

RoboTrex Compact

Product type:

Automation System

Product description:

RoboTrex Compact is an automation system that has been specially developed for the unmanned production of small workpieces weighing up to 7 kg. The latest automation solution from LANG Technik is even more compact than the well-known RoboTrex automation system and offers space for up to 100 vises in its storage rack on a footprint of two square meters. The pre-programmed automation system is a plug-and-play solution that ensures fast installation and

commissioning. Thanks to various loading options via the machine door or a side window, the system can be easily connected to almost any machine tool. Like the other automation systems from LANG Technik, RoboTrex Compact is characterized by user-friendly operation that requires no specialist knowledge.

Primary field of application:

- Automated, unmanned production
- Single parts up to medium series sizes
- Workpieces up to 7 kg

Benefits:

- High storage capacity on a small footprint
- Extremely simple operation, no robot knowledge required
- Minimum time required for setting up and equipping the system

Technical data

Storage capacity:

100 x Makro-Grip® 46 Micro, or
50 x Makro-Grip® 77

Max. workpiece size:

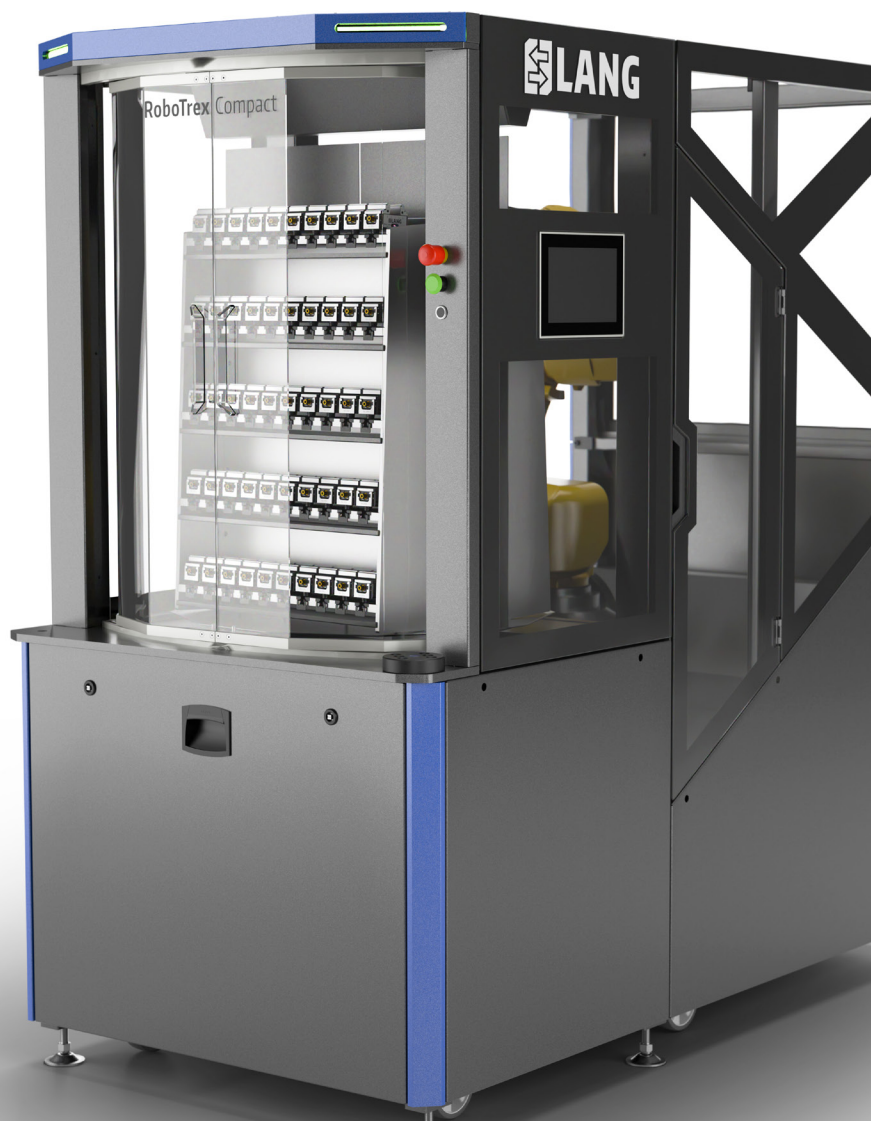
65 x 50 x 95 mm (100 pcs.)
120 x 100 x 80 mm (50 pcs.)

Robot type:

Fanuc M-10iD-16s

Dimensions:

2.000 x 1.050 x 2.000 mm



Availability: **Early 2025**

Makro-Grip® Aero

Product type:

Automatic workpiece clamping system

Product description:

Makro-Grip® Aero is an automatic workpiece clamping system for milling. This pneumatic system consists of a stamping unit and matching 5-Axis Vises that combine the advantages of stamping technology with a part handling system, benefiting the field of automated production. With Makro-Grip® Aero, users can map the complete manufacturing process of a component from the raw cut stock to the finished product without employee intervention.

Primary field of application:

- Automated part handling
- Form-fit clamping via holding serration
- Plain clamping via frictional force
- Rectangular, cylindrical and unshaped parts
- 1st clamping operation, raw part machining
- 2nd clamping operation, finish machining

Benefits:

- No employee intervention during the work process
- Higher holding forces compared to pneumatic vises from the competition due to form-fit clamping principle
- Highest process reliability thanks to consistent clamping quality

Availability: 2025



Makro-Grip® Aero flex 5-Axis Vise

Dimensions: 192 x 160 x 128 mm
Jaw width: 77 mm
Clamping range: 20 - 160 mm
Zero point grid: Quick-Point® 96
Total stroke: 4 mm
Clamping force: 14 kN at 6 bar
Activation: pneumatic
Weight: 15.3 kg

Miscellaneous:

- Safety mechanism against pressure drop
- Progressive clamping range adjustment
- Flexible connection for easy adaptability
- Available jaw types: Makro-Grip® and Avanti

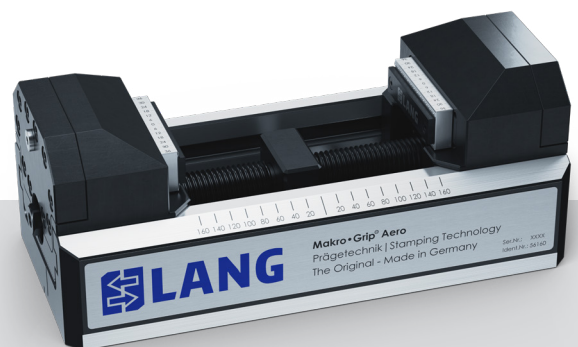


Makro-Grip® Aero 5-Axis Vise

Dimensions: 130 x 77 x 87 mm
Jaw width: 77 mm
Clamping range: 0 - 120 mm
Zero point grid: Quick-Point® 52
Total stroke: 4 mm
Clamping force: 7.7 kN at 6 bar
Activation: pneumatic
Weight: 4.6 kg

Miscellaneous:

- Safety mechanism against pressure drop
- Gripper interface for automation
- Fully encapsulated spindle
- Available jaw types: Makro-Grip® and Avanti



Makro-Grip® Aero Prägestation

Dimensions: 340 x 156 x 134 mm
Jaw width: 77 mm
Stamping range: 0 - 160 mm
Total stroke: 6 mm
Stamping power: 100 kN
Activation: pneumatic-hydraulic
by power multiplier
Weight: 31.5 kg

Miscellaneous:

- Centric pre-stamping
- Easy stamping range adjustment
- Automatic stamping range adjustment possible