

Media information

Schröder Group introduces Power-Bend-Center

Fully automatic bending center for highly efficient sheet metal working

Wessobrunn-Forst (Germany), 27 April 2016 – Schröder Group offers sheet metal working industrial companies a fully automatic bending centre based on folding machines of the Evolution-Series. The Power-Bend-Center is designed to be smoothly integrated into production plants for electronically controlled machining sequences. It is a complete solution from one single source: software and mechanics originate from Schröder Group's research and development and are perfectly matched. In the production planning, the software control POS 3000 with its simulation and 3D presentation serves to program bending programs and to control the machine, the tool changer and the manipulator during operation.

In the heart of the Power-Bend-Center, there is a modified folding machine of the Evolution series with a working length of 3,200 mm which is able to bend sheet metals up and down. A gripping device takes the sheet metal that is to be processed from the previous processing step. These machines could be for example laser cutting machines or automatic punching presses. The sheets get positioned and fixed on the feed-in table. The manipulator stamp fixes the sheet, turns it and is able to move it around the X-axis – a universal gauge for all purposes. A high-resolution camera system controls the position and ensures highest precision.

Other special features of the Power-Bend-Center include an extremely fast folding beam with speeds of up to 300°/sec as well as a clamping beam with speeds of up to 400 mm/sec and an augmented opening height of 850 mm. That enables the fully automatic production of very big and bulky work pieces such as housings and coverings.

Tool changing – also for single pieces

The standard equipment of the Power-Bend-Center also includes a further improved, automatic tool changer in the clamping beam of the folding center. While the new sheet gets positioned, the tool changer sets up the suitable tool stations. This, not only enables an extremely efficient and fully automatic production of large series but also of small batches and single pieces. The manipulator, the machine and the tool changer are controlled via the software control POS 3000 that has been developed in-house by Schröder. In the production planning, the CAD data of the work pieces get loaded into the POS 3000 folding program on a computer. A previous machine – e.g. a laser cutting station – opens the folding program when transferring the sheet. POS 3000 processes data in formats such as DXF, BPX and the Trumpf format *.geo. Additional flexibility: On request, the folding programs can also be entered or edited using the touch display on the machine.

The Power-Bend-Center can be configured flexibly and is available with alternative material feedings and –output stations as well as with different working lengths and folding capacities. When it comes to optimal dimensioning and configuration as well as integration of the Power-Bend-Center into installations, processes and IT-systems, customers get supported by an expert team of Schröder Group.

Available images

The following images are available in printable quality for download at:

<http://www.htcm.de/kk/schroeder>

 <p>Image source: Schröder Group</p> <p>The Power-Bend-Center – fully automatic bending center from Schröder Group for the sheet metal working industry</p>	 <p>Image source: Schröder Group</p> <p>The POS 3000 software control allows you to program bending programs and control folding machines, tool changer and manipulator during operation.</p>
---	--

About Schröder Group

The Schröder Group consists of Hans Schröder Maschinenbau GmbH, located in Wessobrunn, Germany, and SCHRÖDER-FASTI Technologie GmbH, located in Wermelskirchen, Germany. Founded in 1949, Hans Schröder Maschinenbau GmbH combines traditional and modern aspects in mechanical engineering. Successfully managed as a quality and customer-oriented family company, Hans Schröder Maschinenbau specialises in the development of modern machine concepts for folding and cutting sheet metal. Thanks to the 2006 integration of the Fasti Company and its workshops and a global presence, the Schröder Group is now a leading provider of folding, cutting, crimping, beading, and shearing machines of all kinds. The diversity of the range of precision machines ranges from proven solutions for trade to innovative, high-performance machines for automated industrial production. The Schröder Group now employs more than 240 workers at various domestic and international locations.

Further information is available at www.schroedergroup.eu/en.

Press contact:

Schröder Group
Schröder Maschinenbau GmbH
Janina Biró
Feuchten 2
82405 Wessobrunn-Forst
Germany
T: +49 8809 9220-68
E-Mail: jj@schroedergroup.eu
Website: www.schroedergroup.eu

HighTech communications GmbH
Brigitte Basilio
Grasserstrasse 1c
80339 München
Germany
T: +49 89 500778-20
E-Mail: b.basilio@htcm.de
Website: www.htcm.de