

RZ INM Mekaniska



Source / Link: <https://www.industritorget.se>

Technology area:

- Artificial Intelligence
- Big Data
- Digital Twins
- IoT and IIoT
- Cybersecurity
- VR/AR
- Robotics
- Automation
- System Integration
- Smart Sensors
- Additive Manufacturing
- Other

Type of good practice:

- Company
- Project
- Initiative
- Programme
- Other

Target group:

- Discrete (smart) manufacturing
- Automotive
- Aerospace
- Metal processing
- Consumer goods
- Pharmaceuticals and chemistry
- Food and agriculture
- Health
- Textiles
- Others

Summary:

RZ INM Mekaniska in Västra Frölunda is a contract manufacturer that is part of the RZ Group with twelve mechanical workshops around Sweden. The company is a specialist in sheet metal processing and manufactures components that are exported for final production in other parts of Europe. Recently, RZ INM Mekaniska has added a Hyper Bending System, HBS, to its machine park from the Italian machine manufacturer Starmatik, which will ensure that more secure cost calculation and shorter cycle times are in place. Additionally, the machine will enable the company to scale its operations.

Detailed description

The Hyper Bending System takes only 28.5 square meters and has automatic gripper change and tool change, which means that it is possible to add a production queue and produce without interruption. The system includes everything to automate the entire bending process; loading, positioning, bending, turning and stacking. According to the CEO of RZ INM Mechanical – Christoffer Ågren – this is the first robotization within the company and it is particularly important since it will allow the company to go into large projects.

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The Hyper Bending Machine is also programmed off-line, which increases its availability and provides a more secure cost estimate. One of the product managers from the company pointed out that it is an absolute necessity in today's highly automated industrial environment to be able to program such a type of equipment off-line. Having a good availability of this type of machine equipment is very important and you get it thanks to the off-line programming. Another advantage of off-line programming, especially for a company engaged in contract manufacturing, is that you can evaluate and analyse which tools and grippers to use at an early stage in the process and get an idea of cycling time.

Beneficial Results

Some of the benefits for the company that came as a result of adding the Hyper Bending Machine are:

- Short installation time – it only took three days from when the machine was in place until the first products came out;
- The entire system is programmed off-line with Starmatik's own software SimulEasy, which generates programs for both robots and edge processes;
- The machine enables the company to evaluate and analyse which tools and grippers to use at an early stage in the process and to get an idea of cycle times. This, in turn, contributes to a more secure cost calculation on the finished detail and give the right price to the end customer.

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