

NEW
at EuroBlech

SCHRÖDER
GROUP



FULLY AUTOMATED SHEET METAL PROCESSING MAK4 Evolution UD with gantry solution

- Flexible gantry solution for automated folding
- Efficient loading and unloading with vacuum frames
- Increased productivity for small to large batch sizes
- Easy operation without additional robot programming
- Automation with manual flexibility

MAK 4 Evolution UD with a flexible, fully automated gantry solution

The MAK 4 Evolution combines a gantry solution, an integrated AHS, and ease of use into a cost-effective automation system for small to large batch sizes.

With the MAK 4 Evolution UD featuring a gantry solution, Schröder offers a flexible automation solution for the efficient folding of small to large batch sizes. The system combines ease of use, high productivity, and cost-effective automation.

Two suction frames handle loading and unloading as well as stacking the finished bent parts. Thanks to the Advanced Handling System (AHS) with rotating suction plate backgauge and bidirectional folding beam, the folding process is fully automated. The automation is fully integrated into the machine control system, eliminating the need for separate robot programming. The gantry solution can be adapted to different

requirements, working lengths, and sheet thicknesses. Optionally, a conveyor discharge system can be integrated to transfer bent parts to downstream processes. At the same time, the machine remains versatile: individual parts, prototypes, or special bent parts can still be produced manually.

The AHS has also been further developed: a narrower travel path of the manipulator and integrated robust brushes improve the handling of narrower parts in particular and expand the range of parts that can be processed. As a result, the MAK 4 Evolution UD with its gantry solution combines automated productivity with flexible operation in a cost-effective overall system.



Highlights

- POS 3000 3D graphical control system on a swivelling control panel
- Advanced Handling System (AHS) with rotating suction plate backgauge
- Optimized AHS with a narrower manipulator travel path and robust brushes for an expanded range of parts
- Camera system for measuring the sheet contour
- Reference axes for positioning during manual operation
- Safety fence with a control panel for operating the system

MAK 4 Evolution UD with AHS		4,000 x 5.0
Working length		4,040 mm
Sheet thickness 400 N/mm ²		5.0 mm
Machine length		7,218 mm
Machine depths		7,726 mm
Machine height		3,352 mm
Clamping beam		
Geometry		180°
Stroke		1090 mm
Drive power		2 x 10,96 kW
Speed		100 mm/sec
Folding beam		
Drive power		2 x 10,53 kW
Speed		150°/sec
Folding beam adjustment		180 mm
Folding center adjustment		100 mm
Technical data gantry solution with MAK 4 Evolution UD		
Compatibility		MAK 4 Evolution / EVO Center / EVO DuoBend
Characteristic		1 or 2 suction frames
Function		Loading and Unloading, optionally waste disposal
Suction frame dimensions (ca.)		1,200 x 2,500 mm
Max. weight of the product to be handled (ca.)		300 kg
Smallest sheet size (ca.)		500 x 500 mm
Largest sheet size (ca.)		4,000 x 2,000 mm (WL 4,040 mm) or rather 3,000 x 1,500 mm (WL 3,240 mm)

Hans Schröder Maschinenbau GmbH

Feuchten 2 | 82405 Wessobrunn-Forst | Deutschland | T +49 8809 9220-0 | F +49 8809 9220-700

E info@schroedergroup.eu | www.schroedergroup.eu

All information is provided as a guideline and is subject to change at any time. 260622EN