

# MSY 242206 RoboCube Speedy

**MartinSystems**

STANDARDMASCHINEN&SERVICE

The compact loading for economic production of small batch sizes and production parts with a loading through the automated front door of the processing machine.

## Cell



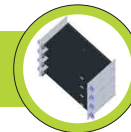
- » RoboCube Speedy is a compact, modular built RoboCube automation cell with a floor area of only 1,2m<sup>2</sup> and a part storage with 6 drawers.
- » A safety enclosure provides safety and minimizes the floor area.
- » Optional there is a low laser available which replaces the safety enclosure to ensure maximum accessibility.

## Robot



- » The bending robot position allows a sideways intervention of the robot through the front door. Due to the 6 axis and a maximum payload of 35kg there are also possible complex handling tasks.

## 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



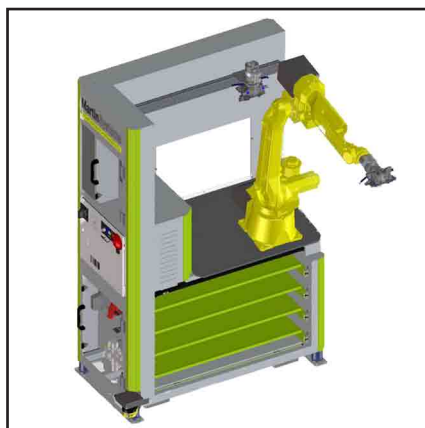
- » All functions can be chosen on the generous 7" Touch Panel.
- » The fully developed machinery control provides the setup of new variants with a wizard. Only workpiece data are required. All further information are calculated by the PLC.
- » Operating modes and variants, error messages and system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

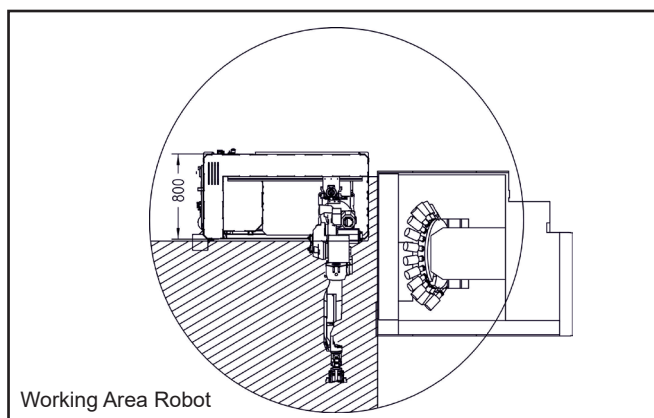
Parallel-double-gripper, Three-fingers-double-gripper, Vakuum-gripper

## Speedy-Variants

Description	Payload Robot max.	Range Robot max.	Cell Dimensions (L x W x H)	Cell Weight
Speedy 120	12 kg	approx. 1.400 mm	1.600 mm x 800 mm x 2.450 mm	approx. 1.000 kg
Speedy 200	20 kg	approx. 1.800 mm	1.600 mm x 800 mm x 2.450 mm	approx. 1.200 kg
Speedy 350	35 kg	approx. 1.800 mm	1.600 mm x 800 mm x 2.450 mm	approx. 1.200 kg

## Drawer-Variants

Description	Drawer Dimensions (L x W x H)	Payload Drawer max.	Handling Loading Side	Handling Machinery Side
Speedy 120	600 mm x 1.000 mm	150 kg	manual	robot
Speedy 200	600 mm x 1.200 mm	200 kg	manual	robot
Speedy 350	600 mm x 1.200 mm	200 kg	manual	robot



Possible drawers depending on part height.

Part Height max.	Speedy 120	Speedy 200 Speedy 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.