

Committed to performance.
Dedicated to deliver.

UNIVERSAL BIG 35/70

- ✓ For turning and milling
- ✓ Long shafts option
- ✓ For loading heavy workpieces
- ✓ High capacity for workpieces with bigger dimensions
- ✓ Set up in less than 5 minutes
- ✓ Preparing new batch while robot is running

FEATURES

System

Rigid industrial construction
Rotating loading table
Full enclosure and protection
Movable
Placed on 3-point self-centering anchors
Fanuc 6-axis robot arm
Drip tray for leaking coolant
Workpiece side-gripping station
Workpiece turn-around station for two-sided machining
Status light
Standard robot-machine interface for every CNC machine

HALTER SmartControl

Intuitive and graphical programming in 12 steps
Touch screen
Free choice of pre-installed language
Input can be entered in inches or mm
Software analysis for machine utilization
Automatic program storage
Max. number of CNC machines to connect with

✓
✓
✓
by 5 t forklift truck, crane
✓
35 kg / 70 kg
✓
Option
Option
Option
✓
✓
21 inch
✓
✓
✓
✓
4

HALTER SmartControl standard functionalities

Positioning workpiece in machine vice with soft push function
Workpiece turn-around function for two-sided machining
Workpiece regripping for accurate positioning
Unload-only function in combination with bar feeder
Inside and outside gripping
Workpiece loading in chuck with or without pressure star
Adjusting airflow distance
Working with spindle orientation of the CNC machine
Eccentric loading and unloading
Robot park positioning button

✓
✓
✓
✓
✓
✓
✓
✓
✓
✓

HALTER SmartControl enables the following optional functionalities

Unloading workpiece on pallet
Unloading workpiece on external fixed position, e.g. conveyor belt
Unloading of residual material
Collecting a workpiece from a revolver tool
Cleaning of workpiece outside the CNC machine
Positioning workpiece on measuring station
Removal of rejected workpieces
Workpiece side-gripping
Radial positioning of the workpiece in the chuck
Customer-specific functionalities

Option
Option
Option
Option
Option
Option
Option
Option
Option
On request



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Grippers

2-finger gripper for rectangular workpieces	Option
3-finger gripper for round workpieces	Option
2-finger gripper for long shafts	Option
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
Quick change system for exchanging grippers	Option
Quickly adjustable gripper fingers	✓
Workpiece-specific gripper fingers	Option
Pressure sensor on the robot arm monitors air pressure	✓

Safety

In-machine-space function	✓
Fanuc DCS area in combination with the Sick floor scanner	✓
Sliding door provided with safety sensors	✓
Autom. servo-driven door opener with integrated safety mechanism	Option
Closed safety circuit	✓

Input

Voltage	400 V
Peak consumption	16 A / 32 A
Compressed air pressure	6 bar

Dimensions

Length	2800 mm
Width	2250 mm
Height	2220 mm
Total weight	2490 kg / 2800 kg

Capacity

Workpiece diameter (min-max)	10 mm – 300 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	300 mm x 300 mm
Maximum height of workpiece	300 mm
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Max. number of workpieces for grid plate 10-35 mm	320
Max. number of workpieces for grid plate 23-55 mm	220
Max. number of workpieces for grid plate 23-85 mm	120
Max. number of workpieces for grid plate 23-115 mm	82
Max. number of workpieces for grid plate 23-135 mm	44
Max. number of workpieces for grid plate 23-175 mm	28
Max. number of workpieces for grid plate 23-195 mm	24
Max. number of workpieces for grid plate 23-230 mm	18
Max. number of workpieces for grid plate 23-300 mm	10
Workpiece-specific grid plates	Option

Capacity for long shafts

Workpiece diameter (min-max)	10-40 mm / 10-80 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	40x40 mm / 80x80 mm
Maximum height of workpiece	450 mm / 800 mm
Maximum weight of workpiece (turning)	8 kg / 30 kg
Maximum weight of workpiece (milling)	8 kg / 23 kg
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Max. number of workpieces for grid plate 10-35 mm	320
Max. number of workpieces for grid plate 23-55 mm	220
Max. number of workpieces for grid plate 23-85 mm	120

BENEFITS

The HALTER LoadAssistant offers enormous advantages for your business. The experience from the users of the HALTER LoadAssistant shows us that this investment can be repaid very quickly (6-18 months).

- ✓ You realize extra output because the actual spindle hours no longer exclusively depend on the regular working hours. Also within regular working hours you realize more output, because the robot has no breaks or downtime.
- ✓ You can better respond to small or unexpected orders, because of the quick set-up time of the CNC robot cell and because it can also be run outside regular working hours.
- ✓ Decrease of hourly production costs, because the labor costs of an operator are 5 to 8 times higher than the depreciation costs of the HALTER LoadAssistant robot cell.

WORKPIECE-SPECIFIC SOLUTIONS

Halter's application engineering team can design grid plates and special gripper fingers for your specific workpieces.



HALTER
CNC AUTOMATION

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HALTER PORTFOLIO

The solutions that we offer ensure you can automate the production of a wide variety of workpieces.
Discover our models and the different types below.

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COMPACT 12
TURNING/MILLING

- ✓ Long shafts option
- ✓ Smallest footprint
- ✓ Easily moved from one CNC machine to another

PREMIUM 20/35
TURNING/MILLING

- ✓ Most versatile system on the market
- ✓ Easily moved from one CNC machine to another
- ✓ Set up in less than 5 minutes

BIG 35/70
TURNING/MILLING

- ✓ Long shafts option
- ✓ For loading heavy workpieces
- ✓ High capacity for workpieces with bigger dimensions

Payload	Payload	Payload
12 kg	20 kg / 35 kg	35 kg / 70 kg
Max. workpiece size	Max. workpiece size	Max. workpiece size
135 mm x 135 mm	270 mm x 270 mm	300 mm x 300 mm
Ø 135 mm	Ø 270 mm	Ø 300 mm
Max. workpiece length	Max. workpiece length	Max. workpiece length
150 mm	250 mm	300 mm
Optional workpiece length (long shafts)	Optional workpiece length (long shafts)	Optional workpiece length (long shafts)
250 mm	450 mm	800 mm

TURNSTACKER



COMPACT 12
TURNING

- ✓ High capacity for diameters up to 160 mm
- ✓ Smallest footprint
- ✓ Easily moved from one CNC machine to another

PREMIUM 20/35
TURNING

- ✓ High capacity for diameters up to 230 mm
- ✓ Easily moved from one CNC machine to another

BIG 35/70
TURNING

- ✓ For loading heavy workpieces
- ✓ High capacity for diameters up to 300 mm

Payload	Payload	Payload
12 kg	20 kg / 35 kg	35 kg / 70 kg
Max. workpiece size	Max. workpiece size	Max. workpiece size
Ø 160 mm	Ø 230 mm	Ø 300 mm
Max. workpiece length	Max. workpiece length	Max. workpiece length
175 mm	175 mm	225 mm

MILLSTACKER



COMPACT 12
MILLING

- ✓ High capacity for workpieces up to 200 mm
- ✓ Smallest footprint
- ✓ Easily moved from one CNC machine to another

PREMIUM 20/35
MILLING

- ✓ High capacity for workpieces up to 300 mm
- ✓ Easily moved from one CNC machine to another

BIG 35/70
MILLING

- ✓ For loading heavy workpieces
- ✓ High capacity for workpieces up to 400 mm

Payload	Payload	Payload
12 kg	20 kg / 35 kg	35 kg / 70 kg
Max. workpiece size	Max. workpiece size	Max. workpiece size
125 mm x 125 mm	180 mm x 180 mm	250 mm x 250 mm
50 mm x 200 mm	80 mm x 300 mm	100 mm x 400 mm
Max. workpiece length	Max. workpiece length	Max. workpiece length
175 mm	175 mm	225 mm