

HE1M-V

Automatic strapping machine

Horizontal Endsealer - Glass



Customer benefits

Characteristics	Customer benefits
The strap is applied around the product by the movement of the package	<ul style="list-style-type: none"> • High availability • Accurate positioning of straps • High throughput
No strap arch	<ul style="list-style-type: none"> • Strap dimensions selected to suit application • Very thin and narrow straps can be used to save consumable materials • Different product sizes can be processed
Easy to integrate	<ul style="list-style-type: none"> • Machine can be placed in existing conveying system • Possible to strap by the pack flow next to the palletizer • Low space requirement for integration in existing conveyor system
Simple sealing head	<ul style="list-style-type: none"> • Few moving parts • Low servicing and maintenance costs
Two strap coils per strapping line	<ul style="list-style-type: none"> • Double run length between coil changes • High uptime

HE1M-V Technical data

Machine

Strapping cycle time	per strapping approx. 5s (PP strap) 6s (PET strap)
Strap tension	0 - 400 N (retained tension on strapped product)
Tensioning stroke	Flexible, adapted to the product
Vertical speed	Standard 50 mm/s
Machine manual movable	For fixed conveyor stop posi- tion and change of product or layer dimensions move- ment 300/600/900/1200mm
Sealing method	Heat seal for PP strap optional for PET strap
Horizontal extension arms	Standard: 400 mm Option: 340 mm or 460 mm
Minimum strapping height	From 40 mm above conveyor height resp. 350 mm above floor (or 550 mm raised)
Maximum strapping height	Up to 1500 mm above floor (or 1700 mm raised)
Dimensions	See page 4 (see layout for general dimensions)

Strap end	Automatic strap end detection
Dispenser	Separate strap dispenser with two coils; flexible location
Colours	Frame: Blue, RAL 5007 Beam: Daffodil yellow, RAL 1007 Remaining parts: Black, RAL 9011 Control desk: Grey, RAL 7035
Optional colours	At customer's request only RAL codes
Electrical supply	400 VAC, 50 Hz, 3PH+PE Voltage tolerance +/- 5% Rated power ≥ 1,2 kW
Control voltage	24 VDC
Pneumatics	6 bar / 95 psi Approx. 75 l/Cycle. (DH1300) Connection 1/2"
Machine weight	600 up to 800 kg

Conveyor

The conveyor system is not part of the machine

Control System

Free standing control desk

The human machine interface consisting of

- Main switch
- Emergency stop
- Reset button
- Analog Amperemeter for welding temprature

Operating panel KTP 400 Basic color PN

- all functions selectable via HMI
- Simple and easy-to-understand structure of the menu
- available in various languages

PLC Simatic S7-1212C (Optional AllenBradley) Interface, Signal exchange

All signals for exchange must be potential-free

The strapping machine is able to receive the following signals*

- Emergency stop
- Safety guard interlock switch 1+2
- Conveyor stopped
- Strap cycle start

The strapping machine sends the following signals*

- Emergency stop
 - Conveyer enable
 - Strapping Cycle completed
 - Malfunction indicator
 - Automatic
- (* Standard signal exchange, others optional)

Strap

Polypropylene (PP)

- Width 5 - 16 mm / Thickness 0.35 - 0.8 mm

Polyester (PET)

- Width 5 - 13 mm / Thickness 0.35 - 0.7 mm

Core size

Changeable inside diameters

Ø 200 / 200 / Ø 630 mm

Ø 280 / 200 / Ø 630 mm

Ø 400 / 150 / Ø 630 mm

(inside diameter / width / outside diameter)

Features



Cost savings

Use of smaller strap dimensions

Dimensions and quality of the strap can be used selected for the product and not the machine, with cost savings on consumable materials



Speed

High through-put

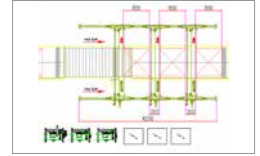
Strap is applied by the movement of the product and the sealing time is 5 seconds (DH1300)



Low running cost

Very low maintenance costs

Simple sealing head with only a few moving parts and low maintenance



Easy integration

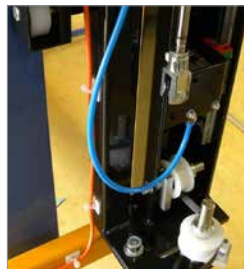
Inline strapping

Machine can be easily integrated into existing conveyor line, no space is needed for the arch

Options

Strap tension unit

Using pneumatic cylinder ensures even strapping and is recommended for hard products such as bottles



Strap end pre signal with photocell

Strap-end detection to keep non-stop production



Horizontal extension arms

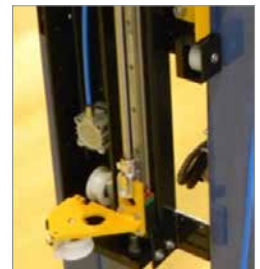
Standard: 400 mm
Option: 340 mm or 460 mm
The arms move under the bottle gripper head.

Motorized movable strap position

Programmable strap position, which are automatically approached.

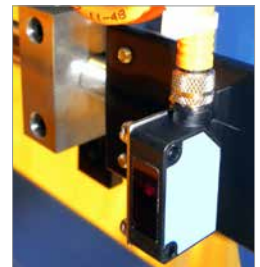
Strap lifter

Lifts the strap in case a layer of pallet has not to be strapped, mostly if Endsealer is placed before palletizer (layer strapping)



Beam protection

Photo-electric cell on the package entry side ensures that no packages come into contact with the beam

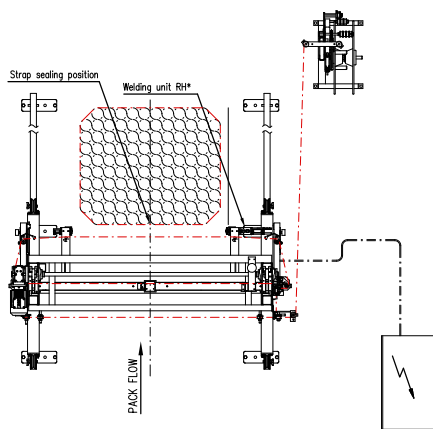
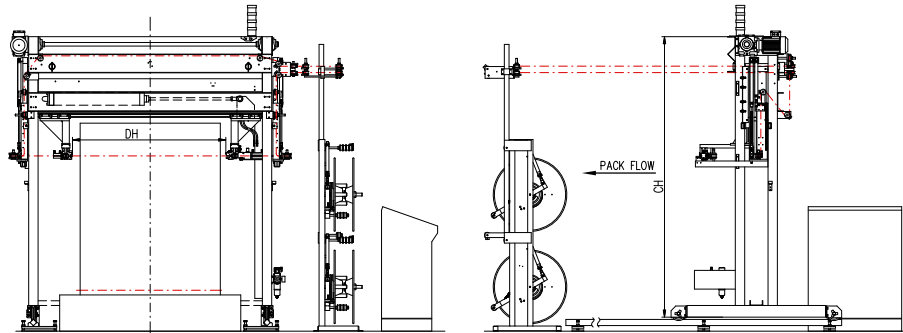


Pneumatic stopper

To stop the bottles before the strapping machine while this is strapping



Layout



Machines for pack/pallet sizes:			DH = distance between heads CH = column height
			CH
Typ	Layout	DH	2'400
HE1M-V	1811.021.033	1'300	■



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