

# VSM 3000

## TECHNICAL DATA SHEET

Automatic strapping machine



**TECHNICAL DATA**

Strapping head	Side mounted H 3000 L / H 3000
Strap type	Width: 9–13 mm PET      12–16 mm Thickness: 0.35–0.60 mm    0.50–0.95 mm
Strap type	Width: 9–13 mm PP      12–16 mm Thickness: 0.65–0.80 mm    0.65–0.90 mm
Strap tension	200–1200 N / 200–3000 N fully adjustable
Head carriage stroke	600 mm
Sealing method	Friction weld
Strapping height (from top of conveyor)	Min. 550 mm (incl. pallet)
Conveyor height	Min 80 mm
Chute dimensions	See table
Chute type	Bayonet: For pallets Closed-chute: For packages
Strap end	Automatic detection of the end of the strap
Electrical supply	400 VAC, 50 HZ, 3PE
Rated power	1.2 kVA
Ambient temperature	0–40°C
Throughput*	60 pallets/h, 2-fold strapping
Working height	see layout on page 4
Machine weight	Approx. 550 kg
Packages	Min. height 550 mm Max. width Arch dimension, see table Machine type (standard)
Strap coil	Ø 406 mm Width 152 mm
Colours	Machine frame: Grey aluminium, RAL 9007 Head frame: Signal yellow, RAL 1003 Control console: Light grey, RAL 7035

The straps used for the respective applications must correspond with the strap specifications recommended by Signode.

\*Performance: Depends on arch and package dimensions, conveyor speed, package distances and strap tension.

**MACHINE TYPE (STANDARD)**

Package height	Package width with closed chute or bayonet
[mm]	[mm]
H12	1200      W8*      800
H14	1400      W10      1000
H16	1600      W12      1200
H18, H20....	1800, 2000....    W14, W16...    1400, 1600...
H28, H31	2800, 3100      W20, W22      2000, 2200

\* See layout on page 4

**STANDARD EQUIPMENT**

- Single flap chute system
- Control cabinet on machine frame <sup>1</sup>  
Operator side can be selected:  
Infeed or outfeed side
- Panel equipped with components
  - Main switch
  - Emergency Stop
  - Control System Start
  - HMI panel
- Control panel Siemens KTP 700-7"  
- All functions can be selected via touch screen  
- Simple menu structure  
- Different operating languages
- Siemens PLC Simatic S7-1214C  
Standard strapping program
  - Manual
  - Cycle
  - Automatic
  - Free passthrough
- Interface, signal exchange <sup>2</sup>  
All signals at signal exchange via potential free contacts
- The strapping machine can receive the following signals <sup>3</sup>
  - Door safety switch
  - Total cycle start
  - Conveyor stopped
  - Package not finished, further strapping will follow
- The strapping machine sends the following signals <sup>3</sup>
  - Conveyor release
  - Emergency Stop
  - Emergency stop circuit closed
  - Strapping finished
  - General fault
  - Automatic
  - Door safety switch closed
- - Error message display
- Free-standing multipulley dispenser

<sup>1</sup> Version according to the standard material specification SIGxxx / 2017  
<sup>2</sup> According to the standard interfaces definition SIGxxx / 2017

Conveying system is not part of the VSM 3000 machine

**STANDARD STRAPPING HEAD**



- **H 3000 / H 3000 L**
  - Friction welding system
  - Modular design
  - Easily replaceable welding unit
  - Plastic strap PET
    - Width 9–16 mm
    - Thickness 0.35–0.95 mm
  - Plastic strap PP
    - Width 9–16 mm
    - Thickness 0.65–0.90 mm
  - 6.7 mm strap feed take-up speed
  - Process controlled tensioning and sealing

**OPERATION**

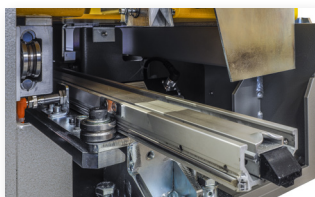


- **7" HMI operator panel**
  - Menu-navigated operation
  - Individual languages
  - All functions can be selected via touch screen

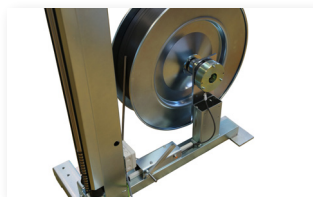


- **Signal lamp 3 colours**  
Visual information about the machine states

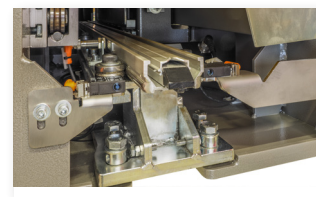
**OPTIONS**



- **Bayonet or closed-chute**  
Pallet strapping with bayonet  
Package strapping with closed-chute



- **Strap end pre-warning**  
A coil change can be prepared to guarantee high machine up time



- **Bayonet control**  
Light barrier checks passage for the pallet.  
Prevents collision with the pallet



- **Air conditioning unit**  
For use in the control cabinet in areas with increased ambient temperatures or high relative humidity

LAYOUT

VSM 3000 (W8)

