

# Separation, testing and feeding Robofeeder RF MC

Powered by pi4



## Customer benefits

- + Independent provision of parts for several hours
- + Separation of parts by oscillating movement
- + Inspection of user-defined features with camera systems
- + Feeding of good parts, individually or as an assortment

“Highest possible performance – seven days a week and 24 hours a day”.

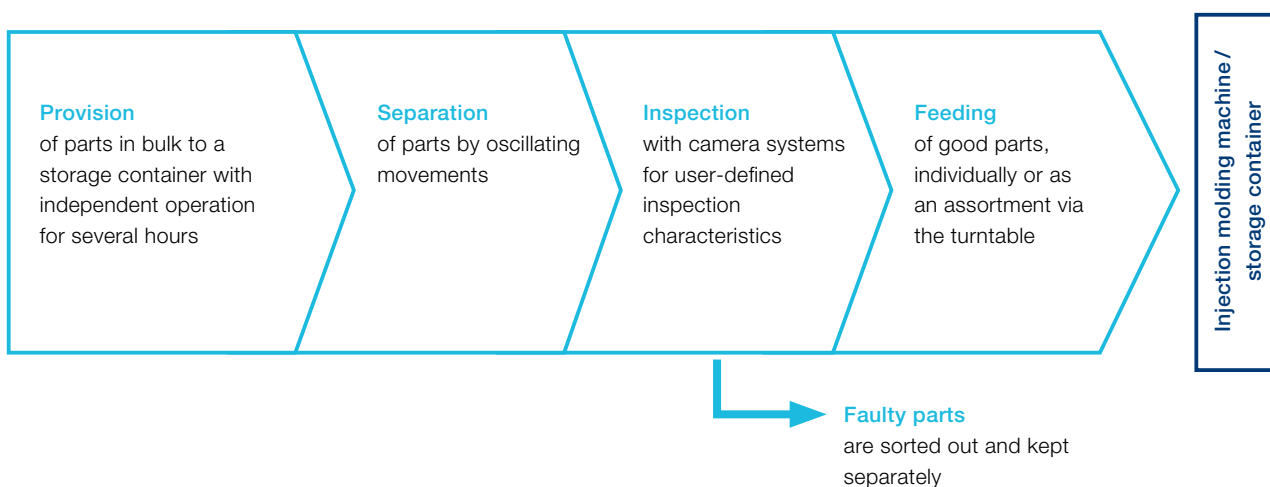
The Robofeeder RF MC combines capabilities of separation, sorting and quality inspection of parts in one compact machine. Your production parts are moved into the correct position by a powerful vibratory feeder and placed precisely on the delivery table by a robot.

Quality inspection of the parts according to your individual specifications can be carried out “on the fly” within the work process. Parts that do not meet your quality requirements are immediately sorted out.

In maintenance mode, the Robofeeder is able to independently monitor its own gripping work. The user can visually check at freely selectable intervals with the integrated calibration camera whether deviations in gripping precision have crept in.

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#### Robofeeder RF MC mode of operation

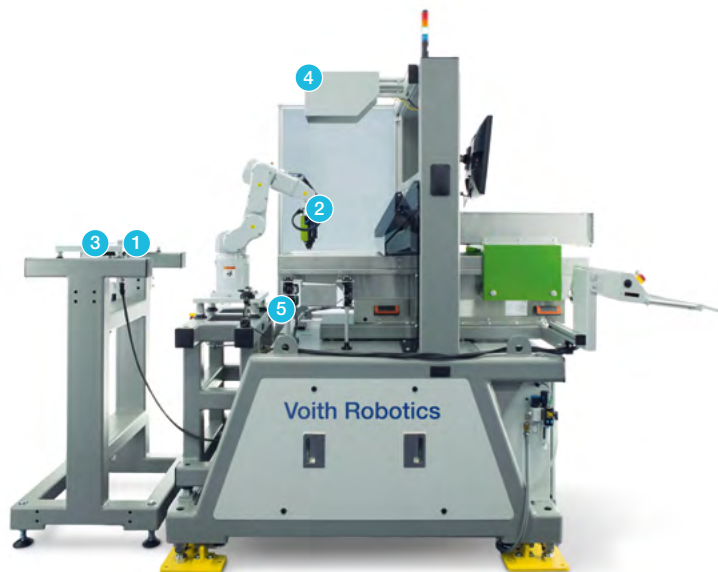


This means that even the smallest parts can always be placed with maximum precision. The RoboFeeder RF MC therefore offers the highest possible performance for your handling and inspection process, seven days a week, 24 hours a day – and all this with a control and correction effort reduced to an absolute minimum.

Even training for new production parts is possible for your employees, without needing extensive familiarization with the machine software. The pi4\_control control software can be operated intuitively.

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### RoboFeeder RF MC – the universal machine



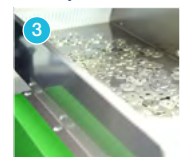
Customized product shelf



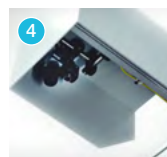
Gripper



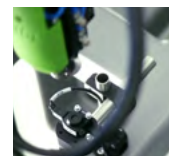
Vibrating conveyor



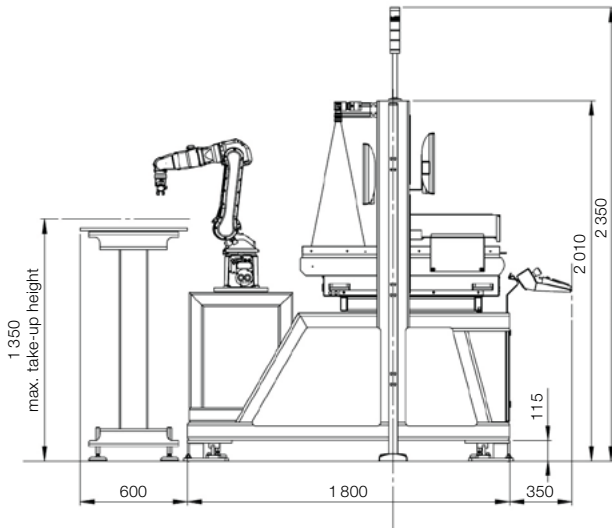
Robot camera



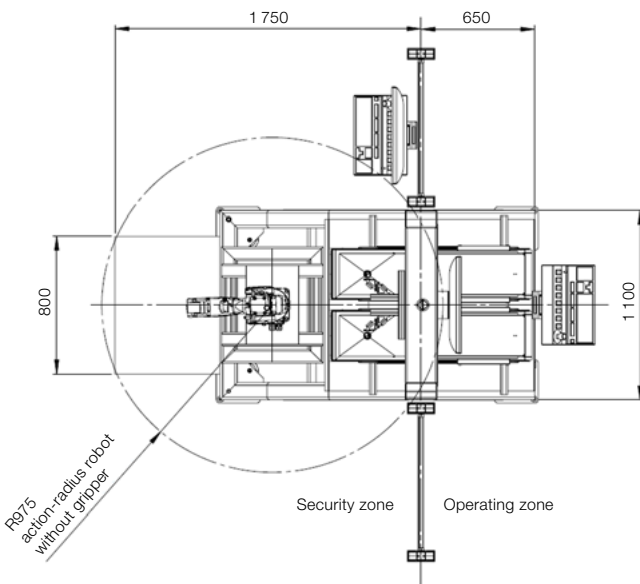
Calibration camera



## Dimensions



## Footprint



## Technical specifications

<b>Machine dimensions L x B x H</b>	1 800 x 1 150 x 2 530 mm
<b>Machine weight</b>	1 300 kg
<b>Number of robots</b>	1
<b>Robot type</b>	6-axis articulated arm
<b>Feeder type</b>	multi-action feeder
<b>Number of feeders</b>	1 – 2
<b>Gripper</b>	2-jaw gripper / vacuum sucker
<b>Optional grippers</b>	electric gripper (2 or 3 jaws)
<b>Number of cameras for product recognition</b>	1 – 2
<b>Resolution of the standard camera</b>	5 megapixel (2 588 x 1 940 pixels)
<b>Illumination</b>	LED backlighting
<b>Illuminated area</b>	240 x 320 mm <sup>2</sup>
<b>Cycle time</b>	as from 3 sec
<b>Max. testing precision (without calib. cam)</b>	S = +/- 0.13 mm
<b>Part material</b>	any (wood, metal, plastic, glass, ...)
<b>Part dimensions</b>	max. 100 mm edge length
<b>Part weight</b>	max. 50 g per part
<b>Part transfer</b>	by rotary table, slide-over unit or direct placement
<b>Storage bin (standard version)</b>	10l / 10 kg
<b>Integration in external emergency stop circuit</b>	integration is possible, emergency stop switchgear available
<b>Enclosure</b>	standard without enclosure – optionally with enclosure
<b>Power supply</b>	CEE plug 400 V / 16 A, compressed air 6 bar
<b>Max. power rating</b>	3.5 KW

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