

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 3240 mm and effortlessly bends up to 16.0 mm steel. This machine is built for demanding, hard work.



EVO Heavy Duty

Work. length x Sheet thckn. (400 N/mm²) 3,240 x 16.0 mm



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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Clamping beam stroke: 500 mm - Clamping beam geometry: 45° - Hydraulic tool clamping device (WZS 2500)
Folding beam	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Motorized back gauge MAH 25R, working range 30 - 1600 mm, motorized adjustment via ball screws, sheet support table with balls
Safety	<ul style="list-style-type: none"> - Foot switch on rail for lateral movement - Safety enclosure on the left and right of the machine with two shelves each
Others	<ul style="list-style-type: none"> - Motor drive 37 kW - Anchor plates incl. dowels

Special equipment	
Software control	<ul style="list-style-type: none"> - POS 3000 3D Graphic control, DXF-Import and more processor capacity - Unfold software „SCHRÖDER Unfold“
Back gauge	<ul style="list-style-type: none"> - Thanks to its modular system, the motorized back gauge MAH 25R 30-1600 mm can be extended to J- or U-gauge: J-shape 30 - 1600/3200 mm or U-shape 30 - 3200 mm - Angle gauge right or left side, adjustable - Gripper gauge system MAH21, gauge table 120 - 2000 mm, reinforced sheet supports with balls movement range 1880 mm, 4 pneumatic grippers fixed screwed (minimum height clamping beam tool 80 mm)
Safety	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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

Dimensions and technical data

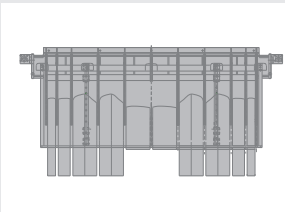


Rear view of the machine EVO Heavy Duty

EVO Heavy Duty	3,200 x 16.0
Working length	3,240 mm
Sheet thickness (400 N/mm ²)	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.



As optional equipment, the Schröder Group offers 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.



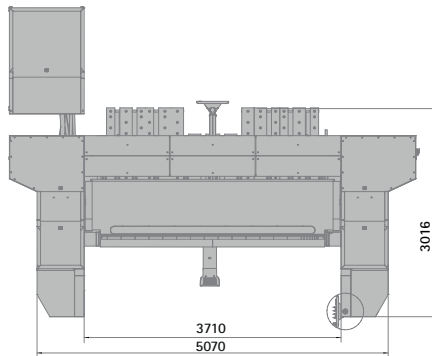
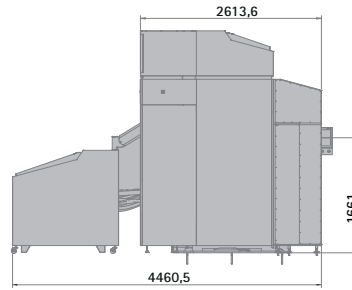
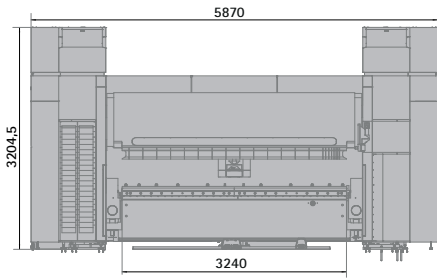
Visualized quality with the POS 3000 3D graphic control

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
- 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: EVO Heavy Duty



Options for back gauge extensions

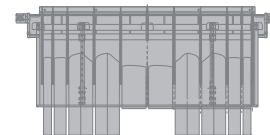
Back gauge extension right and/or left:

J-shape 3 200/1 600

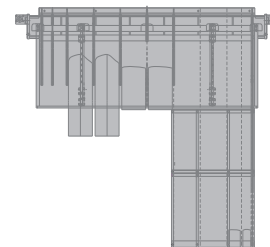
U-shape 3 200

Gripper gauge system MAH21:

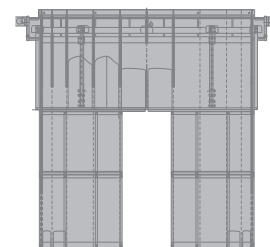
Gauge table 120 - 2000 mm
 reinforced sheet supports with balls
 movement range 1880 mm
 4 pneumatic grippers fixed screwed



Motorized back gauge MAH 25R



J-shape 3200/1600



U-shape 3200