Komponenten für
Zerspanungsmaschinen

FLEX-ROC

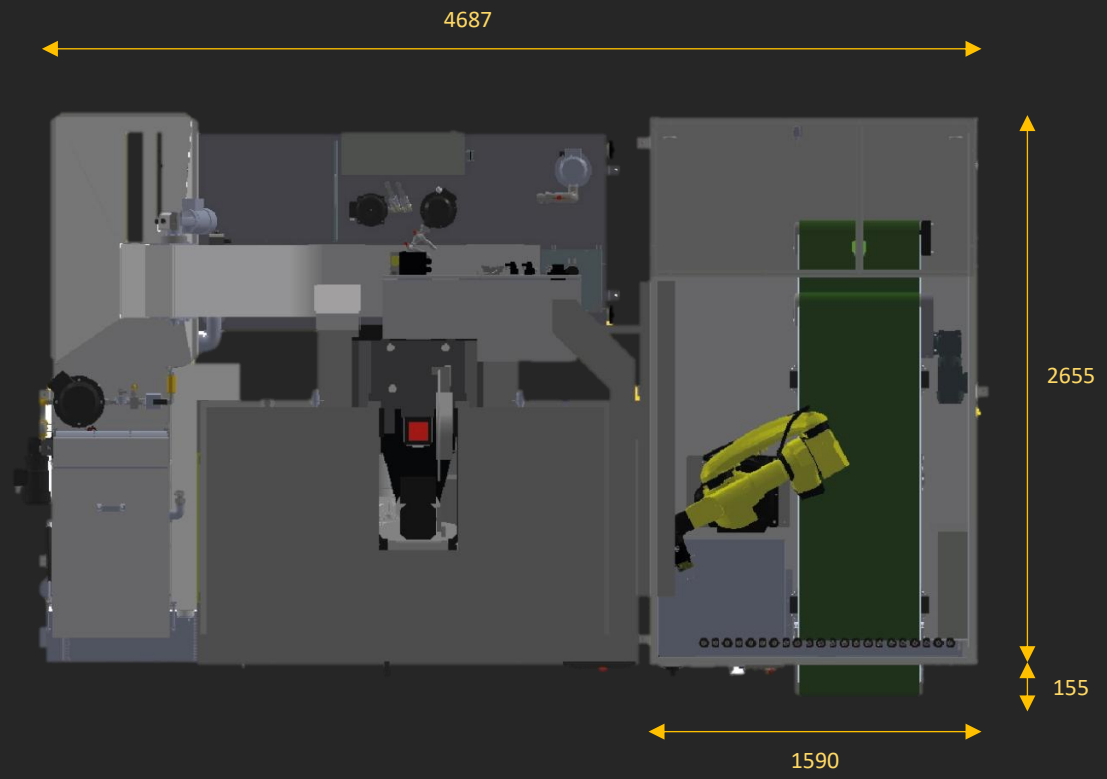
THE AUTOMATION CELL FOR FANUC ROBODRILL

Features:

- Expansion of the tool magazine to 64 tools
- Robot operation integrated into machine control
- Camera recognition of workpieces, eliminating the need for pallet inserts
- Integrated gripper changer
- Easy installation thanks to solid foundation frame (no doweling necessary)
- Extremely compact design
- Graphical user aids for tool magazine,
- service life, replacement tools, tool and workpiece measurement
- Integrated job manager containing all machining data

Fanuc Robodrill and FLEX-ROC cell form a compact unit

Space-saving & energy-efficient

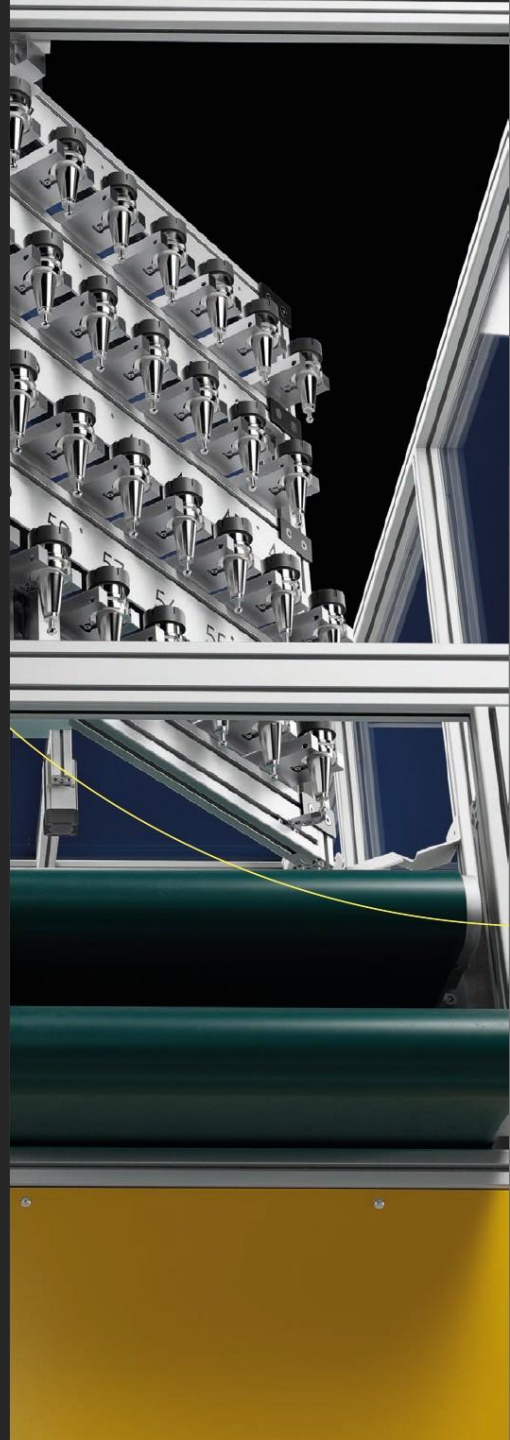


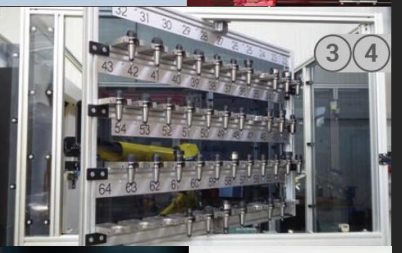
TECHNICAL DATA
FLEX-ROC CELL

- Fanuc M10 ID/L robot
- 2 change positions for gripper
- Max. part weight 8 kg
- Max. workpiece size 230 x 150 x 150 mm (adjustments for other sizes are possible)
- Parts conveyor belt 1700 x 580 mm
- Max. number of tools 64
- Connected load 4.5 KVA
- Weight 1,700 kg

TECHNICAL DATA
FANUC ROBODRILL

- Travel distances X-Y-Z 700x400x330 mm
- Main spindle speed max. 24,000 rpm
- Tool holder BT30 with Big Plus
- Drive power 26 kW (1 minute)
- Tool change time 1.6 sec. (chip to chip)
- Connected load 20 kVA
- Weight approx. 2,500 kg





Space-saving & energy-efficient

1. Raw part detection via 2D camera and red light for increased contrast
2. No exact part alignment required
3. Tool capacity expanded to 64 tools
4. Additional magazine with optimal tool loading and unloading; tool change possible during machining.
5. Standard gripper changer between tool gripper and workpiece gripper
6. Fanuc M-10 robot in new design, high speed and extreme dynamics
7. Easy loading of raw parts without positioning aid

Simple & structured

EASY NAVIGATION THROUGH MAIN MENUS IN THE FORM OF APPS

a. Simple overview of tool statuses
b. Tool movements between magazines are always clearly visualized
c. Clearly structured tool management for tool statuses and service lives.
d. Order job contains all data required for production, such as program, zero points, robot loading information, etc.
e. Renishaw measuring cycles integrated directly into the control system.
f. Automatic tool breakage control and measurement can be activated without interfering with the CNC program
g. Up to four clamping points and two clamping pressure levels can be visualized.
h. Robot operation can be carried out directly via the Robodrill control system.
i. Integrated vision browser on the Robodrill control system.
j. Loading positions for robots can be set via a dedicated app.