



SHEET METAL WORKING MACHINES

Industrial sector

Sheet metal folders for the industrial sector

MAK 4 Evolution UD EVO Center SPB Evolution UD













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/mm²)	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	
- Character	6.00	MAK 4 Evolution UD / PBI UD		
185	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





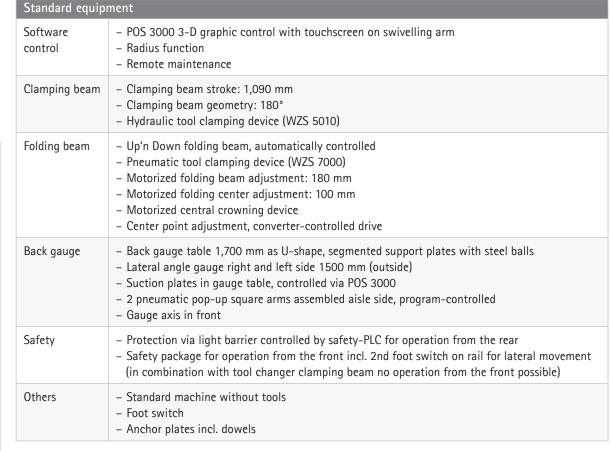
Table

- 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







Special equipme	pecial equipment		
Clamping beam	 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 incl. safety fence with lateral access door incl. air conditioner on both switch cabinets Central lubrication, program-controlled via POS 3000 		
Folding beam	 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 		
Back gauge	 Side table left or right, sheet support table closed with ball rollers (graphic p.7) 2 storage tables for manual unloading, can be lowered mechanically, sheet support table with ball rollers (graphic p.7) 2x table flap to close the gap between the stop and side table (graphic p.7) Pneumatically lowerable gauge fingers (2 sectors 850/1700 mm) Back gauge extension right and/or left with pneumatically lowerable gauge fingers (balls in table), combinable with side table 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) Gripper gauge (p. 6) 		
Safety	 Additional equipment for 2-man-operation control in accordance with accident prevention rules required 		
Others	 External programming (PC-Version) Voltage transformer 52 kVA Air conditioner on both switch cabinets 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 6.0	4,000 x 5.0
Smallest 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 sheet) 6 x 1,500 x 4,000 mm
Max. weight of hte product to be handled	236 kg	
Stroke of rotary plate	100 mm	

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
Sheet thickness (400 N/mm²)	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-3400	5,310 mm	-	-
U-4250	-	6,160 mm	-
U-5100	-	-	7,010 mm
Weight without back gauge	ca. 22,000 kg	ca. 23,500 kg	ca. 26,000 kg
Clamping beam			
Geometry	180°	180°	180°
Stroke	1090 mm		
Drive power	2 x 9.45 kW 2 x 9.45 kW		2 x 9.45 kW
Speed	100 mm/sec 100 mm/sec		100 mm/sec
Folding beam			
Adjustment, motorized		180 mm	
Drive power 2 x 9.42 kW		2 x 9.42 kW	2 x 9.42 kW
Speed	150°/sec	150°/sec	150°/sec
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.



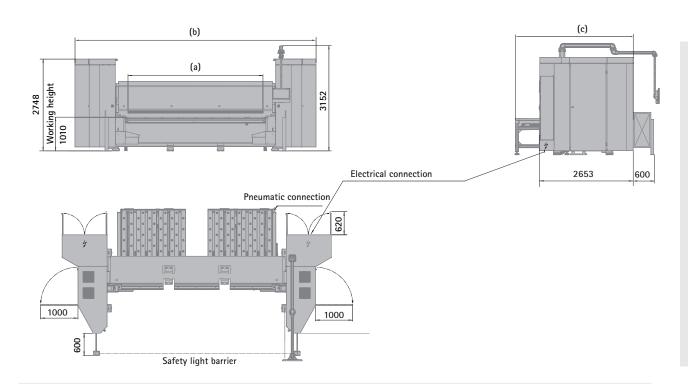
Fast and safe setup with POS 3000

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.

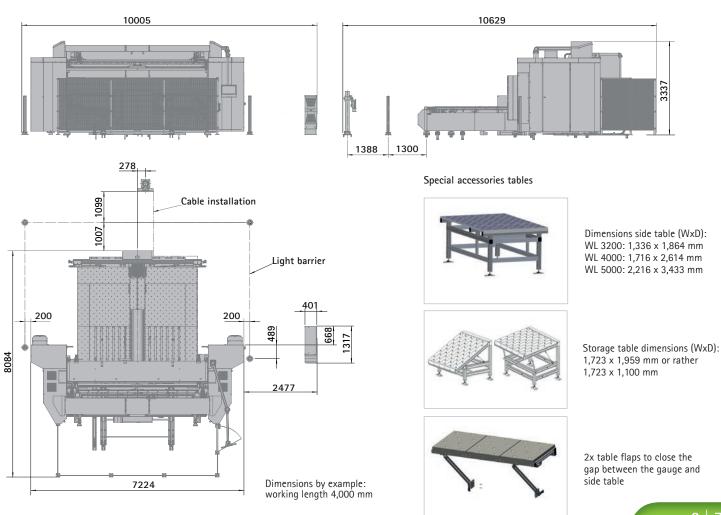


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Automatic setup programming and control of the tool changer
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and 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 customerspecific 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.

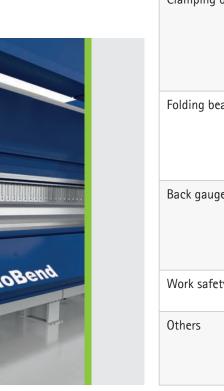
The machine can also be used by large contract manufacturing companies. It can be purchased in the working lengths 4,040 mm for sheets up to 4 mm thickness or 3,200 mm for sheets up to 5 mm thickness.

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

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

Negative bend



Positive hen



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/mm²)	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		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

Top folding beam

EVO DuoBend

Bottom folding beam

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.



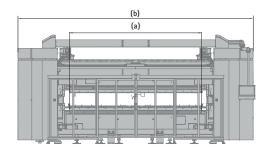
Fast and safe setup with POS 3000

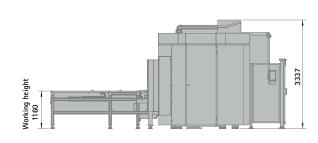
The EVO DuoBend is equipped with a fully automatic tool changer on the clamping beam, which can be set up with up to 500 mm high tools. Two rotary units, each moved by high-precision linear drives, use a gripper unit to remove tools from the magazine and position them in the tool clamping device or remove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

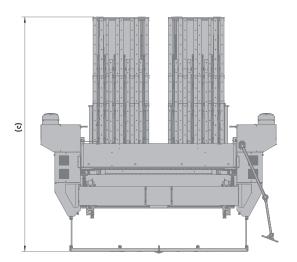


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Automatic setup programming and control of the tool changer
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and 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: 1,336 x 1,864 mm WL 4000: 1,716 x 2,614 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

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

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Special equipme	Special equipment		
Back gauge	 Side table left or right, support table closed with ball rollers. Technical data (p. 15) 2 storage tables for manual unloading, can be lowered mechanically, sheet support table with ball rollers (graphic p. 15) 2x table flap to close the gap between the stop and side table (graphic p. 15) Pneumatically lowerable gauge fingers (2 sectors 850/1700 mm) Various back gauge extensions right and/or left with pneumatically lowerable gauge fingers (balls in table), combinable with side table 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) Gripper gauge (p. 14) 		
Folding beam	 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 		
Others	Voltage transformer 18 kVATool 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	236 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/mm²)	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	80	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.



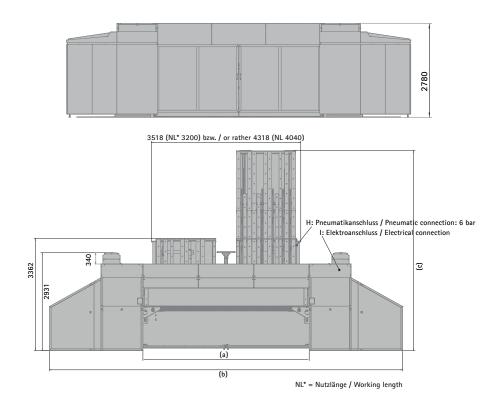
Fully automatic folding beam tool changer

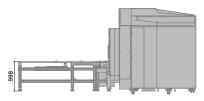
An automatic tool changer for folding beam tools is available as an option. The tools are clamped pneumatically.



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

Dimensions: EVO Center





Special accessories gauge extensions

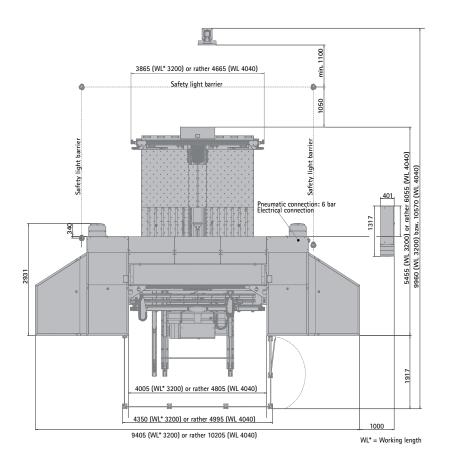
Back gauge extensions right and/or left with pneumatic lowering (balls in the support table), can be combined with side table:

Extension left 3,400 4 x 850 mm Extension left 4,250 5 x 850 mm Extension right 3,400 4 x 850 mm Extension right 4,250 5 x 850 mm



Standard: Sheet support table 1,700 mm in U-shape

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



Special accessories tables



Dimensions side table (WxD): WL 3200: 1,336 x 1,864 mm WL 4000: 1,716 x 2,614 mm



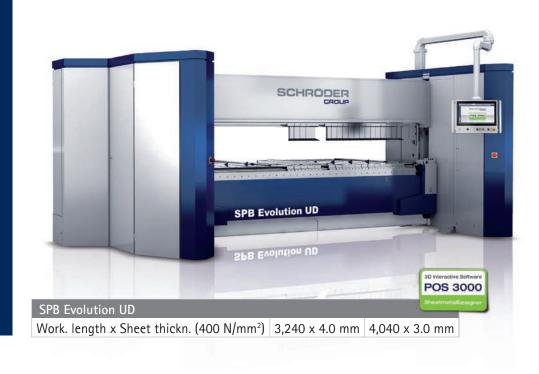
Storage table dimensions (WxD): $1,723 \times 1,959$ mm or rather $1,723 \times 1,100$



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.



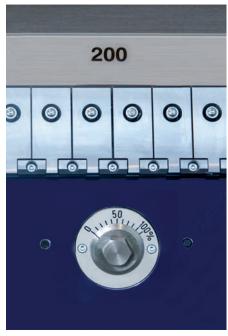


Standard equipment		
Software control	 POS 3000 3-D graphic control with touchscreen on swivelling arm Radius function Remote maintenance 	
Clamping beam	 Clamping beam stroke: 650 mm Rotating clamping beam as automatic tool changing system incl. hydraulic tool clamping device (WZS 2000) 	
Folding beam	 Up'n Down folding beam, automatically controlled Pneumatic tool clamping device (WZS 7000) Folding beam adjustment, motorized: 200 mm Folding center adjustment, motorized: 80 mm Motorized central crowning device Center point adjustment, converter-controlled drive 	
Back gauge	 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. Angle gauge 1,500 mm left and right side. 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 	
Safety	 Protection via light barrier controlled by safety-PLC for operation from the rear Safety package for operation from the front, incl. 2nd foot switch on rail for lateral movement 	
Others	Standard machine without toolsFoot switchAnchor plates incl. dowels	

Special equipment	Special equipment		
Software control	External programming (PC-Version)Unfold software "SCHRÖDER Unfold" (POS 3000 PC Version required)		
Safety	 Additional equipment for 2-man-operation control in accordance with accident prevention rules required 		
Others	Voltage transformer 18 kVAAir conditioner on both switch cabinetsTool options see p. 28-29		



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/mm²)	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	



Motorized crowning system





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.



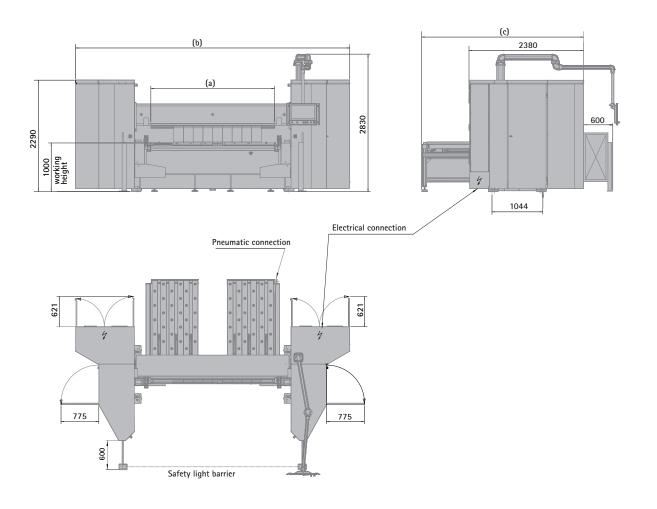
Visualized quality with the POS 3000 3D graphic control

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



Standard equipment	Standard equipment			
Software control	 Graphic control POS 2000 Professional on swivelling arm PC Version (external programming), 1st licence Radius function Remote maintenance 			
Clamping beam	 Drive: 2 x 3.0 kW (converter controlled, recirculated ball screw) Clamping beam geometry: 180° Clamping beam stroke: 850 mm Axis inclination of clamping beam Hydraulic tool clampling device (WZS 2000) Tool positioning display alongside the clamping beam 			
Folding beam	 Up'n Down folding beam, program-controlled 2 servo drives for continous commuting of the axis Drive: 2 x 5.5 kW (converter-controlled, trapezoidal spindle) Hydraulic tool clampling device (WZS 15100) Motorized folding beam adjusment 170 mm, servo-controlled Motorized folding center adjustment +80/-15 mm Motorized central crowning device 			
Back gauge	- Positioning gauge as U-shape: 20 - 1,600 mm, 2 sectors pneumatically lowerabl sheet support table with balls, recirculated ball screw (+/- 0,1 mm)			
Tools	 Standard machine without clamping beam- and folding beam tools Bottom beam blade, one-piece, 30° with finger grooves, minimal gauge 20 mm, ca. 1100 N/mm² surface-hardened (nitrated) (WZS 16300) 			
Safety	 Light barrier package for operation from the front or rear side 2nd foot switch on rail for lateral movement RFID switch through cabinet door 			
Others	Air conditioner, foot switch, LED Status displayAnchor plates incl. dowels			

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





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 ²	6.0 mm	5.0 mm	
Machine length (b)	5,078 mm	5,878 mm	
Machine height max.	2,610 mm		
Machine width with back gauge (c)			
U-1600	3,328	3 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			
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 Upand–Down–folding beam with folds and counterfolds and without any intervention by the operator.



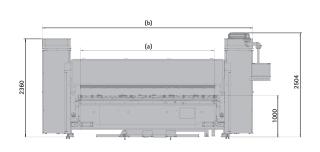
Highlight: Tool positioning display

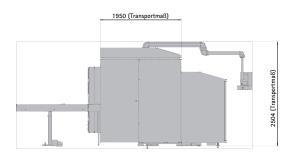
The correct positioning of clamping beam tools is visualized by an integrated LED bar over the total length of the clamping beam. The folding program visualizes the position of the tools by a tool positioning display – extremely practical e.g. if you want to set up two different tool stations on the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

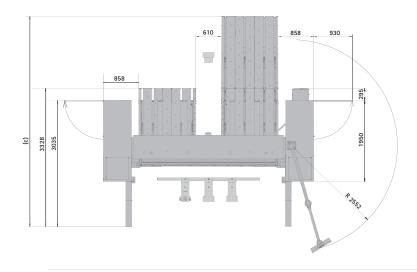


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Cycle time calculator
- PC-Version, CAM connection, ERP/PPS interfaces and DXF converter
- Options: Unfold software "SCHRÖDER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

Dimensions: PowerBend Industrial UD



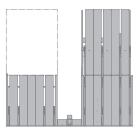


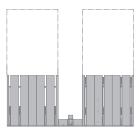


Options for back gauge extensions

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

Special equipment		
Software control	POS 3000 3D Graphic control, DXF-Import and more processor capacityUnfold software "SCHRÖDER Unfold"	
Back gauge	 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 Angle gauge right or left side, adjustable 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) 	
Safety	 Additional equipment for 2-man-operation control in accordance with accident prevention rules required Safety package Plus: Light barrier package in front, RFID switch to secure the side doors 	
Others	Tool cabinet WZS 2500 Cabinet on the left for storage of goat's foot segments Cabinet on the right for storage of sharp nose blade SA 45 segment length 500 and 540 mm as well as 2 shelves 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 Covering of hydraulic unit, Voltage transformer 52 kVA Tool options see p. 30-31	



Rear view	of the	machine	EVO	Heavy	Duty
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EVO Heavy Duty	3,200 x 16.0		
Working length	3,240 mm		
Sheet thickness (400 N/mm²)	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.



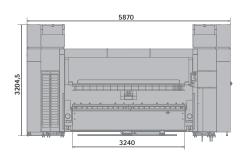
Visualized quality with the POS 3000 3D graphic control

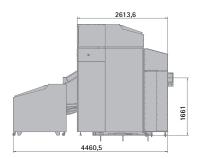
Sophisticated folding shapes can be produced easily thanks to the graphical user interface of the control software and the wide range of tools.

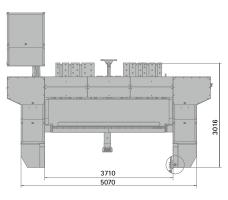


- 3D graphic control with schematic representation of machine, tool and workpiece
- Intuitive, visual touch-screen programming
- 3D bending simulator for visual program control
- Cycle time calculator
- CAM connection, ERP/PPS interfaces and DXF converter
- Options: PC-Version, Unfold software "SCHRÖDER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

Dimensions: EVO Heavy Duty





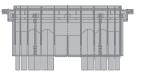


Options for back gauge extensions

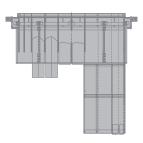
Back gauge extension right and/or left:

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

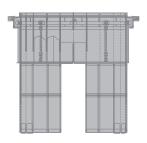
Gripper gauge system MAH21: Gauge table 120 – 2,000 mm reinforced sheet supports with balls movement range 1,880 mm 4 pneumatic grippers fixed screwed



Motorized back gauge MAH 25R



J-shape 3,200/1,600



U-shape 3200

Tool options

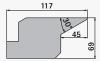
Bottom beam tools

Folding beam tools

MAK 4 Evolution UD and EVO Center

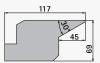
Bottom beam tools WZS 10400 ca. 1100 N/mm² surface-hardened (nitrated)

- Bottom beam blade one-piece, directly screwed
 - without finger grooves (minimum gauge 130 mm)
 - with finger grooves



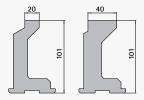
Unterwangenwerkzeuge WZS 10100 ca. 1100 N/mm² surface-hardened (nitrated)

 Bottom beam blade Up and Down - AHS one-piece, directly screwed without finger grooves Minimum gauge 130 mm with free milling for turntable ø330 mm



Folding beam tools WZS 7000 ca. 1100 N/mm² surface-hardened (nitrated)

■ Folding blades segmented $(101/81 \times 65 \text{ mm})$ No. 1 - L = 2 × (25/30/35/40/45/50) = 450 mm No. 2 - L = 200 mm (number according to work. length) Standard folding blade width: 10/15/20/25/30/35/40 or 50 mm



Folding beam tools WZS 7200

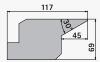
 Additional option automatic tool changer for folding beam tools with pneumatic tool clamping device incl. one folding beam tool set



SPB Evolution UD

Bottom beam tools WZS 10000/10300 ca. 1100 N/mm² 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/mm² surface-hardened (nitrated)

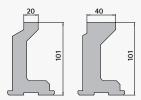
■ Folding blades segmented (101/81 x 65 mm)

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



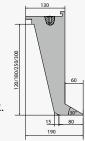
Clamping beam tools

Additional tools

Clamping beam tools WZS 5010 (only for MAK 4 Evolution UD) ca. 1100 N/mm² laser hardened (mangan-phosphated)

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

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



Clamping beam tools WZS 6010 for tool changer ca. 1100 N/mm² surface-hardened (nitrated)

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

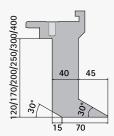


No. 1 - L = $2 \times (30/35/40/45/50/55/60) = 630 \text{ mm}$ No. 2 - L = 80 mm (number according to work. length) Height 330 or 400 mm

- 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 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^{2,} surface-treated (phosphated)

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



No. $1 - L = 1 \times (25/25/30/35/40/45/50) = 250 \text{ mm}$ No. 2 - L = 200 mm (number according to work. length) ab H = 300 mm, L = 100 mm No. $3 - L = 2 \times 100 = 200 \text{ mm}$ (corner parts)

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

Height 120/170/200/250 or 300 mm

Additional pair of hinged corner parts 2x 110 mm

Tool options

Bottom beam tools

Folding beam tools

EVO DuoBend

Bottom beam tools WZS 10500 ca. 1100 N/mm² surface-hardened (nitrated)

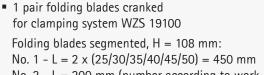
- Bottom beam blade one-piece directly scerwed, 30°, clearance 70 mm
 - without finger grooves (Min. gauge 130 mm)
 - with finger grooves



Folding beam tools WZS 19000 ca. 1100 N/mm² surface-hardened (nitrated)

■ 1 pair folding blades cranked one-piece, directly screwed, H = 108 mm Biegeschienenbreiten: 15/20/30/35 mm

Folding beam tools WZS 19100 ca. 1100 N/mm² surface-hardened (nitrated)

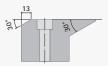


No. 2 - L = 200 mm (number according to work. length) Folding blade width: 10/20/30/35 mm

PowerBend Industrial UD

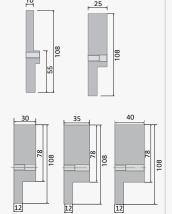
Bottom beam tools WZS 16300 ca. 1100 N/mm² surface-hardened (nitrated)

 Bottom beam blade one-piece 30° with finger grooves, minimum gauge 20 mm (included in standard)



Folding beam tools WZS 15100 hydraulic clamping, ca. 1 100 N/mm² surface-treated (phosphated)

 Folding blades segmented 10/15/20/25 mm, 108 mm high



Folding beam tools WZS 15200 hydraulic clamping, ca. 1 100 N/mm² surface-treated (phosphated)

■ Folding blades segmented 30/35/40 mm, 108 mm high

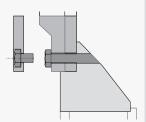
EVO Heavy Duty

Bottom beam tools WZS 17000 ca. 1100 N/mm² hardened (nitrated)

 Bottom beam blade one-piece without finger grooves (minimum gauge 120 mm) or with finger grooves (minimum gauge 30 mm)

Folding beam tools WZS 18000 ca. 1100 N/mm², inductive hardened, phosphated

 Folding blades 2-piece width = 18 mm, height = 110 mm reinforced folding blades 2-piece width = 112 mm, height = 110 mm



Clamping beam tools

Additional tools

Clamping beam tools WZS 6500 ca. 1100 N/mm² 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

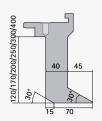
No. 2 - L = 80 mm (number according to work. length)

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 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/mm² surface-treated (phosphated)

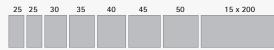
 Goat's foot blade "C", 20°/30°, R 1/1.5/3 mm clearance 45 mm, foot width 85 mm



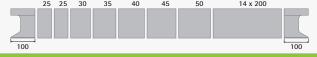
No. 1 - L = 1 x (25/25/30/35/40/45/50) = 250 mm No. 2 - L = 200 mm (number according to work. length) from H = 300 mm, L = 100 mm

No. 3 - L = $2 \times 100 = 200 \text{ mm}$ (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/mm² surface-treated (phosphated), hardened (inductive)

Sharp nose blade "SA" 45° geteilt, R8 - R12

No. $1 - L = 1 \times 200 \text{ mm}$,

No. $2 - L = 4 \times 500 \text{ mm}$

No. $3 - L = 2 \times 520 \text{ mm}$



 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. $2 - L = 14 \times 200 \text{ mm}$

No. $3 - L = 2 \times 100 = 200 \text{ mm (corner parts)}$



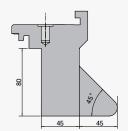
 Goat's foot blade segmented without corner part 45°, R8 - R12 (please specify with order) clearance 45 mm, foot width 90 mm, h = 80 mm

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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