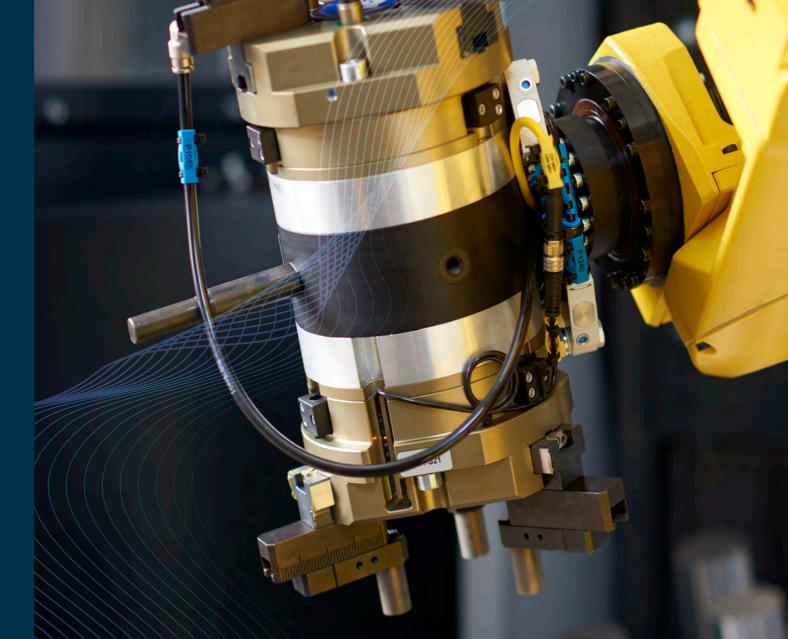


Committed to performance. Dedicated to deliver.



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 havebecome 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: +31 (0)88 015 74 00 or send an e-mail to: info@haltercnc.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 We are continuously working on the 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.

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
- WFI I-THOUGHT-OUT CAPACITY SOI UTIONS
- SET UP IN LESS THEN 5 MINUTES
- NO EXPERIENCE WITH ROBOTICS IS REOUIRED
- COMPLETE PLUG-AND-PLAY SOI UTIONS
- EASILY MOVED FROM ONE CNC MACHINE TO ANOTHER
- DELIVERY WITH 12, 25, 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.	135 mm x 135 mm		125 mm x 125 mm
workpiece size	Ø 135 mm	Ø 160 mm	50 mm x 200 mm
Max.			
workpiece height	150 mm	175 mm	175 mm
Optional workpiece			
height (long shafts)	250 mm	-	-

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



HATER

	UNIVERSAL PREMIUM 25/35 TURNING/MILLING	TURNSTACKER PREMIUM 25/35 TURNING	MILLSTACKER PREMIUM 25/35 MILLING
Pay load	25 kg / 35 kg	25 kg / 35 kg	25 kg / 35 kg
Max.	270 mm x 270 mm		180 mm x 180 mm
workpiece size	Ø 270 mm	Ø 230 mm	90 mm x 280 mm
Max.			
workpiece height	250 mm	175 mm	175 mm
Optional workpiece			
height (long shafts)	- / 450 mm	-	-

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 BIG 35/70 TURNING/MILLING	TURNSTACKER BIG 35/70 TURNING	MILLSTACKER BIG 35/70 MILLING
Pay load	35 kg / 70 kg	35 kg /70 kg	35 kg / 70 kg
Max.	300 mm x 300 mm		250 mm x 250 mm
workpiece size	Ø 300 mm	Ø 300 mm	100 mm x 400 mm
Max.			
workpiece height	300 mm	225 mm	225 mm
Optional workpiece			
height (long shafts)	800 mm	_	-

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



HALTER LoadAssistant

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-platesareadjustablein 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.



HALTER SMARTCONTROL

INTUITIVE, GRAPHICS-BASED PROGRAMMING IN 12 STEPS

The HALTER SmartControl(e.g., the dialfeatures intuitive software, sothe robot athe operator does not need anythis data, thknowledge of robot programming.workpiece.

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

All positions and all possible variables have been preprogrammed 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

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.sub-spindle in combination with a bar
feeder. In addition, you also have the
option to extend any standard cycle

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 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 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

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 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 turnkey. It is important to know that your CNC 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 reliable system for many years.

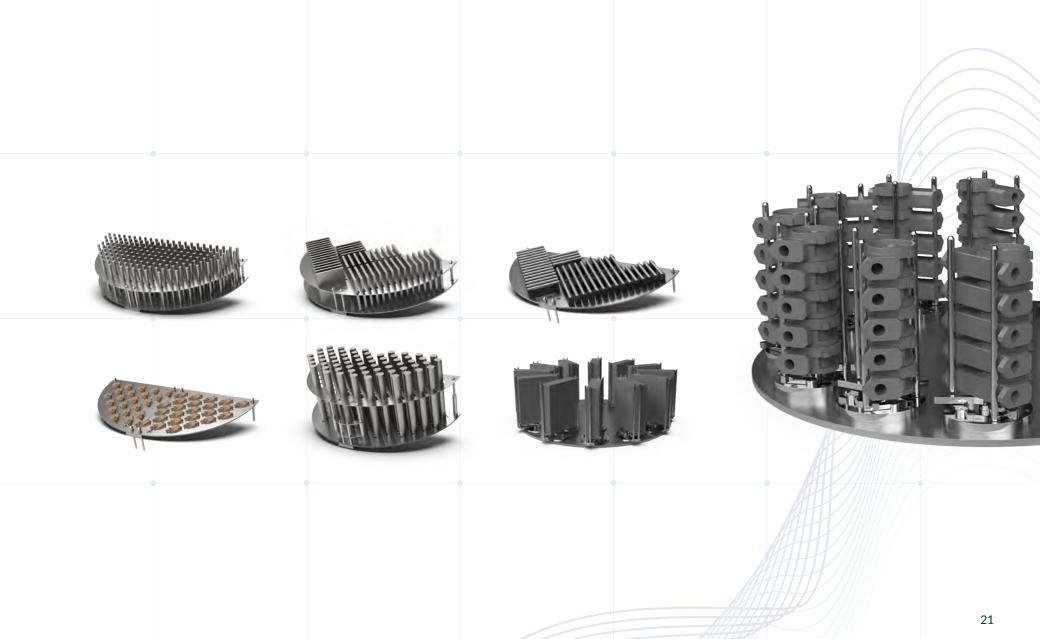
- Short delivery time from the production facility in Germany
- Turnkey delivery, set-up and training
- Top service by HALTER-certified technicians
- Application engineering and consultancy



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





HALTER LoadAssistant

System

Rigid industrial construction	<
Rotating loading table	✓
Full enclosure and protection	v
Movable	by pallet truck
Placed on 3-point self-centering anchors	v
Fanuc 6-axis robot arm	12 kg
Drip tray for leaking coolant	v
Workpiece side-gripping station	Option
Workpiece turnaround station for two-sided	
machining	Option
Status light	Option
Standard robot-machine interface for every CNC	
machine	v

HALTER SmartControl

Intuitive and graphical programming in 12 steps	 Image: A second s
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	v
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

push function	 Image: A second s
Workpiece turnaround 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	 Image: A second s
Eccentric loading and unloading	<
Robot park positioning button	 Image: Image: Ima

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	✓
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
Closed safety circuit

Input

Voltage	
Peak consumption	
Compressed air pressure	

Dimensions

Length	1350 mm
Width	1250 mm
Height	2030 mm
Total weight	950 kg

Capacity

✓

< ✓ ✓

Option ✓

400 V 16 A 6 bar

Workpiece diameter (min-max)	10 mm - 135 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	135 mm x 135 mm
Maximum height of workpiece	150 mm
Maximum load capacity robot arm	12 kg
Maximum total weight on rotating table	500 kg
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)	10 mm - 40 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	40 mm x 40 mm
Maximum height of workpiece	250 mm
Maximum weight of workpiece (turning)	5 kg
Maximum weight of workpiece (milling)	5 kg
Maximum load capacity robot arm	12 kg
Maximum total weight on rotating table	500 kg
Max. number of workpieces for grid plate 10-35 mm	166
Max. number of workpieces for grid plate 23-55 mm	92

23

UNIVERSAL PREMIUM 25/35





System

Rotating loading table Full enclosure and protection Movable	✓ ✓ by pallet truck
	✓ by pallet truck
Movable	by pallet truck
1410Vable	
Placed on 3-point self-centering anchors	<
Fanuc 6-axis robot arm	25 kg / 35 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	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	v
Input can be entered in inches or mm	v
Software analysis for machine utilization	v
Automatic program storage	✓
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

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

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	✓
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	
Peak consumption	
Compressed air pressure	

Dimensions

Length	1750 mm
Width	1434 mm
Height	2220 mm
Total weight	1110 kg / 1120 kg

Capacity

Workpiece diameter (min-max)	10 mm - 270 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	270 mm x 270 mm
Maximum height of workpiece	250 mm
Maximum load capacity robot arm	25 kg / 35 kg
Maximum total weight on rotating table	500 kg / 750 kg
Max. number of workpieces for grid plate 10-35 mm	176
Max. number of workpieces for grid plate 23-55 mm	136
Max. number of workpieces for grid plate 23-85 mm	68
Max. number of workpieces for grid plate 23-115 mm	40
Max. number of workpieces for grid plate 23-135 mm	24
Max. number of workpieces for grid plate 23-175 mm	18
Max. number of workpieces for grid plate 23-195 mm	14
Max. number of workpieces for grid plate 23-230 mm	10
Max. number of workpieces for grid plate 23-270 mm	6
Workpiece-specific grid plates	Option

Capacity for long shafts

400 V 16 A 6 bar

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

UNIVERSAL 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	35 kg / 70 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	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 turnaround function for two-sided	
machining	v
Workpiece regripping for accurate positioning	 Image: A start of the start of
Unload-only function in combination with bar feeder	 Image: A second s
Inside and outside gripping	v
Workpiece loading in chuck with or without	
pressure star	<
Adjusting airblow distance	<
Working with spindle orientation of the CNC machine	 Image: A second s
Eccentric loading and unloading	 Image: A second s
Robot park positioning button	 Image: A second s

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	✓
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	v
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	v
Autom. servo-driven door opener with integrated safety	
mechanism	Option
Closed safety circuit	✓

Input

Voltage	400 V
Peak consumption	16 A / 32 A
Compressed air pressure	6 bar

Dimensions

Length	2800 mm
Width	2250 mm
Height	2220 mm
Total weight	2490 kg / 2800 kg

~	• •
Capa	ACITY
	,

Workpiece diameter (min-max)	10 mm - 300 mm
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	300 mm x 300 mm
Maximum height of workpiece	300 mm
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Max. number of workpieces for grid plate 10-35 mm	320
Max. number of workpieces for grid plate 23-55 mm	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)	10-40 mm / 10-80 mn
Minimum workpiece (L x W)	10 mm x 10 mm
Maximum workpiece (L x W)	40x40 mm / 80x80 mr
Maximum height of workpiece	450 mm / 800 mm
Maximum weight of workpiece (turning)	8 kg / 30 kg
Maximum weight of workpiece (milling)	8 kg / 23 kg
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Max. number of workpieces for grid plate 10-35 mm	320
Max. number of workpieces for grid plate 23-55 mm	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	12 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	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

machining	 ✓
Unload-only function in combination with bar feeder	 ✓
nside and outside gripping	 ✓
Workpiece loading in chuck with or without	
pressure star	v
Adjusting airblow distance	v
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	✓
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

Closed safety circuit	v
mechanism	Option
Autom. servo-driven door opener with integrated safety	
Standard safety fence between CNC machine and the Halter	✓
Sliding door provided with safety sensors	✓
Fanuc DCS area in combination with the Sick floor scanner	 ✓
In-machine-space function	

Workpiece diameter (min-max)	35 mm - 160 mm
Maximum height of workpiece	175 mm
Maximum load capacity robot arm	12 kg
Maximum total weight on rotating table	775 kg
Maximum stacking height	350 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	70 kg
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	400 V
Peak consumption	16 A
Compressed air pressure	6 bar

Dimensions

Length	1350 mm
Width	1250 mm
Height	2030 mm
Total weight	1000 kg



TURNSTACKER PREMIUM 25/35





System

v
✓
by pallet truck
✓
25 kg / 35 kg
✓
Option
Option
✓

HALTER SmartControl

15 inch
v
v
v
v
4

HALTER SmartControl standard functionalities

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	 Image: Image: Ima
Eccentric loading and unloading	 Image: Image: Ima
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

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

✓
v
v
v
Option
v

Workpiece diameter (min-max)	43 mm - 230 mm
Maximum height of workpiece	175 mm
Maximum load capacity robot arm	25 kg / 35 kg
Maximum total weight on rotating table	1250 kg
Maximum stacking height	350 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	115 kg
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	400 V
Peak consumption	16 A
Compressed air pressure	6 bar

Dimensions

Length	1750 mm
Width	1434 mm
Height	2220 mm
Total weight	1210 kg / 1220 kg



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	35 kg / 70 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Status light	Option
Standard robot-machine interface for every CNC	
machine	 Image: A second s

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	 Image: A second s
Software analysis for machine utilization	 Image: A second s
Automatic program storage	 Image: A second s
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

machining	•
Unload-only function in combination with bar feeder	N
Inside and outside gripping	×
Workpiece loading in chuck with or without	
pressure star	v
Adjusting airblow distance	v
Working with spindle orientation of the CNC machine	
Eccentric loading and unloading	N
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	✓
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	 Image: A second s

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)	43 mm - 230 mm
Maximum height of workpiece	225 mm
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Maximum stacking height	450 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	250 kg
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

Capacity

Input

Voltage	400 V
Peak consumption	16 A / 32 A
Compressed air pressure	6 bar

Dimensions

Length	2800 mm
Width	2250 mm
Height	2220 mm
Total weight	2490 kg / 2800 kg



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	12 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	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	v
Automatic program storage	✓
Max. number of CNC machines to connect with	4

HALTER SmartControl standard functionalities

push function	 V
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 start of the start of
Robot park positioning button	 Image: Image: Ima

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

Minimum workpiece (L x W)	25 mm x 25 mm
Maximum square workpiece (L x W)	125 mm x 125 mm
Maximum rectangle workpiece (L x W)	50 mm x 200 mm
Maximum height of workpiece	175 mm
Maximum load capacity robot arm	12 kg
Maximum total weight on rotating table	775 kg
Maximum stacking height	350 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	70 kg
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	400 V
Peak consumption	16 A
Compressed air pressure	6 bar

Dimensions

Length	1350 mm
Width	1250 mm
Height	2030 mm
Total weight	1000 kg



MILLSTACKER 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	25 kg / 35 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	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	 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	v
Robot park positioning button	 Image: A second s

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

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	✓

Minimum workpiece (L x W)	40 mm x 40 mm
Maximum square workpiece (L x W)	180 mm x 180 mm
Maximum rectangle workpiece (L x W)	90 mm x 280 mm
Maximum height of workpiece	175 mm
Maximum load capacity robot arm	25 kg / 35 kg
Maximum total weight on rotating table	1250 kg
Maximum stacking height	350 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	115 kg
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	400 V
Peak consumption	16 A
Compressed air pressure	6 bar

Dimensions

Length	1750 mm
Width	1434 mm
Height	2220 mm
Total weight	1210 kg / 1220 kg



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	35 kg / 70 kg
Drip tray for leaking coolant	✓
Workpiece side-gripping station	Option
Status light	Option
Standard robot-machine interface for every CNC	
machine	✓

HALTER SmartControl

✓
21 inch
✓
v
✓
✓
4

HALTER SmartControl standard functionalities

Positioning workpiece in machine vise with soft	
push function	<
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	<
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
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	✓
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	 Image: A second s

Safety

✓
✓
✓
Option
v

Input

Voltage	400 V
Peak consumption	16 A / 32 A
Compressed air pressure	6 bar

Dimensions

Length	2800 mm
Width	2250 mm
Height	2220 mm
Total weight	2490 kg / 2800 kg

Capacity

Minimum workpiece (L x W)	40 mm x 40 mm
Maximum square workpiece (L x W)	250 mm x 250 mm
Maximum rectangle workpiece (L x W)	100 mm x 400 mm
Maximum height of workpiece	225 mm
Maximum load capacity robot arm	35 kg / 70 kg
Maximum total weight on rotating table	3000 kg
Maximum stacking height	450 mm
Number of stacking stations (1 empty)	12
Maximum weight per station	250 kg
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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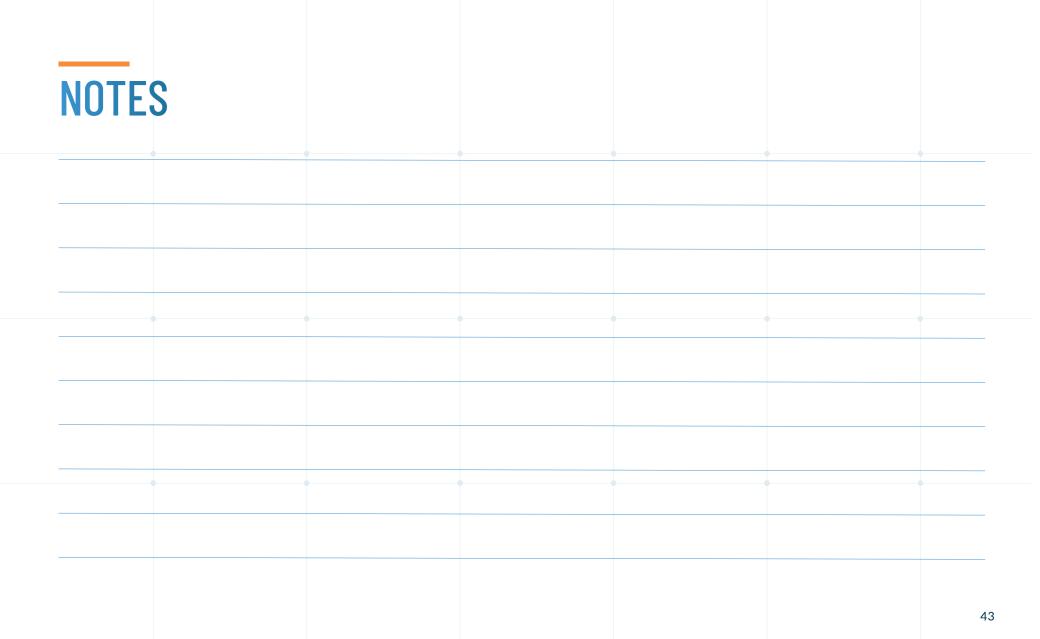
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