

Easy handling, undamaged surfaces

Swivel folding machine SPB Evolution UD used several times
at Lindner Group



User

The Lindner Group is Europe's leading supplier of complete interior fit-outs, insulation and facades. Under the Motto „Ceiling, floor, wall – everything out of one hand“ the company, headquartered in the Bavarian town Arnstorf, is delivering worldwide sophisticated metal facades ready for installation on construction sites. Most of the parts are produced fully automated in mass, however there are always special parts that need to be manufactured manually as small production volumes and single pieces – up to 200 pieces per shift. (www.lindner-group.com)

Success

The division ceiling has already been working with a swivel folding machine, however this machine turned out to be not robust enough and required intense maintenance on the long-term. What was important when searching for a substitution was the option to bend in both directions in order to facilitate the handling of larger sheets. That was the reason for choosing the SPB Evolution UD from Hans Schröder Maschinenbau GmbH. The handling had even been further improved by constructing a folding table specifically suited for Lindner.

Used machine

Swivel folding machine SPB Evolution UD

- 4,000 mm working length
- Up to 3 mm sheet thickness
- Up-and-Down-folding beam
- Rotating clamping beam
- Preconfigured material features for automatic bending angle adjustment
- Automatic crowning device
- POS 3000 3D graphic control

Customized special construction:

- Motorized folding table as extension of back gauge system

Standardisation and mass production on fully automated in-line machines help to cut and to fold the large surfaces on metal sheets that Lindner produces in order to operate sophisticated national and international major projects.

Whether an office tower, a concert hall or a cruise liner – even though most of the required parts are manufactured in automation, there are still enough parts that all need to be bend separately.

It has been obvious for a long time that swivel folding machines represent the right tool for the department ceiling. Once an existing machine did not prove robust enough and required intense maintenance, offers had been requested. The next swivel folding machine should definitely be able to bend up and down. According to Stefan Seidl, production development at Lindner Group, this is because turning over metal sheets with a length of more than two metres and a sheet thickness of only 0.6 up to 0.8 mm is hard to handle for one single machine operator. Moreover, turning over big metal sheets for counter-foldings may lead

to damages of the workpieces e.g. by bucklings. Indeed the risk of damage can be completely eliminated with an up-and-down folding beam.

Special construction of a folding table

SPB Evolution UD with 4,000 mm working length, POS 3000 graphic control and a special tool changing system: The rotating clamping beam allocates in only one step a second set of tools. As the handling of metal sheets on this machine basically should be tackled by one operator without an extra manipulator Lindner placed an order with Schröder in order to construct

and build a motorized folding table. This table complements the back gauge system of the swivel folding machine.

In every shift, up to 200 steel, aluminium and stainless steel parts get folded with the swivel folding machine. By the way, the characteristics of the particular materials are stored in the electronic control POS 3000 so that the bending angle can be adjusted automatically also when using elastic material.

„We are really satisfied with the machine. We produce the parts that we depend on inhouse because e.g. they form an end piece or leave room for light bulbs. Being able to achieve exact dimensions when folding does have clear effects on the quality of the finished ceiling.“

Stefan Seidl



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 folding 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
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