



**HALTER**  
CNC AUTOMATION

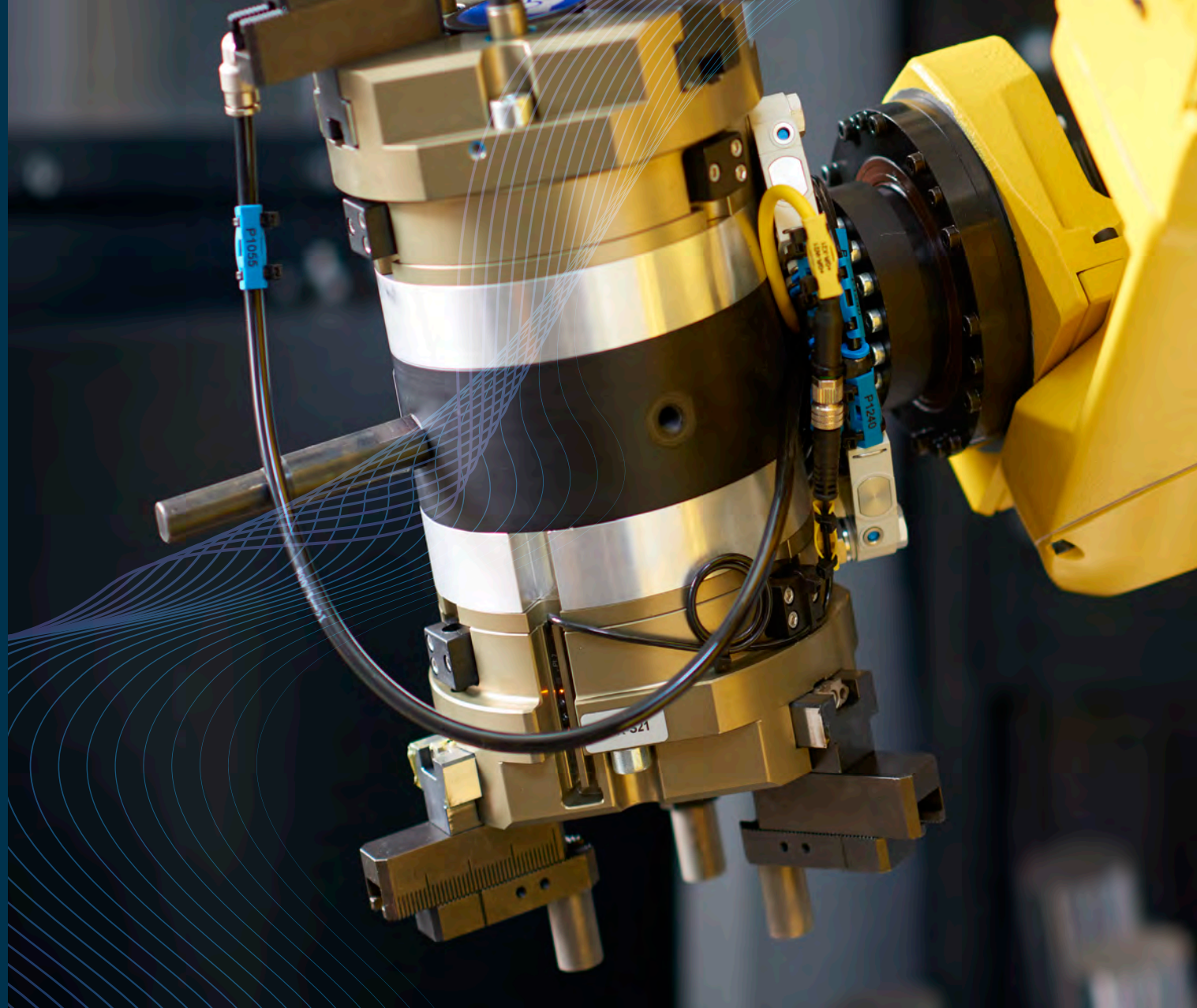


**Committed  
to performance.  
Dedicated to  
deliver.**





THE HALTER LOADASSISTANT IS  
SIMPLE AND READY TO USE AND IT  
CAN BE CONNECTED TO ANY NEW  
OR EXISTING CNC MACHINE.





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## IMMEDIATELY INCREASE PROFITS WITH A HALTER LOADASSISTANT

The market conditions for your company in the machining sector have changed considerably in recent years. Your customers have become much more demanding. They expect you to supply at competitive prices, but they also demand smaller batch sizes and shorter delivery times. At the same time you have to deal with rising labor costs and a lack of CNC operators. You need these operators for skilled labor, not simple repetitive jobs. You can overcome these challenges by choosing the right HALTER automation solution. We offer a wide range of HALTER LoadAssistants which substantially increase the production capability of your CNC machine. 95% of our customers achieve ROI in less than 18 months.

For small and medium-sized batches you need a system with short set-up times and fast integration processes. HALTER CNC Automation has developed the HALTER LoadAssistants for this, based on its many years of experience in the machining industry and production automation. The all-in-one Universal (for turning and milling), the TurnStacker and the MillStacker. Compact, Premium and Big. Available with a 12 kg, 25 kg, 35 kg or 70 kg robot arm.

## EASY-TO-USE LOADING SYSTEM WITH SHORT SET-UP TIMES

It is a smart and well-thought-out system and it does exactly what it is designed to do: load your CNC machine with small and medium-sized batches. The system is very fast to set up and you don't need any knowledge about robots to operate it.

Would you like to immediately increase your profits as many other companies have already done in more than 25 countries worldwide? Do you want to invest in a system that will provide years of trouble-free loading of your CNC machines, even with smaller batch sizes? Then choose the HALTER LoadAssistant and get in touch with us today!

Call: 800-314-8261 or send an e-mail to:  
[info@haltercncrobotics.com](mailto:info@haltercncrobotics.com)



METALWORKING COMPANIES INVESTING IN THE HALTER LOADASSISTANT IMMEDIATELY SEE AN INCREASE IN THEIR PROFIT MARGINS AND IN THE FLEXIBILITY OF THEIR PRODUCTION, EVEN WHEN PRODUCING SMALL AND MEDIUM BATCH SIZES.

A man with a beard and blue eyes, wearing a dark blue polo shirt, is looking directly at the camera with a focused expression. He is positioned in front of a large yellow industrial robot arm, which is part of a CNC automation system. The background is a dimly lit industrial environment with various mechanical components and a blue light source. The overall scene conveys a sense of precision and human-machine collaboration in manufacturing.

# HALTER CNC AUTOMATION



The HALTER LoadAssistant has been developed based on HALTER CNC Automation's more than 25 years of experience in the CNC machining world.

The mission of HALTER CNC Automation is to help metalworking companies become immediately more profitable, even in the production of batches from 10 to 1000 workpieces, by supplying accessible automatic-loading systems.

We are continuously working on the development, production, distribution and service of our products. We do this with a team of specialists and in cooperation with highly qualified suppliers and distributors. This allows our customers to rely on our high-tech, robust and reliable automation.

- FOR EVERY BRAND OF CNC MACHINE
- ALSO FOR YOUR EXISTING CNC MACHINE
- HIGH FLEXIBILITY IN WORKPIECE VARIATION
- WELL-THOUGHT-OUT CAPACITY SOLUTIONS
- SET UP IN LESS THEN 5 MINUTES
- NO EXPERIENCE WITH ROBOTICS IS REQUIRED
- COMPLETE PLUG-AND-PLAY SOLUTIONS
- EASILY MOVED FROM ONE CNC MACHINE TO ANOTHER
- DELIVERY WITH 12, 25, 35 OR 70 KG ROBOT

# HALTER LOADASSISTANT



HALTER LoadAssistant

## COMPACT 12

- ✓ Smallest footprint
- ✓ Easily moved from one CNC machine to another
- ✓ Set up in less than 5 minutes
- ✓ Preparing new batch while robot is running



	UNIVERSAL COMPACT 12 TURNING/MILLING	TURNSTACKER COMPACT 12 TURNING	MILLSTACKER COMPACT 12 MILLING
Pay load	26 lbs	26 lbs	26 lbs
Max. workpiece size	diameter 5.31"	diameter 6.30"	5.71" x 5.71" 1.57" x 7.87"
Max. workpiece height	5.91"	6.88"	6.88"
Optional workpiece height (shaft handling)	9.84"	-	-



# PREMIUM 25/35

- ✓ Most versatile system in the market
- ✓ Easily moved from one CNC machine to another
- ✓ Set up in less than 5 minutes
- ✓ Preparing new batch while robot is running



# BIG 35/70

- ✓ High capacity for workpieces with large dimensions
- ✓ For loading heavy workpieces
- ✓ Set up in less than 5 minutes
- ✓ Preparing new batch while robot is running



	UNIVERSAL PREMIUM 25/35 TURNING/MILLING	TURNSTACKER PREMIUM 25/35 TURNING	MILLSTACKER PREMIUM 25/35 MILLING
Pay load	55 lbs / 77 lbs	55 lbs / 77 lbs	55 lbs / 77 lbs
Max. workpiece size	10.63"	9.06"	3.54" x 11.02"
Max. workpiece height	9.84"	6.89"	6.89"
Optional workpiece height (shaft handling)	- / 17.71"	-	-

	UNIVERSAL BIG 35/70 TURNING/MILLING	TURNSTACKER BIG 35/70 TURNING	MILLSTACKER BIG 35/70 MILLING
Pay load	77 lbs / 154 lbs	77 lbs / 154 lbs	77 lbs / 154 lbs
Max. workpiece size	11.81"	11.81"	9.84" x 9.84" / 3.39" x 15.74"
Max. workpiece height	11.81"	8.85"	8.85"
Optional workpiece height (shaft handling)	23.62"	-	-

# THE EASY WAY TO AUTOMATE YOUR CNC MACHINE

Worldwide, in more than 25 countries, hundreds of HALTER LoadAssistants have already been delivered and are being used by fully satisfied customers. Thanks to the proven, high-quality technology and the support from our consultants, the production process is further automated and optimized. In 95% of the cases our customers achieve a return of investment of less than 18 months.



Watch the videos on our website to see how it works: [www.haltercncautomation.com](http://www.haltercncautomation.com)



## 1. HALTER SmartControl

- No robotics experience required
- Set-up ready in 12 steps
- Very flexible: easy to add new functionalities
- Set-up takes less than 5 minutes

## 2. Rotating loading system

### UNIVERSAL:

- For lathes and/or milling machines
- Grid-plates are adjustable in height for workpieces
- New batches can be set up while the robot arm is working

### MILLSTACKER:

- Stacking stations for milling workpieces
- High capacity on a small surface, for lower workpieces
- Workpiece turn-around station for two-sided machining

### TURNSTACKER:

- Stacking stations for turning workpieces
- High capacity on a small surface, for lower workpieces
- Workpiece turn-around station for two-sided machining

## 3. Easy to move and switch to another CNC machine

- Movable with a pallet truck
- Positioning facilitated by the self-centering anchors
- Automatic identification of the CNC machine

## 4. Accessible and safe

- CNC machine remains accessible to the operator at all times, no fencing required
- Equipped with floor scanner to slow down and stop the robot arm
- Does not compromise the safety of your operator

## 5. Fanuc 6-axis robot arm

- Maximum load capacity of robot arm: 12 kg, 25 kg, 35 kg or 70 kg
- Suitable for industrial environments
- Stable, accurate and sustainable

## 6. Optimal gripper system

- Universal 2- or 3-finger grippers
- Quickly adjustable grippers
- Built-in safety sensors for open/close control
- Airblow system to clean the vice or chuck

## 7. Setting up a new batch while the robot continues to operate

Thanks to the rotating loading system, a new batch can be filled from the backside while the production process is running.

## 8. High-quality industrial components and reliable technology

- Rigid construction
- Only A-class industrial components
- Standard and complete plug-and-play system



"HALTER'S MORE THAN 25 YEARS OF EXPERIENCE AND OUR CLOSE RELATIONSHIP WITH THE CNC END-USER MARKET HAS INSPIRED US TO PROVE THAT AUTOMATION ALWAYS PAYS!"

# COMPACT ALL-IN-ONE SYSTEM

- No additional components, fences or cables necessary
- Workpieces are filled at the back, thanks to the rotating loading system
- Minimal usage of floor space, including safety zone

The HALTER Premium and Compact are easy to move with a pallet truck. Thanks to the self-centering anchors, the HALTER LoadAssistant always stays at a fixed reference position. You can connect one system to multiple CNC machines. The robot-machine interface only needs to be established once and then the HALTER SmartControl retains all relevant machine data and can be started immediately.



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# HALTER SMARTCONTROL



## INTUITIVE, GRAPHICS-BASED PROGRAMMING IN 12 STEPS

The HALTER SmartControl features intuitive software, so the operator does not need any knowledge of robot programming.

All positions and all possible variables have been pre-programmed into the HALTER LoadAssistant by means of a grid plate (for the Universal) or a stacking system (for the MillStacker and TurnStacker). This means that the operator only needs to enter the workpiece data

(e.g., the diameter and height) and the robot arm will know, based on this data, the exact position of the workpiece.

The data of the CNC machine (such as the vise or chuck) are set so that the HALTER LoadAssistant can immediately start the automatic loading of the machine. Thanks to the HALTER SmartControl, the set-up times are minimized and the HALTER LoadAssistant can even be used for smaller batches.



THE HALTER SMARTCONTROL IS EQUIPPED WITH SOFTWARE THAT PRECISELY INFORMS YOU ABOUT THE PRODUCTIVITY OF THE HALTER LOADASSISTANT AND THUS OF COURSE YOUR CNC MACHINE. THIS WILL PROVIDE YOU WITH RELEVANT AND USEFUL ANALYSIS OF YOUR ACTUAL MACHINE UTILIZATION.

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## STANDARD LOADING CYCLES THAT CAN BE FLEXIBLY EXTENDED WITH ADDITIONAL FUNCTIONS

The HALTER LoadAssistant works with multiple standard loading cycles, which can be selected with one click.

Thus you do not need to program anything because the robot arm upon installation is taught exactly where the vise or chuck is. For example, there are standard cycles for the loading and unloading of CNC machines with one spindle, two spindles, a multitasking lathe center or for the unloading of a

sub-spindle in combination with a bar feeder. In addition, you also have the option to extend any standard cycle with additional functionalities. For example, the workpieces can be placed on a measuring station, engraving machine, conveyor belt or pallet. Therefore you retain the advantage of short set-up times through the use of standard cycles, but you also have optimal flexibility when it comes to adding extra functionalities.



### HALTER SmartControl standard functionalities:

- Positioning workpiece in machine vise 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 airblow 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
- Workpiece orientation in chuck of the CNC machine
- Shaft handling
- Customer-specific functionalities



OUR HELPDESK IS  
ACCESSIBLE TO ALL USERS  
OF THE HALTER  
LOADASSISTANT.

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# INSTALLATION AND INSTRUCTION

The HALTER LoadAssistant is delivered turnkey. It is important to know that your CNC machine does not necessarily need to be equipped with a so-called 'robot interface' from your machine supplier.

Our certified technicians make the connection between your CNC machine and the HALTER LoadAssistant through a PLC. Thanks to the standardized HALTER interface protocol, our installation can result in significant cost savings for you.

Your CNC machine does need to be equipped with an automatic door opener to be able to

work with the HALTER LoadAssistant. If it does not have this, we will install a servo-controlled automatic door opener, which you can also safely use when you are not using the robot and want to operate your CNC machine manually.

The operator training session takes place immediately after the installation. Our technicians ensure that after the training, your operator is able to work with the HALTER LoadAssistant completely independently. Our consultants will continue to provide you with advice also after the installation in order to get the optimum return from your HALTER.



## SERVICE

The international network of certified partners and field service engineers of HALTER CNC Automation guarantees high-quality service for each system supplied. Through training and annual certification of our service engineers and partners, we keep our service level high, enabling you to operate a reliable system for many years.

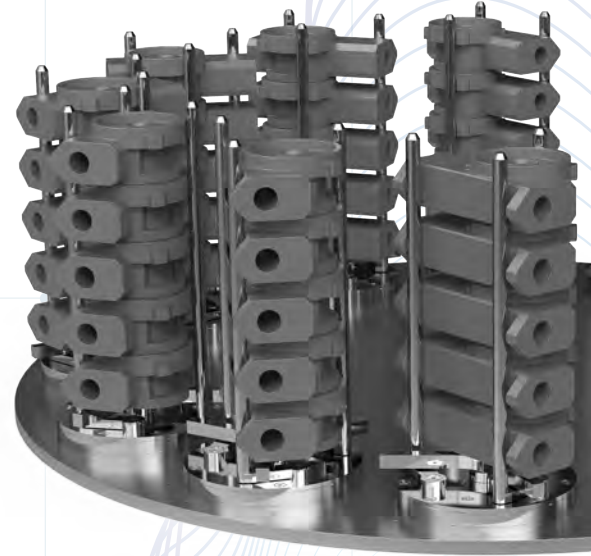
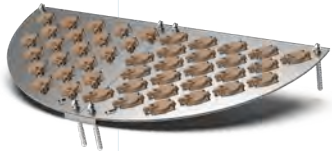
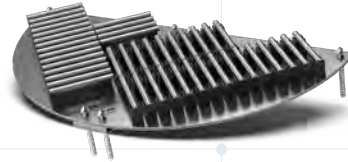
- Short delivery time from the production facility in Germany
- Turnkey delivery, set-up and training
- Top service by HALTER-certified technicians
- Application engineering and consultancy

A yellow industrial robotic arm is visible through a black safety grid. The arm is positioned diagonally across the frame, with its joints and components clearly visible. The background is a dark, industrial setting.

# WORKPIECE-SPECIFIC SOLUTIONS

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

For example, if you want to automate castings or other workpieces which need special handling. All these custom solutions can be implemented in the user-friendly HALTER SmartControl. The flexibility of the solutions that we offer ensures that you can automate even greater variation of workpieces.



# UNIVERSAL COMPACT 12



## 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	26.45 lbs
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	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 vise 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

## 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	✓
Standard safety fence between CNC machine and the Halter	✓
Autom. servo-driven door opener with integrated safety mechanism	Option
Closed safety circuit	✓

## Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

## Dimensions

Length	51.77"
Width	47.24"
Height	79.13"
Total weight	1794 lbs

## Capacity

Workpiece diameter (min - max)	0.39" - 5.314"
Minimum workpiece (L x W)	0.39" x 0.39"
Maximum workpiece (L x W)	5.314" x 5.314"
Height of workpiece (min - max)	0.39" - 5.91"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	881.8 lbs
Max. number of workpieces for grid plate 10-20 mm	190
Max. number of workpieces for grid plate 10-35 mm	116
Max. number of workpieces for grid plate 23-55 mm	62
Max. number of workpieces for grid plate 23-85 mm	36
Max. number of workpieces for grid plate 23-115 mm	20
Max. number of workpieces for grid plate 23-135 mm	18
Workpiece-specific grid plates	Option

## Capacity for shaft handling

Workpiece diameter (min - max)	0.39" - 1.57"
Minimum workpiece (L x W)	0.39" x 0.39"
Maximum workpiece (L x W)	1.57" x 1.57"
Height of workpiece (min - max)	5.91" - 9.84"
Maximum weight of workpiece	5.51 lbs
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	881.8 lbs
Max. number of workpieces for grid plate 10-20 mm	190
Max. number of workpieces for grid plate 10-35 mm	116
Max. number of workpieces for grid plate 23-55 mm	62

# UNIVERSAL PREMIUM 25/35



## 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	55.12 lbs / 77.16 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	✓
Touchscreen	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 vise 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



## 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	✓
Standard safety fence between CNC machine and the Halter	✓
Autom. servo-driven door opener with integrated safety mechanism	Option
Closed safety circuit	✓

## Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

## Dimensions

Length	68.89"
Width	56.45"
Height	87.4"
Total weight	2447 lbs / 2469 lbs

## Capacity

Workpiece diameter (min - max)	0.39" - 10.63"
Minimum workpiece (L x W)	0.39" x 0.39"
Maximum workpiece (L x W)	10.63" x 10.63"
Height of workpiece (min - max)	0.39" - 9.84"
Maximum load capacity robot arm	55.12 lbs / 77.16 lbs
Maximum total weight on rotating table	1653 lbs
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 shaft handling

Workpiece diameter (min - max)	- / 0.39" - 1.57"
Minimum workpiece (L x W)	- / 0.39" x 0.39"
Maximum workpiece (L x W)	- / 1.57" x 1.57"
Height of workpiece (min - max)	- / 9.84" - 17.71"
Maximum weight of workpiece	- / 9.92 lbs
Maximum load capacity robot arm	- / 77.16 lbs
Maximum total weight on rotating table	- / 1653 lbs
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

# UNIVERSAL BIG 35/70



HALTER LoadAssistant

## 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	77.16 lbs / 154.32 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	✓
Touchscreen	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 vise 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 airblow 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

## 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	✓
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	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)	0.39" - 11.81"
Minimum workpiece (L x W)	0.39" x 0.39"
Maximum workpiece (L x W)	11.81" x 11.81"
Height of workpiece (min - max)	0.39" - 11.81"
Maximum load capacity robot arm	77.16 lbs / 154.32 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)	0.39" - 1.57" / 0.39" - 3.14"
Minimum workpiece (L x W)	0.39" x 0.39"
Maximum workpiece (L x W)	0.39" x 0.39" / 3.14" x 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	77.16 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

# TURNSTACKER COMPACT 12



## 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	26.45 lbs
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	✓
Touchscreen	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

Unload-only function in combination with bar feeder	✓
Inside and outside gripping	✓
Workpiece loading in chuck with or without pressure star	✓
Adjusting airblow 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
Customer-specific functionalities	On request

## Grippers

3-finger gripper for round workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

## Dimensions

Length	51.77"
Width	47.24"
Height	79.13"
Total weight	2094 lbs

## Capacity

Workpiece diameter (min - max)	1.69" - 6.30"
Height of workpiece (min - max)	0.39" - 6.88"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	1455 lbs
Maximum stacking height	13.77"
Number of stacking stations (1 empty)	12
Maximum weight per station	132.3 lbs
Max. number of workpieces at workpiece height of 10 mm	407
Max. number of workpieces at workpiece height of 20 mm	198
Max. number of workpieces at workpiece height of 50 mm	77
Max. number of workpieces at workpiece height of 70 mm	55
Max. number of workpieces at workpiece height of 85 mm	44
Max. number of workpieces at workpiece height of 110 mm	33
Max. number of workpieces at workpiece height of 150 mm	22



# TURNSTACKER PREMIUM 25/35



HALTER LoadAssistant

## 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	55.12 lbs / 77.16 lbs
Drip tray for leaking coolant	✓
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	✓
Touchscreen	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

Unload-only function in combination with bar feeder	✓
Inside and outside gripping	✓
Workpiece loading in chuck with or without pressure star	✓
Adjusting airblow 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
Customer-specific functionalities	On request

## Grippers

3-finger gripper for round workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

## Dimensions

Length	68.89"
Width	56.45"
Height	87.4"
Total weight	2667 lbs / 2689 lbs

## Capacity

Workpiece diameter (min - max)	1.69" - 9.06"
Height of workpiece (min - max)	0.39" - 6.89"
Maximum load capacity robot arm	55.12 lbs / 77.16 lbs
Maximum total weight on rotating table	2789 lbs
Maximum stacking height	13.77"
Number of stacking stations (1 empty)	12
Maximum weight per station	253.53 lbs
Max. number of workpieces at workpiece height of 10 mm	385
Max. number of workpieces at workpiece height of 20 mm	187
Max. number of workpieces at workpiece height of 50 mm	77
Max. number of workpieces at workpiece height of 70 mm	55
Max. number of workpieces at workpiece height of 85 mm	44
Max. number of workpieces at workpiece height of 110 mm	33
Max. number of workpieces at workpiece height of 150 mm	22



# TURNSTACKER BIG 35/70



HALTER LoadAssistant

## 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	77.16 lbs / 154.32 lbs
Drip tray for leaking coolant	✓
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	✓
Touchscreen	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

Unload-only function in combination with bar feeder	✓
Inside and outside gripping	✓
Workpiece loading in chuck with or without pressure star	✓
Adjusting airblow 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
Customer-specific functionalities	On request



### Grippers

3-finger gripper for round workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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)	1.69" - 11.81"
Height of workpiece (min - max)	0.39" - 8.85"
Maximum load capacity robot arm	77.16 lbs / 154.32 lbs
Maximum total weight on rotating table	6063 lbs
Maximum stacking height	17.71"
Number of stacking stations (1 empty)	12
Maximum weight per station	551 lbs
Max. number of workpieces at workpiece height of 10 mm	495
Max. number of workpieces at workpiece height of 20 mm	242
Max. number of workpieces at workpiece height of 50 mm	99
Max. number of workpieces at workpiece height of 70 mm	66
Max. number of workpieces at workpiece height of 85 mm	55
Max. number of workpieces at workpiece height of 110 mm	44
Max. number of workpieces at workpiece height of 150 mm	33
Max. number of workpieces at workpiece height of 225 mm	22



# MILLSTACKER COMPACT 12



## 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	26.45 lbs
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	✓
Touchscreen	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 vise with soft push function	✓
Workpiece regripping for accurate positioning	✓
Inside and outside gripping	✓
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
Cleaning of workpiece outside the CNC machine	Option
Positioning workpiece on measuring station	Option
Removal of rejected workpieces	Option
Workpiece side-gripping	Option
Customer-specific functionalities	On request

### Grippers

2-finger gripper for rectangular workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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

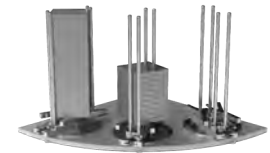
Voltage	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

### Dimensions

Length	51.77"
Width	47.24"
Height	79.13"
Total weight	2094 lbs

### Capacity

Minimum workpiece (L x W)	1.57" x 1.57"
Maximum square workpiece (L x W)	5.71" x 5.71"
Maximum rectangle workpiece (L x W)	1.57" x 7.87"
Height of workpiece (min - max)	0.39" - 6.88"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	1455 lbs
Maximum stacking height	14.76"
Number of stacking stations (1 empty)	12
Maximum weight per station	132.3 lbs
Max. number of workpieces at workpiece height of 10 mm	407
Max. number of workpieces at workpiece height of 20 mm	198
Max. number of workpieces at workpiece height of 50 mm	77
Max. number of workpieces at workpiece height of 70 mm	55
Max. number of workpieces at workpiece height of 85 mm	44
Max. number of workpieces at workpiece height of 110 mm	33
Max. number of workpieces at workpiece height of 150 mm	22



# MILLSTACKER PREMIUM 25/35



## 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	55.12 lbs / 77.16 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	✓
Touchscreen	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 vise with soft push function	✓
Workpiece regripping for accurate positioning	✓
Inside and outside gripping	✓
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
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

### Grippers

2-finger gripper for rectangular workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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

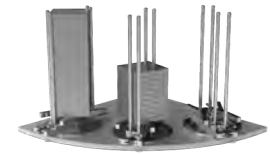
Voltage	208 V
Peak consumption	30 A
Compressed air pressure	94.3 psi

### Dimensions

Length	68.89"
Width	56.45"
Height	87.4"
Total weight	2667 lbs / 2689 lbs

### Capacity

Minimum workpiece (L x W)	1.57" x 1.57"
Maximum square workpiece (L x W)	7.08" x 7.08"
Maximum rectangle workpiece (L x W)	3.54" x 11.02"
Height of workpiece (min - max)	0.39" - 6.88"
Maximum load capacity robot arm	55.12 lbs / 77.16 lbs
Maximum total weight on rotating table	2789 lbs
Maximum stacking height	13.77"
Number of stacking stations (1 empty)	12
Maximum weight per station	253 lbs
Max. number of workpieces at workpiece height of 10 mm	385
Max. number of workpieces at workpiece height of 20 mm	187
Max. number of workpieces at workpiece height of 50 mm	77
Max. number of workpieces at workpiece height of 70 mm	55
Max. number of workpieces at workpiece height of 85 mm	44
Max. number of workpieces at workpiece height of 110 mm	33
Max. number of workpieces at workpiece height of 150 mm	22



# MILLSTACKER BIG 35/70



HALTER LoadAssistant

## 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	77.16 lbs / 154.32 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	✓
Touchscreen	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 vise with soft push function	✓
Workpiece regripping for accurate positioning	✓
Inside and outside gripping	✓
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
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

## Grippers

2-finger gripper for rectangular workpieces	✓
Separate grippers for raw and machined workpieces	✓
Airblow system	✓
Workpiece detection system by open/close message	✓
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

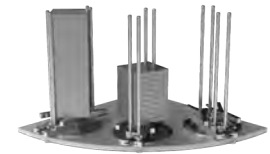
Voltage	208 V
Peak consumption	30 A / 60 A
Compressed air pressure	94.3 psi

## Dimensions

Length	110.23"
Width	88.58"
Height	87.4"
Total weight	5789 lbs / 6472 lbs

## Capacity

Minimum workpiece (L x W)	1.57" x 1.57"
Maximum square workpiece (L x W)	9.84" x 9.84"
Maximum rectangle workpiece (L x W)	3.93" x 15.74"
Height of workpiece (min - max)	0.39" - 8.85"
Maximum load capacity robot arm	77.16 lbs / 154.32 lbs
Maximum total weight on rotating table	6063 lbs
Maximum stacking height	17.71"
Number of stacking stations (1 empty)	12
Maximum weight per station	551 lbs
Max. number of workpieces at workpiece height of 10 mm	495
Max. number of workpieces at workpiece height of 20 mm	242
Max. number of workpieces at workpiece height of 50 mm	99
Max. number of workpieces at workpiece height of 70 mm	66
Max. number of workpieces at workpiece height of 85 mm	55
Max. number of workpieces at workpiece height of 110 mm	44
Max. number of workpieces at workpiece height of 150 mm	33
Max. number of workpieces at workpiece height of 225 mm	22



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HALTER LoadAssistant  
Model: HA 1000  
Capacity: 1000 kg  
Reach: 1000 mm  
Speed: 1.0 m/s  
Weight: 1000 kg

HALTER LoadAssistant

# NOTES



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