

HE1M

Automatic strapping machine Horizontal Endsealer - singlestrap



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
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 Technical data

Machine

Strapping cycle time	per strapping approx. 6s (PP strap) 7s (PET strap)
Strap tension	0 - 400 N (on strapped package)
Tensioning stroke	Flexible, adapted to the product
Vertical speed	Standard 100 mm/s optional 300 / 400 mm/s
Sealing method	Heat seal for PP strap optional for PET strap
Minimum strapping height	From 40 mm above conveyor height or 550 mm above floor
Maximum strapping height	Up to 2700 mm (other dimensions on request)
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. 85 l/Cycle. (DH1500) 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 temperature

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
 - Conveyor 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

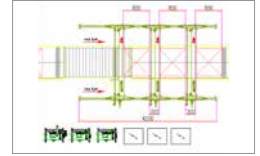
Strap is applied by the movement of the product and the sealing time is 6 seconds (DH1500)



Low running cost

Very low maintenance costs

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



Easy integration

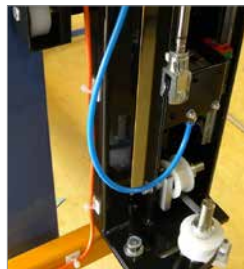
Inline strapping

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

Options

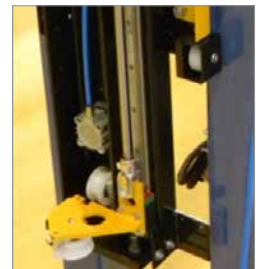
Strap tension unit

Using pneumatic cylinder ensures even strapping and is recommended for small package dimensions and PET applications



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)



Strap end pre signal with photocell

Strap-end detection to keep non-stop production



Beam protection

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



PET-Kit

Air stream through sealing head to keep smoke / dust out of head. Double strap clamp for higher tension. **Recommended for PET**



Labelling system

Labels are printed and applied during strapping process to increase capacity and to avoid damages on the products.

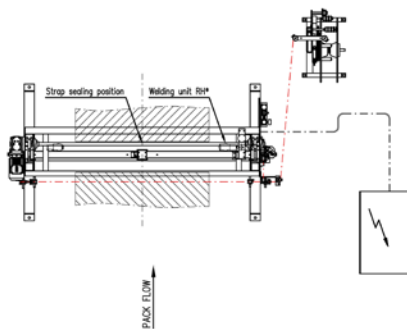
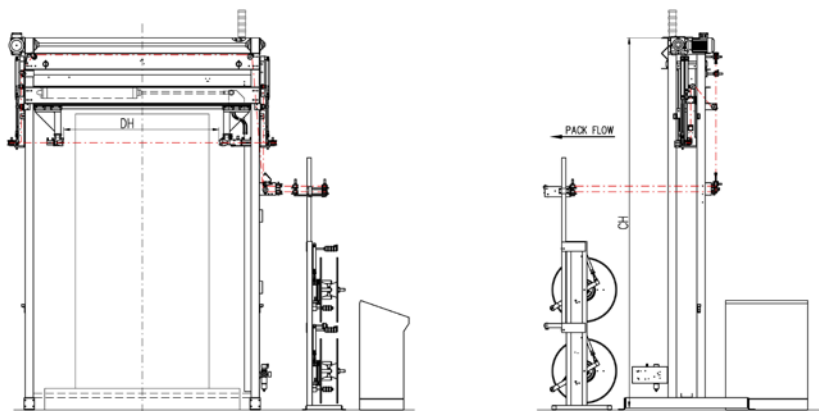


Manual movement of machine

For fixed conveyor stop position and change of product or layer dimensions (such as paving stones)



Layout



Machines for pack/pallet sizes:		DH = distance between heads CH = column height				
		CH				
Typ	Layout	DH	2'400	2'800	3'200	3'600
HE1M	1811.021.021	900	■	■	■	■
HE1M	1811.021.022	1'100	■	■	■	■
HE1M	1811.021.023	1'300	■	■	■	■
HE1M	1811.021.024	1'500	■	■	■	■
HE1M	1811.021.025	1'700	■	■	■	■



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