

Committed to performance.
Dedicated to deliver.

UNIVERSAL PREMIUM 20/35

- ✓ For turning and milling
- ✓ Long shafts option
- ✓ Most versatile system on the market
- ✓ Easily moved from one CNC machine to another
- ✓ 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	by pallet truck
Placed on 3-point self-centering anchors	✓
Fanuc 6-axis robot arm	20 kg / 35 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turn-around station for two-sided machining	Option
Status light	Option
Standard robot-machine interface for every CNC machine	✓

HALTER SmartControl

Intuitive and graphical programming in 12 steps	✓
Touch screen	15 inch
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	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	Option
Unloading workpiece on external fixed position, e.g. conveyor belt	Option
Unloading of residual material	Option
Collecting a workpiece from a revolver tool	Option
Cleaning of workpiece outside the CNC machine	Option
Positioning workpiece on measuring station	Option
Removal of rejected workpieces	Option
Workpiece side-gripping	Option
Radial positioning of the workpiece in the chuck	Option
Customer-specific functionalities	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	✓
Standard safety fence between CNC machine and the Halter	✓
Autom. servo-driven door opener with integrated safety mechanism	Option
Closed safety circuit	✓

Input

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

Dimensions

Length	1750 mm
Width	1434 mm

Height	2220 mm
Total weight	1110 kg / 1120 kg

Capacity

Workpiece diameter (min-max)	10 mm - 270 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	270 mm x 270 mm
Maximum height of workpiece	250 mm
Maximum load capacity robot arm	20 kg / 35 kg
Maximum total weight on rotating table	500 kg / 750 kg
Max. number of workpieces for grid plate 10-35 mm	176
Max. number of workpieces for grid plate 23-55 mm	136
Max. number of workpieces for grid plate 23-85 mm	68
Max. number of workpieces for grid plate 23-115 mm	40
Max. number of workpieces for grid plate 23-135 mm	24
Max. number of workpieces for grid plate 23-175 mm	18
Max. number of workpieces for grid plate 23-195 mm	14
Max. number of workpieces for grid plate 23-230 mm	10
Max. number of workpieces for grid plate 23-270 mm	6
Workpiece-specific grid plates	Option

Capacity for long shafts

Workpiece diameter (min-max)	- / 10 mm - 40 mm
Minimum workpiece (L x W)	- / 10 mm x 10 mm
Maximum workpiece (L x W)	- / 40 mm x 40 mm
Maximum height of workpiece	- / 450 mm
Maximum weight of workpiece (turning)	- / 8 kg
Maximum weight of workpiece (milling)	- / 8 kg
Maximum load capacity robot arm	- / 35 kg
Maximum total weight on rotating table	- / 750 kg
Max. number of workpieces for grid plate 10-35 mm	- / 160
Max. number of workpieces for grid plate 23-55 mm	- / 130
Max. number of workpieces for grid plate 23-85 mm	- / 64

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

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

PREMIUM 20/35
TURNING/MILLING

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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