

# PLANT AND MACHINES

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Complete systems, Robotics,  
handling, inspection

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# Complete systems, robotics, handling, inspection

Examples for complete systems

Extensions, options:

- automatic loading and unloading systems, as well as integration into a complete plant
- Robotics
- Quality assurance
- Measurement
- Labelling, marking
- Extraction, water treatment
- Manual or automatic adjustment

## DESIGN ACCORDING TO CUSTOMER REQUIREMENTS

All plants and machines are designed and manufactured according to the specified requirements of the customer and the product.



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## Processing line for refractory products

The system consists of several robots, a 3D measurement in the climate room, palletising, tool measurement, labelling, needle printing, 8 different processing stations and safety equipment with access doors.

The complete sequences, settings and evaluations are handled by a central control system adapted to the process. The entire system is monitored by one operator.



## 6-sided machining plant with two grinding machines

The 6-sided processing plant consists of two grinding machines with 3 grinding units each, a pallet magazine, the pallet infeed and outfeed, two buffer roller conveyor systems, two transfer units for loading and unloading, two tilting tables, two sound and splash protection cabins and the safety equipment. The plant is monitored by a central control system operated by one operator.

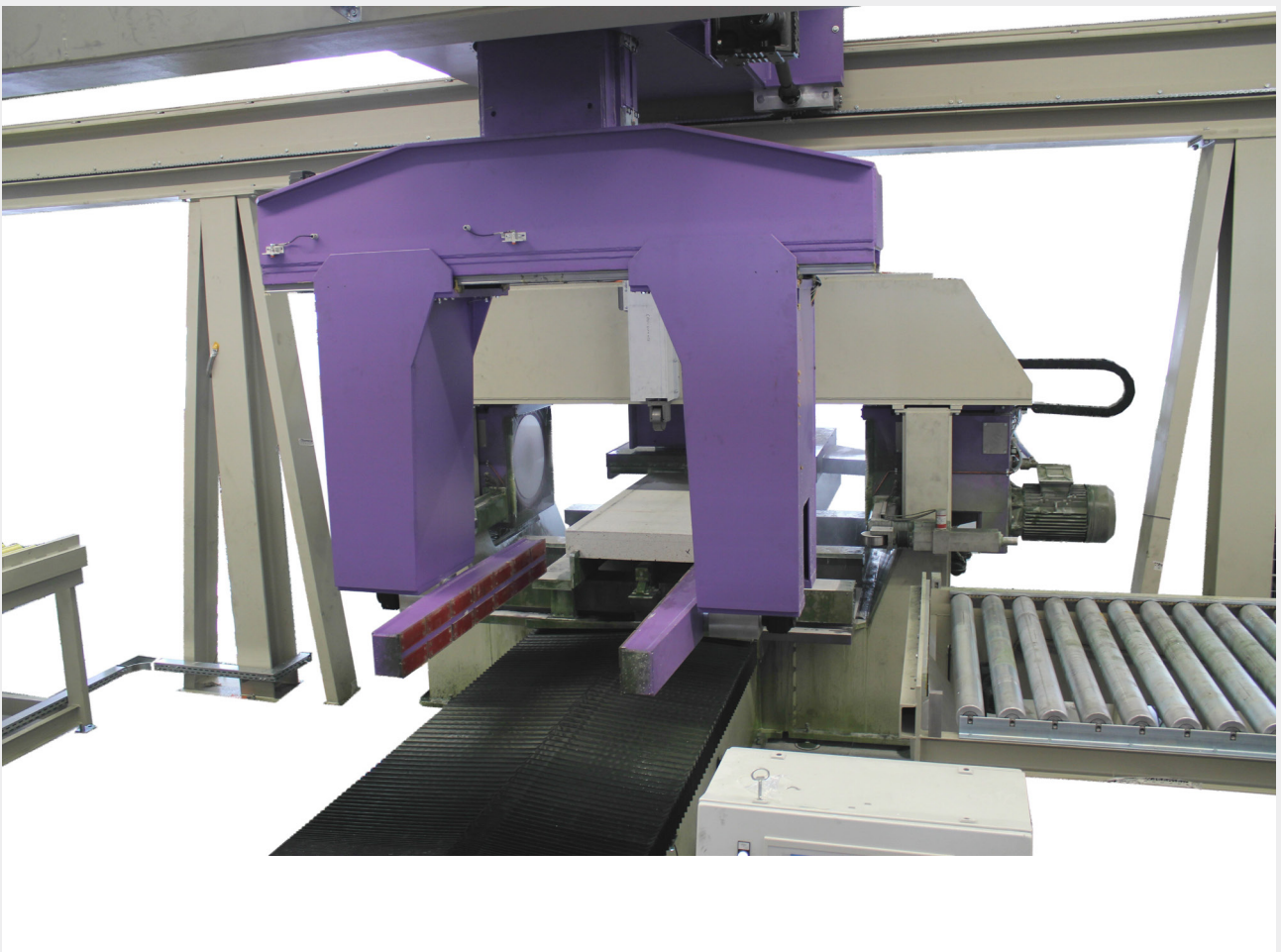
With this plant, the blocks are first ground on 3 sides on the first machine and then transferred to the second machine rotated and turned, while the first machine grinds the next block. Thus, both machines are grinding at the same time



## 6-sided machining plant with one grinding machine large

This 6-sided processing plant is specially designed for large blocks up to 2.50m. The feed roller conveyor is loaded with a forklift or crane and takes up to 10 unsorted sizes as a buffer section. The blocks are automatically measured on this track and the data is transferred to the control system. The machine adjusts itself fully automatically to the corresponding size. In addition, the block is automatically measured after each grinding process to compensate for tool wear. When full wear is reached, the operator receives a message on the screen and the machine stops until the tool has been changed.

The turner rotates and turns the block so that sides 4, 5 and 6 are also ground. As soon as all 6 sides have been ground, the block is placed on the outfeed roller conveyor. The block is then washed and precisely measured on all sides and can be handed over with a corresponding test report.



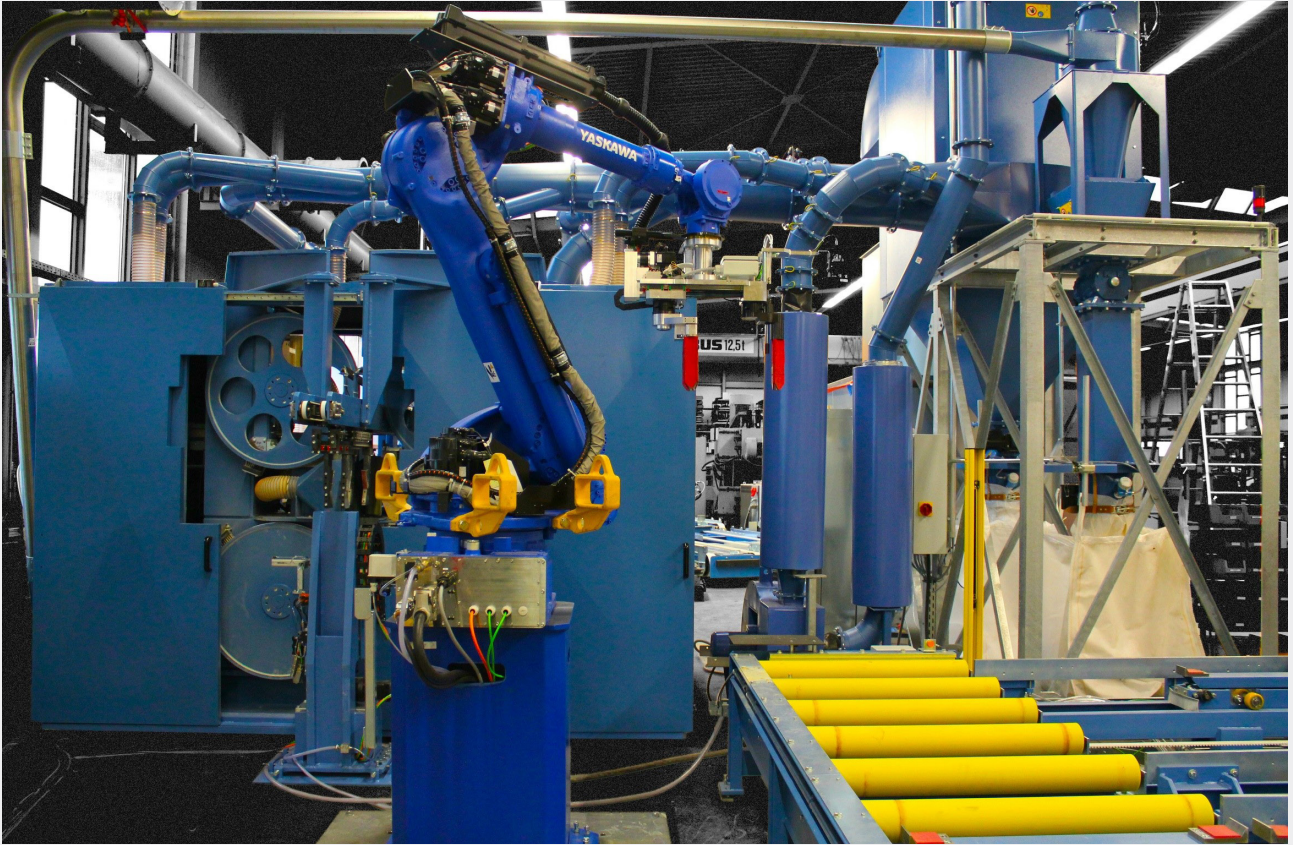
## 6-sided machining plant with one grinding machine small

The 6-sided processing machine for small formats can take up to 10 different formats unsorted on the feed roller conveyor. These are pre-measured fully automatically and transferred to the machine. The gripper places the block in the machine and the first 3 sides are grinded, then the block is rotated and turned and again clamped on the carriage to grind sides 4,5 and 6.

The blocks are transferred to the pull-out roller conveyor clean and completely measured. In addition, a protocol with the dimensions and additional information can be handed over.



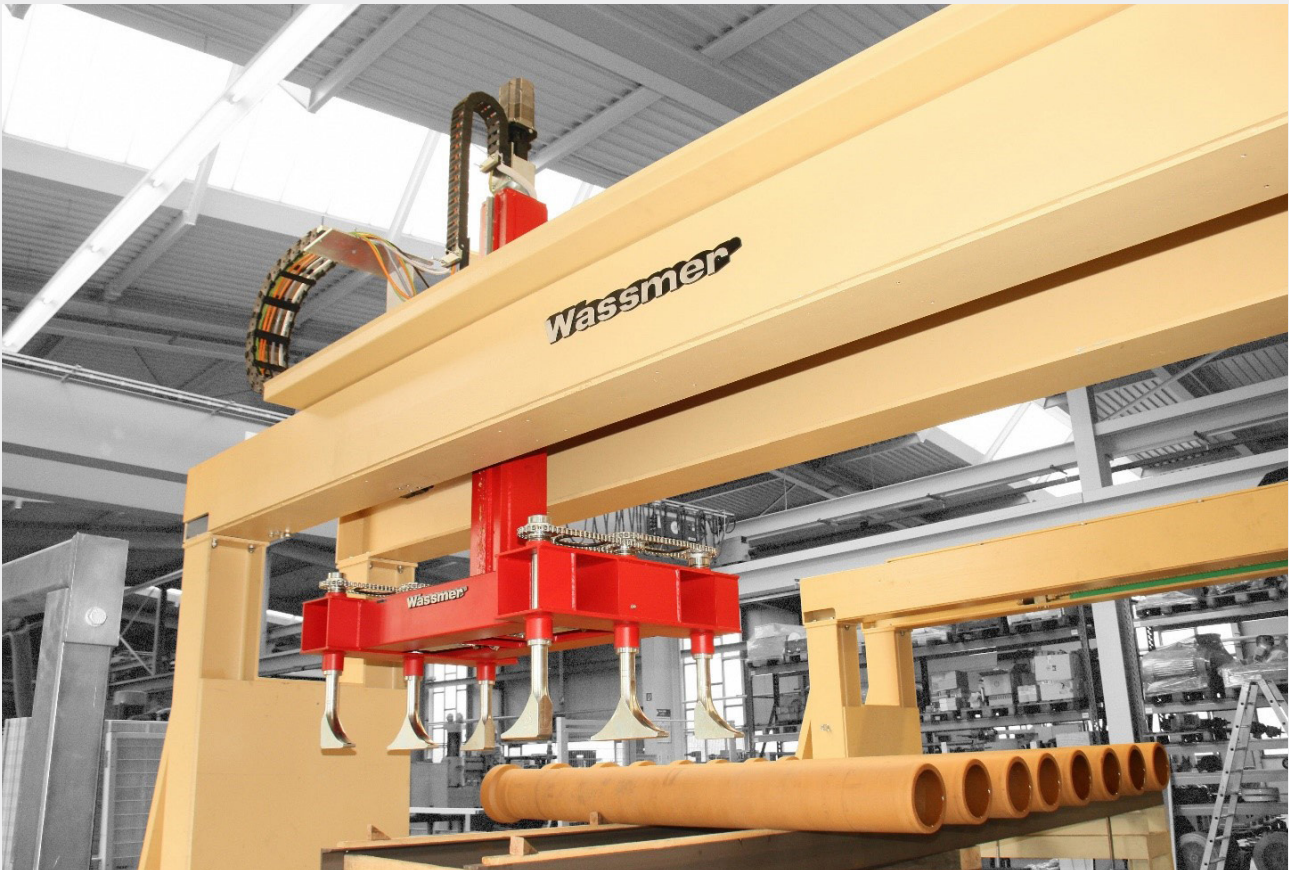




## Processing and packaging line for technical ceramics

The plant consists of the complete transport system, handling with several robots, processing with two band saws, cleaning station, section disposal, quality assurance, labelling with QR code laser printer and/or labels, extraction, packaging and the complete safety concept with access doors and light barriers.





## Machining line for pipes

The plant machines the socket and the tip of the vitrified clay pipes for use with a narrow seal. The plant is installed as a bypass and automatically transports the pipes after the furnace into the machining plant distributed to two machines working in parallel, which circularly grind both sides at the same time.

At the exit of the system, the socket and tip are automatically measured and if wear of the diamond tool is detected, this is automatically compensated for until the tool has to be changed.

The cycle time of the system is determined by the feed rate of the furnace.

## Notes



## Notes



## Overview of info material:

- Single sided grinding machines
- Two-sided and three-sided grinding machines
- CNC-controlled machines
- Sawing machines
- Drilling machines
- **Complete refractory systems, technical ceramics**
- Complete systems for graphite machining
- Plants for building materials and ceramics
- Lamination machines

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