



FOLDING MACHINE  
**MultiPowerBend MPB**

# MultiPowerBend MPB

Die MPB ist unser Allrounder für die Dünnsblechbearbeitung.  
Ihr Kennzeichen: einfach und schnell in der Handhabung, hohe  
Produktionsleistung und reichhaltige Ausstattung.



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.

## 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.



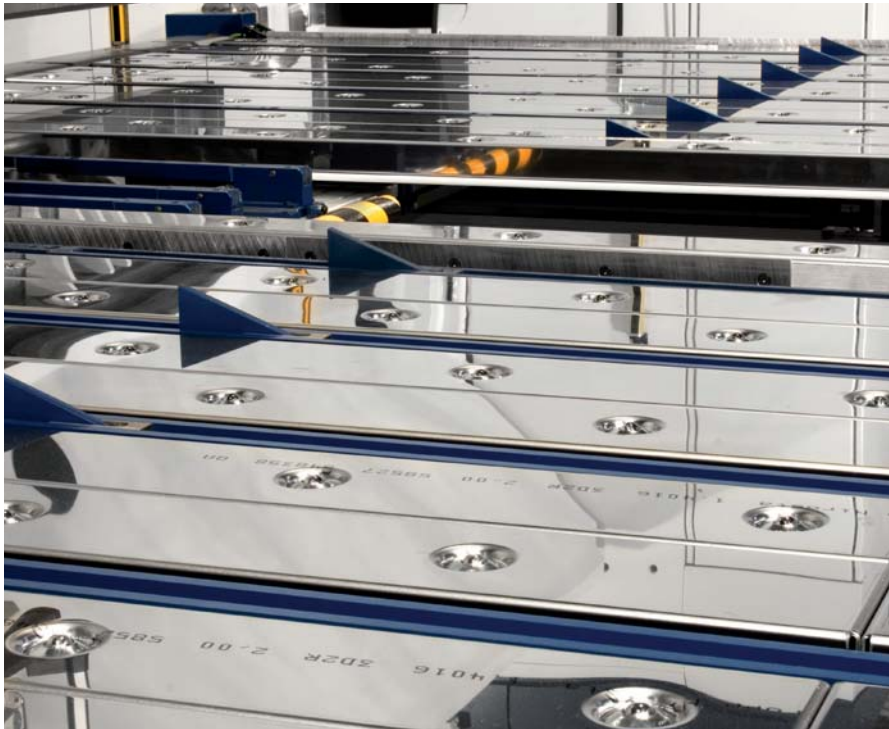
With a rotating clamping beam the MPB keeps a second set of tools in readiness.

Standard equipment	
Software control	- Grafic control POS 2000 Professional with touchscreen control mounted on swivel arm
Drives	- Servo-converter controlled drives for folding beam, clamping beam and back gauge
Back gauge system	- <b>CNC-positioning gauge/back gauge:</b> 10 - 1,000 mm with sheet support table and gauge fingers
Clamping beam	- Tinsmith blade, 30°, R 1.5 mm, directly screwed, 1 100 N/mm <sup>2</sup>
Folding beam	- <b>Folding blade:</b> 10 and 25 mm, 700 N/mm <sup>2</sup> - <b>Folding beam adjustment:</b> manual, 80 mm
Bottom beam	- <b>Bottom beam blade, one-piece:</b> gauge min. 10 mm, 700 N/mm <sup>2</sup>
Others	- Foot switch - Anchor plates incl. dowels

Special equipment	
Clamping beam	- Rotating clamping beam for two tool stations (required for use of goat's foot blade) - Hydraulic tool clamping device
Folding beam	- Crowning device for folding beam (System Schröder) - Folding beam adjustment: motorized, 80 mm
Back gauge system	- Sheet support table with balls 10 - 1,000 mm or 10 - 1,500 mm - POS 2000 Professional with gauge 10 - 1,500 mm and 2. gauge sector incl. pneumatic lowering device - U-gauge 10 - 1,600 mm with 2 gauge sectors (2 x 800 mm) incl. pneumatic lowering device and balls in support table  Back gauge extension to J- or U-gauge. Base: gauge 10 - 1,000 mm - J-shape: 1,600/3,200 oder 1,600/4,000 - U-shape: 2,400 mm, 3,200 mm or 4,000 mm  - 2 pneumatic pop-up square arms assembled aisle side, program-controlled
Safety and Others	- Additional equipment for 2-man-operation control - 2nd foot switch for operation from the rear - Foot switch on rail for lateral movement - 2-beam light barrier protection to the front at operation from the rear - Tool cart for blades and segmented tools - Tools please see page 7 - Software control please see page 8-9

# Folding on the fast track

The MPB is a folding machine which has 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.

## 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 and pneumatic pop-up gauge fingers. 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.

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- as well as gauges in U- and J-shapes in many different variations.

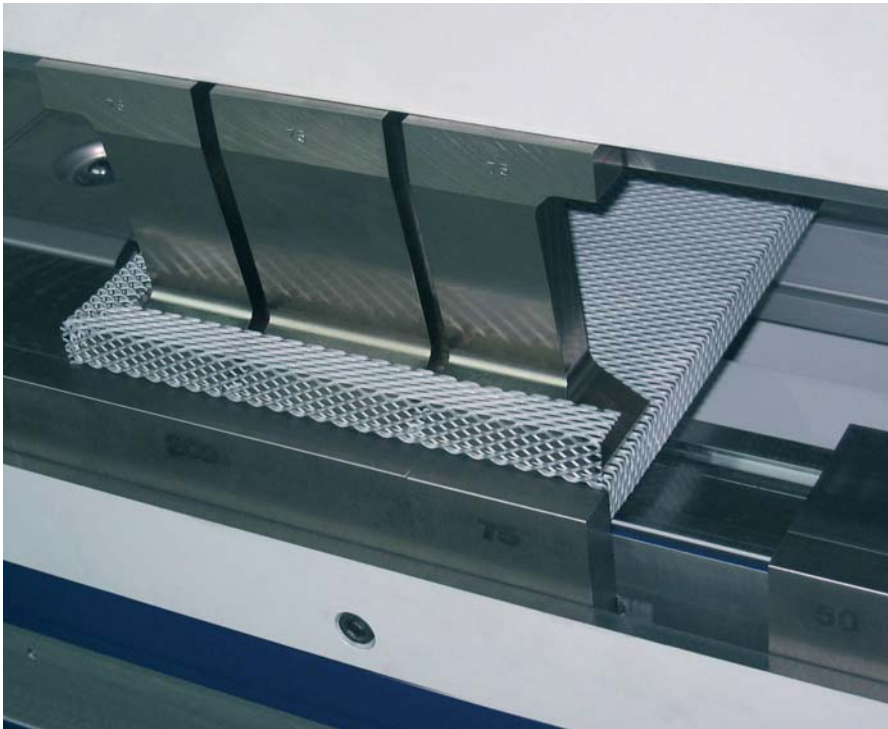
Back gauges longer than 2,000 mm in width are working with several gauge finger rows (sectors) in order to have the gauge fingers available very quickly in every area and to minimize travel times. The piece is guided on the sheet support table, optionally equipped with ball casters.

## Front gauge folding beam

- Sheet support table with balls 10 - 1 000 mm or rather 10 - 1,500 mm
- POS 2000 Professional with gauge 10-1,500 mm with 2 gauge sectors incl. pneumatic lowering
- U-gauge 10 - 1,600 mm with 2 gauge sectors (2x 800 mm) incl. pneumatic lowering device and balls in support table
- 2 pneumatic pop-up square arms assembled aisle side, program-controlled

# 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.



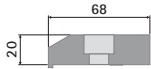
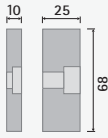
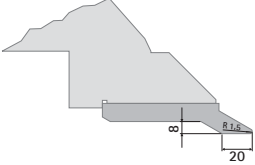
With one single keystroke the hydraulic clamping beam opens up for a quick and precise tool change.

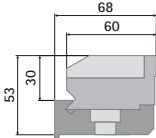
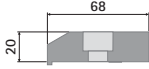
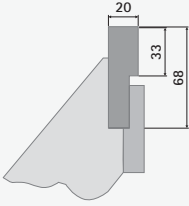
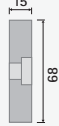
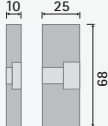
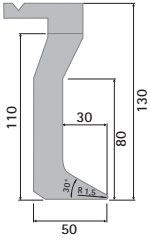

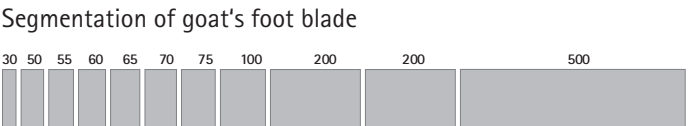
When folding, the right tool is important – with the MPB we have a lot of possibilities. For every bending there is a suitable clamping beam tool, however, if you need a special geometry for your specific requirements – please let us know. We will work out a customer-specific solution for you.

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		
Bottom beam tools		Bottom beam blade, one-piece, gauge min. 10 mm, 700 N/mm <sup>2</sup>
Folding beam tools		Folding blades 10 and 25 mm, 700 N/mm <sup>2</sup>
Clamping beam tools		Tinsmith blade 30°, R 1.5, directly screwed 1 100 N/mm <sup>2</sup>

Special equipment						
Bottom beam tools		Bottom beam blade, segmented clearance 30 mm, 1 100 N/mm <sup>2</sup>		Bottom beam blade, one-piece, gauge min. 10 mm, 1 100 N/mm <sup>2</sup>		
Folding beam tools		Bottom beam blade, segmented, 20 mm, standard segmentation, incl. clamping rail for segmented blades, hardened 1 100 N/mm <sup>2</sup> (not in combination with crowning device)		Folding blade 15 mm, 700 N/mm <sup>2</sup>		Folding blades 10 and 25 mm, 1 100 N/mm <sup>2</sup>
Clamping beam tools		Goat's foot blade 130 mm, 30°, R 1.5, clearance 30 mm, foot width 50 mm, segmented incl. corner parts, 1 100 N/mm <sup>2</sup> (only in combination with rotating clamping beam)		Corner parts		Segmentation of goat's foot blade

# POS 2000 Professional – intelligent graphic control for efficient processing

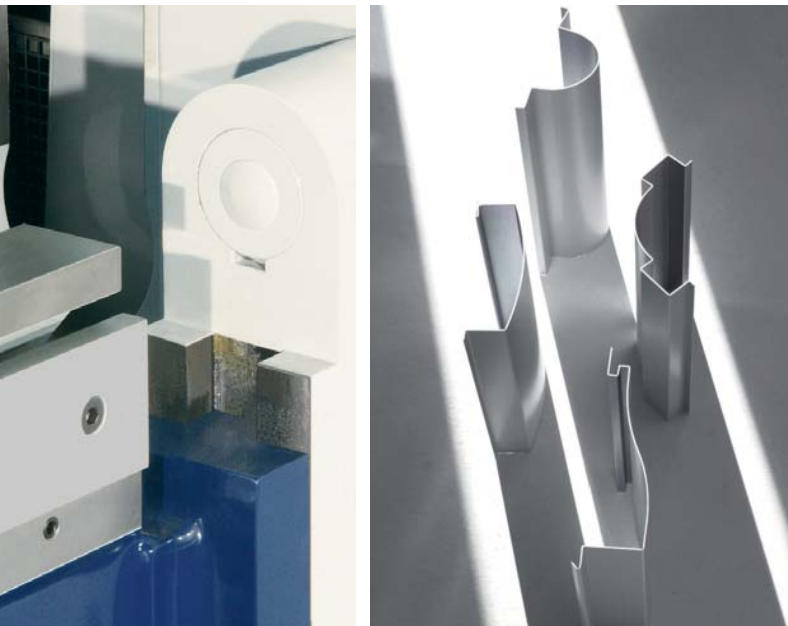


The lowerable folding beam is necessary to bend bigger radii with high precision. As an option, a motorized folding beam adjustment is available, controlled by the graphic control POS 2000 Professional.

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

The folding machine MPB owes its high speed and efficiency to its 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 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 cutting calculation
- Material and tool library
- True-to-size bending simulation
- Zoom function
- Speed of the CNC-axis adjustable

## Options

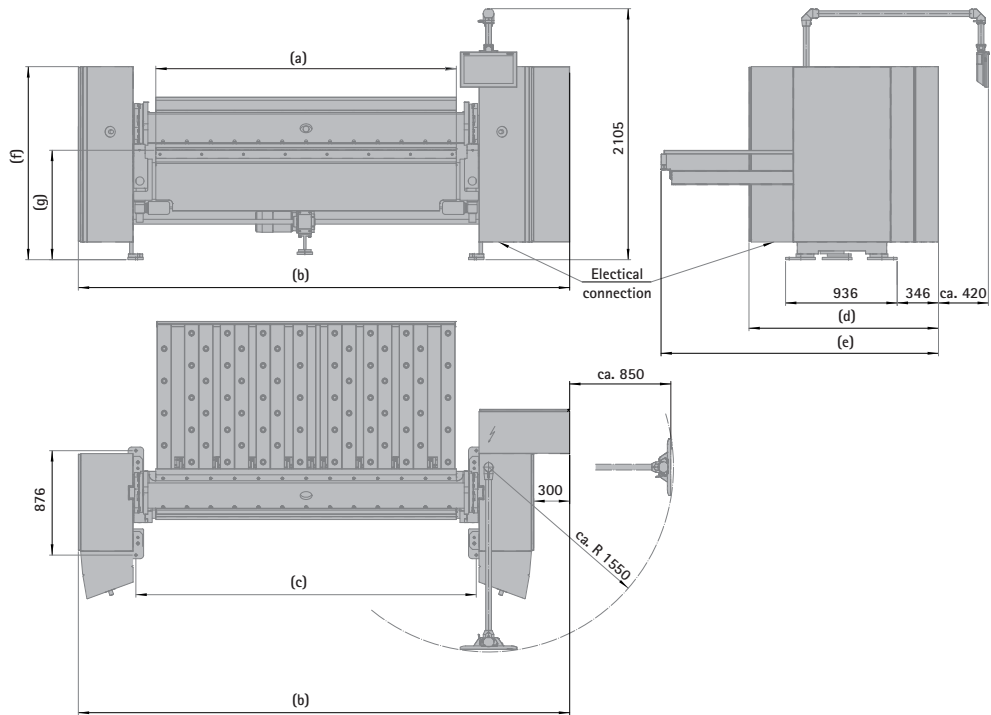
- Radius-Step-Bending-Function (additional crowning system recommended)
- External programming (PC-Version)
- Remote maintenance

# Dimensions and technical data

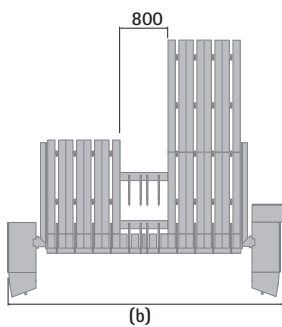


MultiPowerBend	2 500 x 2,5	3 200 x 2,0	4 000 x 1,75
Working length (a)	2,520 mm	3,220 mm	4,020 mm
Sheet thickness (400 N/mm <sup>2</sup> )	2.5 mm	2.0 mm	1.75 mm
Machine length (b)	4,120 mm	4,820 mm	5,620 mm
Length of working area (c)	2,554 mm	3,554 mm	4,354 mm
Machine width (d)	1,590 mm		
Back gauge width 1,000 mm (e)	2,450 mm		
Back gauge width 1,500 mm (e)	2,950 mm		
Machine height (f)	1,619 mm		
Working height (g)	918 mm		
Weight	3,930 kg	4,390 kg	4,950 kg
<b>Clamping beam</b>			
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
<b>Folding beam</b>			
Folding beam adjustment, motor.	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
<b>Positioning gauge</b>			
Speed	300 mm/s	300 mm/s	300 mm/s

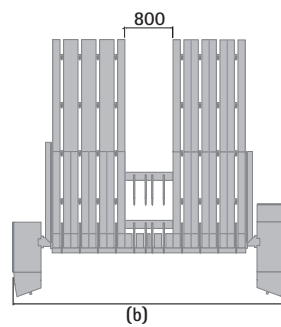
## Dimensions: MultiPowerBend



## 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

All dimensions in mm



## Schröder Group

Die Schröder Group besteht aus der Hans Schröder Maschinenbau GmbH mit Sitz in Wessobrunn und der SCHRÖDER-FASTI Technologie GmbH mit Sitz in Wermelskirchen.

1949 gegründet, vereint die Hans Schröder Maschinenbau GmbH Tradition und Moderne im Maschinenbau: Als qualitäts- und kundenorientiertes Familienunternehmen erfolgreich geführt, hat sich Hans Schröder Maschinenbau auf die Entwicklung moderner Maschinenkonzepte für das Biegen und Schneiden von Blechen spezialisiert.

Durch die 2006 erfolgte Integration der Fasti-Werke und mit weltweiter Präsenz ist die Schröder Group heute einer der führenden Anbieter für Maschinen zum Schwenkbiegen, Schneiden, Sicken, Bördeln und Rundbiegen von Blechen aller Art. Die Vielfalt der Präzisionsmaschinen reicht von bewährten Lösungen für das Handwerk bis hin zu innovativen Hochleistungsmaschinen für die automatische industrielle Fertigung. Insgesamt beschäftigt die Schröder Group heute mehr als 240 Mitarbeiter an verschiedenen Standorten im In- und Ausland.

Alle Angaben gelten als Richtlinien  
und können jederzeit geändert werden.  
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