

SIGNODE MD-3000-TRB

Operatorless Pallet Strapping Machine

For fast strapping, with or without compression, easy installation

For vertical pallet securement with 9, 11 and 13 mm polypropylene or polyester strap



SwingWELD-Vibration Weld System
SUREGRIP-Tension Winder System

Patented features

Loop Ejection

Automatic strap

version shown with SP dispenser

Features and benefits

Rack and pinion compression system – provides high accuracy of pack compression – adjustable from 5000 to 10000 Newtons. Additionally, fragile products can be strapped without compression.

Variable height strap feeding – strapping head descends to pallet, enabling even very low height packs to be strapped with high retained strap tension.

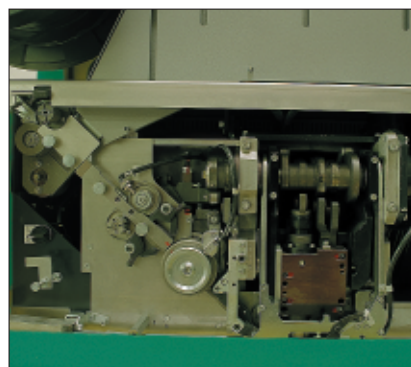
Easy on-site assembly – the top frame is removable, the machine can be shipped ready wired, thus allowing for rapid installation.

200 mm or 400 mm strap dispenser – offers customers the optimum operating solution for their business.

Automatic strap rewind – increases machine availability for maximum productivity.

Advanced MD strapping head – offers a host of operational advantages for maximum uptime, industry standard reliability and minimal maintenance.

Telescopic chute system – continuously connected tracks, reduce strap cycle time when strapping small or variable sized packs.



CE

 **SIGNODE**[®]

SIGNODE MD-3000-TRB Operatorless Pallet Strapping Machine

For fast strapping, with or without compression, easy installation

For vertical pallet securement with 9, 11 and 13 mm polypropylene or polyester strap

Design, function and operation

The Signode **MD-3000-TRB** is an operatorless strapping machine designed for palletising applications that require the strap joint to be positioned on top of the pack; or for applications where the pallet has a very low overall height.

The machine features Signode's revolutionary **MD** strapping head which delivers excellent levels of reliability. This innovative head requires virtually no maintenance, has minimal consumable parts and features an exchangeable welding module for easier servicing and maximum uptime.

The **MD-3000-TRB** also benefits from a rack and pinion system that provides accuracy of pack compression – Adjustable from 5000 to 10000 Newtons (in steps of 1000 N). Additionally, fragile products can be strapped without compression. Because the strapping head descends to the pallet, even very low height packs can be strapped with high retained strap tension.

Thanks to a removable top frame concept, the machine is also faster and easier to install. This modular design allows the system to be shipped ready-wired and erected – reducing transportation

and installation times and costs. Once the machine is installed, the top frame is simply secured in place.

Standard features such as easy strap load, automatic strap rewind and a quick-change strap dispenser system provide maximum machine availability and reduce downtime. The telescopic chute system also allows strap to be fed at any height within the chute area, reducing strap cycle time when strapping small or variable sized packs.

The patented SUREGRIP tension winder enables high tension levels to be achieved, while Signode's patented SWINGWELD technology also ensures high joint strength. Customers have a choice of 200 mm or 400 mm strap dispensers to provide the optimum operating solution for their plant.

The **MD-3000-TRB** is PLC controlled which can be extended for controlling optional functions and infeed and outfeed conveyor systems.

Full CE safety certification plus numerous safety features provide total operator protection.



Rack and pinion compression

The rack and pinion design allows high accuracy of pack adjustable from 5000 to 10000 Newtons compression. Additionally, fragile products can be strapped without compression.



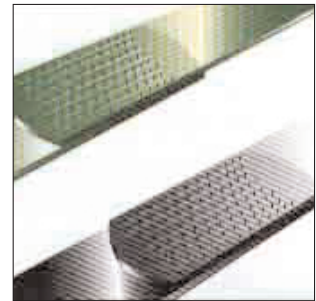
Telescopic chute system reduces strap cycle

Strap can be fed in at any height within the chute track, reducing strap cycle time when strapping small or variable sized packs.



Removable top frame for fast construction

The top frame can be removed, giving faster installation and reduced shipping times and costs.



Operational flexibility

A choice of polyester and polypropylene strap, plus 200 mm or 400 mm dispensers, provides customers with the ideal operating solution.

Options

- Non-standard chute size
- Non-standard steel portal structure
- Spare strap dispenser with take-up device
- Stand for spare strap dispenser
- PLC Controls extension
- Special power supply
- Photocell for 'low on strap' detection
- Alternative RAL machine finish, other than RAL 6000 green

Models

The **MD-3000-TRB** can be supplied with a choice of different chute sizes in three standard widths (1400, 1600 or 1800 mm) and two standard heights (1600 or 2000 mm). For polypropylene 200 mm diameter core, an integral SP dispenser is supplied, for all other strap a separate motor driven dispenser (optional) is provided.

Strapping Materials

Signode Dylastic® Polypropylene		Signode Tenax® Polyester	
714 series	11 mm	1616 series	9 mm
716 series	11 mm	1716 series	11 mm
718 series	11 mm	1718 series	11 mm
816 series	13 mm	1818 series	13 mm
818 series	13 mm	1822 series	13 mm

Technical Data

Strapping head	MD with patented new technology
Sealing method	SwingWELD - vibration seal
Strap tension	Adjustable from 100 to 2000 N
Cycle start	Initiated by external signal
Power supply	400 volts, 3 Ph, 50Hz or 440 volts, 3 Ph, 60 Hz
Power consumption	3.1 kW without conveyor
Control voltage	24 volts DC
Control	Siemens S7 PLC
Operator control	Separate control desk with push buttons and display TD200 Siemens
Max chute size	1800 x 2000 mm
Min load height	300 mm including pallet height
Machine weight	1100 kg
Machine finish	
Machine frame	RAL 6000 green
Machine movable parts	RAL 1018 yellow
Control panel	RAL 7032 grey

Worldwide Service Back-up

As a global product, consumables, service and parts back up is available from Signode distributors and partners worldwide.



www.signode.com

An ITW Company
© Signode 2001

P263 E 11/01
Printed in the U.K.