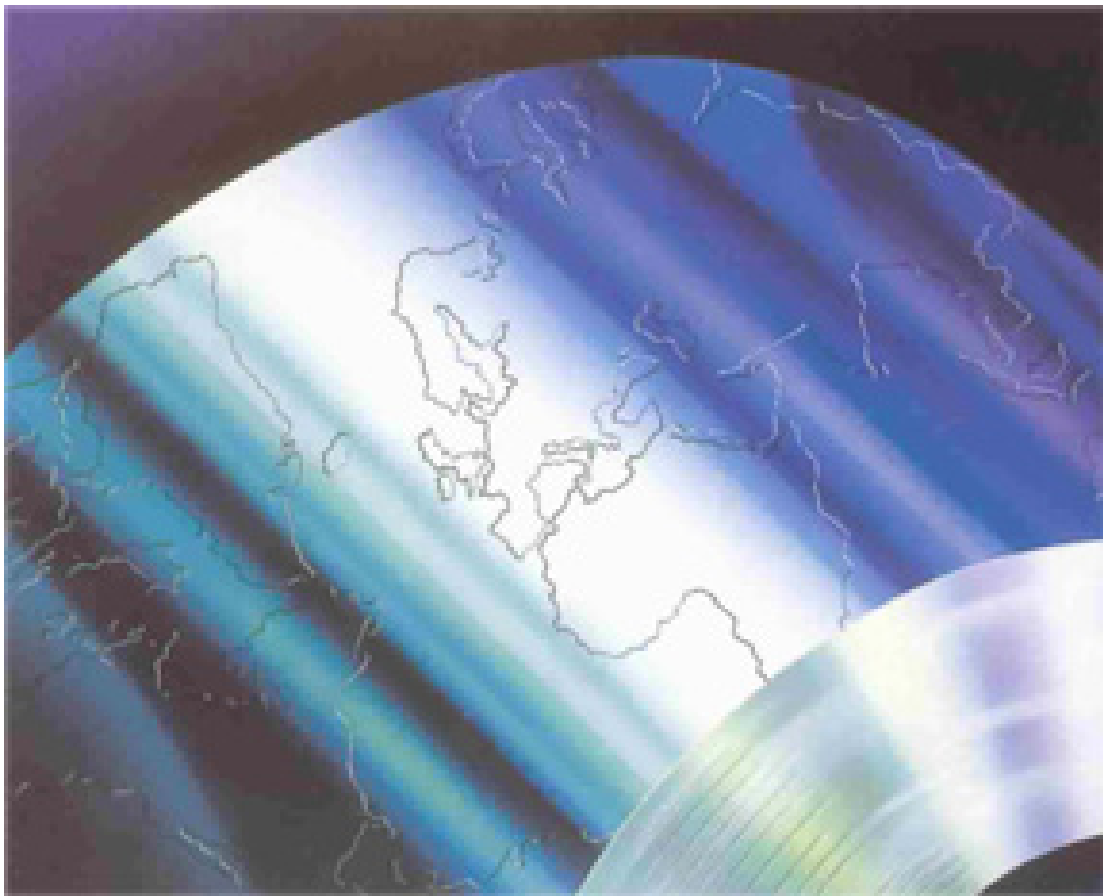


Signode the Leader in Metal Industries Packaging



SIGNODE – PACKAGING PRODUCTIVITY FOR THE METALS INDUSTRY

A pan-European business totally focussed on the specific needs of the Metals Industry.

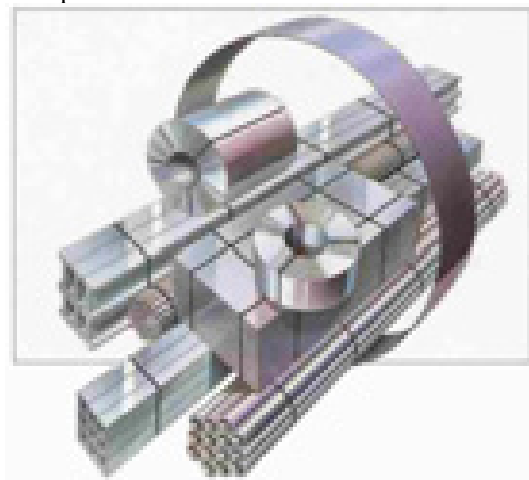
Over 75 years experience developing and manufacturing the most advanced machines and equipment available.

A total systems approach embracing design, development, project management, power strapping machines, handtools, consumables, plus stretchwrap systems, all controlled and manufactured by Signode.

All equipment supported by the most comprehensive aftercare programme including installation and commissioning, preventative maintenance, customer training and rapid response emergency service.

The established market leaders worldwide, with more machine placements and more experience than any other organisation.

Totally supported by the multi-billion dollar resource of the international ITW Group



A EUROPEAN STRUCTURE WITH GLOBAL SUPPORT

Signode is the established worldwide market leader in metal industries packaging with more machine placements than any competitor and the backing of over 75 years experience developing and manufacturing the most advanced machines and equipment available.

Signode is totally committed to the metals industry with Signode Metals Industry Systems Europe, created by the formation of a pan-European business structure, focussed solely on the needs of the industry.

Centralised manufacture of power strapping machinery (PSM) has led to considerable benefits for customers. Machines are manufactured with component standardisation throughout Europe, enhancing product quality and machine availability.

Substantial investment is being made into research and development of both PSM's and handtools, as well as into more advanced strap production facilities.

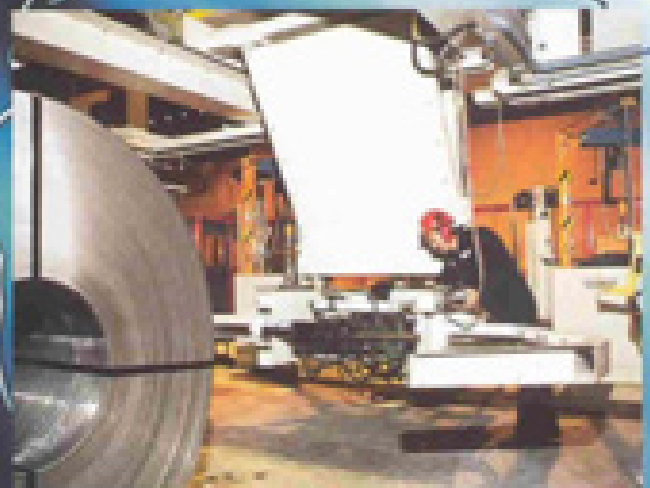
Signode offer a total systems approach, designing and manufacturing every element of the system offered from machines, handtools and steel/plastic strapping, stretchfilm, plus a range of edge protection and airbags.

The equipment is backed by a comprehensive customer service that includes experienced project engineers to develop the most efficient solution to your packaging needs; installation and commissioning by highly qualified engineers; full aftercare and preventative maintenance programmes; rapid response to customer calls and extensive customer training facilities.

Signode is also sensitive to its customer's concerns about the environment and is fully aware of its own responsibility in this area. All Signode strapping is recyclable and recycled materials are used in many of the company's production processes.

Signode Metals Industry Systems Europe benefits from being part of Signode, the world's largest manufacturer of strapping and industrial packaging systems. On a global scale, Signode operates in 130 countries and is a major player in the metals industry market, providing Signode Europe with a shared resource in terms of manufacturing technology, application engineering and market developments.

Furthermore, Signode is supported by its parent group, the multi-billion dollar ITW Group, which employs over 20,000 people in more than 260 operating units.



Comprehensive aftercare service is carried out by highly trained Signode Engineers



One of the many manufacturing facilities operated by Signode throughout Europe and worldwide.



Signode utilise the latest technology in the design and development of equipment.



The M400 Universal modular strapping head which has become the industry standard in Metals packaging.



Experienced and skilled project engineers provide in-depth technical support from feasibility studies to commissioning.

CUSTOMER-LED DESIGN OF SYSTEMS AND EQUIPMENT FOR PRODUCERS AND PROCESSORS.

The metals industry has changed dramatically in the past 10 years with greater emphasis being placed on customer service, product quality and, in particular, the arrival condition of products to the customer.

Signode has kept abreast of these developments by becoming more customer-led, reacting to the needs of customers and providing machinery and equipment tailor-made to specific requirements. After analysis of your requirements, Signode engineers will develop the most appropriate solution to your requirements – one that is safe, reliable, uses proven technology and is economical.

Signode offer a broad range of technologically-advanced equipment that includes fully automatic, operatorless powered strapping machines. Machines designed specifically for use in hot mills feature high temperature hoses and heat-protected parts whilst operatorless strapping systems can be tailor-made for use on pickling, annealing and galvanising lines, as well as cold-reducing mills.

Machines can be designed for through the eye or circumferential strapping or a combination of both, with edgeboard protection if required to ensure coils arrive in perfect condition.

A wide variety of consumables is also available, including Apex and Magnus steel strap, Tenax polyester strap and a choice of sealing methods is available to suit the application.

In conjunction with Signode automatic strapping stations, where continuity of production is an important requirement, Signode is able to provide automatic strap dispensers for steel coils weighing up to 1000kg.

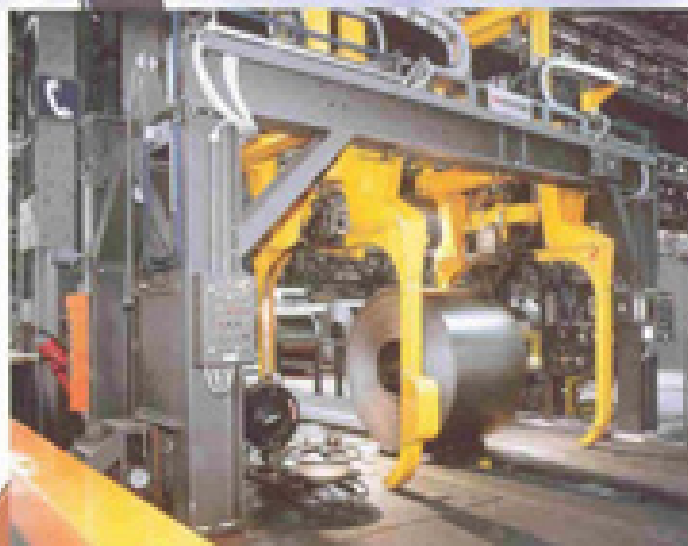
Signode can provide standard or custom printed seals for steel or polyester strap or low profile spot welded joints for steel strap.

Signode have also pioneered the development of sealless joint technology to reduce the problem of surface marking or damage.

With this wealth of experience, you can be sure your project is in safe hands when you talk to Signode.



Sealless circumferential coil strapping.



Coils from a Skin-Pass mill can be strapped with either steel or polyester strap for ultimate flexibility.



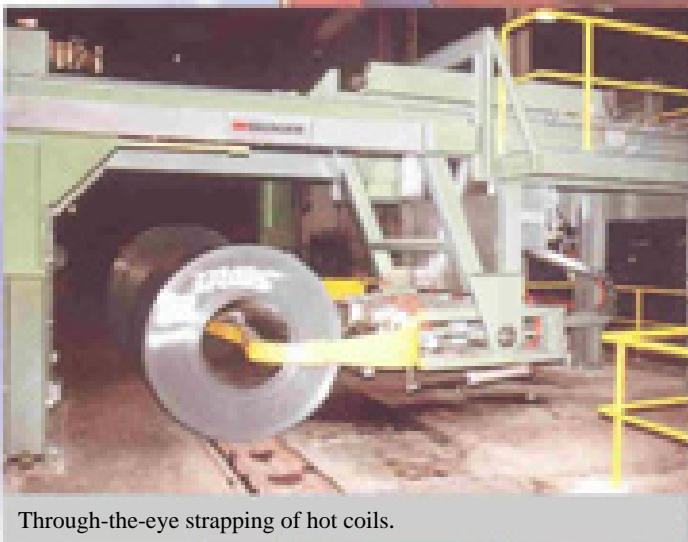
Automatic circumferential strapping of slit coils on a turnstile/capstan.



Strapping stainless steel coils on a cold roll reversing mill.



Multi-position strapping of galvanised steel coil utilising the M400 head on a moving carriage.



Through-the-eye strapping of hot coils.

CUSTOMER-LED DESIGN OF SYSTEMS AND EQUIPMENT FOR PRODUCERS AND PROCESSORS.

Whatever the shape or size of your product, Signode has the machinery to solve your strapping problems.

With sheet metal, when high production justifies the automatic application of transverse and/or longitudinal straps, Signode machines provide the most cost-effective system.

Producing secure and easy-to-handle sub-bundles, multi-ton or master bundles of round, square or reinforcing bars is simplified using Signode semi-automatic or automatic strapping machines.

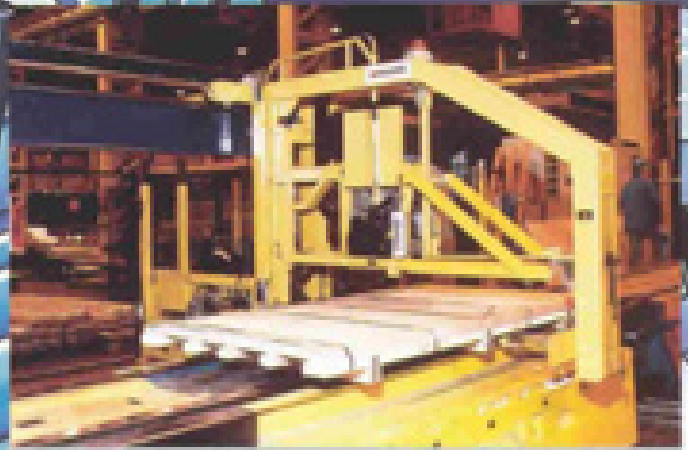
For pipes and tubes, Signode designs automatic strapping systems for rectangular, hexagonal and round bundles. Fast utilisation and tight, secure master bundles are the result of using these operatorless machines.

At the heart of Signode's machinery is the proven M400 strapping head

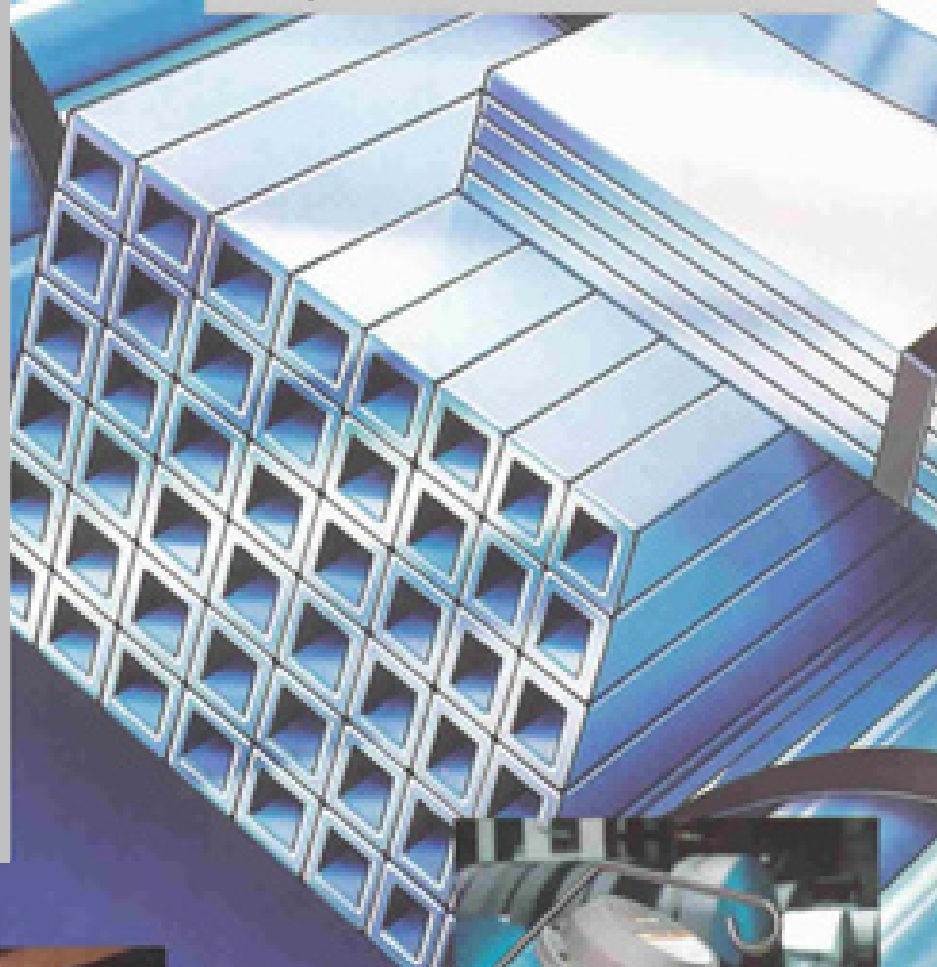
Its flexible, modular design and range of joint options, including seal, sealless or spot weld, enable the M400 to meet the demands of an extremely wide variety of applications.

Signode machines can be used for hot strip coils, cold mill products, rod and bar, profiles, sheet packages, slit coils, tubes, rod coils, ingots..... this list is virtually endless.

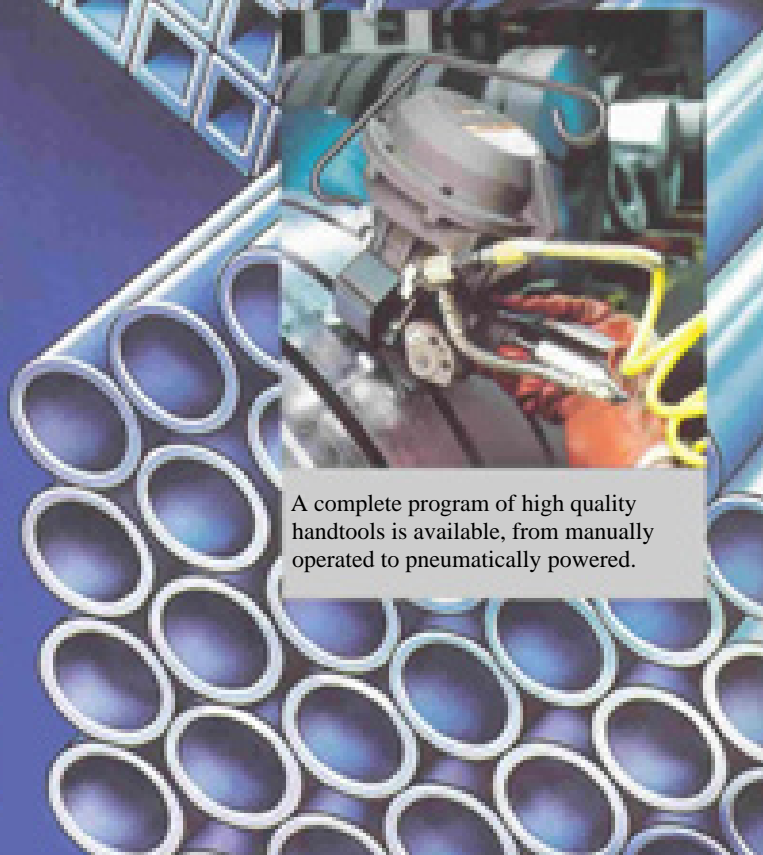
To Signode, shape and size present no problem. If you have a product to strap, Signode has the equipment and machinery to do it. Securely, reliably, efficiently and cost effectively.



Stainless steel sheets being automatically secured onto wooden pallets.



Fully automatic strapping of both hexagonal and square tube bundles.



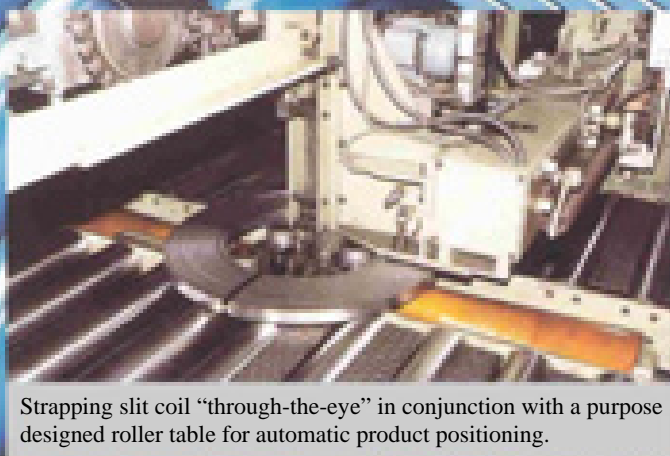
A complete program of high quality handtools is available, from manually operated to pneumatically powered.



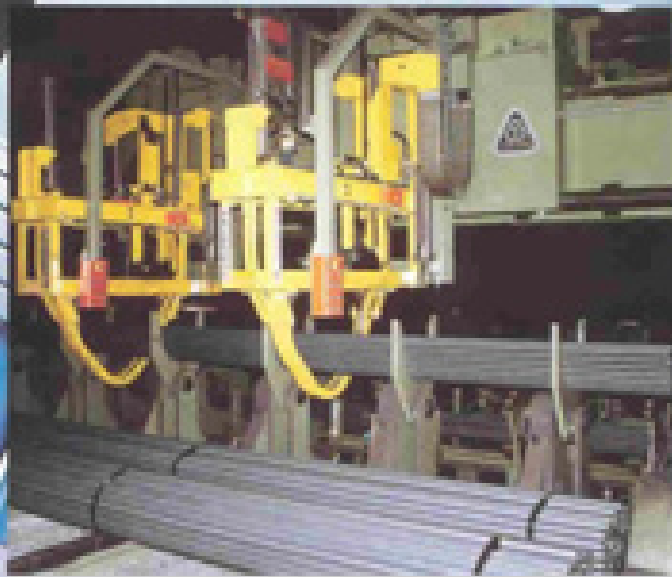
Fully automatic, integrated compaction and strapping of rod coil for the steel, copper, brass and aluminium process industries.



Wooden pallets being automatically secured to large aluminium billets.



Strapping slit coil "through-the-eye" in conjunction with a purpose designed roller table for automatic product positioning.



Strapping bar bundles, from an overhead mounted position, on a fully automatic, continuous bar stacker system.

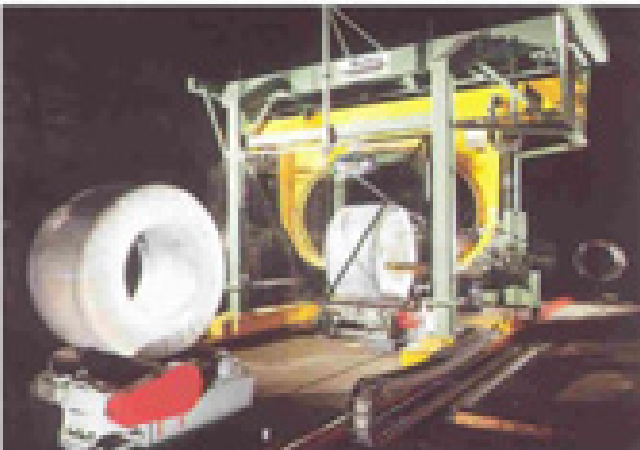
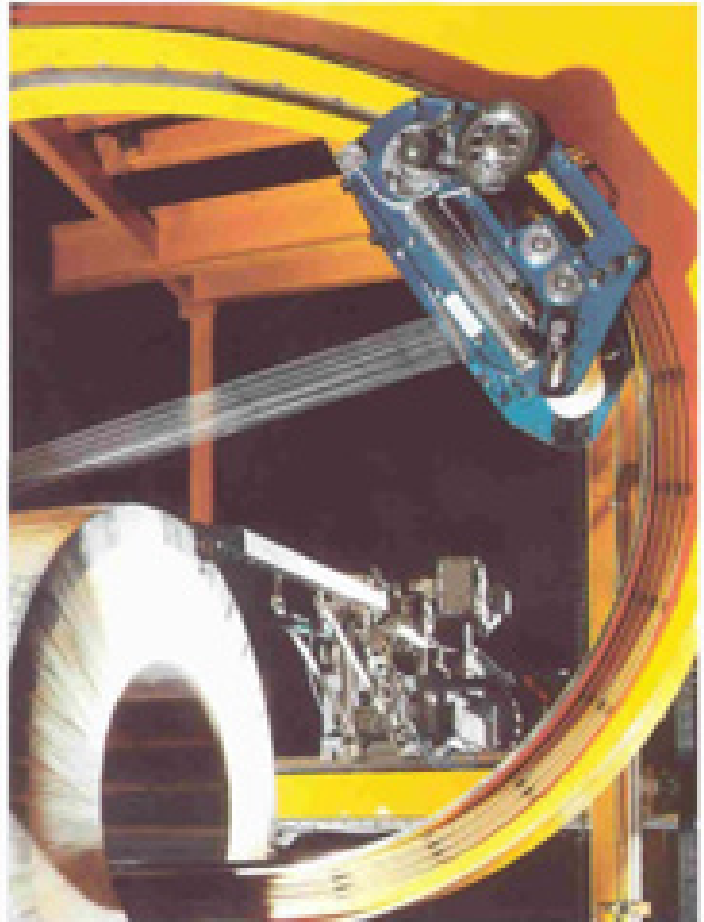
STRETCHWRAP

Total Protection

As industry demands ever higher quality standards, the demands placed on end-of-line packaging systems increase. Arrival condition has become an important consideration for many companies, who insist on zero defects for all delivered products.

Here again Signode has reacted swiftly to the needs of the industry with the introduction of a range of fully automatic stretchwrappers specifically designed for processing metal products.

This "total system" approach enables Signode to design and develop a complete handling and packaging system to meet customer's specific demands, providing stretchwrap technology in conjunction with strapping and corner protection to give total pack security, enhanced arrival condition and eliminate corrosion or damage to the product surface.



Coil handling procedures do not need to change when implementing stretchwrapping, as they can be transported and stored in the usual manner.



Signode wrapped coils are totally water-proof, with an open bore pack of recyclable plastic.



SIGNODE

An ITW Company
© Signode 2004