



SWIVEL FOLDING MACHINE MultiPowerBend MPB and MPB UD

MultiPowerBend MPB and MPB UD

The MPB and the MPB UD are our allrounders for thin metal processing. Their characteristics: simple and quick handling, high production output and rich equipment.





The MPB Series brings in the functional perfection of swivel folding machines to thin sheet metal processing. Precision, performance and velocity of these machines lead to a decrease of costs per unit in mass production. At the same time equipment options and the powerful software ensure complete freedom in the production of prototypes, single orders and small series.

MPB UD: Up-and-Down-technique for more efficiency

The option to bend up and down facilitates the handling of large and heavy sheets as they do not need to be turned over manually. The machine is

able to execute more processing steps in shorter times. This is perfect for mass production of large-scale roof- and facade elements.

Shortened set-up times: the rotating clamping beam

Changing jobs or complex tasks with different folding beam tools – equipped with a rotating clamping beam the MPB offers a second set of tools at any time. Moreover, the rotating clamping beam has the advantage of a changeable clamping beam geometry. This offers you additional clearance for bulky workpieces.

Standard equipment

МРВ	MPB UD			
Graphic control POS 2000 Professional with touchscreen mounted on swivel arm				
Servo-converter controlled drives for folding beam, clamping beam and back gauge				
CNC-positioning gauge/back gauge: 10-1,000 mm with sheet support table and gauge fingers	CNC-positioning gauge/back gauge in U-shape: 10-2,400, 10-3,200 or 10-4,000 mm with up to 5 gauge sectors (810/1,610/2,410/3,220/4,030) incl. pneumatic pop-up gauge fingers, lateral angle gauge and balls in table			
Bottom beam blade: gauge min. 10 mm, 700 N/mm ²	Bottom beam blade: 20 mm, radius 1.5 mm, 45° with finger grooves, 1,100 N/mm ²			
Folding blade: 10 and 25 mm, 700 N/mm ²	Folding blade: 10, 15 or 25 mm, 1,100 N/mm ²			
Clamping beam blade: sharp nose, 30°, radius 1.5 mm, 1,100 N/mm²				
	Up-and-Down-folding beam: automatically controlled			
Folding beam adjustment: manual, 80 mm	Folding beam adjustment: motorized,160 mm, program controlled			
	2-beam light barrier for operation from the rear			
Footswitch	Footswitch on rail for lateral movement and second footswitch for operation from the rear			
Anchor plates incl. dowels				

Optional equipment

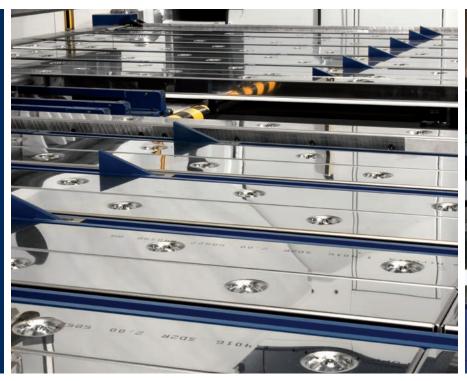
МРВ	MPB UD		
Rotating clamping beam as automatic tool changing system (necessary when using a goat's foot blade)			
Hydraulic tool clamping system			
Crowning system for folding beam			
Folding beam adjustment: motorized, 80 mm, program controlled			
Front gauge system for folding beam with electronic readout			
Additional equipment for 2-man-operation			
Footswitch on rail for lateral movement			



With a rotating clamping beam the MPB keeps a second set of tools in readiness.

Folding on the fast track

The MPB and the MPB UD are swivel folding machines which have the capacity to produce extreme quickly and efficiently. This reduces processing times and costs per unit.





Suited to your standard sheet formats we offer different gauge systems with pneumatic pop-up gauge fingers and ball rollers for an easy and smooth movement of the work piece.

For the fine tuning: crowning system

The eccentric clamping beam drive is known for a quick and exact clamping of sheets. Two dynamic, powerful drive motors swivel the folding beam on both sides – precisely and torsion-free.

In addition, a smooth adjustment of the folding beam minimizes processing times. With the variation MPB UD, in many processing steps, it is even no longer necessary to turn around large sheets manually – this is not only comfortable, but also much more efficient.

Little details, huge effect

The precision of folding starts with an exact positioning of the work piece. With the MPB, this is possible using the lateral angle gauge, pneumatic pop-up gauge fingers and the front gauge system of the folding beam. A rotating clamping beam offers an alternative machine geometry with other clearances. In addition, removable pans make room for downflange applications.

Gauge options for optimal handling

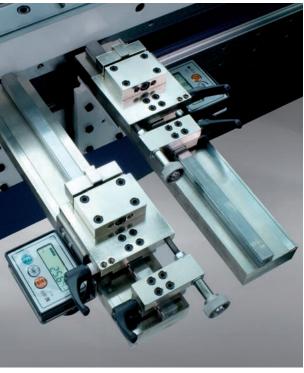
The workpieces that are produced by the MPB are quite different – so are the sheet formats. We supply you with gauge and table options that are suited to your folding requirements.



Side gauge: The precision of forming starts with an exact positioning of the workpiece. Standard with U- and J-gauge.



The removable pans make room for down-flange applications.



Often the much easier solution: front gauge for folding beam with sheet supports sliding on linear guide

The feeding of the metal sheet is ergonomically designed for the employee and does not harm the product material. The MPB offers a variety of application opportunities and our customers are working with all kinds of metal sheet formats. This is why we offer a multitude of gauge options. The 1,000 mm gauge forms the basis. Based on this, we offer 1,500 mm-, 2,000 mm- as well as gauges in U- and J-shapes in many different variations.

Back gauges longer than 2,000 mm in width are working with several gauge finger rows (sectors) in order to have the gauge fingers available very guickly in every area and to minimize travel times. The piece is guided on the sheet support table, optionally equipped with brushes or ball casters.

Front gauge folding beam

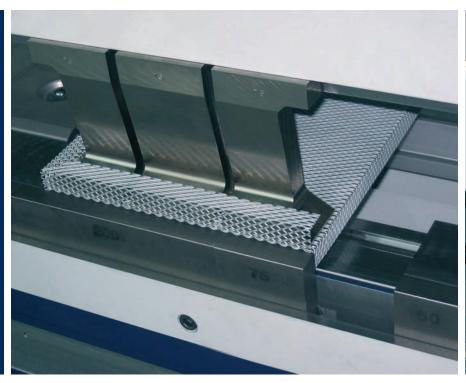
Linear guide incl. 2 sheet supports, gauge range up to 300 mm with digital readout

Special accessory back gauge (only with MPB)

- POS 2000 Professional with gauge 10-1,500 mm
- POS 2000 Professional with gauge 10-1,500 mm with 2. gauge sector incl. pneumatic lowering
- POS 2000 Professional with gauge 10-2,000 mm with 2. gauge sector incl. pneumatic lowering
- Sheet support table with brushes or ball casters

Tools

For every task a suitable tool – with high quality segmented tools from Schröder your are able to fold exactly and to bend radii with utmost precision.





Segmented tools – on request also for individual solutions.

With one single keystroke the hydraulic clamping beam opens up for a quick and precise tool change.

When folding, the right tool is important – with the MPB we have a lot of possibilities. For every bending there is a suitable clamping beam tool, however, if you need a special geometry for your specific requirements – please let us know. We will work out a customer-specific solution for you.

The rotating clamping beam as an option enables the usage of goat's foot tools.

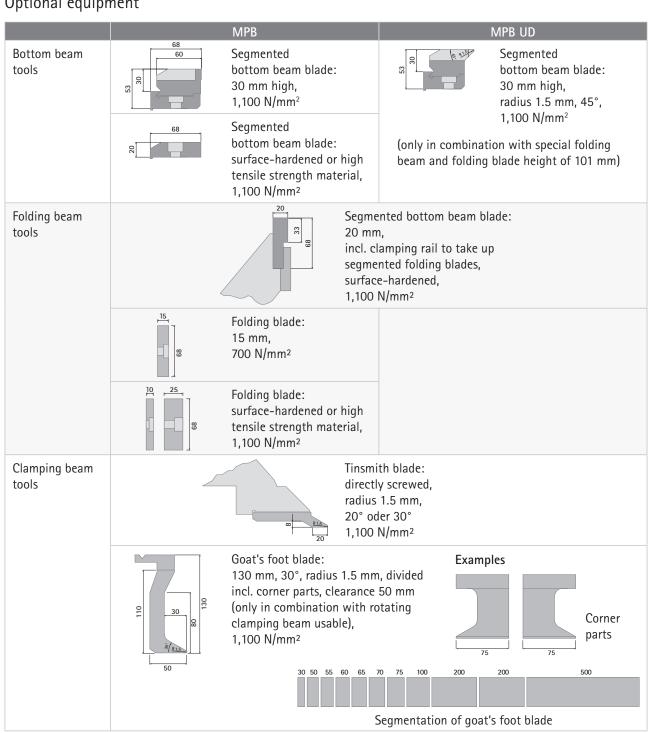


Always tidy: Use our practical tool cart for blades, rails, and segmented tools as optional equipment.

Standard equipment

		MPB	MPB UD	
Bottom beam tools	68	One-piece rail, gauge min. 10 mm, 700 N/mm ²	68 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	One-piece rail, radius 1.5 mm, 45° with finger grooves, 1,100 N/mm ²
Folding beam tools	10, 25	Folding blades: 10 und 25 mm, 700 N/mm²	10 15 25	Folding blades: 10, 15 oder 25 mm, 1,100 N/mm²
Clamping beam tools	21	30° - 8	nose 30°, idings of max. 150°, N/mm²	

Optional equipment



POS 2000 Professional – intelligent graphic control for efficient processing





The lowerable folding beam is necessary to bend bigger radii with high precision. As an option, a motorized folding beam adjustment is available, controlled by the graphic control POS 2000 Professional.

Graphic control POS 2000 Professional: The result is always in front of your eyes – from the first steps to simulation.

The swivel folding machines MPB and MPB UD also owe their high speed and efficiency to their control that can be operated easily on a touch display mounted on a swivel arm. The POS 2000 Professional used for this machines is very well known in the industry – proven and well-developed.





Thanks to the graphical interphase of our software control and the multiplicity of tools it is also possible to produce sophisticated bending shapes without any difficulties

The POS 2000 Professional is able to visualize every processing step - this can be done through a schematic representation of the swivel folding machine, workpieces and tools. Even before the first metal sheet is placed on the machine, a folding simulation can be conducted in order to test the folding program. What makes our software control so unique and user-friendly for the operator: Every necessary action of the user such as turning over the sheet, is shown per every single folding step.

In short: Whether programming, simulation, tests or mass production is needed, your employees will be ideally supported by the POS 2000 Professional control.



POS 2000 Professional

- Windows 7 operating system
- Extensive profile catalog, unlimited expansion possible
- Automatic cut calculation
- Material and tool library
- True-to-size bending simulation
- Zoom function
- Speed of the CNC-axis may be adjusted without

Options

- Pressing- and Radius-Step-Bending-Function (additional crowning system recommended)
- Pneumatic pop-up finger
- External programming (POS 2000 Professional PC-Version)
- Remote maintenance

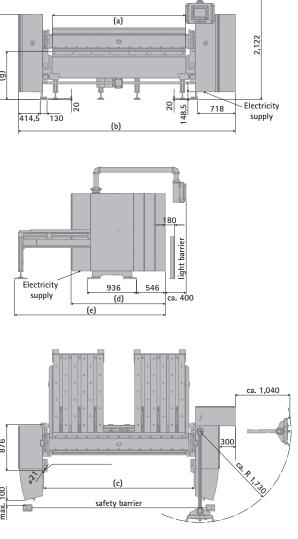
Dimensions and technical data MPB und MPB UD



MultiPowerBend	2,500 x 2.5	3,200 x 2.0	4,000 x 1.75		
Working length (a)	2,520 mm	3,220 mm	4,020 mm		
Sheet thickness (400 N/mm²)	2.5 mm	2.0 mm	1.75 mm		
Machine length (b)	4,120 mm	4,820 mm	5,620 mm		
Length of working area (c)	2,854 mm	3,554 mm	4,354 mm		
Machine width (d)	1,590 mm	1,590 mm	1,590 mm		
Back gauge, width 1,000 mm (e)	2,450 mm	2,450 mm	2,450 mm		
Machine height (f)	1,619 mm	1,619 mm	1,619 mm		
Working height (g)	917.5 mm	917.5 mm	917.5 mm		
Weight	3,570 kg	4,025 kg	4,730 kg		
Clamping beam					
Stroke	160 mm	160 mm	160 mm		
Drive power	1.1 kW	1.1 kW	1.1 kW		
Speed	100 mm/s	100 mm/s	100 mm/s		
Folding beam					
Folding beam adjustment	80 mm	80 mm	80 mm		
Drive power	2 x 2.2 kW	2 x 2.2 kW	2 x 2.2 kW		
Speed	105°/s	105°/s	105°/s		
Back gauge					
Speed	300 mm/s	300 mm/s	300 mm/s		

MultiPowerBend UD	2,500 x 2.5	3,200 x 2.0	4,000 x 1.75	
Working length (a)	2,520 mm	3,220 mm	4,020 mm	
Sheet thickness (400 N/mm²)	2.5 mm	2.0 mm	1.75 mm	
Machine length (b)	4,120 mm	4,820 mm	5,620 mm	
Length of working area (c)	2,854 mm	3,554 mm	4,354 mm	
Machine width (d)	1,790 mm	1,790 mm	1,790 mm	
Back gauge, width, U-Shape (e)	3,760 mm	4,460 mm	5,310 mm	
Machine height (f)	1,619 mm	1,619 mm	1,619 mm	
Working height (g)	917.5 mm	917.5 mm	917.5 mm	
Weight	3,950 kg	4,640 kg	5,170 kg	
Clamping beam				
Stroke	160 mm	160 mm	160 mm	
Drive power	1.1 kW	1.1 kW	1.1 kW	
Speed	100 mm/s	100 mm/s	100 mm/s	
Folding beam				
Folding beam adjustment	160 mm	160 mm	160 mm	
Drive power	2 x 2.2 kW	2 x 2.2 kW	2 x 2.2 kW	
Speed	105°/s	105°/s	105°/s	

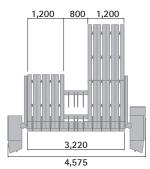
Dimensions: MultiPowerBend (a) Ξ 9 Electricity 130 supply 414.5 Electricity supply ca. 600 (d) ca. 1,040



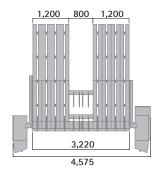
Dimensions: MultiPowerBend UD

All dimensions in mm

Special accessory extensions



J-Shape 3,200/1,600, 4 x 800 mm J-Shape 4,000/1,600, 5 x 800 mm



U-Shape 2,400, 3 x 800 mm U-Shape 3,200, 4 x 800 mm

U-Shape 4,000, 5 x 800 mm

Standard colour: RAL 7035 light grey, RAL 5003 Sapphire blue. Special painting at an extra charge



Schröder Group

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

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

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

All information provided as a guide only and subject to change at all times. 14-1832-HSM 140206ENv01

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