

Committed to performance.
Dedicated to deliver.

UNIVERSAL BIG 35/70

- ✓ For turning and milling
- ✓ Shaft handling
- ✓ 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 turnover 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



HALTER SmartControl standard functionalities

Positioning workpiece in machine vice with

soft push function

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

Workpiece turnover function for two-sided machining

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

Shaft handling

Customer-specific functionalities



Option

Option

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 shaft handling	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	6,5 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
Height of workpiece (min - max)	10 mm - 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	206
Max. number of workpieces for grid plate 23-85 mm	112
Max. number of workpieces for grid plate 23-115 mm	66
Max. number of workpieces for grid plate 23-135 mm	52
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 shaft handling

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)	40 x 40 mm / 80 x 80 mm
Height of workpiece (min - max)	300 mm - 450 mm / 300 mm - 600 mm
Maximum weight of workpiece	4,5 kg / 24 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	206
Max. number of workpieces for grid plate 23-85 mm	112

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

T +31 88 015 74 00 • info@haltercnc.com

www.haltercncautomation.com