: Light barrier package in front, RFID switch to secure the side doors</li> </ul>
Others	<ul> <li>Tool cabinet WZS 2500</li> <li>Cabinet on the left for storage of goat's foot segments</li> <li>Cabinet on the right for storage of sharp nose blade SA 45 segment length</li> <li>500 and 540 mm as well as 2 shelves</li> <li>Package "operation from the rear": 2nd monitor on the rear incl. height adjustable support arm system HMA-Lift and rear lighting 3x PROFILIGHT LED, 2nd foot switch on the rear, access security in front via light barriers</li> <li>Covering of hydraulic unit, Voltage transformer 52 kVA</li> <li>Tool options see p. 30-31</li> </ul>

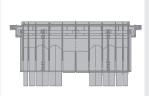


Rear view of the machine EVO Heavy Duty

EVO Heavy Duty	3,200 x 16.0	
Working length	3,240 mm	
Sheet thickness (400 N/mm <sup>2</sup> )	16.0 mm	
Main drive	37 kW	
Machine length	5,870 mm	
Machine height max.	3,204.5 mm	
Machine width with back gauge	3,016 mm	
Machine width incl. hydraulic covering	4,460.5 mm	
Clamping beam		
Geometry	45°	
Stroke	500 mm	
Speed	80 mm/sec	
Folding beam		
Adjustment, motorized	60 mm	
Bending angle max.	180°	
Bottom beam		
Adjustment, motorized	60 mm	



Option: Tool cabinet WZS 2500: on the right for storage of sharp nose blade "SA" 45,segment length 500 & 540 mm



### Back gauge

In its standard version the EVO Heavy Duty is equipped with a motorized back gauge and a movement range of 30 - 1,600 mm. It can be adjusted via ball screws. The table surface is equipped with steel ball rollers for easy movement of the work piece. Due to the modular design, the motorized back gauge MAH 25 R can be subsequently extended to a J- or U-shaped version at any time.



#### Gripper gauge system

As optional equipment, the Schröder Group ofers the so-called MAH21 motorized back gauge. With pneumatically controlled grippers it leaves nothing to be desired by the operator. The grippers can grip the sheet precisely and reliably. They are driven by recirculated ball screws.



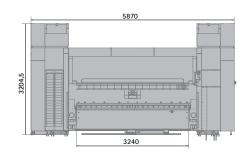
Visualized quality with the POS 3000 3D graphic control Sophisticated folding shapes can be produced easily thanks to the graphical user interface of the control software and the wide range of tools.

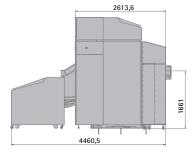


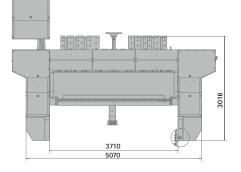
- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and DXF converter
- Options: PC-Version, Unfold software "SCHRÖDER Unfold"

### Dimensions: EVO Heavy Duty







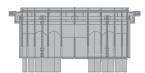


### Options for back gauge extensions

Back gauge extension right and/or left:

J-shape 3,200/1,600 U-shape 3,200

Gripper gauge system MAH21: Gauge table 120 – 2,000 mm reinforced sheet supports with balls movement range 1,880 mm 4 pneumatic grippers fixed screwed



Motorized back gauge MAH 25R

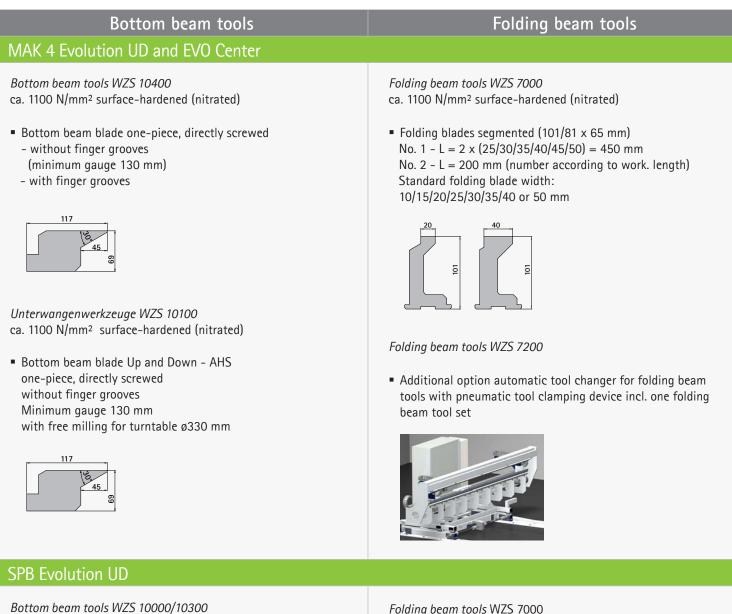


J-shape 3,200/1,600

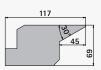


U-shape 3200

## **Tool options**

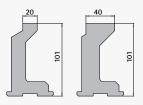


- ca. 1100 N/mm<sup>2</sup> surface-hardened (nitrated)
- Bottom beam blade one-piece, directly screwed
   without finger grooves (minimum gauge 130 mm)
  - with finger grooves



Folding beam tools WZS 7000 ca. 1100 N/mm<sup>2</sup> surface-hardened (nitrated)

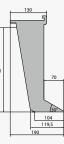
 Folding blades segmented (101/81 x 65 mm) No. 1 - L = 2 x (25/30/35/40/45/50) = 450 mm No. 2 - L = 200 mm (number according to working length) Standard folding blade width: 10/15/20/25/30/35/40 or 50 mm



### Clamping beam tools

*Clamping beam tools WZS 5010* (only for MAK 4 Evolution UD) ca. 1100 N/mm<sup>2</sup> laser hardened (mangan-phosphated)

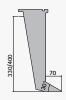
 Goat's foot blade "C", 30° (from radius 1.0 mm), clearance 60 mm clamping range 80 mm



No. 1 - L = 2 x (25/30/35/40/45/50) = 450 mmNo. 2 - L = 200 mm (number according to work. length) from H = 300 mm, L = 100 mm No. 3 - L = 2x 110 = 220 mm Height 120/180/250 or 300 mm

*Clamping beam tools WZS 6010* for tool changer ca. 1100 N/mm<sup>2</sup> surface-hardened (nitrated)

 Goat's foot blade "C", 30° (from radius 1.0 mm), clearance 70 mm clamping range 104 mm

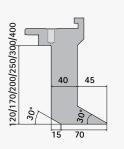


No. 1 - L = 2 x (30/35/40/45/50/55/60) = 630 mm No. 2 - L = 80 mm (number according to work. length) Height 330 or 400 mm

### Additional tools

- 1 pair fixed corner parts L = 2x 110 mm = 220 mm (suitable for goat's foot set)
- Additional pair of hinged corner parts
- Drive for active driven corner parts (free space of total clamping beam tooling is reduced by 31 mm)
- Additional pair of hinged corner parts active driven (free space of total clamping beam tooling is reduced by 31 mm)

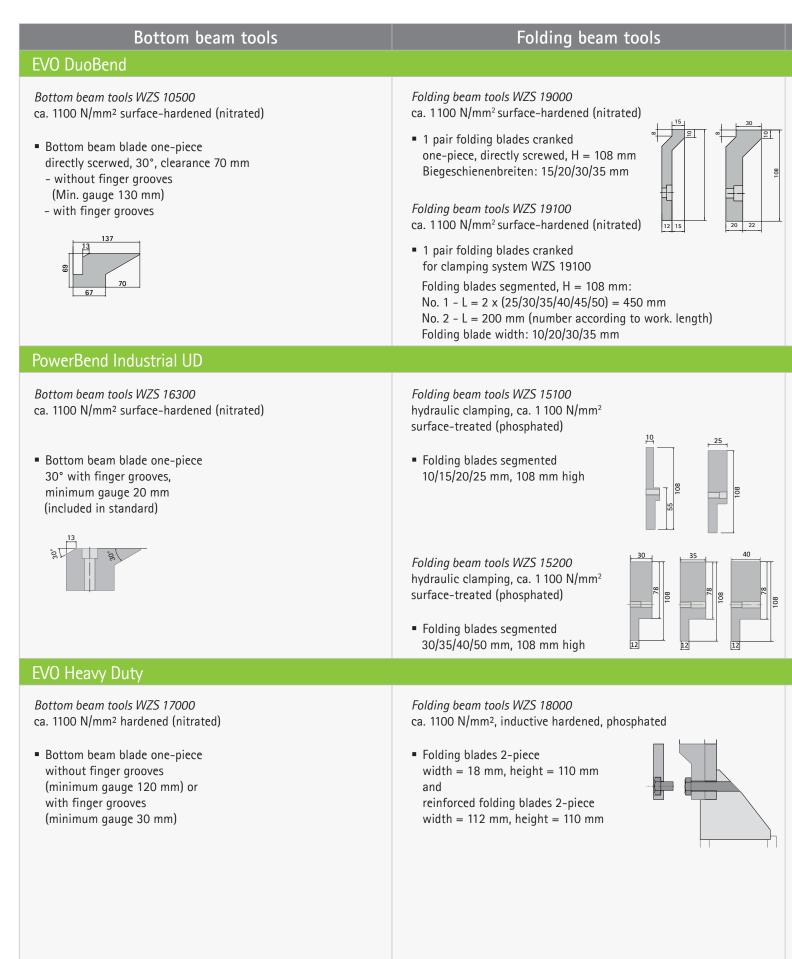
- Clamping beam tools WZS 2000 hydraulic clamping, ca. 1100 N/mm<sup>2,</sup> surface-treated (phosphated)
- Goat's foot blade "C", 20°/30°, R 1/1.5/3 mm clearance 45 mm, foot width 85 mm



- No. 1 L = 1 x (25/25/30/35/40/45/50) = 250 mm No. 2 - L = 200 mm (number according to work. length) ab H = 300 mm, L = 100 mm No. 3 - L = 2 x 100 = 200 mm (corner parts) Height 120/170/200/250 or 300 mm
- Set of segments for goat's foot blade "C" clearance 45 mm, foot width 85 mm No. 1 - L = 1 x (30/35/40/45/50) = 200 mm

Additional pair of hinged corner parts 2x 110 mm

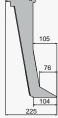
## **Tool options**



### Clamping beam tools

Clamping beam tools WZS 6500 ca. 1100 N/mm<sup>2</sup> laser hardened (mangan-phosphated)

 Goat's foot segment "C", 30°, (from radius 1.0 mm) Tool depth 225 mm, minimal tool height H = 250 mm clearance 76 mm, clamping range 104 mm



No. 1 - L = 1 x (30/35/40/45/50/55/60) = 630 mm No. 2 - L = 80 mm (number according to work. length) Height 330 mm or 400 mm

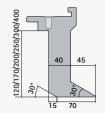
- 1 pair fixed corner parts L = 2x 110 mm = 220 mm (suitable for goat's foot set)
- Additional pair of hinged corner parts
- Drive for active driven corner parts (free space of total clamping beam tooling is reduced by 31 mm)

Additional tools

 Additional pair of hinged corner parts – active driven (free space of total clamping beam tooling is reduced by 31 mm)

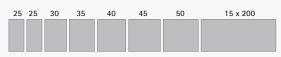
Clamping beam tools WZS 2000 hydraulic clamping, ca. 1100 N/mm<sup>2</sup> surface-treated (phosphated)

 Goat's foot blade "C", 20°/30°, R 1/1.5/3 mm clearance 45 mm, foot width 85 mm

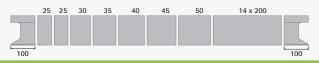


No. 1 - L = 1 x (25/25/30/35/40/45/50) = 250 mm No. 2 - L = 200 mm (number according to work. length) from H = 300 mm, L = 100 mm No. 3 - L = 2 x 100 = 200 mm (corner parts) Height 120/170/200/250/300 or 400 mm additional pair of hinged corner parts 2 x 110 mm

Example segmentation of folding blades at a working length of 3,240 mm – other working lengths are each filled with 200 segments



Example segmentation of goat's foot blades at a working length of 3,240 mm – other working lengths are filled with segments of 100 and 200 respectively



Clamping beam tools WZS 2500 hydraulic clamping, ca. 1100 N/mm<sup>2</sup> surface-treated (phosphated), hardened (inductive)

Sharp nose blade "SA" 45° geteilt, R8 - R12
 No. 1 - L = 1 x 200 mm,
 No. 2 - L = 4 x 500 mm
 No. 3 - L = 2 x 520 mm

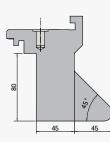


170/250

 Goat's foot blade "C" 30°, R 3,0 clearance 45 mm, foot width 85 mm

No. 1 - L = 25/25/30/35/40/45/50 = 250 mm, No. 2 - L = 14 x 200 mm No. 3 - L = 2 x 100 = 200 mm (corner parts)  Goat's foot blade segmented without corner part 45°, R8 - R12 (please specify with order) clearance 45 mm, foot width 90 mm, h = 80 mm

No. 1 - L = 1x 200 mm No. 2 - L = 4x 500 mm No. 3 - L = 2x 520 mm Total length 3240 mm





### Schröder Group

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

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. 2021 the Schröder Group was expanded by the tool manufacturer SMU GmbH. Overall, the Schröder Group currently employs more than 300 people at various locations at home and abroad.

All information provided as a guide only and subject to change at all times. HSM 250627EN

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