

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	by 5 t forklift truck, crane
Placed on 3-point self-centering anchors	✓
Fanuc 6-axis robot arm	77 lbs / 154 lbs
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turnover 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	21 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 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	Option
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
Shaft handling	Option
Customer-specific functionalities	On request



# UNIVERSAL BIG 35/70

## 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	✓
Airflow 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	208 V
Peak consumption	30 A / 60 A
Compressed air pressure	94.3 psi

## Dimensions

Length	110.23"
Width	88.58"
Height	87.4"
Total weight	5489 lbs / 6172 lbs

## Capacity

Workpiece diameter (min - max)	.39" - 11.81"
Minimum workpiece (L x W)	.39" - .39"
Maximum workpiece (L x W)	11.81" - 11.81"
Height of workpiece (min - max)	0.39" - 11.81"
Maximum load capacity robot arm	77.61 lbs / 154 lbs
Maximum total weight on rotating table	6613 lbs
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)	.39 - 1.57" / .39 - 3.14"
Minimum workpiece (L x W)	.39-.39"
Maximum workpiece (L x W)	.39 - .39 / 3.14 - 3.14"
Height of workpiece (min - max)	11.81" - 17.71" / 11.81" - 23.62"
Maximum weight of workpiece	9.92 lbs / 52.91 lbs
Maximum load capacity robot arm	17.64 lbs / 50.70 lbs
Maximum total weight on rotating table	6613 lbs
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

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