Progress Maschinen & Automation AG, 39042 Brixen, Italy

Progress in reinforcement prefabrication: Mesh welding machine with bending system in Scandinavia

Leth Beton A/S, a leading Danish company in precast concrete element production, is the first precast element manufacturer in Scandinavia to use a mesh welding machine with an integrated bending system – the innovative M-System BlueMesh® from Progress Group. This step positions the company at the forefront of automation in the industry.

Investment in the future

Founded in 1993 by Ole Leth, the family business now employs over 200 people and offers a broad portfolio that includes concrete walls, stairs, balconies and other elements. Co-owner and Managing Director Henrik Egelund is delighted with the results so far: "The new machine achieves material savings of over 30%, while we can reduce the workload for our employees and utilise their skills in other areas. Working conditions have improved considerably, as physically demanding tasks have largely been eliminated."

Efficiency gains

Commissioning of the mesh welding machine went almost without a hitch, meaning that Leth Beton was able to start producing flat mesh after just a few days. The step-by-step integration of the bending system then followed. Adapting the design software to the specific requirements of the robot

CEO Henrik Egelund in front of the M-System mesh welding machine with bending system, the first of its kind in Scandinavia.

The new automated system ensures more efficient production of mesh and cages.

Thanks to the innovative bending system integrated into the mesh welding machine, the cages can be bent fully automatically and flexibly.

was a particular challenge, but one that could be overcome together. The implementation of the profit software, also from Progress Group, makes work even more efficient. The MES system profit monitors all production processes and machines to achieve a very high level of accuracy and efficiency in reinforcing steel processing.

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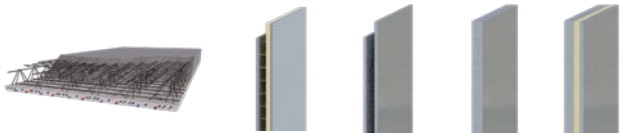
Shuttering & deshuttering robot

- Flexible solutions
- Accuracy in positioning
- Shuttering system Infinity Line®

The Form Master performs all the individual operations in the shuttering process of a precast plant fully automatically.



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The machine operator can concentrate on controlling the machine and no longer has to carry out heavy physical and often dangerous work.

profit is a customised software solution for the organisation and management of reinforcement processing.

Automated process in detail

The fully automated system combines state-of-the-art welding and bending technologies. The production process is divided into the following steps:

Wire preparation

Reinforcing wire is fed directly from the coil into the rotor straightening machine.

Welding

The straightened wires reach the welding portal, where the meshes are precisely welded.

Transport and further processing

Welded mesh is either processed directly for storage or via the automatic bending system and prepared for final use.

Transformation of a traditional industry

With the M-System BlueMesh mesh welding machine, Leth Beton has not only revolutionised its production processes, but also set new standards in terms of sustainability, efficiency and occupational safety. Its success shows how technological innovation can transform traditional industries. ■

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