



## GAUGE ONCE, BEND ALL

# Advanced Handling System

- Schröder Advanced Handling System (AHS)
- Innovative rotating plate with suction cups for fully automatic sheet metal handling
- Fully automatic processing of complete bending programs
- Camera system for reviewing the correct alignment of the sheet

# Trade fair premiere with the unique, fully-automatic Advanced Handling System „AHS“

The innovative Schröder Advanced Handling System (AHS) is a further development of the suction gauge and achieves the highest level of automation possible.

We are going to show you our exhibition highlight „AHS“ on the motorized folding machine MAK 4 Evolution UD. The AHS is a further development of the suction gauge and achieves the highest level of automation. Before, this was only possible with the additional use of handling robots. Thanks to the combination of Up-and-Down-folding beam, suction gauge and the advanced handling system the software control POS 3000 enables a fully automatic

procedure of the whole bending program without any manual intervention. The sheet will be gauged once against the referencing axis. The innovative highlight: The plate with suction cups has a rotating function so that the sheet gets turned automatically in order to bend the next side of the sheet. Two camera systems control the process – their photos from the work piece are compared to CAD-data.

MAK 4 Evolution UD with AHS	4,000 x 5.0
Working length	4,040 mm
Sheet thickness 400 N/mm <sup>2</sup>	5.0 mm
Machine length	7,218 mm
Machine depth	7,726.5 mm
Machine height	3,352 mm
Clamping beam	
Geometry	180°
Stroke	1,030 mm
Drive power	2 x 9.45 kW
Speed	100 mm/sec
Folding beam	
Drive power	2 x 9.4 kW
Speed	150°/sec
Folding beam adjustment	180 mm
Folding center adjustment	100 mm
Advanced Handling System (rotating plate)	
Sheet support closed with ball rollers	Flange distance 3400 mm in extended condition 4050 mm
Diameter rotating plate, small	Nominal dimension = ø 150 mm; Actual dimension = ø 158 mm
Diameter rotating plate, big	Nominal dimension = ø 330 mm; Actual dimension = ø 338 mm
Rotating plate stroke	100 mm
Max. weight of product to be manipulated	80 kg
Min. sheet format	250 mm x 300 mm
Max. sheet format	3,700 mm x 1,500 mm
Max. weight that can be processed on the gauge table	300 kg*

## Highlights

- POS 3000 3D graphic control on swivelling arm
- Rotating plate with suction cups incl. two changable plate sizes
- Camera system for measuring the sheet dimension
- Referencing axis for gauging the sheet in manual operation
- Additional operator terminal
- Safety light barriers on the rear side



## Speed at normal load:

X-axis: 400 mm/sec  
XR/XL-axis: 400 mm/sec  
MC-axis: 180 °/sec  
MZ-axis: 35 mm/sec

All information provided as a guide only and may be subject to change at any times.

\* Weight refers to a large sheet format out of S235 with the following dimensions: 6 x 1,500 x 5,00 (283 kg)

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