

Signode Paper Industry Systems Solutions

Automatic and semi-automatic systems for paper sheet, reel and photocopy paper producers and processors

Automatic and semi-automatic systems for varied wrapping solutions

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



MH range for maximum shipping area flexibility & throughput at minimum cost

LBX & HBX strapping machine systems for efficient box and carton closure

Signode has a wide range of products suitable for the changing world of global paper 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 paper strapping operations. The strapping machines for the pallets and the stretch-wrapping machines can accommodate the various products processed in a wide range of paper mills and paper logistics centres.

Providing a wide range of solutions for the Paper Production & Processing 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 paper sheet or boxed photocopy paper. 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 pallet loads the Z-20 and the MH modular ranges can apply parallel or cross straps to secure the paper 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 machine can apply 9 -16mm Tenax[®] Polyester PET strapping at high tension to the palletised paper loads.



Paper Industry Solutions

Semi and Fully Automatic

Signode Paper Industry Systems Solutions

Automatic machines for palletized loads



A Signode machine in operation strapping paper rolls stacked onto a pallet. The integrated machine turntable enables loads to be cross strapped. Depending on the type of product the loads can also be compressed before strapping with compression loads varying from 3 up to 7 tons.



Octopus machines wrapping loads at a major paper warehousing and distribution centre



A pallet compression and strapping machine which also applies top edge protection to the load from the twin integrated edge-protection magazines. The top edge-protection material has the standard dimensions of approx. 100 x 100 x 150mm and 5-8mm thick. Each of the magazines holds approx. 100-150 pieces for longer machine throughputs and running time.

Z-20 compression strapping station applying top edge-protection to the sheet pallet loads



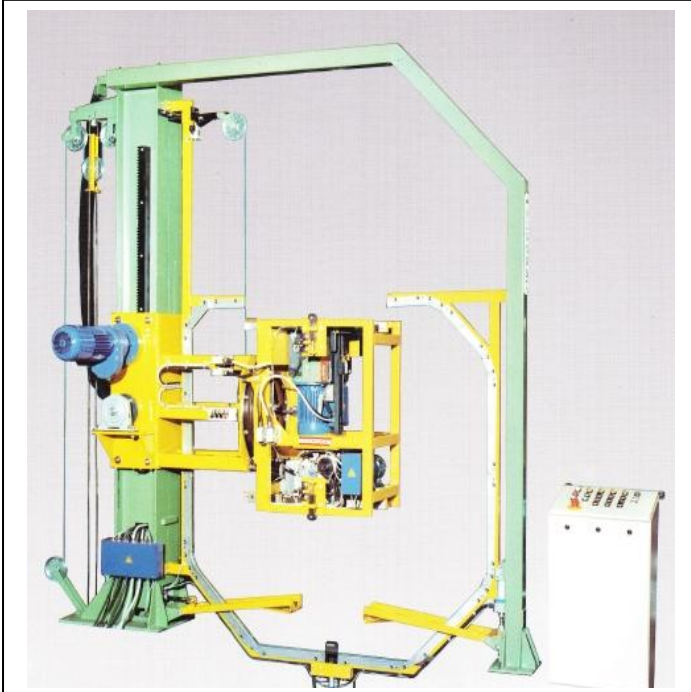
MH-VRB strapping shipping crates for world-wide shipment

The MH-VRB side-mounted head model is able to strap pallets and returnable cages for high throughputs, and ensures high machine uptime. The modular heads are easy to remove for preventative equipment servicing. Should a problem occur the operator can easily change the module in minutes by removing the quick-release power cable, then removing and replacing any module.

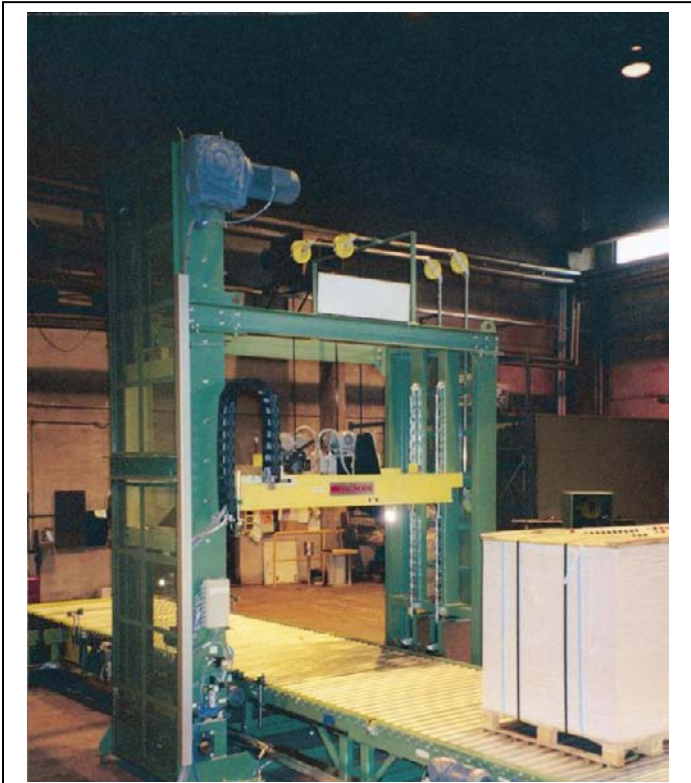
Signode Paper Industry Logistics Solutions

Modular design strapping and wrapping equipment

RMF Roll end binding machine for paper roll strapping with both steel or PET polyester strap



Twin headed compression strapping machine for pallet compression & strapping with PET Tenax®



To prevent damage to the top sheets of paper the machine can apply top edge protection materials to the load instead of an expensive top board



Octopus 1800 BFTS located in a high density storage warehouse for just-in-time load wrapping

The flexibility of the Octopus system enables it to easily wrap standard but also unstable, irregular-shaped loads at high speeds for fast, economic packaging in today's and also tomorrows fully automatic warehouse and logistic distribution systems at an optimum cost per load.

Whether securing palletized loads of boxed products or sheet format paper, Signode has a range of standard machine suitable for strapping most customers' products. For high value products special printed security strapping can be provided for box and pallet securement. Palletized loads of high-value paper sheet products can also be secured with a special customer-unique Logowrap™ film to protect the load during transit but also act as a tamper-evident covering. Loads can be compressed from 3-7 tons depending on customer products and needs. Signode has the systems solution.



Signode Paper Industry Logistics Solutions

Compression load strapping operations

High speed machines for end-of-line packaging for pallet compression, strapping and wrapping of up to 120 pallet loads an hour, these machines offer the lowest cost of ownership coupled with ease of use

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.

In some applications the MH machine can apply 9 to 16mm PET Tenax® 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 paper 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 modular compression 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



Paper Mill high speed productivity with a HBX 4330 fully automatic strapping machine for carton closure. Pallet load strapping and wrapping systems with end of line handling solutions can also be supplied.

Consistently applied high strap tension to boxed photocopy paper enables the stable boxes to be automatically palletized for strapping and wrapping.

The HBX4330 strapping machine features variable speed conveyor and load compression bar is in this application located directly behind the case erector and photocopy pack inserter unit. The easy access to the machine and reduction in the number of moving parts ensures maximum machine reliability and uptime. The workload on the single line operator is thus significantly reduced compared to previous machines in use. The HBX can use 9mm to 12mm wide economical, high-performance PP strapping and is suitable for many bundling applications across industry



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