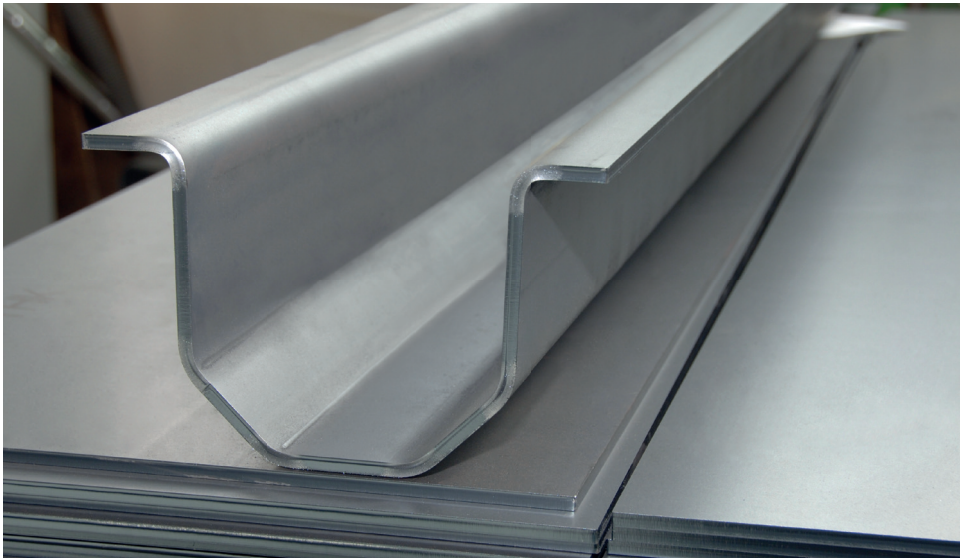


Thick sheets precisely fold

Heizomat produces with Schröder folding machines



User

Ever since the company was founded in 1982, Heizomat concentrates on energy sources of renewable raw materials. Over 30.000 wood chips or biomass heating units in the performance range from 15 - 1000 kW have already been sold by the company with production sites in Gunzenhausen/Maicha and Heidenheim. In addition over 3.000 wood chip machines have been sold. As a full-service provider Heizomat is covering all steps of wood chip production, bunkering, production and combustion and offers automated large scale plants - robust installations that require robust machines for their production (www.heizomat.de).

Success

For all sheet metal processing technologies Heizomat totally relies on folding machines from Hans Schröder Maschinenbau. Thin metal applications up to 2,5 mm sheet thickness have been covered with a Schröder folding machine type SPB. For all thicker sheets Heizomat used a Schröder-Fasti 216 that is able to bend up to 15 mm thick sheets. But for the huge number of sheet metal folds up to 6 mm this machine turned out to be too slow and oversized. With the MAK 4 Evolution UD Heizomat could increase its manufacturing capacity significantly.

Used machine

- Folding machine
MAK 4 Evolution UD
 - 3000 mm working length
 - Up to 6 mm sheet thickness
 - Up-and-Down folding beam
 - 850 mm clamping beam stroke
 - POS 3000 3D-graphic control
 - Radius bending with the clamping beam in any number of steps
- Folding machine SPB
 - For thin sheets
 - 650 mm opening height of clamping beam
- Folding machine
SCHRÖDER-FASTI 216
 - Up to 16 mm sheet thickness

Heizomat produces all parts of its machines by themselves. For sheet metal processing the specialist of wood chips worked with two machines. The SPB from Hans Schröder Maschinenbau was used for thin sheet applications up to 2,5 mm. The machine type Schröder-Fasti 216 was used for all thicker sheets. This machine with a hydraulic drive has a pressing power of 2135 kN – a strength that is needed because thick sheets up to 15 mm are processed. The large number of sheets that are needed to produce e.g. boiler casings lie in the range of four to six millimeter thickness, with work piece lengths of up to three meters. For these tasks the Schröder-Fasti machine seemed to be too slow and oversized in the long run. Hence, Robert Bloos jun., managing director at Heizomat Gerätebau Energiesysteme GmbH informed himself at Schröder Group for suitable machines.

Counter foldings in one single processing step

Folding machines are often used for radius bending at Heizomat. Here, radius steps are bend with the help of the clamping beam. The POS 3000 software control,

that Bloos got to know at Hans Schröder Maschinenbau in Wessobrunn-Forst, even allows precise and any number of radius bending steps. The new high-end-software control with three dimensional visual display of materials and tools as well as its integrated 3D-folding simulator impressed him. The machine on which this software was installed, has been the machine that increased productivity at Heizomat: the MAK 4 Evolution UD.

Non-clearance planetary gears for power transfer and internal drive spindles make for high speed on the one side, and for minimal wear and reduced maintenance on the other side. A clamping beam stroke of 850 mm leaves room for bulky workpieces. Alongside the convenient operation of the software, the MAK 4 Evolution UD has a

lot of effort-saving features that hide behind the abbreviation UD. It stands for Up and Down and that means that the folding beam is able to bend both upwards and downwards. In this way all counter folds can be completed in one single working step, without any need to turn over the sheet . With up to 6 mm thick and 3000 mm wide sheets this saves a lot of muscle power and additional helping hands.

No more bottlenecks

Heizomat processes over 6000 tons of steel sheet per year from pre-cut to folding, welding, painting up to assembly. The investment into an addition folding machine has created adequate capacity margins.

„Thanks to the productivity of the Schröder MAK 4 Evolution UD, our bottleneck is now the precut and the painting. What we need to fold, we easily accomplish in a single shift in a five-day week. Through the Up-and-Down folding beam working at the machine is even more effort-saving.“

Robert Bloos jun.
Managing Director



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 machines for folding, cutting, crimping, beading, and circular bending sheets 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.

SCHRÖDER
GROUP

Hans Schröder Maschinenbau GmbH
Feuchten 2 | 82405 Wessobrunn-Forst
Germany
P +49 8809 9220-0
F +49 8809 9220-700
E info@schroedergroup.eu
www.schroedergroup.eu