

# Signode Construction Industry Systems Solutions

Automatic and semi-automatic systems for brick, block, paver and roof tile producers

Automatic and semi-automatic systems for different packaging line solutions

PPS - Power-Pre-Stretch systems for fast & economical pallet load wrapping



Z-20 and MH range for maximum line flexibility & throughput at minimum cost

Vertical, Horizontal and small bundle strapping and wrapping solutions

Signode has a wide range of products suitable for the changing world of the global construction Industry production and logistics. The extensive range of machines both semi-automatic and fully automatic can be equipped with suitable options to solve most customers' challenges for efficient and high speed palletized and non-palletized strapping operations. The strapping machines and the stretch-wrapping machines can accommodate a wide range of products manufactured in today's ever-changing construction sector.

Providing a wide range of optimised solutions for the Construction Industry

The Octopus stretch wrapping range uses the unique wrapping method of the high-speed ring wrapping technology for on line pallet wrapping operations of palletised brick, bloc, paver or roof tile products. The machine can easily be integrated into existing or new conveyor packaging line operations and can handle a wide range of pallet loads. The machine is an ideal solution for standard pallet loads with a production capacity up to 120 pallets/hour depending on machine model, load size, wrapping programme and conveyor speed etc.

For strapping the Z-20 and the MH modular ranges can apply parallel or cross straps to secure the products for shipment. The modular MH range features light-weight easy to handle modules which can be easily changed for servicing in a few minutes to ensure optimum machine uptime and global packaging line efficiency. The modular machines can apply 9 -16mm Tenax<sup>®</sup> Polyester PET strapping efficiently at high tension to all the products.

 **SIGNODE<sup>®</sup>**

Construction Industry Solutions

Semi and Fully Automatic

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## Automatic machines for palletized loads



A Signode machine in operation strapping non-palletised concrete pavers using Signode Tenax® PET polyester strapping. Depending on the type of product the loads can also be lightly compacted or settled before strapping. Pallet loads of pavers can also be strapped by the equipment.



Signode modular MH-H horizontal strapping machine applying 13mm PET strap to paver packs



The MH-H horizontal machine featured here shows the separate feeder and sealer modules which make the MH system so reliable and durable. Even in such extreme conditions with aggressive dust particles the modules continue to work efficiently and reliably. The units apply consistently high strap tension for optimum load securement for storage and transport

MH-H machine in a paver plant running 24/7 in an extremely dusty and aggressive work environment



The simple, easy to use, reliable operator HMI touch screen control panel for the machine

The MH-series can use 9-16mm PET strapping and apply strap at various tension levels from 80 – 2.000N for high throughputs and high machine uptime. The modular heads are easy to remove for preventative equipment servicing. Should a problem occur the operator can quickly change the module by removing the quick-release power cable and then replace the module.

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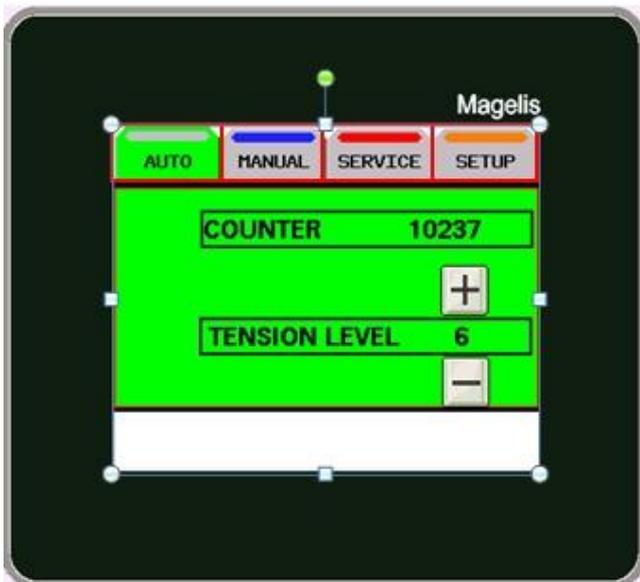
## Modular design strapping and wrapping equipment

Z-20 Modular vertical strapping machine strapping pallet less brick packs with 16mm Tenax® PET



Tandem vertical machines in a high throughput line with automatic strap feed-up to the Z-20 heads

Easy to use machine HMI touch screen for operators to select and run different programmes, strap tensions and strap patterns. At a glance colour coding show machine status and operator prompts ensure maximum machine uptime



Signode modular MH series strapping heads can also be used in high speed lines for strapping small and large roof tile packs with 9mm Tenax® PET strap or up to 12mm Dylastic® PP strapping. Auto strap feed to the sealer modules from the strap dispenser enable easy and fast strap reloading without the need to enter the machine safety area, adding to line productivity and uptime.

For high speed lines Signode can provide strapping coils of Tenax® strapping in jumbo and super jumbo coils of 73 to 135 kg. The machine have strap dispensers with their own strap loading cranes for high line productivity, long production runs without the need for strap coil reloading

After bundle strapping and palletizing the roof tile packs can be additionally strapped vertically and or horizontally for storage and transport using MH based modular head equipment. Palletized loads of high-value specialised products can be additionally secured with a special customer-unique Logowrap™ stretch film by an octopus machine to protect the load during transit but also act as a tamper-evident covering and as an additional customer product advertising medium



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Efficient, reliable and cost effective packaging systems

High speed machines for end-of-line packaging for pallets both vertical and horizontal strapping with top sheet applicator unit or also fully automatic stretch wrapping of up to 120 pallet loads an hour

All Distribution and processing centres for warehousing locations rely on same-day or overnight deliveries. This means the end of line packaging equipment has to perform to ensure high productivity levels. The MH modular machines with their unique jam resistant technology, self-clearing systems, auto strap feed up and a minimum of moving parts make them very reliable for high –speed packaging applications.

For some applications the MH machine can apply 9 to 16mm PET Tenax<sup>®</sup> strapping with applied strap tension levels of up to 2.000 N. The Z-20 strapping head can apply up to 5.000 N of strap tension. This ensures the loads are very secure and can be handled, stored, stacked and shipped to customers without damages occurring. Signode can also supply materials handling systems for the loads to integrate the strapping machines into a turn-key system.

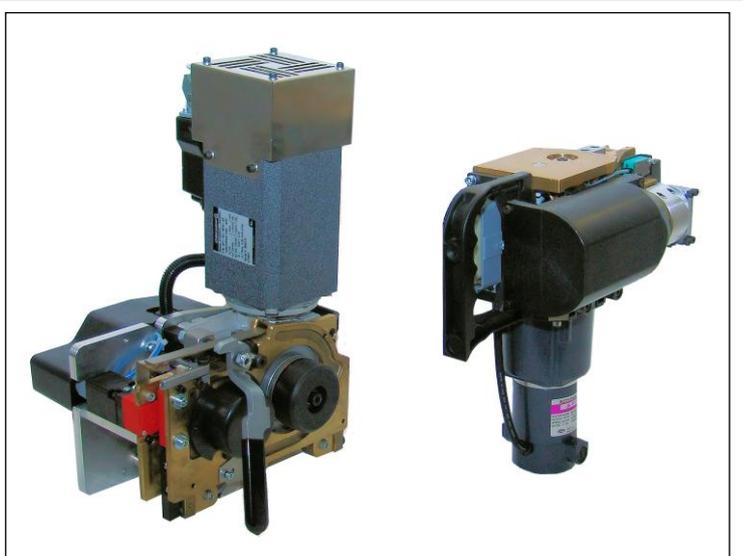
Signode also offers a range of annual service contracts for preventative machine maintenance to suit each customer's needs. For additional line uptime spare sealer modules can be provided so that preventative onsite maintenance and module rotation programmes can be put in place for maximum productivity and lowest total cost of ownership.

The modular MH and Z-20 strapping modules are all fully electrically powered, equipped with quick release multi-function plugs and are light weight and durable. Depending on the product to be strapped, its characteristics and weigh, the handling methods used, strap tensions required, there is a suitable Module combination for each customer application.

The Z-20 heavy-duty modules weigh from 18kg for the strap sealer unit up to 32 kg for the feed and tension module. The smaller MH modules are as equally robust in design and durability and are for the 9-16mm strap, they weigh only 10kg for the sealer and 12kg for the feed and tension module. All are easy to handle, service with simple tools and have a high level of reliability coupled with low cost.



A combination of a vertical MH strapping machine with upstream MH-H horizontal model and a top sheet applicator unit provide the customer with a fully automatic, high-speed flexible end-of-line packaging solution. The interchangeable modules can be rotated around the plant machines in various MH machines for maximum equipment availability at lowest possible cost



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