

H 130 handling module

Dynamic product and pack handling



MULTIVAC

BETTER PACKAGING



Dynamic handling of products and packs

The H 130 handling module automates a variety of tasks in packaging processes cost-efficiently and hygienically.

The patented stainless steel construction, which is FDA-compliant and hygienic down to the last detail, allows a full wet cleaning of the entire unit.



H 130

The consistently modular construction of the H 130, including an interchangeable gripper system, not only ensures flexibility, but also allows the machine to be adjusted to handle products and packages weighing up to 1000 g.

With a large operating range and a cycle rate of up to 120 pick & place cycles per minute, the module is very versatile.

In connection with the Multivac Vision System MVS for product inspection and detection, the H 130 becomes a highly dynamic pick & place solution.

Variable loading and unloading of packaging machines

As a stand-alone unit or in combination with other Multivac products, the H 130 is optimized for packaging machine handling tasks that can be automated:

- Product placement in packs
- Separating
- Orientation and repositioning
- Discharge
- Cartoning and other secondary packaging

With its high degree of variability and modular constructions, the H 130 handling module can be used in many different applications with a variety of products, formats, cycle times and handling weights. Products can even be placed directly on weighers during ongoing operation.

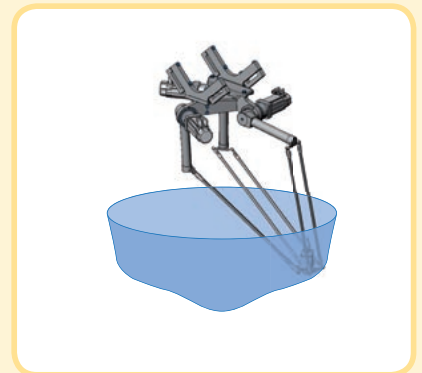
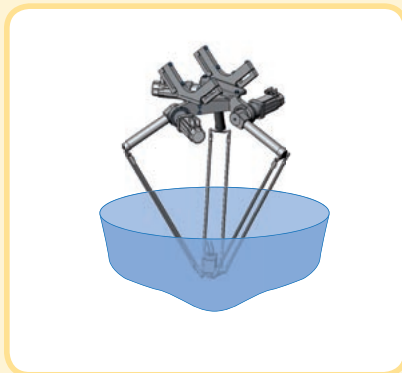
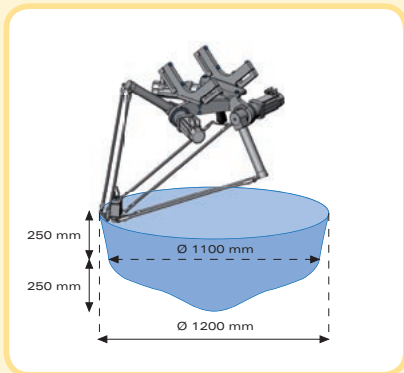
The H 130 is characterized by:

- High speed and precision
- Quick changeover
- Consistent hygienic design
- Low space requirement
- Low maintenance costs
- Works perfectly with all Multivac line components
- Full integration into packaging lines is easy





Operating space for the HR 460





The H 130 handling module consists of a portal, control unit and robot, including a gripper.

HR 460 four-axis robot: fast and accurate

The four axes of the HR 460 allow accurate spatial positioning and orientation about the vertical axis. Products weighing up to 1000 g can therefore be picked up and oriented in any direction, increasing flexibility in product infeed.

The HR 460 can be equipped with mechanical grippers or suction grippers. Its operating space of up to Ø 1200 x 500 mm and rate of more than 120 pick & place cycles per minute make it a powerful, effective component for automation.

With rigorous hygienic design and high quality components, the robots in the HR series are perfectly easy to clean. The gripper arms are available in either a lightweight titanium or carbon version, depending on the desired hygienic qualities.

- Dynamic and accurate
- Gripper system can be changed quickly and easily
- Space-saving design
- Low maintenance
- Can be used for loading, separating and cartoning

Depending on the application, the H 130 can also be equipped with other robots, such as the HR 250 two-axis robot and the HR 360 three-axis robot.

Easy and safe to use

The H 130 handling module has its own control system with a user-friendly HMI user interface which is operated from the touch screen terminal. This convenient feature makes the machine easy and safe to handle.

- User-friendly HMI user interface with 33 operating languages
- Proven software and hardware
- Common operating terminal for the handling module and packaging machine possible
- Optional stand-alone solution



Hygienic stainless steel portal

The patented and FDA-compliant and hygienic stainless steel portal is extremely stable thanks to its framework construction and welded joints. All forces that are generated are completely deflected by the frame. This means that the H 130 is extremely stable for accurate positioning of your products down to the millimeter.

The open, easily accessible frame profile with no undercuts or inner edges can be cleaned easily and quickly. The interior of the H 130 is enclosed by secure polycarbonate panes and can be accessed via two large doors.

For an extremely rugged construction that can be easily cleaned, the portal can also be equipped with doors made of perforated stainless steel sheets.

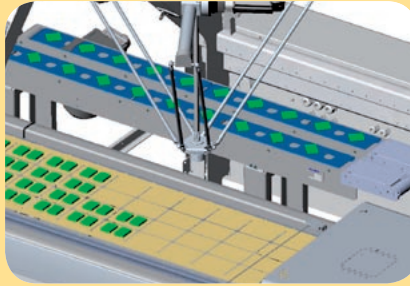
The stainless steel portal is:

- Stable and durable
- Hygienic down to the smallest detail
- Easily accessible
- Unique in design
- Especially easy to maintain due to a low number of parts



Typical applications

The H 130 can be used as a flexible system for loading Multivac machines. In this case the handling module is positioned above the insertion area. The H 130 can place even floppy products such as steaks, unbaked pizzas with toppings, medical sponges or swabs into packs.



Dynamic loading

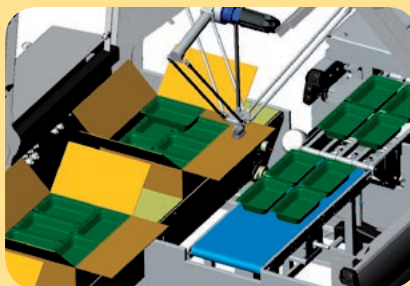


The H 130 can generate custom pack patterns with the aid of predefined programs. The H 130 finally opens the way to automated custom packing.



Custom pack pattern design

Other uses include typical toploding applications which are typically required in cartoning, for example. Here the packs are placed in a box from above. The H 130 can create almost any pack pattern to make optimum use of the space in the box. Interlayer and separation inserts can also be placed automatically.



Universal toploding

Technical data

- Range of movement:
Standard: Ø up to 1200 mm, height up to 500 mm
Optional: Ø up to 1600 mm, height up to 500 mm
- Positioning accuracy: +/- 2 mm
- Product weight: max. 1000 g
- Cycle rate: up to 120 pick & place cycles/min^{*)}
^{*)} depending on load and distance

Dimensions

Length:	1355 mm
Width:	2390 mm
Height:	2188 mm

Connections

Electrical:	400 V, 50 Hz, approx. 3.5 kW with mechanical gripper 400 V, 50 Hz, approx. 7.5 kW with suction gripper
Compressed air:	6 bar, approx. 20 standard liters/min. ^{*)} with ejector suction gripper ^{*)} depending on number and size of the packages

Protection class:	IP 65
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