

VSS 30.357

Automatic strapping machine

Vertical strapping with side seal



Customer benefits

Characteristics	Customer benefits
Machine equipped with sword, can be placed on floor level	<ul style="list-style-type: none"> · Automatic pallet strapping on floor level possible
Indexing strapping head, stroke automatically adapting to load	<ul style="list-style-type: none"> · Tight strap tension, even for varying load widths
Compact design Control cabinet and dispenser integrated	<ul style="list-style-type: none"> · Less space required
User-friendly control panel with push buttons and symbols	<ul style="list-style-type: none"> · Easy operation · Secure continuous duty
Robust and proven design with first class industrial components	<ul style="list-style-type: none"> · High availability · Low maintenance cost
Machine, strap and after-sales service as a total package	<ul style="list-style-type: none"> · Strapex – your solution provider

Machine

Strapping cycle time per strap	With sword 9–15 s With underfeed 6–12 s Depending on – Arch and package sizes – Head stroke – Strap PP or PET – Adjusted strap tension
Strap tension	250–950 N Adjustable by potentiometer
Sword or underfeed	Pallet loads: sword No pallets: underfeed
Indexing head	– Up to arch size 1675 mm Head stroke 320 mm – Arch size 1900 mm Head stroke 570 mm
Sealing method	Heat weld sealing system for PP and PET strap, simple adjustment Pre-heating time 90 s

Strapping heights (from conveyor level)	Min. 600 mm (incl. pallet)
Conveyor height	Min. 190 mm with undertrack 0 mm with sword (possible)
Arch dimensions	See page 4
Strap dispenser	Mounted on sword box or laterally on the floor
Colours	Machine frame: Blue, RAL 5007 Head frame, strapping arch: Yellow, RAL 1007
Electrical supply	400 VAC, 50 Hz, 3PE 460 VAC, 60 Hz, 3PE Rated power 1,2 kW
Compressed air	6 bar / 95 psi Consumption 30 NI/cycle
Machine weight	Approx. 550 kg

Conveyor

The conveying systems is not part of the VSS 30.357 machine

Control system

Control cabinet mounted on machine frame PLC control system, selected between

- Allen Bradley 5/01
- Allen Bradley Micrologic ML 1500
- Siemens S7-200

Operation panel mounted on cabinet side

Order selection: in feed side or down stream side

Operating MMI consists of

- Main switch and Emergency push button
- Push button for various start functions
- Selector switches for machine mode
- Potentiometer for strap tension selection
- Indicator lamps for machine condition indication

Interface, signal exchange

All signals for exchange must be potential free

The strapping machine is able to receive the following signals

- Start of strapping cycle
- External Emergency-Stop is activated

The strapping machine sends the following signals

- Strapping program completed
 Machine ready
- General fault

Strap

Polypropylene (PP)	Width	12 mm
	Thickness	0,65–0,85 mm
Polyester (PET)	Width	9, 12 mm
	Thickness	0,53–0,75 mm

Core size	Ø	406 mm
	Width	152 mm
Strap end	Automatic strap end detection and ejection	

Features

Simple operation

User friendly control panel



Service aspects

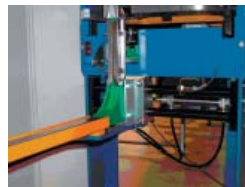
Fast and easy head change due to head mounted by only four screws and all electrical connections by one plug



Options

Sword and underfeed

To strap loads with or without pallets (incl. elevation supports)
Conveying height min. 190 mm



Sword area control

Sword protection, for manual load positioning



Strap tension equaliser

Strap tensioning system with electronic controlled torque system and pneumatic assisted strap

tension equaliser. For reproducible and balanced strap tension on either side of the pallet.

Head doors with hinges

Quick opening of the head covers for maintenance



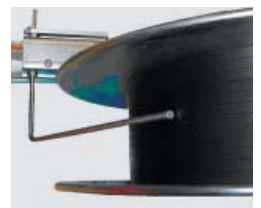
Controls for fingerpress

Control signals for external fingerpress



Strap end pre-warning

To ensure short machine downtimes when changing coils



Indicator lamp

Red	General fault
Orange	Strap end
Green	Machine ON

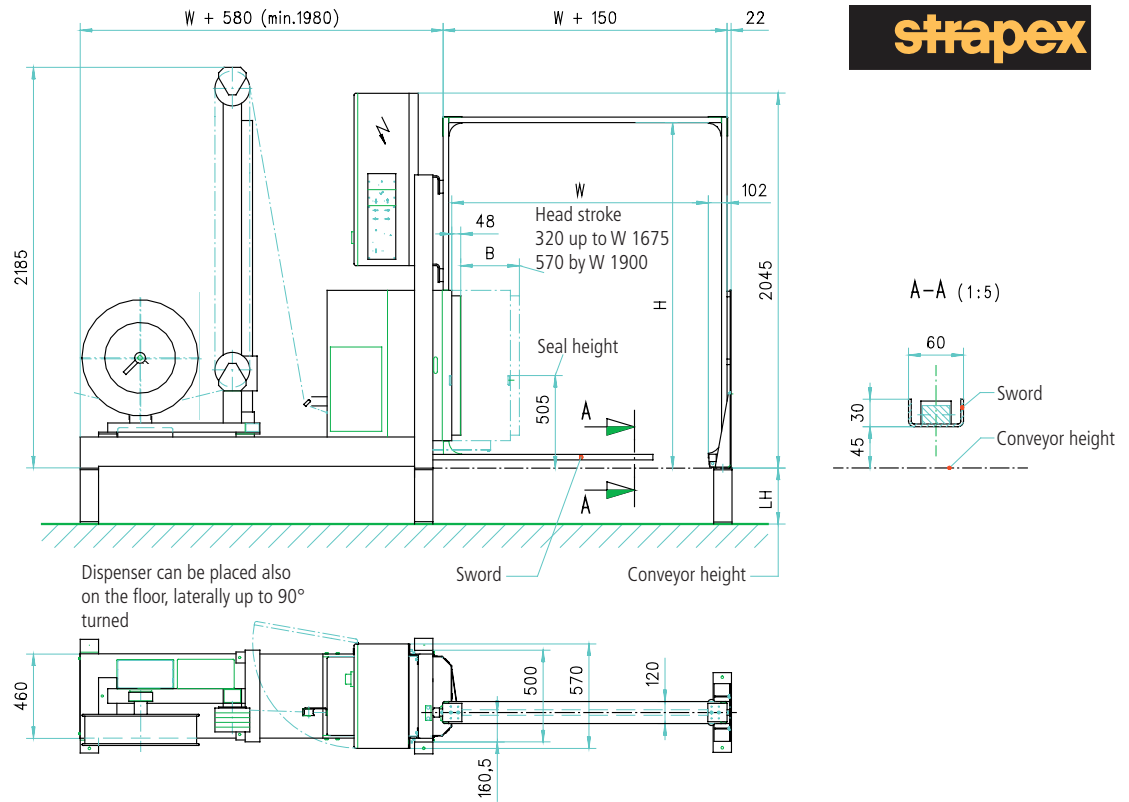


Support feet

For flexible conveyor height (to customers requirement)



**Layout:
Variant with sword**



**Arch dimensions
VSS 30.357**

Package width	< 600 (W = 730)	< 1000 (W = 1150)	< 1250 (W = 1400)	< 1500 (W = 1675)	< 1750 (W = 1900)
Package height					
600-3050 (H = 3145)					
600-2800 (H = 2905)					
600-2650 (H = 2725)					
600-2250 (H = 2305)					
600-1800 (H = 1885)					
600-1400 (H = 1465)					
600-1000 (H = 1045)					

Standard

Spezial

H = Arch height

W = Arch width

Own strap manufacturing plants

Own sales and service organisations in 11 countries

Own production units in 3 countries

Independent sales partners in 42 countries

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