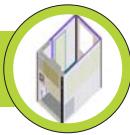


The economic solution for production of small batch sizes and production parts with a loading through the automated side door of the processing machine

Cell



- » RoboCube Maxi is a modular built RoboCube automation cell with a floor area of 4,0m² and a maximum accessibility
- » Due to the access door you can go into the cell.
- » All energies are embedded in the base plate. So the cell is cleaned up.

Robot



- » The robot is mounted on the base plate, so he can deeply reach in the processing machine.
- » Due to the 6 axis and a maximum payload of 35kg even complex handling tasks are possible.

Storage



- » Three drawer positions: worker position, middle position and operating position - ensure a loading/unloading of raw materials and finished goods during the running system operation.
- » The drawers are mounted about each other to ensure an optimum storage of the parts with minimum floor area.



QC



- » By pushing a requirement tracer finished goods can be taken from the running system operation and can be checked by the QC (SPC drawer).
- » The SPC drawer allows a quality inspection while the system operation is running and minimizes bad parts.

HMI



- » All functions can be chosen on the generous 7" Touch Panel.
- » The fully developed machinery control provides the setup of new variants with a wizard. Only workpiece data are required. All further information are calculated by the PLC.
- » Operating modes- and variants, error messages and system information are integrated in the standard as well.

Options



- » For individual requirements the flexibility is already integrated in the standard. Number of drawers, gripper, robot type and interfaces are freely selectable.
- » Additional functions as re-gripping or blow-off with compressed air are already integrated in the PLC. Only the hardware has to be extended.

Technical Data



Control.

Siemens S7-1500 PLC

Interfaces.

ProfiNet, ProfiNet/ProfiSafe, Profibus, I/O, I/O-Link, Ethernet

Operation (HMI).

Siemens 7" Touch

Robot.

Fanuc

Gripping System.

Parallel-double-gripper, Three-fingers-double-gripper, Vakuum-gripper

Maxi-Variants

| Description | Payload Robot max. | Range Robot max. | Cell Dimensions (L x W x H) | Cell Weight |
|-------------|-----------------------|---------------------|--------------------------------|------------------|
| Maxi 120 | 12 kg | approx. 1.400 mm | 1.600 mm x 2.500 mm x 2.300 mm | approx. 1.300 kg |
| Maxi 200 | 20 kg | approx. 1.800 mm | 1.600 mm x 2.500 mm x 2.300 mm | approx. 1.400 kg |
| Maxi 350 | 35 kg | approx. 1.800 mm | 1.600 mm x 2.500 mm x 2.300 mm | approx. 1.400 kg |

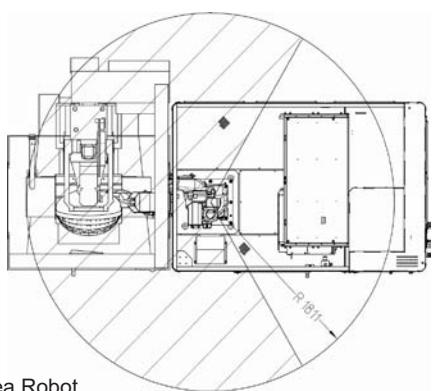
Drawer-Variants

| Description | Drawer Dimensions (L x W x H) | Payload Drawer max. | Handling Loading Side | Handling Machinery Side |
|-------------|----------------------------------|------------------------|--------------------------|----------------------------|
| Maxi 120 | 600 mm x 1.200 mm | 200 kg | manual | robot |
| Maxi 200 | 600 mm x 1.200 mm | 200 kg | manual | robot |
| Maxi 350 | 600 mm x 1.200 mm | 200 kg | manual | robot |

Possible drawers depending on part height.

| Part Height max. | Maxi 120 | Maxi 200 Maxi 350 |
|------------------|----------|----------------------|
| with 2 drawers | 220 mm | 330 mm |
| with 3 drawers | 150 mm | 200 mm |
| with 4 drawers | 100 mm | 140 mm |
| with 5 drawers | 80 mm | 110 mm |
| with 6 drawers | 60 mm | 80 mm |

All data can be rounded, may vary and are without warranty. Changes are reserved.



Working Area Robot