

QC1



EN-2026

Automatic Manipulator for CNC Machines



In the Afternoon, at Night, or over The Weekend

Use the idle time of your CNC machines for stable and efficient production of small and medium batches. Compact and reliable automation that integrates easily into your production.



Use CNC idle time

Higher productivity
without adding shifts



Small batches without unnecessary complexity

Fast deployment,
simple operation



Ready for unattended operation

Reliable operation
evenings and weekends

Key Parameters



1.85 m²

footprint



25 kg

max. part weight



37 + 1

positions for blanks
and finished parts



240 × 180 × 200 mm

max. part size



2 days

installation and
commissioning



5–500 pcs

typical batch size

Who QC1 Is For



For workshops with
one
or more CNC
machines



For companies that
work
afternoons, nights
and weekends



For small
and medium batches

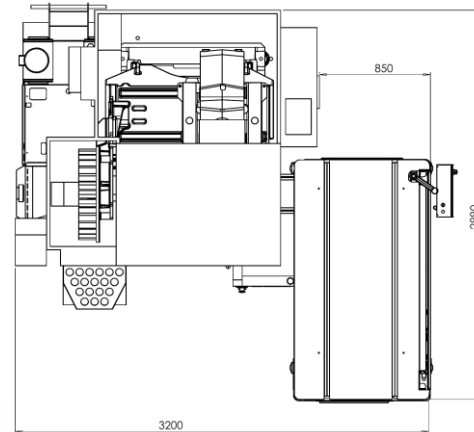
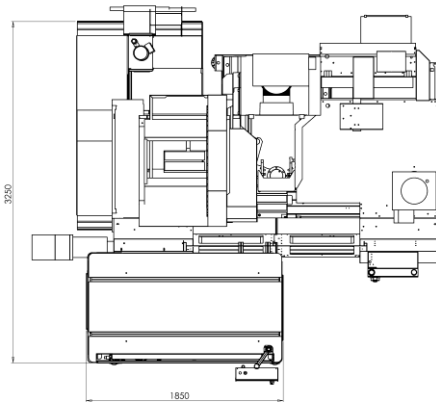
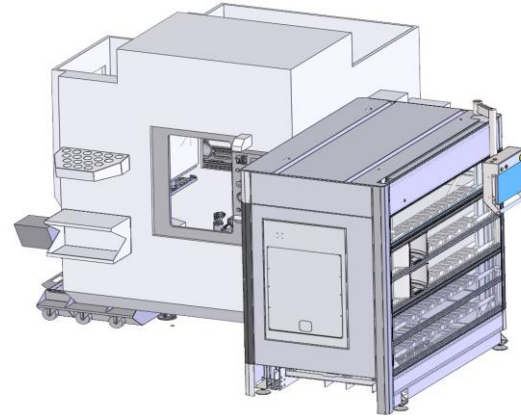
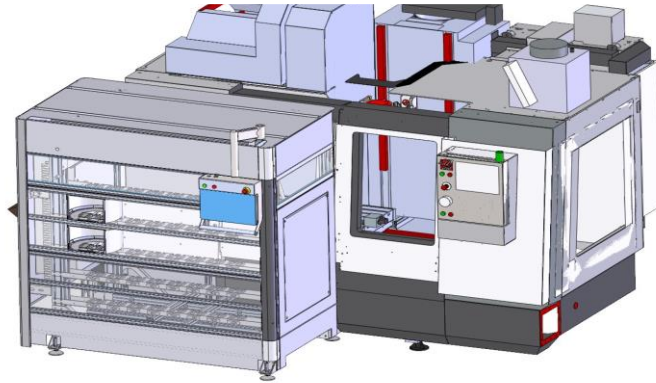


For fast automation
without a complex
project

Compatible CNC machines

Haas VF-2
Haas VF-3
Haas VF-4
Haas UMC-500
and more ...

QC1 Installation Solution



Key Components

Proven industrial technologies for reliable operation.

01

25 kg robot arm
Cabra
Automation

02

Rack
manipulator
Cabra
Automation

03

Control: Modbus
+ SW
Cabra
Automation

04

Windows 11
Professional

05

15.6" industrial
touchscreen
display

06

Spinea-Timken
gearbox

07

Leadshine
motors

08

Ball screws /
linear guides
Hiwin / THK

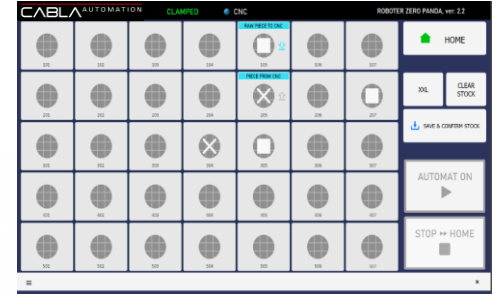
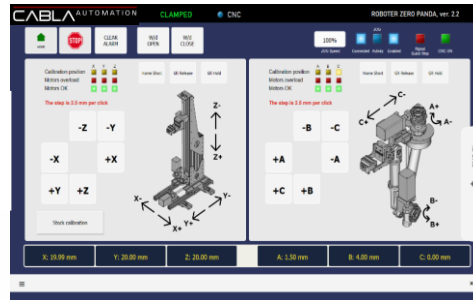
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Gripper
Schunk + SMC

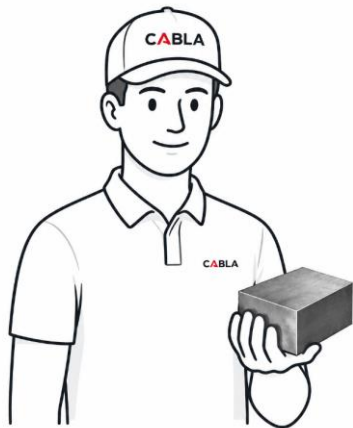
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Alutek
frame system

Intuitive interface for operation and setup



From Part Loading to Autonomous Operation



Operator

Has blanks ready for production.



MT3 Self-Centering Vise

Fast and repeatable clamping of the blank for the first operation.

Modular Clamping

For parts that require a custom fixture or negative.



Operator Fills the Rack



Prepared blanks or fixtures wait to be loaded into the CNC.

Autonomous Operation

Once the rack is filled, the cell works independently in the afternoon, at night, and over the weekend.



Part dimensions are checked by the touch probe in the CNC.



The last finished part is marked in the rack for easy measurement and possible offset correction.



Tool probes in the CNC monitor tool wear.



Self-centering vises allow the workpiece to be repeatedly loaded into the CNC machine.



SMS alert to the phone when QC1 status changes.



Result: reliable unattended operation without unnecessary complexity.



Inspection and repeated part loading take place directly in the machine.

cablacnc.com



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