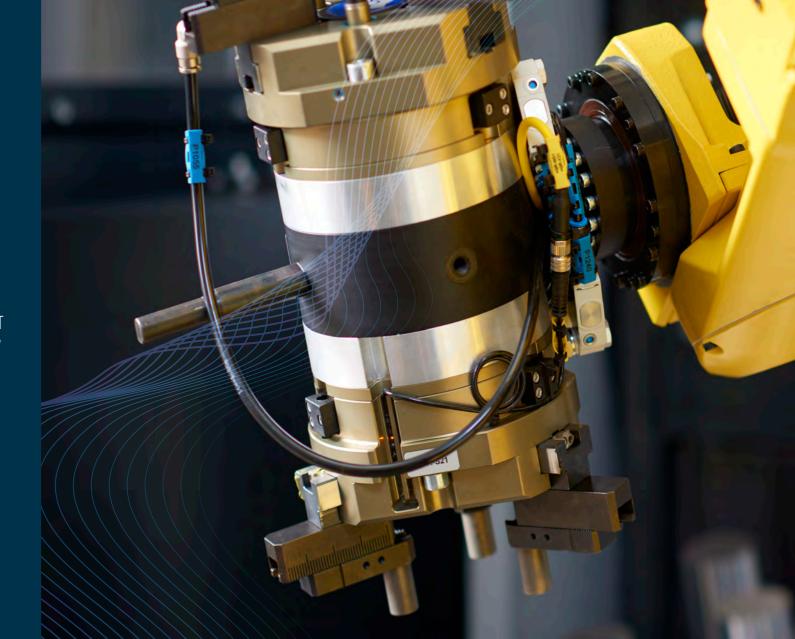




THE HALTER LOADASSISTANT IS SIMPLE AND READY TO USE AND IT CAN BE CONNECTED TO ANY NEW OR EXISTING CNC MACHINE.





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 LoadAssistant's 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!

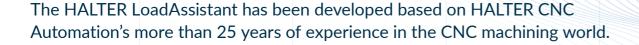
Call: +31 (0)88 015 74 00 or send an e-mail to: info@haltercnc.com





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.





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



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	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









UNIVERSAL TURNSTACKER MILLSTACKER **PREMIUM 25/35 PREMIUM 25/35 PREMIUM 25/35** TURNING/MILLING MILLING TURNING Pay load 25 kg / 35 kg 25 kg / 35 kg 25 kg / 35 kg Мах. 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



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 systemUNIVERSAL:

- 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.





INTUITIVE, GRAPHICS-BASED PROGRAMMING IN 12 STEPS

The HALTER SmartControl (e.g., the diagram the robot as the operator does not need any knowledge of robot programming. (e.g., the diagram the robot as the robot as the robot as the 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**

multiple standard loading cycles, which feeder. In addition, you also have the 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

The HALTER LoadAssistant works with sub-spindle in combination with a bar 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 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 turnkey. It is important to know that your CNC not have this, we will install a servo-controlled 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 automatic door opener, which you can also safely use when you are not using the robot and want to operate your CNC machine manually.

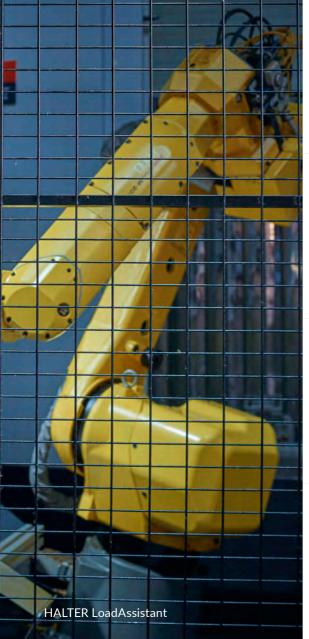
The operator training session takes place immediately after the installation. Our technicians ensure that after the training, your operator is able to work with the HALTER LoadAssistant completely independently. Our consultants will continue to provide you with advice also after the installation in order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

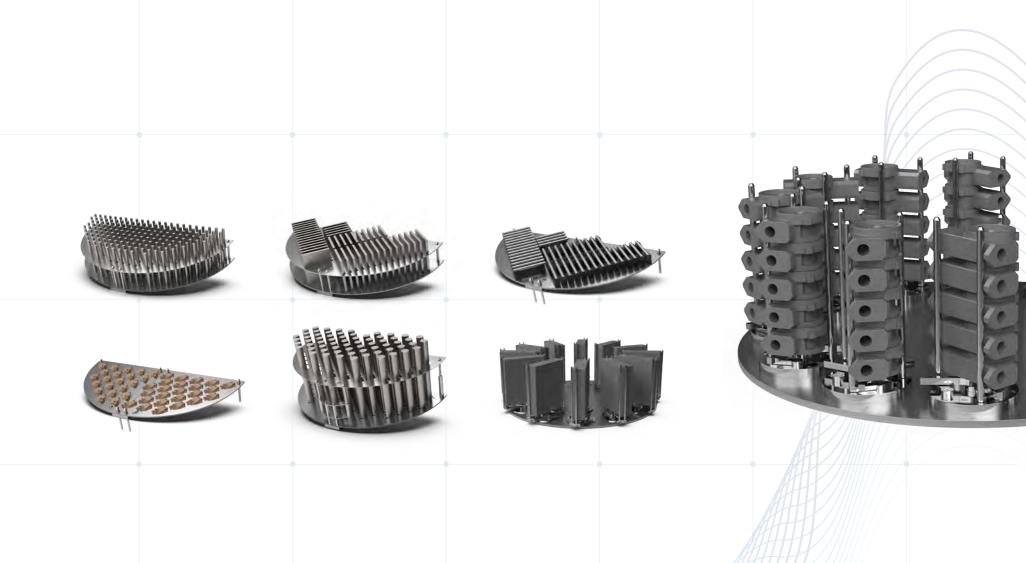
- Short delivery time from the production facility in Germany
- Turnkey delivery, set-up and training
- Top service by HALTER-certified technicians
- Application engineering and consultancy



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	12 kg
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	✓

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 turnaround function for two-sided	
machining	•
Workpiece regripping for accurate positioning	,
Unload-only function in combination with bar feed	er 🕟
Inside and outside gripping	•
Workpiece loading in chuck with or without	
pressure star	•
Adjusting airblow distance	,
Working with spindle orientation of the CNC machir	ne •
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

Grippers		Capacity	
2-finger gripper for rectangular workpieces	Option	Workpiece diameter (min-max)	10 mm - 135 mm
3-finger gripper for round workpieces	Option	Minimum workpiece (L x W)	10 mm x 10 mm
2-finger gripper for long shafts	Option	Maximum workpiece (L x W)	135 mm x 135 mm
Separate grippers for raw and machined workpieces	✓	Maximum height of workpiece	150 mm
Airblow system	✓	Maximum load capacity robot arm	12 kg
Workpiece detection system by open/close message	✓	Maximum total weight on rotating table	500 kg
Quick change system for exchanging grippers	Option	Max. number of workpieces for grid plate 10-35 mm	166
Quickly adjustable gripper fingers	✓	Max. number of workpieces for grid plate 23-55 mm	92
Workpiece-specific gripper fingers	Option	Max. number of workpieces for grid plate 23-85 mm	44
Pressure sensor on the robot arm monitors air pressure	✓	Max. number of workpieces for grid plate 23-115 mm	32
		Max. number of workpieces for grid plate 23-135 mm	18
Safety		Workpiece-specific grid plates	Option
In-machine-space function	✓		
Fanuc DCS area in combination with the Sick floor scanner	✓	Capacity for long shafts	
Sliding door provided with safety sensors	✓	Workpiece diameter (min-max)	10 mm - 40 mm
Standard safety fence between CNC machine and the Halter	✓	Minimum workpiece (L x W)	10 mm x 10 mm
Autom. servo-driven door opener with integrated safety		Maximum workpiece (L x W)	40 mm x 40 mm
mechanism	Option	Maximum height of workpiece	250 mm
Closed safety circuit	✓	Maximum weight of workpiece (turning)	5 kg
		Maximum weight of workpiece (milling)	5 kg
Input		Maximum load capacity robot arm	12 kg
Voltage	400 V	Maximum total weight on rotating table	500 kg
Peak consumption	16 A	Max. number of workpieces for grid plate 10-35 mm	166
Compressed air pressure	6 bar	Max. number of workpieces for grid plate 23-55 mm	92
Dimensions			
Length	1350 mm		

1250 mm

2030 mm

950 kg

Width

Height

Total weight

UNIVERSAL PREMIUM 25/35







System

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
oush function
Vorkpiece turnaround function for two-sided
nachining
Vorkpiece regripping for accurate positioning
Unload-only function in combination with bar feede
nside and outside gripping
Vorkpiece loading in chuck with or without
ressure star
Adjusting airblow distance
Vorking with spindle orientation of the CNC machine
Eccentric loading and unloading
Robot park positioning button

$\label{thm:halter} \textbf{HALTER SmartControl enables the following optional functionalities}$

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		Capacity	
2-finger gripper for rectangular workpieces	Option	Workpiece diameter (min-max)	10 mm - 270 mm
3-finger gripper for round workpieces	Option	Minimum workpiece (L x W)	10 mm x 10 mm
2-finger gripper for long shafts	Option	Maximum workpiece (L x W)	270 mm x 270 mm
Separate grippers for raw and machined workpieces	✓	Maximum height of workpiece	250 mm
Airblow system	✓	Maximum load capacity robot arm	25 kg / 35 kg
Workpiece detection system by open/close message	✓	Maximum total weight on rotating table	500 kg / 750 kg
Quick change system for exchanging grippers	Option	Max. number of workpieces for grid plate 10-35 mm	176
Quickly adjustable gripper fingers	✓	Max. number of workpieces for grid plate 23-55 mm	136
Workpiece-specific gripper fingers	Option	Max. number of workpieces for grid plate 23-85 mm	68
Pressure sensor on the robot arm monitors air pressure	✓	Max. number of workpieces for grid plate 23-115 mm	40
		Max. number of workpieces for grid plate 23-135 mm	24
Safety		Max. number of workpieces for grid plate 23-175 mm	18
In-machine-space function	✓	Max. number of workpieces for grid plate 23-195 mm	14
Fanuc DCS area in combination with the Sick floor scanner	✓	Max. number of workpieces for grid plate 23-230 mm	10
Sliding door provided with safety sensors	✓	Max. number of workpieces for grid plate 23-270 mm	6
Standard safety fence between CNC machine and the Halter	✓	Workpiece-specific grid plates	Option
Autom. servo-driven door opener with integrated safety			
mechanism	Option	Capacity for long shafts	
Closed safety circuit	✓	Workpiece diameter (min-max)	- / 10 mm - 40 mm
		Minimum workpiece (L x W)	- / 10 mm x 10 mm
Input		Maximum workpiece (L x W)	- / 40 mm x 40 mm
Voltage	400 V	Maximum height of workpiece	- / 450 mm
Peak consumption	16 A	Maximum weight of workpiece (turning)	- / 8 kg
Compressed air pressure	6 bar	Maximum weight of workpiece (milling)	- / 8 kg
		Maximum load capacity robot arm	- / 35 kg
Dimensions		Maximum total weight on rotating table	- / 750 kg
Length	1750 mm	Max. number of workpieces for grid plate 10-35 mm	- / 160
Width	1434 mm	Max. number of workpieces for grid plate 23-55 mm	- / 130
Height	2220 mm	Max. number of workpieces for grid plate 23-85 mm	- / 64
Total weight	1110 kg / 1120 kg		

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	✓	

21 inch

HALTER SmartControl

Intuitive and graphical programming in 12 steps
Touchscreen
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

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	√

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		Capacity	
2-finger gripper for rectangular workpieces	Option	Workpiece diameter (min-max)	10 mm - 300 mm
3-finger gripper for round workpieces	Option	Minimum workpiece (L x W)	10 mm x 10 mm
2-finger gripper for long shafts	Option	Maximum workpiece (L x W)	300 mm x 300 mm
Separate grippers for raw and machined workpieces	✓	Maximum height of workpiece	300 mm
Airblow system	✓	Maximum load capacity robot arm	35 kg / 70 kg
Workpiece detection system by open/close message	✓	Maximum total weight on rotating table	3000 kg
Quick change system for exchanging grippers	Option	Max. number of workpieces for grid plate 10-35 mm	320
Quickly adjustable gripper fingers	✓	Max. number of workpieces for grid plate 23-55 mm	220
Workpiece-specific gripper fingers	Option	Max. number of workpieces for grid plate 23-85 mm	120
Pressure sensor on the robot arm monitors air pressure	✓	Max. number of workpieces for grid plate 23-115 mm	82
		Max. number of workpieces for grid plate 23-135 mm	44
Safety		Max. number of workpieces for grid plate 23-175 mm	28
In-machine-space function	✓	Max. number of workpieces for grid plate 23-195 mm	24
Fanuc DCS area in combination with the Sick floor scanner	✓	Max. number of workpieces for grid plate 23-230 mm	18
Sliding door provided with safety sensors	✓	Max. number of workpieces for grid plate 23-300 mm	10
Standard safety fence between CNC machine and the Halter	✓	Workpiece-specific grid plates	Option
Autom. servo-driven door opener with integrated safety			
mechanism	Option	Capacity for long shafts	
Closed safety circuit	✓	Workpiece diameter (min-max)	10-40 mm / 10-80 mm
		Minimum workpiece (L x W)	10 mm x 10 mm
Input		Maximum workpiece (L x W)	40x40 mm / 80x80 mm
Voltage	400 V	Maximum height of workpiece	450 mm / 800 mm
Peak consumption	16 A / 32 A	Maximum weight of workpiece (turning)	8 kg / 30 kg
Compressed air pressure	6 bar	Maximum weight of workpiece (milling)	8 kg / 23 kg
		Maximum load capacity robot arm	35 kg / 70 kg
Dimensions		Maximum total weight on rotating table	3000 kg
Length	2800 mm	Max. number of workpieces for grid plate 10-35 mm	320
Width	2250 mm	Max. number of workpieces for grid plate 23-55 mm	220
Height	2220 mm	Max. number of workpieces for grid plate 23-85 mm	120
Total weight	2490 kg / 2800 kg		

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	✓
Input can be entered in inches or mm Software analysis for machine utilization	✓
	- <u> </u>

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

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	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

Capacity

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



TURNSTACKER 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	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	✓

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

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	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

Capacity

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



TURNSTACKER BIG 35/70







System

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

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

Gripper	s
3-finger	و

Separate grippers for raw and machined workpieces Airblow system	✓
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	✓

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

Input

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

Dimensions

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

Capacity

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



MILLSTACKER COMPACT 12







System

o,stem	
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

ntuitive and graphical programming in 12 steps	✓
Touchscreen	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

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	✓

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

Gri	pp	er	S
2-f	ing	er	6

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	✓

SafetyIn-machine-space function

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	16 A
Compressed air pressure	6 bar

Dimensions

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

Capacity

Supusity	
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



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	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	✓
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	✓

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 scanne	r
Sliding door provided with safety sensors	
Standard safety fence between CNC machine and the Hal	ter
Autom. servo-driven door opener with integrated safety	
mechanism	
Closed safety circuit	

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

Capacity

Option

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



MILLSTACKER BIG 35/70







System

Jysteili	
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	✓
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	√

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

Width

Height

Total weight

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	400 V
Peak consumption	16 A / 32 A
Compressed air pressure	6 bar
Dimensions	
Length	2800 mm

Capacity

2250 mm

2220 mm

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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