

H100



Handling module H 100

Hygienic handling of packaging across the entire line



MULTIVAC
BETTER PACKAGING



Hygienic handling along the entire line

The handling module H 100 economically and hygienically automates manual handling in packaging processes. The stainless steel construction, which conforms with FDA guidelines, is patent pending by Multivac and hygienic down to the smallest detail. If desired, the unit can be washed down in its entirety.

The large 1000 x 300 mm work area of the two-axis HR 250 robot and a cycle capacity of more than 50 standard cycles per minute enable great versatility in countless applications.



H 100

The consistent modular construction, including an exchangeable gripper system, not only ensures excellent flexibility but also guarantees the perfect adaptation to products and packages weighing up to 5 kg.

Particularly in applications requiring package separation within tight spaces, the H 100 offers great advantages compared to conventional belt solutions, since those require larger positioning surfaces.

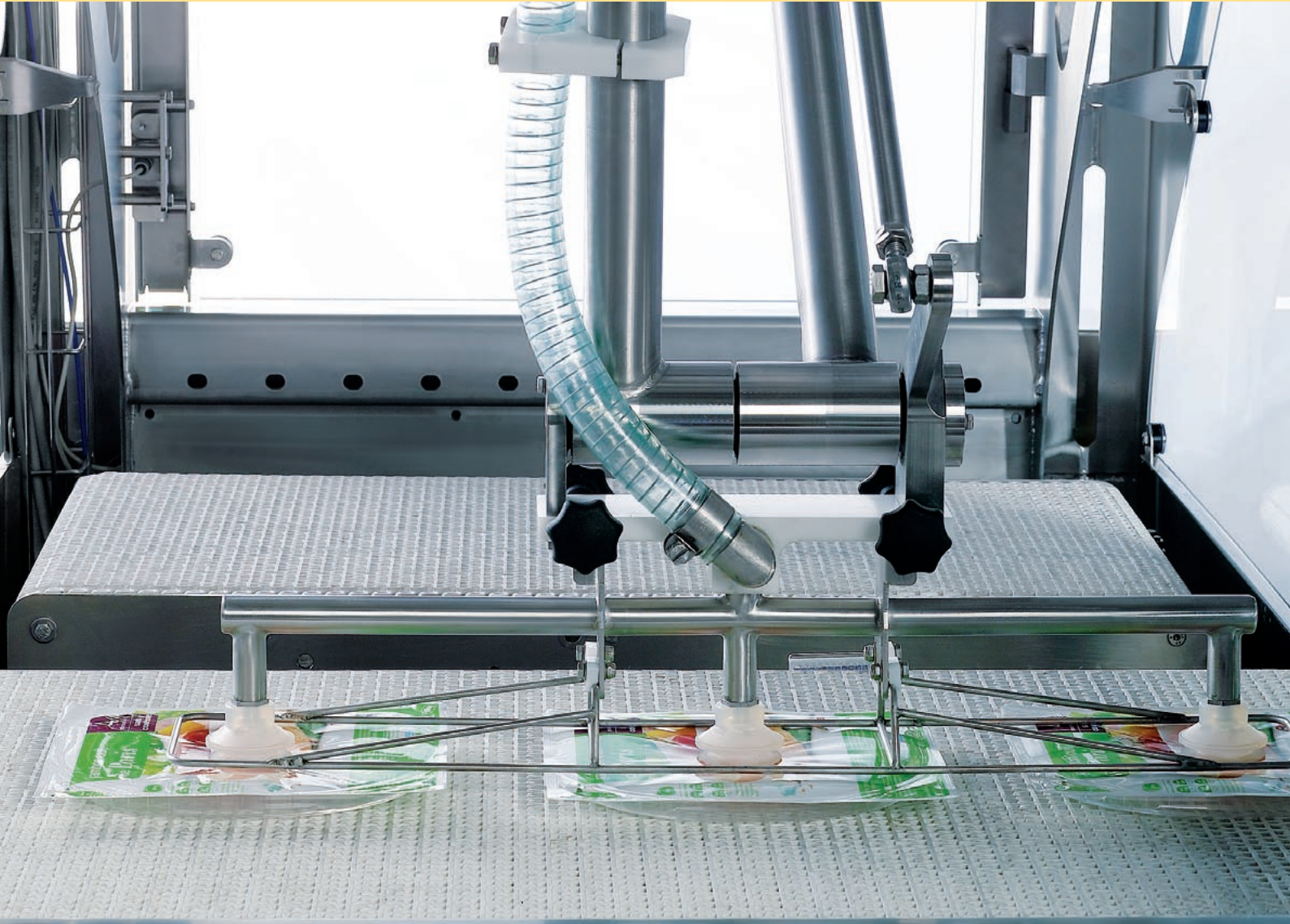
Variable loading and unloading of packaging machines

The H 100 is optimized for automatable handling tasks for every stage of the Multivac packaging line.

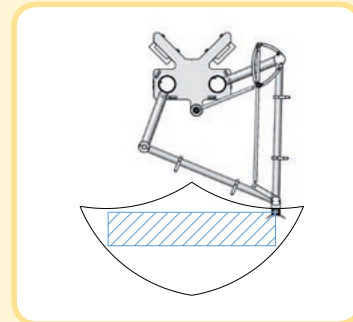
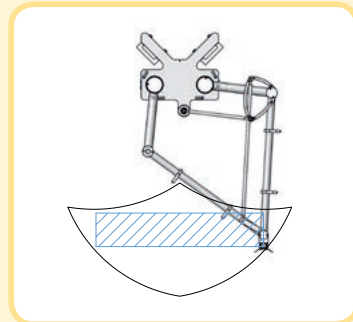
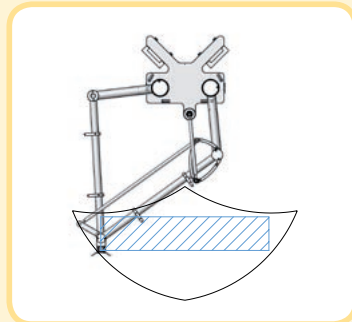
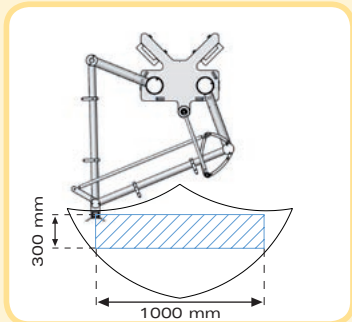
Whether it involves automatic infeeding of product into packages, downstream package separation, sorting of reject packages, and even orientation of completed packages onto scales or into cases, the H 100 offers the versatility needed for a variety of applications, products, formats, cycle times and handling weights. Even the direct disposal onto scales is possible.

The H 100 offers:

- compact footprint
- consistent hygienic design
- high speed and precision
- capacity for quick retrofitting
- low maintenance costs
- low space requirement



Work area of the HR 250





The H 100 handling module consists of the robot, control system and portal components.

HR 250 – quick two-axis robot

The two-axis HR 250 robot quickly and precisely brings products weighing up to 5 kg into the desired position. For this purpose it can be outfitted with mechanical grippers or suction grippers. Its work area of 1000 x 300 mm and a speed of more than 50 standard cycles per minute make it a highly efficient component of automation.

With its hygienic design and construction from high-grade stainless steel components, it is suitable even for wet areas and conducive to thorough sanitation.

The HR 250 is:

- quick and precise
- consistently hygienic
- easy to retrofit
- space-saving
- low maintenance
- universally applicable

The reliable control system

The H 100 has its own control system with a user-friendly HMI user interface, operated from the main terminal of the packing machine. This ensures simple and reliable handling and ease of use.

- mutual user terminal for handling module and packaging machine
- user-friendly HMI
- proven software and hardware





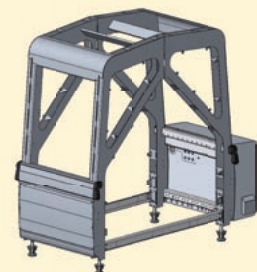
Hygienic stainless steel portal

The stainless steel portal in an open frame construction, patent pending by Multivac, conforms with FDA guidelines and is thoroughly hygienic. Its framework construction with welded connections delivers great stability. All of the created forces are perfectly diverted.

The open, easily accessible frame profile is designed without indentations, recesses or interior corners and is especially easy to clean. The interior space of the H 100 is secured with polycarbonate disks and accessible through two large doors.

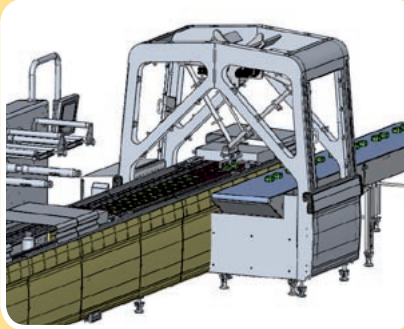
The stainless steel portal is:

- stable and durable
- hygienic in every detail
- easily accessible
- unique in its construction

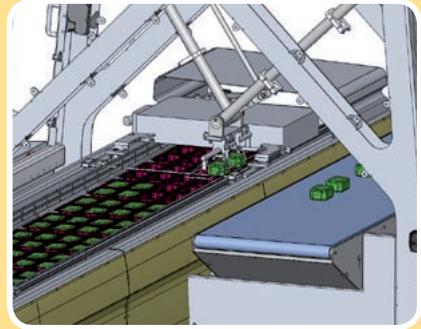


Application examples

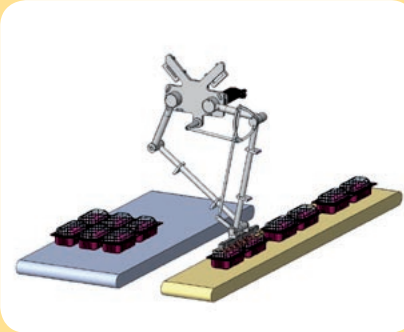
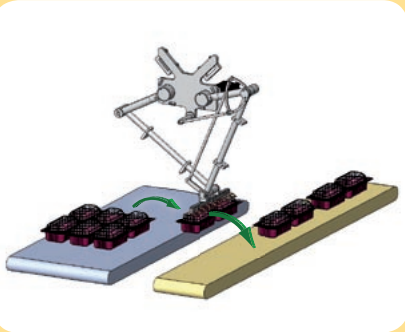
The H 100 can be used flexibly for the loading of Multivac packaging machines. For this purpose the handling module is positioned above the infeed area. The prerequisite for use is a pregrouping of the products to be packaged according to the corresponding tracks, rows or formats.



Flexible loading

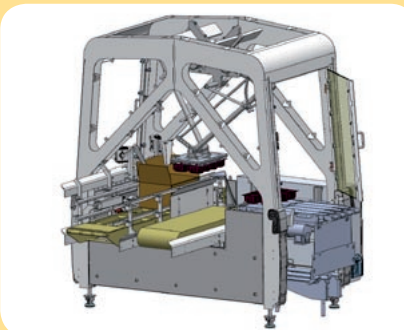


Space-saving separation of packages

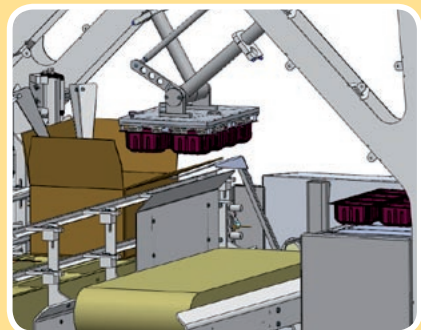


To separate the packages, the H 100 is used at the end of the machine. It demonstrates its advantages especially in tight space conditions and with changing packaging formats. At the same time, the H 100 offers the possibility of disposing of rejected packages.

Other uses are those which are typical for top loading applications, such as packaging in cartons. Here, the packages are placed into a carton from above. For the optimal use of available space within a carton, a new orientation of the package within the gripper system is also possible.



Universal top loading



Technical data

- Work area 1000 mm x 300 mm
- Product weight max. 5 kg
- Cycle time max. 50 min⁻¹ (depending on load and path)

Dimensions

Length: 1000 mm
Width: 1915 mm
Height: 2050 mm

Connections

Power supply: 400 V, 50 Hz, approx. 1.9 kW with mechanical gripper
400 V, 50 Hz, approx. 4.2 kW with suction gripper

Protection class: IP65

