



GiboSmartSolutions

GiboMachineTending

Fully automated machining cell for the production of vacuum-shaped plastic items. GiboSmartSolutions for machine operation is based on well-known technology and experience from previous projects. The solution is offered as a ready-made turnkey solution within the framework described on the back and easily adapted to customer-specific requirements.



Robot
Fanuc, KUKA



CNC
CMS, SCM



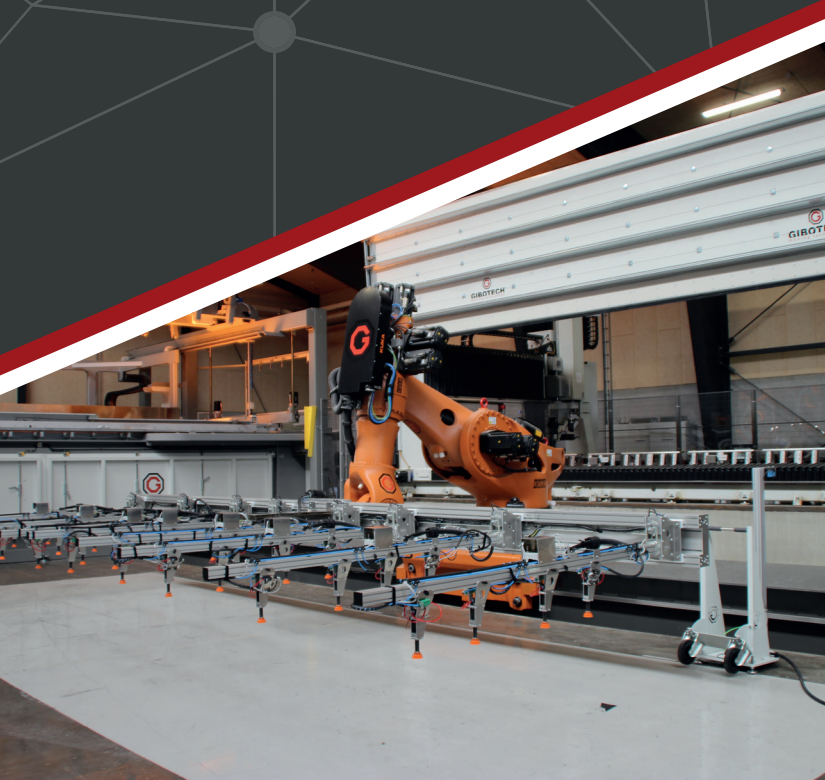
Gripper
Adapted to application



Materials
Composit, plastic, aluminum



Solution
May also be integrated with existing production facility

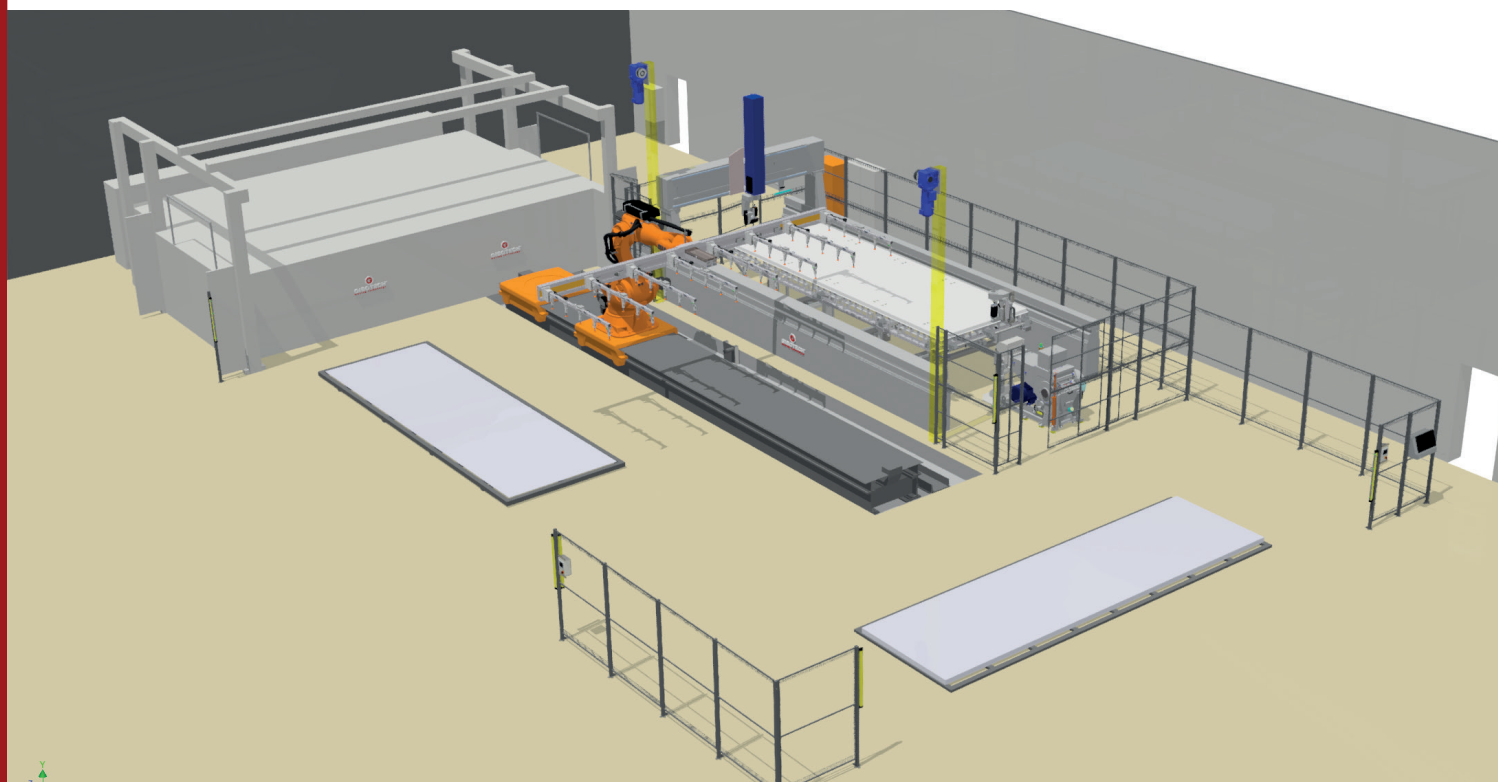


ADVANTAGES

- Fully automatic production of vacuum-shaped plastic sheets
- Fully automatic vacuum shapes, CNC and 6 axis robot
- Easy-to-use PC control that controls and monitors the entire cell
- Very high productivity, minimum downtime
- Solution can be adapted to both larger and smaller machines
- Rapid transformation, improved working environment
- Automatic conversion of CNC and vacuum shapes
- Robotic tools designed for all sizes



GIBOTECH^{AS}
GiboSmartSolutions



INCLUDED

- 1 CNC machine with fully automatic worktable
- 1 vacuum former
- 1 robot incl. controller and teach pendant
- 1 piece rail / 7th robot axis
- 1 robotic tool adapted to the application
- 1 unit for the detection and separation of raw plates
- 1 customer-designed HMI Touch panel with associated user interface
- 1 PC for control, programming and monitoring of the entire cell
- Full security solution
- Electrical cabinets and necessary electrical components
- GiboSoft software package, automatic production, monitoring, etc.
- Installation and commissioning of robot systems at Gibotech A/S with FAT test
- Installation and commissioning of the entire plant at the customer with SAT test.
- Complete documentation package including CE.

FUNCTIONALITY

Fully automated machining cell for the production of vacuum-shaped plastic parts.

Efficient 5-axis CNC machine, as well as fully automatic vacuum shaper both ensuring high productivity, combined with robustness, strength and speed to ensure the production of vacuum-shaped plastic parts and in very high quality.

The machines are operated by a 7-axis industrial robot with proven grippers with vacuum suction cups. Vacuum is applied on the entire touch surface without leaving marks on the workpiece regardless of material composition.

The entire solution is connected by GiboSoft software platform which, through intuitive interfaces and options, creates a user experience that makes it easy for operators to operate the facility after only a few hours of training.

The robot's tools are designed to integrate vacuum cleaner to remove dust or chips before the workpiece is palletized. Before palletizing the workpiece, polish it on the brushes so that the finished product is left with soft, round shapes that can be packed and shipped to customers.