

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.



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, 20 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

HALTER LoadAssistant





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.

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 5 MINUTES
- NO EXPERIENCE WITH ROBOTICS IS REQUIRED
- COMPLETE PLUG-AND-PLAY
 SOLUTIONS
- EASILY MOVED FROM ONE CNC MACHINE TO ANOTHER
- DELIVERY WITH 12, 20, 35
 OR 70 KG ROBOT

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	TURNSTACKER Compact 12	MILLSTACKER Compact 12
	TURNING/MILLING	TURNING	MILLING
Pay load	12 kg	12 kg	12 kg
Max.	diameter	diameter	5.905" x
workpiece size	5.314"	6.299"	5.905"
Max.			
workpiece length	5.905"	6.889"	6.889"
Optional workpiece			
length (long shafts)	9.843"	-	-

PREMIUM 20/35

- ✓ 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



MILLOTACKED

BI	G	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 BIG 20/35 TURNING/MILLING	TURNSTACKER BIG 20/35 TURNING	MILLSTACKER BIG 20/35 MILLING
Pay load	35 kg - 70 kg	35 kg - 70 kg	35 kg - 70 kg
Max.	diameter	diameter	9.843" x 9.843"/
workpiece size	11.811"	11.811"	2.540" x 15.748"
Max.			
workpiece length	11.811"	5.715"	5.715"
Optional workpiece			
length (long shafts)	31.5"	-	-

	PREMIUM 20/35	PREMIUM 20/35	PREMIUM 20/35
	TURNING/MILLING	TURNING	MILLING
Pay load	20 kg - 35 kg	20 kg - 35 kg	20 kg - 35 kg
Max.	diameter	diameter	7.086" x 7.086"/
workpiece size	10.629"	9.055"	3.149"x11.811"
Max.			
workpiece length	9.843"	9.843"	13.779"
Optional workpiece			
length (long shafts)	17.716"	-	-

TUDNETACKED

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



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 turnaround 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 mchining

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 arr
- Does not compromise the safety of your operator

5. Fanuc 6-axis robot arm

- Maximum load capacity of robot arm: 12 kg, 20 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.



HALTER SMARTCONTROL

HALTER LoadAssistant

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.

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 turnaround function for twosided 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 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:

- 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
- Customer-specific functionalities



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

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



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
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turnaround 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 turn-around function for two-sided	
machining	✓
Workpiece regripping for accurate positioning	 Image: A start of the start of
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	 Image: A start of the start of

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

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	 Image: A second s
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

 V
 Image: A second s
 Image: A second s
Option
 Image: A second s

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

Length	53.15"
Width	49.2"
Height	79.92"
Total weight	2094 lbs

Capacity

Workpiece diameter (min-max)	.39" - 5.314"
Minimum workpiece (L x W)	.39"39"
Maximum workpiece (L x W)	5.314" - 5.314"
Maximum height of workpiece	5.90"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	1102.31 lbs
Max. number of workpieces for grid plate 10-35 mm	166
Max. number of workpieces for grid plate 23-55 mm	92
Max. number of workpieces for grid plate 23-85 mm	44
Max. number of workpieces for grid plate 23-115 mm	32
Max. number of workpieces for grid plate 23-135 mm	18
Workpiece-specific grid plates	Option

Capacity for long shafts

Workpiece diameter (min-max)	.39" - 1.57"
Minimum workpiece (L x W)	.39"39"
Maximum workpiece (L x W)	1.57" - 1.57"
Maximum height of workpiece	9.84"
Maximum weight of workpiece (turning)	11.02 lbs
Maximum weight of workpiece (milling)	11.02 lbs
Maximum load capacity robot arm	26.4 lbs
Maximum total weight on rotating table	1102.31 lbs
Max. number of workpieces for grid plate 10-35 mm	166
Max. number of workpieces for grid plate 23-55 mm	92

UNIVERSAL Premium 20/35





System Rigid inc

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	44 lbs / 77 lbs
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turnaround station for two-sided	
machining	Option
Status light	Option
Standard robot-machine interface for every	
CNC machine	<

HALTER SmartControl

✓
15 inch
 Image: A second s
 Image: A second s
<
<
4

HALTER SmartControl standard functionalities

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

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

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	 V
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

✓
<
 Image: A second s
Option
<

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

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

Capacity

Workpiece diameter (min-max)	.39" - 10.63"
Minimum workpiece (L x W)	.39"39"
Maximum workpiece (L x W)	10.63" - 10.63"
Maximum height of workpiece	9.84"
Maximum load capacity robot arm	44 lbs / 77 lbs
Maximum total weight on rotating table	1102 lbs / 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 long shafts	
Workpiece diameter (min-max)	- / .39" - 1.57"
Minimum workpiece (L x W)	- / .39"39"
Maximum workpiece (L x W)	- / 1.57"-1.57"
Maximum height of workpiece	- / 17.71"
Maximum weight of workpiece (turning)	- / 17.63 lbs
Maximum weight of workpiece (milling)	- / 17.63 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





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	All and a second second

System

Rigid industrial construction	✓
Rotating loading table	✓
Full enclosure and protection	 V
Movable	by 5 t forklift
	truck, crane
Placed on 3-point self-centering anchors	 ✓
Fanuc 6-axis robot arm	77 lbs / 154 lb
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turnaround 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 vise 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 airblow distance
Working with spindle orientation of the CNC machine
Eccentric loading and unloading
Robot park positioning button

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

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	v
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	87.2 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"
Maximum height of workpiece	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	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)	.39" - 1.57"/ .39" - 3.14"
Minimum workpiece (L x W)	.39"39"
Maximum workpiece (L x W)	.39"39" / 3.14" - 3.14"
Maximum height of workpiece	17.71" / 31.5"
Maximum weight of workpiece (turning)	17.64 lbs / 66.14 lbs
Maximum weight of workpiece (milling)	17.64 lbs / 50.70 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	220
Max. number of workpieces for grid plate 23-85 mm	120

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
Drip tray for leaking coolant	✓
Workpiece turnaround station for two-sided	
machining	Option
Status light	Option
Standard robot-machine interface for every	
CNC machine	✓

HALTER SmartControl

S

ntuitive and graphical programming in 12 steps	<
Fouch screen	15 inch
Free choice of pre-installed language	✓
nput 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

Workpiece turnaround function for two-sided

machining	✓
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	✓

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

3-finger gripper for round workpieces	 Image: A second s
Separate grippers for raw and machined workpieces	✓
Airblow system	 Image: A set of the set of the
Workpiece detection system by open/close message	✓
Quickly adjustable gripper fingers	v
Workpiece-specific gripper fingers	Option
Pressure sensor on the robot arm monitors air pressure	✓

Safety

✓
✓
<
✓
Option
<

Capacity

Workpiece diameter (min-max)	1.38" - 6.30"
Maximum height of workpiece	6.88"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	1708 lbs
Maximum stacking height	13.77"
Number of stacking stations (1 empty)	12
Maximum weight per station	154 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

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

Length	53.15"
Width	49.21"
Height	79.92"
Total weight	2204 lbs



TURNSTACKER Premium 20/35



System

Rigid industrial construction	✓
Rotating loading table	✓
Full enclosure and protection	 V
Movable	by pallet truck
Placed on 3-point self-centering anchors	✓
Fanuc 6-axis robot arm	44.09 lbs / 77.16 lbs
Drip tray for leaking coolant	✓
Workpiece turnaround 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	 Image: A start of the start of
Software analysis for machine utilization	✓
Automatic program storage	✓
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

Workpiece turnaround function for two-sided

machining	<
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	<

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

✓
v
 ✓
v
v
Option
 ✓

Safety

<
✓
<
<
Option
<

Workpiece diameter (min-max)	1.69" - 9.055"
Maximum height of workpiece	6.89"
Maximum load capacity robot arm	44.09 lbs / 77.16 lbs
Maximum total weight on rotating table	2755 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

Capacity

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

Length	68.89"
Width	56.49"
Height	87.40"
Total weight	2667 lbs / 2689 lbs



TURNSTACKER BIG 35/70



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 turnaround 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	✓

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4

Software analysis for machine utilization

Max. number of CNC machines to connect with

Automatic program storage

HALTER SmartControl standard functionalities

Workpiece turnaround function for two-sided	
machining	<
Unload-only function in combination with bar feeder	 Image: A second s
Inside and outside gripping	 Image: A second s
Workpiece loading in chuck with or without	
pressure star	<
Adjusting airblow distance	 Image: A start of the start of
Working with spindle orientation of the CNC machine	 Image: A start of the start of
Eccentric loading and unloading	 Image: A start of the start of
Robot park positioning button	 Image: Image of the second seco

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





 Image: A second s
v
 Image: A set of the set of the
✓
 Image: A second s
Option
✓

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	<

Workpiece diameter (min-max) 1.69" - 11.81" Maximum height of workpiece Maximum load capacity robot arm 77.16 lbs / 154.32 lbs Maximum total weight on rotating table Maximum stacking height Number of stacking stations (1 empty) Maximum weight per station Max. number of workpieces at workpiece height of 10 mm Max. number of workpieces at workpiece height of 20 mm Max. number of workpieces at workpiece height of 50 mm Max. number of workpieces at workpiece height of 70 mm Max. number of workpieces at workpiece height of 85 mm Max. number of workpieces at workpiece height of 110 mm

Max. number of workpieces at workpiece height of 150 mm

Max. number of workpieces at workpiece height of 225 mm

Capacity

Input

Voltage	208 V
Peak consumption	30 A / 60 A
Compressed air pressure	87.2 psi

Dimensions

Length	110.23"
Width	88.58"
Height	87.40"
Total weight	5789 lbs / 6472 lbs

		11	
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		L.	
-	-		100

8.85"

6613 lbs

17.71"

12

551 lbs

495

242

99

66

55 44

33

22

MILLSTACKER COMPACT 12







HALTER LoadAssistant

System

Rigid industrial construction	✓
Rotating loading table	✓
Full enclosure and protection	 Image: A second s
Movable	by pallet truck
Placed on 3-point self-centering anchors	<
Fanuc 6-axis robot arm	26.45 lbs
Drip tray for leaking coolant	<
Workpiece side-gripping station	Option
Workpiece turnaround 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	 Image: A second s
Input can be entered in inches or mm	 Image: A second s
Software analysis for machine utilization	 ✓
Automatic program storage	 Image: A second s
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

Positioning workpiece in machine vise with	
soft push function	 Image: A second s
Workpiece turnaround function for two-sided	
machining	✓
Workpiece regripping for accurate positioning	<
Inside and outside gripping	<
Adjusting airblow distance	<
Working with spindle orientation of the CNC machine	<
Eccentric loading and unloading	 Image: A second s
Robot park positioning button	<

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

2-finger gripper for rectangular workpieces	✓
Separate grippers for raw and machined workpieces	 ✓
Airblow system	 Image: A second s
Workpiece detection system by open/close message	v
Quickly adjustable gripper fingers	v
Workpiece-specific gripper fingers	Option
Pressure sensor on the robot arm monitors air pressure	v

Safety

n-machine-space function	 Image: A second s
anuc DCS area in combination with the Sick floor scanner	✓
liding door provided with safety sensors	✓
tandard safety fence between CNC machine and the Halter	✓
utom. servo-driven door opener with integrated safety mechanism	Option
Closed safety circuit	 ✓
losed safety circuit	

Capacity

Minimum workpiece (L x W)	.98" X .98"
Maximum square workpiece (L x W)	4.92" X 4.92"
Maximum rectangle workpiece (L x W)	1.96" X 7.87"
Maximum height of workpiece	6.88"
Maximum load capacity robot arm	26.45 lbs
Maximum total weight on rotating table	1708 lbs
Maximum stacking height	13.77"
Number of stacking stations (1 empty)	12
Maximum weight per station	154 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

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

Length	53.15"
Width	49.21"
Height	79.92"
Total weight	2204 lbs



MILLSTACKER Premium 20/35







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	44.09 lbs / 77.16 lbs
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Workpiece turnaround 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	✓

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4

Software analysis for machine utilization

Max. number of CNC machines to connect with

Automatic program storage

HALTER SmartControl standard functionalities

soft push function	✓
Workpiece turnaround function for two-sided	
machining	 Image: A second s
Workpiece regripping for accurate positioning	 Image: A start of the start of
Inside and outside gripping	 Image: A second s
Adjusting airblow distance	 Image: A start of the start of
Working with spindle orientation of the CNC machine	 Image: A start of the start of
Eccentric loading and unloading	 Image: A second s
Robot park positioning button	 Image: A second s

Unloading workpiece on external fixed position, e.g. conveyor belt	Option
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

2-finger gripper for rectangular workpieces	 Image: A second s
Separate grippers for raw and machined workpieces	✓
Airblow system	 Image: A second s
Workpiece detection system by open/close message	✓
Quickly adjustable gripper fingers	v
Workpiece-specific gripper fingers	Option
Pressure sensor on the robot arm monitors air pressure	v

Safety

✓
✓
<
✓
Option
<

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)	3.15" X 11.81"
Maximum height of workpiece	6.88"
Maximum load capacity robot arm	44.09 lbs / 77.16 lbs
Maximum total weight on rotating table	2755 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

Input

Voltage	208 V
Peak consumption	30 A
Compressed air pressure	87.2 psi

Dimensions

Length	68.89"
Width	56.49"
Height	87.40"
Total weight	2667 lbs / 2689 lbs



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 turnaround 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	d
Touch screen	21 inch
Free choice of pre-installed language	211101
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

soft push function	 Image: A second s
Workpiece turnaround function for two-sided	
machining	 ✓
Workpiece regripping for accurate positioning	 Image: A start of the start of
Inside and outside gripping	 ✓
Adjusting airblow distance	 Image: A start of the start of
Working with spindle orientation of the CNC-machine	 ✓
Eccentric loading and unloading	 Image: A start of the start of
Robot park positioning button	 ✓

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

2-finger gripper for rectangular workpieces	✓
Separate grippers for raw and machined workpieces	 ✓
Airblow system	 Image: A second s
Workpiece detection system by open/close message	v
Quickly adjustable gripper fingers	v
Workpiece-specific gripper fingers	Option
Pressure sensor on the robot arm monitors air pressure	v

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	87.2 psi

Capacity

Minimum workpiece (L x W)	1.54" 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"
Maximum height of workpiece	8.85"
Maximum load capacity robot arm	77.16 lbs / 154.32 lbs
Maximum total weight on rotating table	6613 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



Length	110.23"
Width	88.58"
Height	87.40"
Total weight	5789 lbs / 6472 lbs





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