



HALTER LoadAssistant®

Easy CNC automation [to boost your profits!](#)



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



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 SERIES.

Immediately increase profits **with the right automation!**

The market for you, as a business in the metalworking industry, has changed significantly in recent years. Your customers have become more demanding than even before. They expect you to supply at competitive prices, but they also demand smaller series 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.

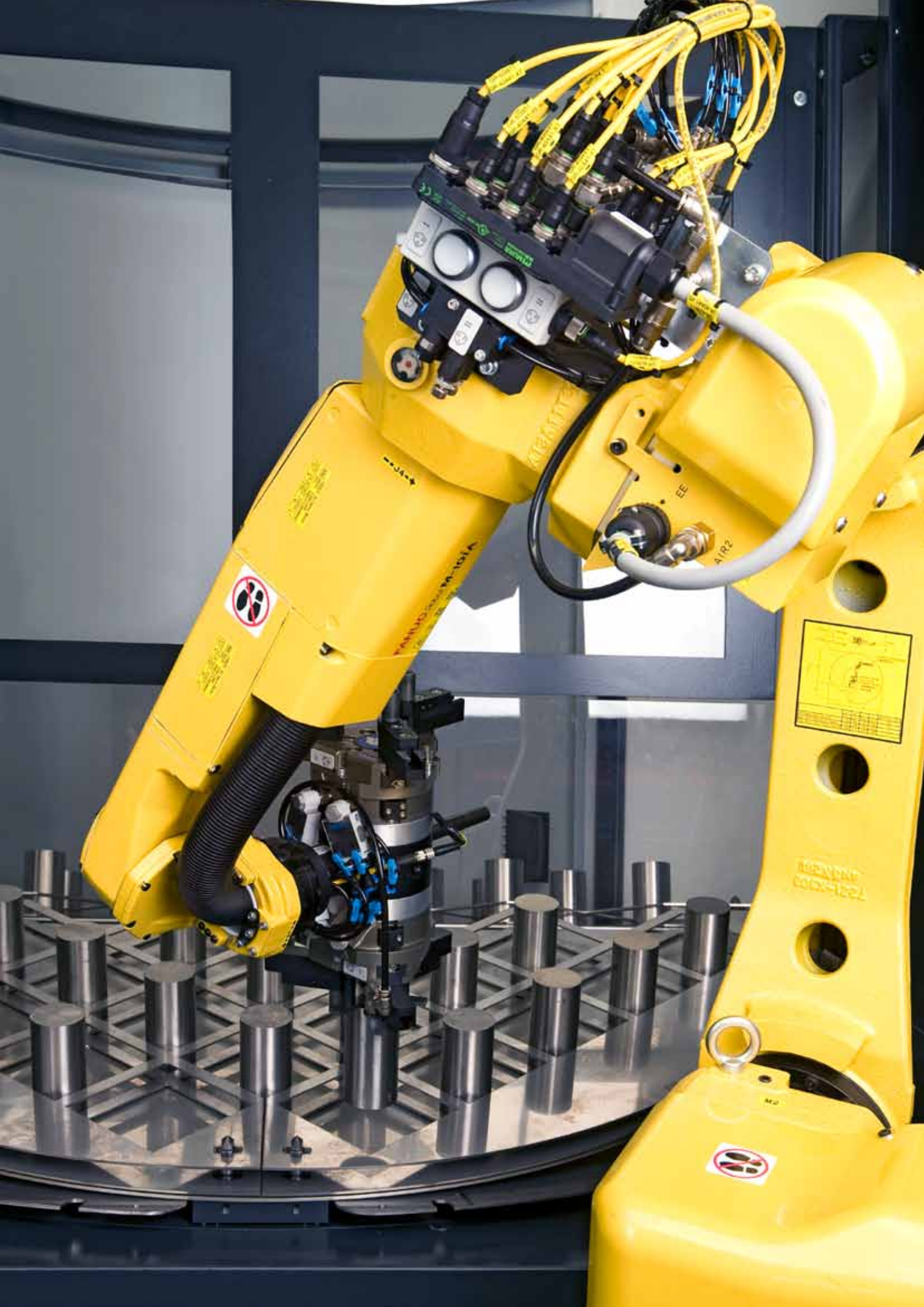
The only way to resolve these challenges is to choose the right automation. For small and medium series this should be an automation system that is fast to set up and easy to integrate into existing processes.

Easy loading system with short set-up times

The HALTER LoadAssistant has been developed based on HALTER CNC Automation's many years of experience in the metalworking industry and in production automation.

It is a smart and sophisticated system and it does exactly what it is designed to do: load your CNC machine with small and medium series. 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 like many other companies have already done? Do you want to invest in a system that provides years of trouble-free loading of your CNC machines, even with smaller series? Then choose the HALTER LoadAssistant and get in touch with us today!





THE HALTER LOADASSISTANT WAS DEVELOPED IN COOPERATION WITH THE FASTEMS GROUP. FASTEMS IS THE WORLD LEADER IN THE FIELD OF MANUFACTURING AUTOMATION. IT HAS INSTALLED MORE THAN 1,500 FMS SYSTEMS (FLEXIBLE MANUFACTURING SYSTEMS) AND HAS IMPLEMENTED MORE THAN 350 PORTALS AND 1,600 ROBOTIC SYSTEMS WORLDWIDE.



HALTER LOADASSISTANT IS PRODUCED IN ISSUM, GERMANY.

About us

HALTER CNC Automation has developed the HALTER LoadAssistant based on over 25 years of experience in the metalworking industry. No one understands the issues metalworking companies are struggling with better than we do. Customers expect shorter delivery times, margins are under pressure, and there is a growing shortage of skilled operators. Moreover, the expensive CNC machines have an insufficient number of spindle hours.

The mission of HALTER CNC Automation is to help metalworking companies become more profitable immediately, even when producing smaller series. The HALTER LoadAssistant provides a standard and easily accessible solution, which is successfully being used by many companies in Europe and the United States.

Your key benefits

1 HALTER LoadAssistant increases your production output, machine efficiency and profits:

- The additional machining hours at a lower cost immediately result in higher production output and higher profitability.
- One operator can operate more than one machine at the same time, improving the utilization rate of your machine park.
- Automation lowers labor costs, as the average labor costs are 5 to 8 times higher than the average depreciation cost per hour of the robot.

The payback period of your investment is 6-12 months.



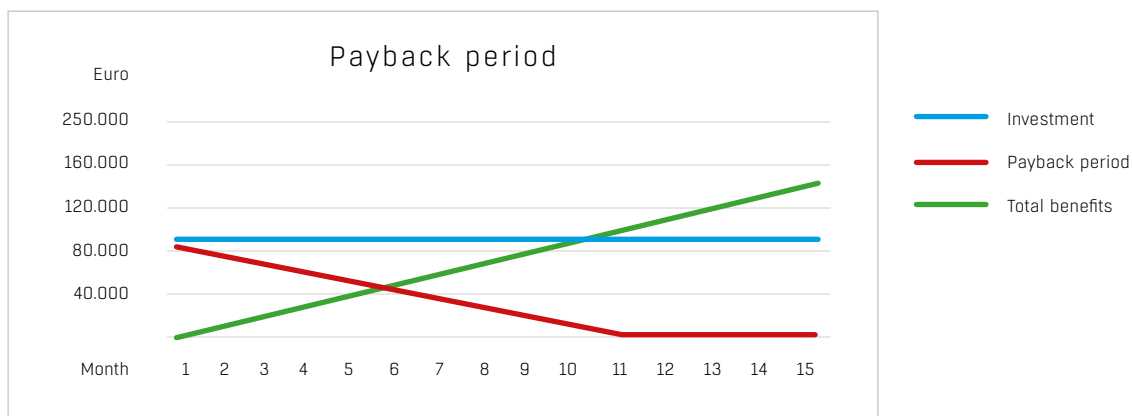
2 | Your qualified operators are better utilized

Operators are qualified to set up and program CNC machines. Most of the time, however, they are engaged in tedious and repetitive work. The HALTER LoadAssistant takes over this work, allowing your qualified operators to focus on work preparation, testing, configuring other machines, and creating CNC programs. The content of their job therefore becomes more appealing and the operators become more efficient.

3 | It increases flexibility as it can be used with several of your CNC machines

The HALTER LoadAssistant can easily be moved with a pallet truck and connected to another CNC machine in your workshop. The HALTER LoadAssistant is equipped with software for both turning and milling jobs. The universal grid plates can be used for both turning and milling workpieces.

By investing in one loading robot you can automate several machines, allowing you to respond to the demand of your customers in a more flexible way.



Easy CNC automation

The HALTER LoadAssistant is a robotic system for loading workpieces into CNC machines. It is a universal for both CNC lathes and machining centers, with a rotating loading system that can handle a large range of workpieces very quickly. It assists your team in increasing production output and improves your profits immediately, even when dealing with small series.

The HALTER LoadAssistant has been designed to minimize the set-up time, enabling you to automate even small series.

Compact all-in-one design

No additional units, fences or cables necessary

Rotating system allows filling from the backside

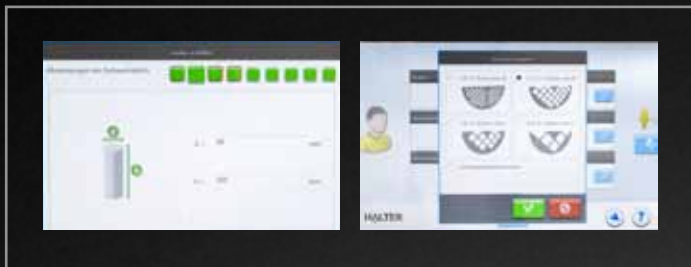
Minimal occupation of floor space, including the safety zone

HALTER SmartControl

No robotics experience required

Program ready in just a few steps

Brilliant in its simplicity



Rotating loading system

Standard universal grid plates for workpieces up to 230 mm

Grid plates are adjustable in height

Loading table rotates automatically 180 degrees

No need to stop the robot or the CNC machine while preparing a new series

Easy to move and switch to another CNC machine

Movable with a pallet truck

Quick calibration possible thanks to the self-centering anchors

Automatic identification of the CNC machine



to boost your profits!

Fanuc 6-axis robot arm

Maximum load capacity of robot arm: 10 kg, 20 kg or 35 kg

Suitable for industrial environments, high standards regarding stability and accuracy

Optimal gripper system

Quick and easy to adjust

2-finger or 3-finger grippers

Air blow cleaning system on grippers



Total set-up time less than 5 minutes

Especially convenient for smaller series

No robot programming necessary

Just enter the dimensions of the product to be loaded

Accessible and safe

Machine is accessible by the operator at all times

Equipped with floor scanner to slow down and stop the robot arm

No compromise on total safety of your operator



Watch the movies on our website to see how it works! www.haltercncautomation.com



Why choose the HALTER LoadAssistant®

- HALTER SmartControl – no robotics experience required
- Minimal set-up times, therefore also very suitable for small series
- Robot can continue operating while setting up a new series
- Design based on 25 years of experience in the metalworking industry and production automation
- Minimal occupation of floor space, including safety zone
- One HALTER LoadAssistant for both your lathe and machining center
- Your CNC machine remains fully accessible
- Compact all-in-one design; no additional units, fences or cables necessary
- Provides your operators with the highest level of safety
- Best possible service by certified technicians



"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!"

Important services for our customers

- Short delivery time from the production facility in Germany
- Turnkey delivery and commissioning
- Top service by HALTER-certified technicians
- Favorable financing conditions





References

The HALTER LoadAssistant can be connected to any new or existing CNC machine. On our website you will find short movies showing recent installations.

THE HALTER LOADASSISTANT IS ALREADY CONNECTED TO:
MAZAK, OKUMA, DOOSAN, DMG MORI, HURCO, KITAMURA,
HWACHEON, HYUNDAI-KIA, INDEX, VICTOR, MIKRON,
NAKAMURA-TOME, HAAS, QUASER AND OTHER BRANDS.

How it works

How exactly does the HALTER LoadAssistant work?
Please visit our website for a short video explanation.

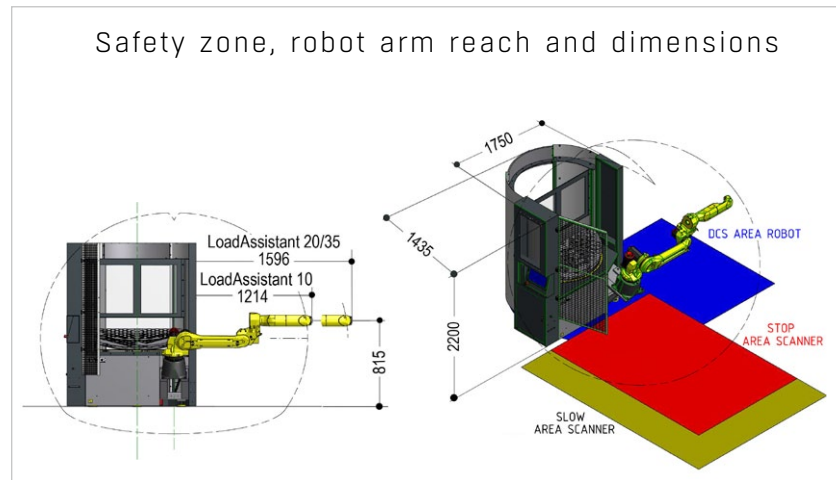


Installation and instruction

The HALTER LoadAssistant is delivered turnkey. It is important to know that your machine does not need to be equipped with a so-called 'robot interface' from your machine supplier. Our certified technicians make the connection between your machine and the HALTER LoadAssistant through a PLC. Thanks to the standardized HALTER interface protocol, our installation represents a significant cost savings.

Your CNC machine needs to be equipped with an automatic door opener to be able to work with the HALTER LoadAssistant. In case your machine doesn't have a door opener, we can build it in for you.

The operator training session takes place immediately after the installation. Our technicians ensure that after the training, your operator is able to work independently with the HALTER LoadAssistant.



Service

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



IT IS IMPORTANT TO KNOW THAT YOUR MACHINE DOES NOT NEED TO BE EQUIPPED WITH A SO-CALLED 'ROBOT INTERFACE' FROM YOUR MACHINE SUPPLIER. OUR CERTIFIED TECHNICIANS MAKE THE CONNECTION BETWEEN YOUR MACHINE AND THE HALTER LOADASSISTANT THROUGH THE STANDARDIZED HALTER INTERFACE PROTOCOL.



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



HALTER
SERVICE PARTNER

Technical specifications

System	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
Rotating loading table	✓	✓	✓
HALTER SmartControl	✓	✓	✓
Rotating operator console with 15" touch screen	✓	✓	✓
Fanuc 6-axis robot arm	✓	✓	✓
Standard robot-machine interface for all CNC machines	✓	✓	✓
Movable with pallet truck	✓	✓	✓
3-point self-centering anchors	✓	✓	✓
Calibration kit	✓	✓	✓
Capacity	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
Workpiece diameter (min-max)	10 mm - 230 mm	10 mm - 230 mm	10 mm - 230 mm
Minimum workpiece dimension L x W	10 mm x 10 mm	10 mm x 10 mm	10 mm x 10 mm
Maximum workpiece dimension L x W	230 mm x 230 mm	230 mm x 230 mm	230 mm x 230 mm
Maximum height of workpiece	250 mm	250 mm	250 mm
Maximum load capacity robot arm	10 kg	20 kg	35 kg
Maximum total weight on rotating table	250 kg	750 kg	750 kg
Grid plate 10 - 35 mm (max no. of workpieces: 176)	Option	Option	Option
Grid plate 23 - 55 mm (max no. of workpieces: 136)	✓	✓	✓
Grid plate 23 - 85 mm (max no. of workpieces: 68)	Option	Option	Option
Grid plate 23 - 115 mm (max no. of workpieces: 40)	✓	✓	✓
Grid plate 23 - 135 mm (max no. of workpieces: 24)	Option	Option	Option
Grid plate 23 - 155 mm (max no. of workpieces: 18)	✓	✓	✓
Grid plate 23 - 230 mm (max no. of workpieces: 6)	Option	Option	Option
Grippers	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
2-finger gripper	Option	Option	Option
2-finger gripper	Option	Option	Option
Air-blow cleaning system on grippers	✓	✓	✓
Safety	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
Floor scanner with DCS system	✓	✓	✓
Safety switch on sliding door	✓	✓	✓
Built-in safety fence	✓	✓	✓
Closed safety circuit	✓	✓	✓
Input	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
Voltage	400 V	400 V	400 V
Peak consumption	16 A	16 A	16 A
Compressed air pressure	6 Bar	6 Bar	6 Bar
Dimensions	LoadAssistant 10	LoadAssistant 20	LoadAssistant 35
Length	1750 mm	1750 mm	1750 mm
Width	1434 mm	1434 mm	1434 mm
Height	2220 mm	2220 mm	2220 mm
Total weight	990 kg	1110 kg	1120 kg



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Dealer

Made in Germany

Developing partner: Fastems