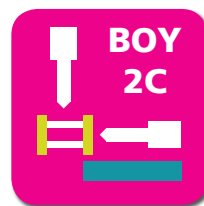


Handling



Procan® LR 5



Multi-Component



Made in Germany

Equipment

Standard

- Three servo-motor-driven linear axes
- Position accuracy $\pm 0,02$ mm
- Complex CNC-multi axes movement
- Modern, intuitive 10" operation hardware
- Control of external periphery
- Four freely programmable in- and outputs
- Pneumatic C-axis 0/90°
- Two vacuum circuits, alternative usable for gripper
- Electric / mechanic interfaces according to EUROMAP
- Electrical safety gate circuit with selection
- Individual protection housing with CE-conformity
- Documentation in German / English
- Warranty 24 months

Options

- Documentation of other languages
- Commissioning of a production cell consisting of injection moulding machine, handling system and protection housing
- Conveyor belt devices; additional supply with 16 A CEE socket required.
Specifications of the dimensions for the cutout area in the safety fence are absolutely necessary.
- Conveyor belt control, manual-removal switch and reflex light barriers
- Additional gripper- and vacuum functions; expendable in summary up to 8 pneumatic circuits (e.g. for the control of peripheral equipment)
- Up to 8 additional free programmable Inputs / Outputs
- Pneumatic B-axis 0° to 180°, adjustable (Rotation around Y-axis)

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Subject to design and equipment modifications



Product Range

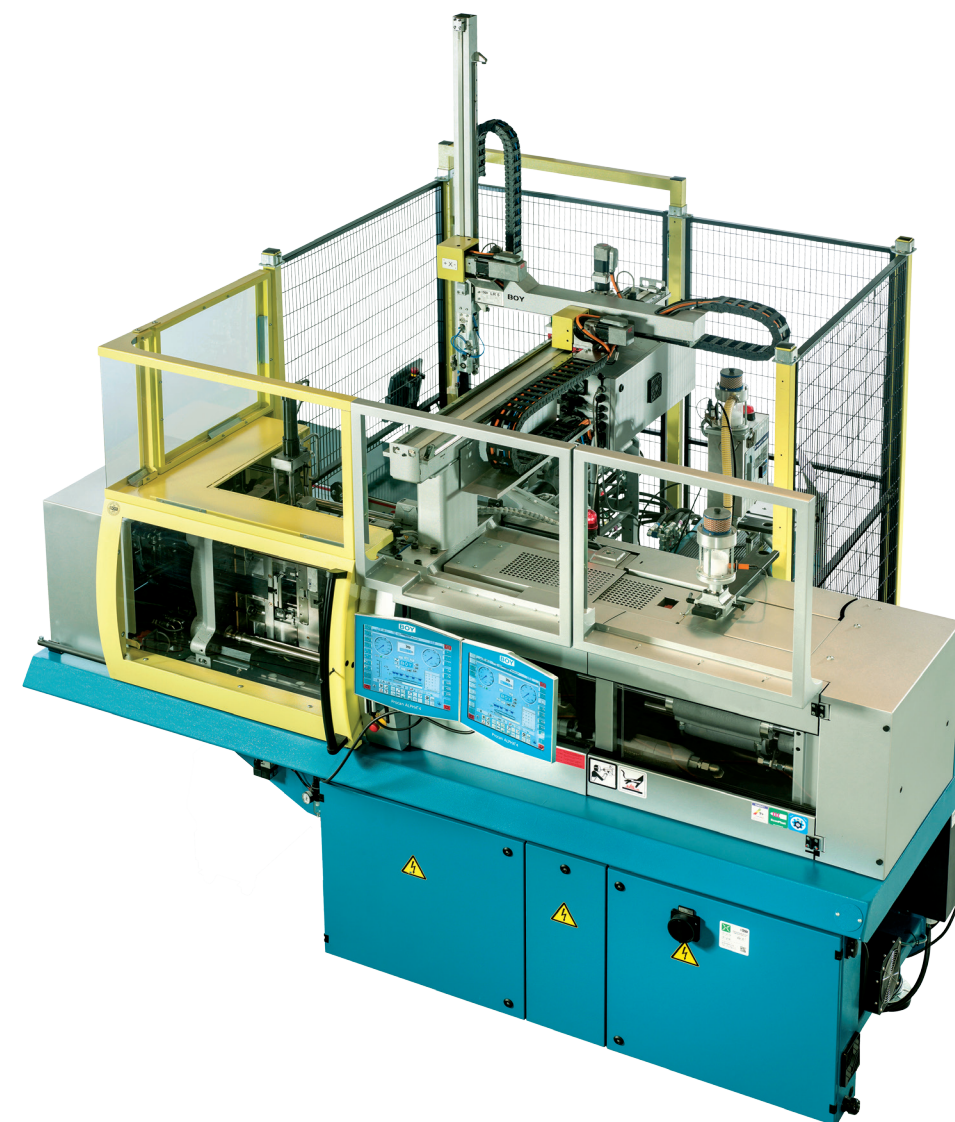


Competence Brochure

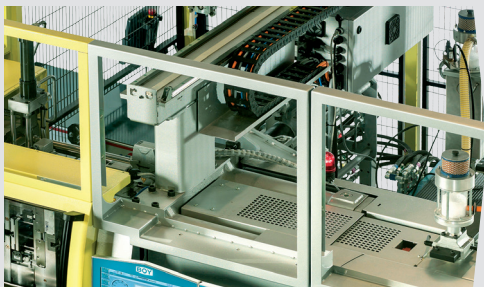
You would like to learn more about the BOY injection moulding machines?



Innovative into the Future – BOY-Injectionneering



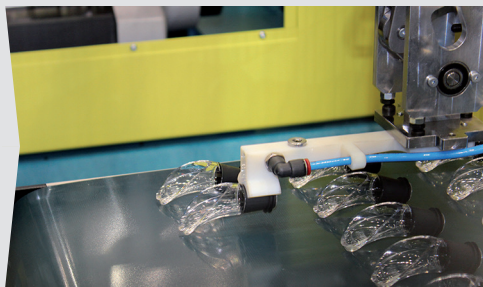
Handling LR 5



Assembly of the BOY-Handling LR5 onto the injection moulding machine



Mobile 10" terminal with cabled emergency operation and enabling switches



A gripper hand - turned around by 90°- places the moulded parts on a conveyor belt

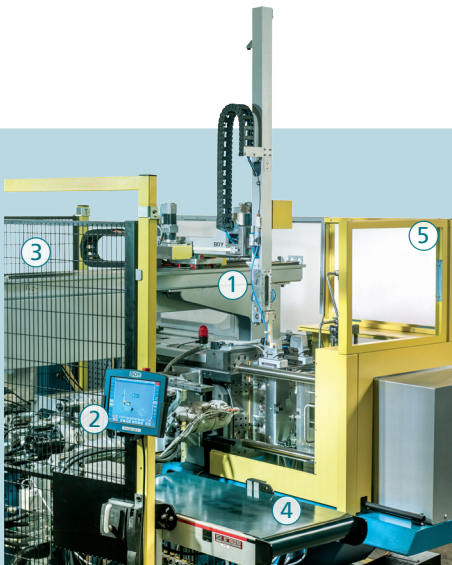
The **BOY LR5** is a linear robot. This handling device is intended to **remove** and **separate** parts from the mould of an injection moulding machine or to **insert** semi-finished products into the mould.

The BOY LR5 has three **linear axes** as well as pneumatic **rotary-** and **swivel** axes. The linear axes are servo-motor-driven by a tooth belt. Grippers for the removal of moulded parts or gating parts are fixed at the pneumatic axes.

Long-term measurements to determine the **repeatability of the position** evidence a deviation of the nominal target of **less than ± 0.02 mm** of the respective axes.

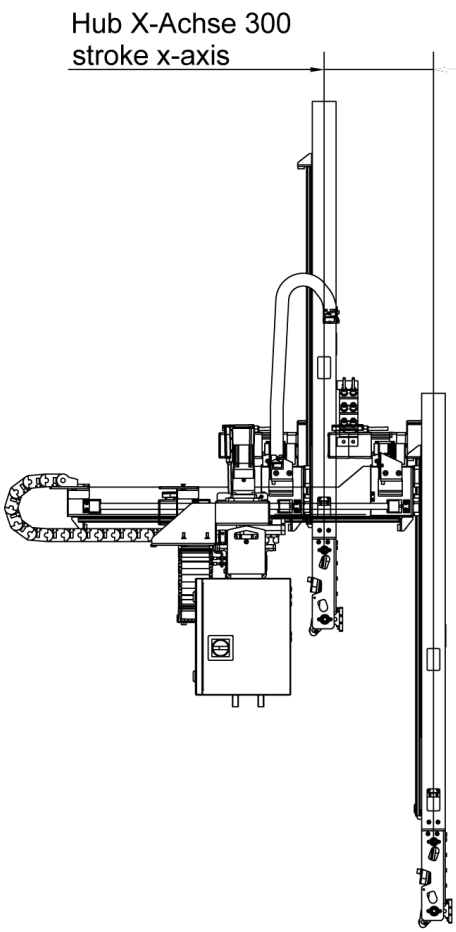
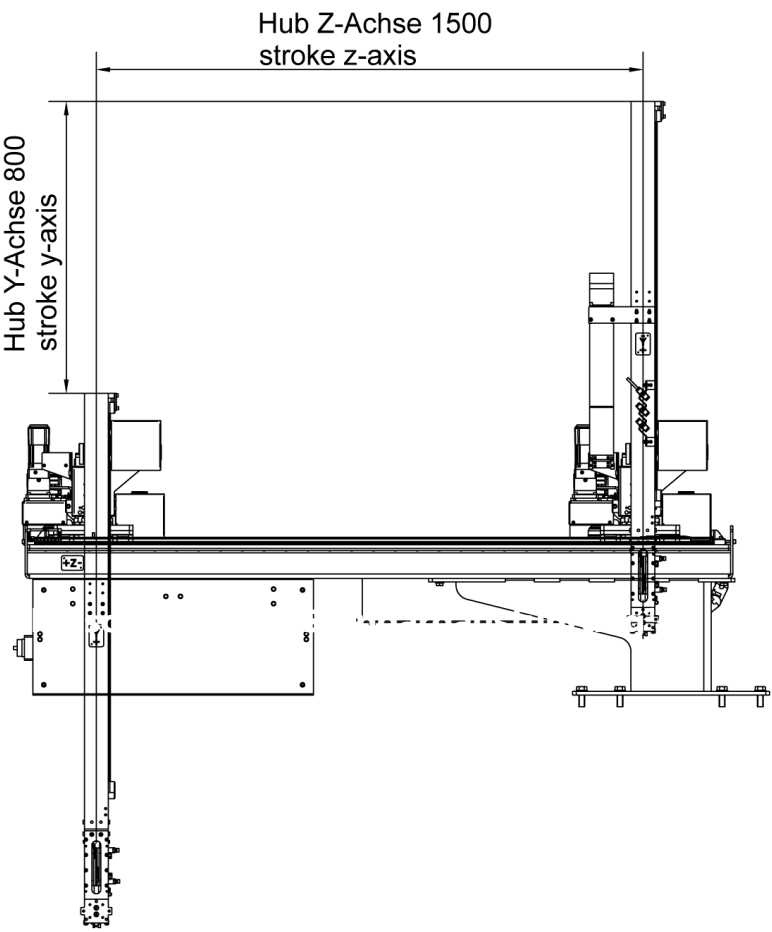
According to the valid **machine guidelines**, this handling system BOY LR5 is considered as an "incomplete machine part". The intended operation is therefore only possible in combination with an injection moulding machine.

If the handling LR5 is operated **without a BOY injection moulding machine**, the operator must observe the **binding standards** and **guidelines** (e.g. item 5 in the picture below).



- 1 Five-axes-industrial robots in different axis lengths, positioned on the frame of the injection moulding machine.
- 2 10" TFT-Display Procan LR5 with graphical input function for an easy control /programming of the handling.
- 3 CE-compliant protection housing from solid, powder-coated metal and monitored access door.
- 4 Optional conveyor belt with manual removal switch and reflex light barriers.
- 5 Individual protection housing, adapted to the injection moulding machine.

- Five-axes-industrial robot
- Integrated rotating and swivel function possible
- Load bearing capacities up to 5 kg
- Graphical programming



Effective load (part and gripper)	kg	max. 5,0
X-axis – demoulding stroke	mm	300 / 500
X-axis – speed	m/s	1.1
Y-axis – vertical stroke	mm	600 / 800 / 1000 / 800 Telescope
Y-axis – speed	m/s	2.0
Z-axis – stroke	mm	950 / 1100 / 1500
Z-axis – speed	m/s	1.5
Position accuracy	mm	< $\pm 0,02$
C-axis – hinged axis		0° up to 90°
C-axis – pneumatic torque	Nm	24
B-axis		0° up to 180° adjustable
B-axis – pneumatic torque	Nm	2.2
Vacuum / Gripping function		2
Electric / Mechanic interface		EM 78 / EM 67 / EM 18
Connected load according to DIN IEC38		400 V AC, 50 Hz, 16A

Italicized printed data are optional dimensions