

Separation, testing and feeding THT-Placer

Powered by pi4



Customer benefits

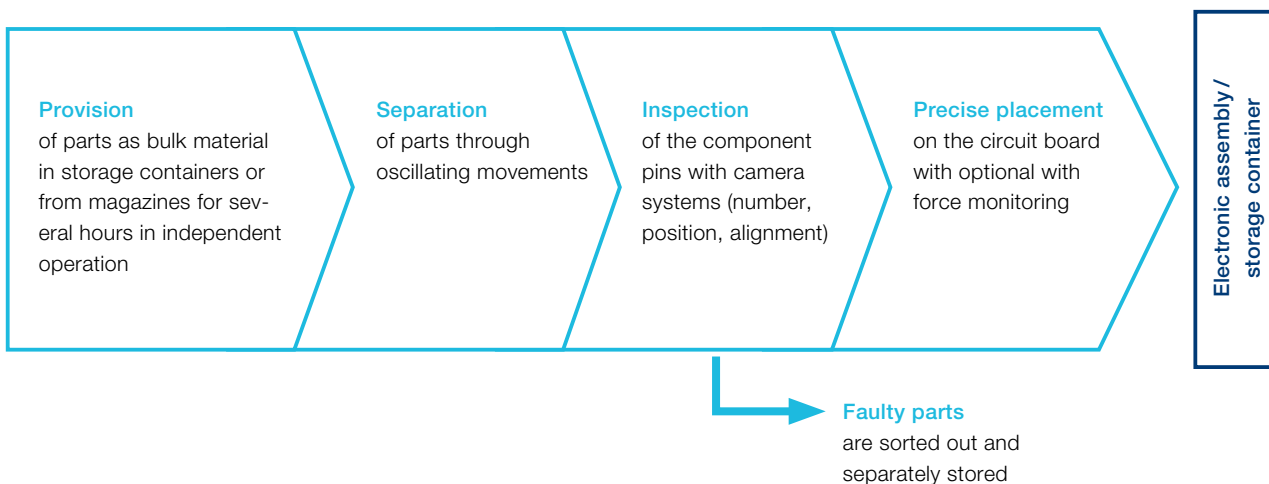
- + Mounting through-contact components (THT) on electronic circuit boards
- + Automatic removal of components from a magazine
- + Optional feeding of bulk material using camera-based pi4 feeder technology
- + Parallel feeding of bulk material and components to magazines is possible
- + Automatic placement of components on the circuit board
- + Inspection of the component contact pins by camera before insertion
- + Force monitoring during component insertion is possible (optional)

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

The THT-Placer combines in one compact machine the ability to separate and quality check connection pins for precise placement. Your production parts are brought into the correct position by a powerful vibratory conveyor and precisely placed on the circuit board by a robot.

Quality inspection of the parts can be carried out “on the fly” within the work process, according to your individual specifications. Parts that do satisfy your quality requirements are immediately sorted out. The THT-Placer can be optionally equipped with straightening stations for bent connection pins. Furthermore, the force sensor option also enables monitoring of the placement process and maximum permitted forces.

THT-Placer mode of operation



This means that even the smallest parts can always be placed with maximum precision. The THT-Placer therefore offers the highest possible performance for your handling and testing process, seven days a week, 24 hours a day – and all this with control and correction effort reduced to the 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.

THT-Placer – the universal machine



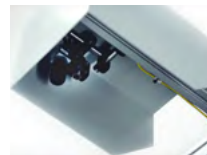
Precise placement



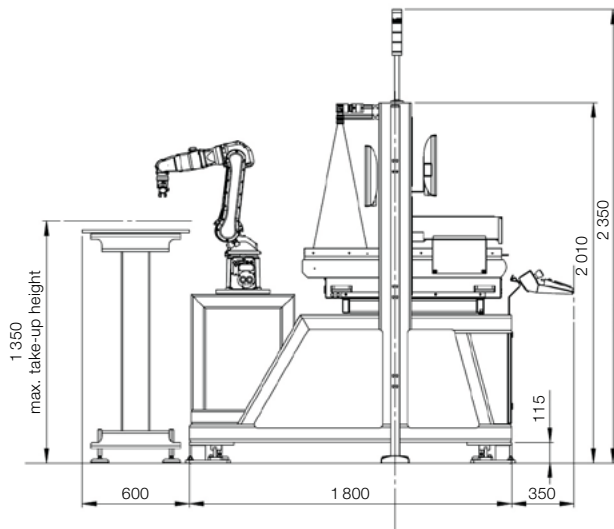
Gripper



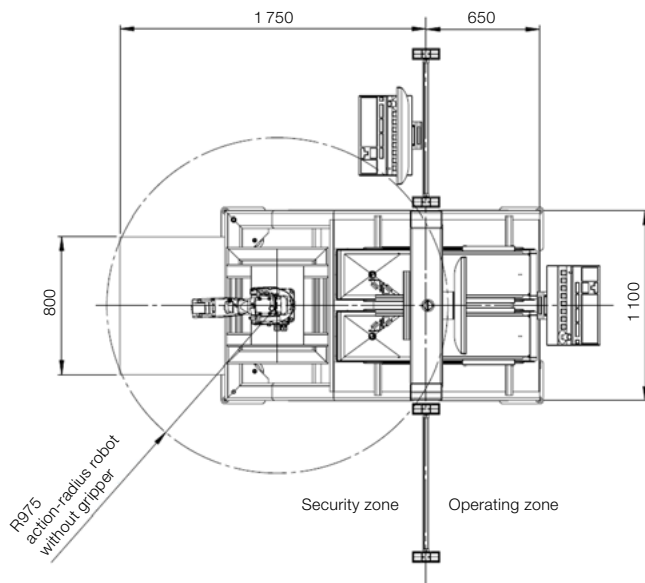
Robot camera



Dimensions



Footprint



Technical specifications

Machine dimensions L x B x H	1 800 x 1 150 x 2 530 mm
Machine weight	1 300 kg
Number of robots	1
Robot type	6-axis articulated arm
Feeder type	multi-action feeder
Number of feeders	2 – 4
Gripper	2-jaw gripper / vacuum sucker
Optional grippers	electric gripper (2 or 3 jaws)
Number of cameras for product recognition	2 – 4
Resolution of the standard camera	5 megapixel (2 588 x 1 940 pixels)
Illumination	LED backlighting
Illuminated area	240 x 320 mm ²
Cycle time	depends on component
Max. testing precision (without calib. cam)	S = +/- 0.13 mm
Part materia	electrolytic capacitors, connectors, switches, wire clamps, etc.
Part dimensions	1 mm – 100 mm edge length
Part weight	max. 50 g with placement from bulk material, max. 1 kg with placement from magazines
Part transfer	by rotary table, slide-over unit or direct placement
Storage bin (standard version)	10 l / 10 kg
Integration in external emergency stop circuit	integration is possible, emergency stop switchgear available
Enclosure	standard without enclosure – optionally with enclosure
Power supply	CEE plug 400 V / 16 A, compressed air 6 bar
Max. power rating	3.5 KW

Voith Group
Voith Robotics GmbH
Schleißheimer Str. 101
85748 Garching, Germany

www.voith.com

Contact:
voith-robotics@voith.com
www.voith-robotics.com



VOITH

Inspiring Technology
for Generations