

STEEL PACKAGING MACHINES

PROMECC was born out of friendship and has gone from strength to strength under our family name for sixty years, generation after generation.

In May 1953 the Campos & Mantovan workshop was founded in Cittadella (PD) by two friends, Feliciano and Antonio. Expert mechanics and lathe operators, they laid the foundations for the modern company we know today. Thanks to Campos and Mantovan's energy and business acumen, in the space of just a few years that small workshop, which produced woodworking machines, became a fully equipped factory building plants for various industries.

Business flourished as this young, flexible company demonstrated a capacity for designing tailor-made solutions built around customers' needs. That spark fanned the flame of development: in 1986, with over 30 years' experience behind it, the company became PROMEC Srl.

The founders passed their entrepreneurial spirit on to their sons. Over the years they followed in their fathers' footsteps, steadily giving PROMEC winning qualities:

- an ability to produce high quality, hard-wearing reliable machines;
- selection of the best materials on the market;
- design and construction with a strong focus on technological development;
- strict pre-shipping testing.

Over the years that approach ensured success on a constantly changing market just as it does today.

In 2001 Promec expanded further and moved its site to Tombolo (PD) where it specialised, after almost fifty years of doing business, in the manufacture of machines and automatic plants for packaging sheet metal, strip metal and metal coils.

In 2006, the technical department moved from 2D to **3D design**, improving precision and efficiency throughout the engineering and manufacturing process.

In 2010, PROMEC expanded its international presence beyond Europe, starting to develop and manufacture

systems for customers in **China, India and Russia**.

In 2023, PROMEC expanded its **automation department**, strengthening its in-house expertise in software development, programming and the automation of production cycles.

Since 2025, PROMEC has been developing new ways to integrate **artificial intelligence** into its production systems. Robots are equipped with advanced **vision systems** capable of recognizing materials and identifying their position even when they are not perfectly placed.

Today, PROMEC combines more than **70 years of experience** with mechanical engineering, automation and digital technologies to design, manufacture and install **automated systems worldwide**.

Every line is built on decades of experience and continuous development, with one clear goal: **maximum reliability, efficiency and production continuity for our customers**.

EVERY PROMEC IS A PROMISE



A PRODUCTION FACILITY THAT MAKES THE DIFFERENCE

An innovative approach, a winning production set-up. Throughout its history, PROMEC has always known how to renew and innovate, responding quickly to market developments and fast-changing customer needs.

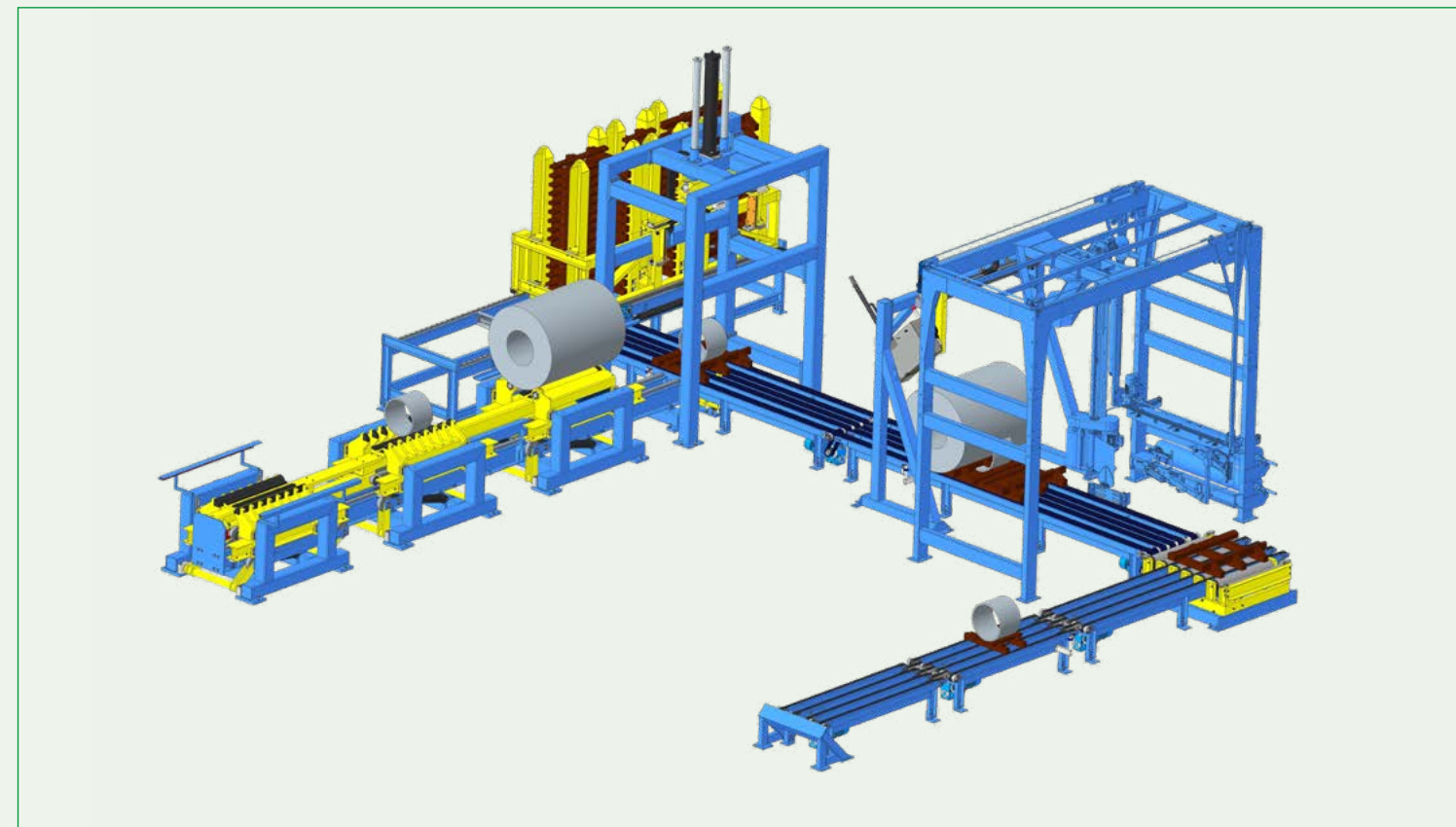
This decisive aspect has had a huge influence on market performance. It has given PROMEC the solidity and reliability needed to become a major player in the industry, both in Italy and abroad.

“Production organisation” and “attention to orders” are the cornerstones of a system designed, right down to the last detail, to ensure ultra-high quality products. Key elements of that system include:

- **R&D DEPARTMENT:** today, PROMEC can count on a team of specialised plant design and certification technicians, fully qualified to handle the development, manufacture and installation of new machines. Constant investment in research and technology plus hyper-expert skills allow us to ensure total quality and outstandingly high global standards.
- **SUPERVISION SYSTEM:** ever-better and ever-more user-friendly, these systems let steel service centers monitor individual machines and overall plant production progress in real time, even via mobile apps. They also let us provide fast online support should any issue arise on the lines. No project is merely an order to be completed: it is, rather, a unique opportunity to build

something technologically advanced that can provide customers with ever-more reliable service.

- **TESTING:** for every plant, we carry out pre-testing at our facility. This is a fundamental moment in which the customer sees the machine in action for the first time and can evaluate every detail before final delivery, an act of mutual satisfaction and trust that we have always valued.
- **CERTIFIED QUALITY AND ENERGY SAVINGS:** two aspects that demonstrate PROMEC’s focus on a business model that aims to reduce waste and inefficiency and maximise performance without harming the environment.
- **LONG-TERM SUPPORT:** every machine PROMEC has ever sold continues to receive our full support, even decades after delivery. We keep the technical drawings and documentation of every plant we have built, so that spare parts, upgrades and repairs remain possible long after a machine has left our factory. We see our relationship with customers as a lifelong commitment, not a one-time transaction.



COIL PACKAGING LINE

These plants consist of a series of stations (one per operation) which, via a walking beam, move the coil through the various packaging stages. These operations, which can be carried out either manually or automatically, include:

- circumferential strapping;
- radial strapping;
- application of stretch film or paper (on the coil's outer and inner surfaces);
- application of corner protectors on the outer and/or inner diameter (plastic, cardboard or metal);
- in-line formation of the metal box.

To complement these automatic systems, we have integrated a palletizing line that fully automatically sets coils down on saddles or pallets (vertical or horizontal axis), then straps, weighs, labels and removes them.

Unlike other systems on the market, our solutions can be supplied without foundations and are engineered and built to measure for each individual customer.

ACCESSORIES

A wide range of on-coil tasks can be performed, either manually or automatically, thanks to a comprehensive range of accessories.

- Automatic circumferential and radial strapping machine
- Weighing systems
- Label printer
- Automatic nylon wrappers
- Automatic paper dispensers
- Automatic labellers
- Automatic pallet and saddle rack loaders
- Bar code reader

MATERIALS

- Carbon steel (pickled, pre-painted, galvanized, polished, etc.)
- Non-magnetic material (stainless steel, copper, aluminium, brass, etc.)
- Special materials (grain oriented and non-oriented magnetic sheet steel)

SIZE RANGE

- Min. material thickness 0.08 mm max. 16 mm
- Min. hole diameter 150 mm max. 610 mm
- Min. external diameter 600 mm max. 2800 mm
- Min. band width 400 mm max. 2500 mm
- Max. weight 35000 kg

STRIP PACKAGING LINE

Strip packaging lines are PROMEC's flagship product.

Combined with slitters that cut coils longitudinally into strips, these lines pick up the individual strips, strap them and stack them; the stacks are then removed, strapped onto the pallet, packaged, weighed and labelled.

Our modular lines are custom-assembled to meet each customer's specific logistic and production needs, ranging from simple, low-cost standard lines to fully automated production units with an extensive range of accessories.

Every solution is designed to guarantee maximum quality and flexibility.

ACCESSORIES

A wide range of on-strip and on-stack tasks can be performed, either manually or automatically, thanks to a comprehensive range of accessories.

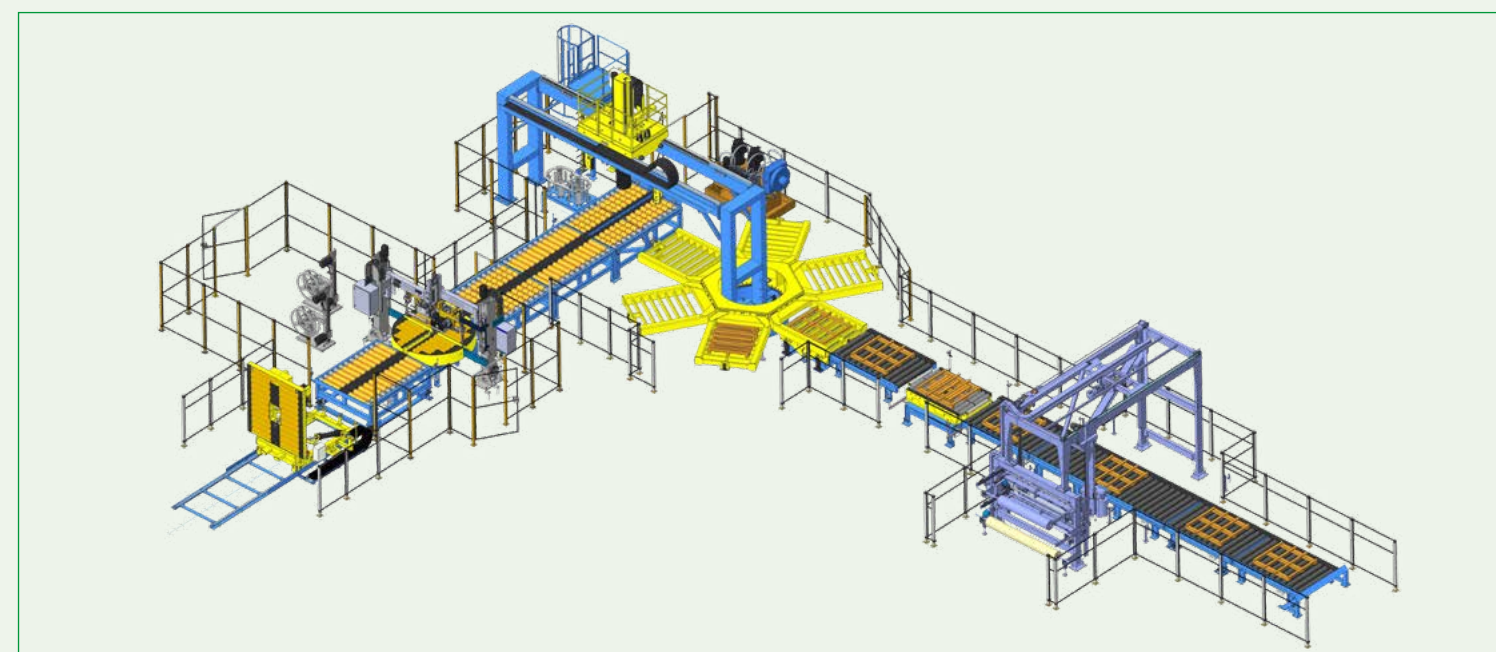
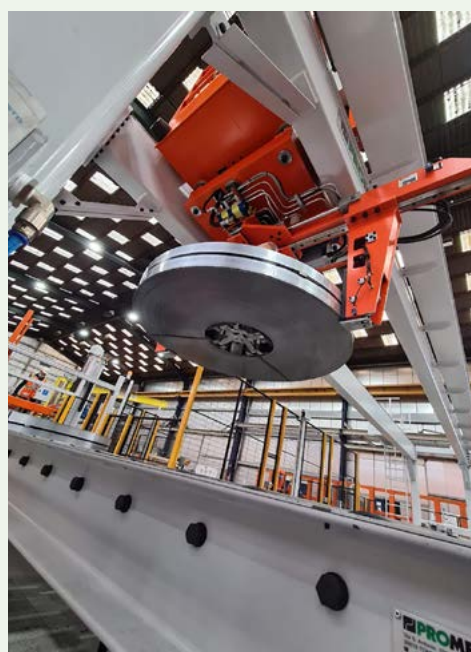
- Automatic strip loading system via robot (maximum flexibility of use)
- Bar code readers
- Transfer cradles
- Automatic or semi-automatic radial strapping systems
- Radial and/or circumferential packaging with stretch film
- Weighing
- Labelling in inner hole and on outer surface with customised labels
- Automatic pallet loading systems
- Vertical axis to horizontal axis stack tippers

MATERIALS

- Carbon steel (pickled, pre-painted, galvanized, polished, etc.)
- Non-magnetic material (stainless steel, copper, aluminium, brass, etc.)
- Special materials (grain oriented and non-oriented magnetic sheet steel)

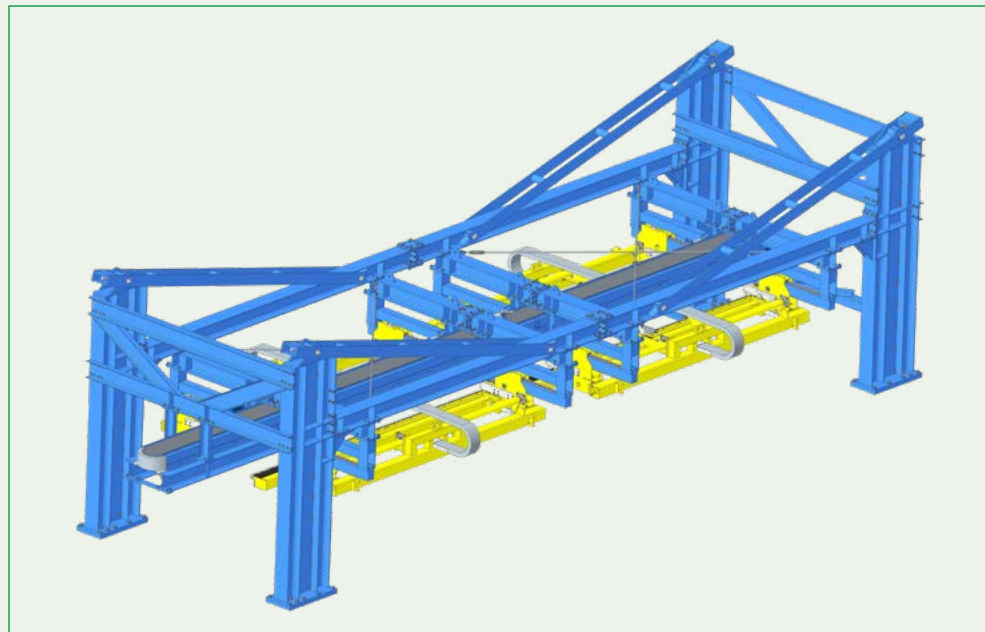
SIZE RANGE

- Min. material thickness 0.08 mm max. 16 mm
- Min. hole diameter 150 mm max. 610 mm
- Min. external diameter 400 mm max. 2540 mm
- Min. strip width 5 mm max. 850 mm
- Max. weight 9500 kg



AUTOMATIC STACKERS

These machines are coupled with straightening lines and let producers stack straightened steel sheets and obtain perfectly squared-off bundle.



PROMEC produces various stacking machine models (magnetic, mechanical, stop and non-stop, single/ double/ triple-box) designed according to straightener type and speed, the material to be processed and the customer's specific needs. Moreover, stacking machines feature an "anti-scraping" system that draws sheets one at a time and sets them down by vertical drop, one on top of the other, without damaging the surfaces.

PROMEC can complete stacking machines with the following:

ACCESSORIES

- Multipack stacking systems
- Pallet loaders
- Infeed conveyor belts
- Elevator platforms
- Sheet marking/punching systems
- Pinch-roll.

Moreover, several combinations are available for each system series, from the standard to the full-optional type.

MATERIALS

- Carbon steel (pickled, pre-painted, galvanized, polished, etc.)
- Non-magnetic material (stainless steel, copper, aluminium, brass, etc.)
- Special materials (grain oriented and non-oriented magnetic sheet steel)

SIZE RANGE

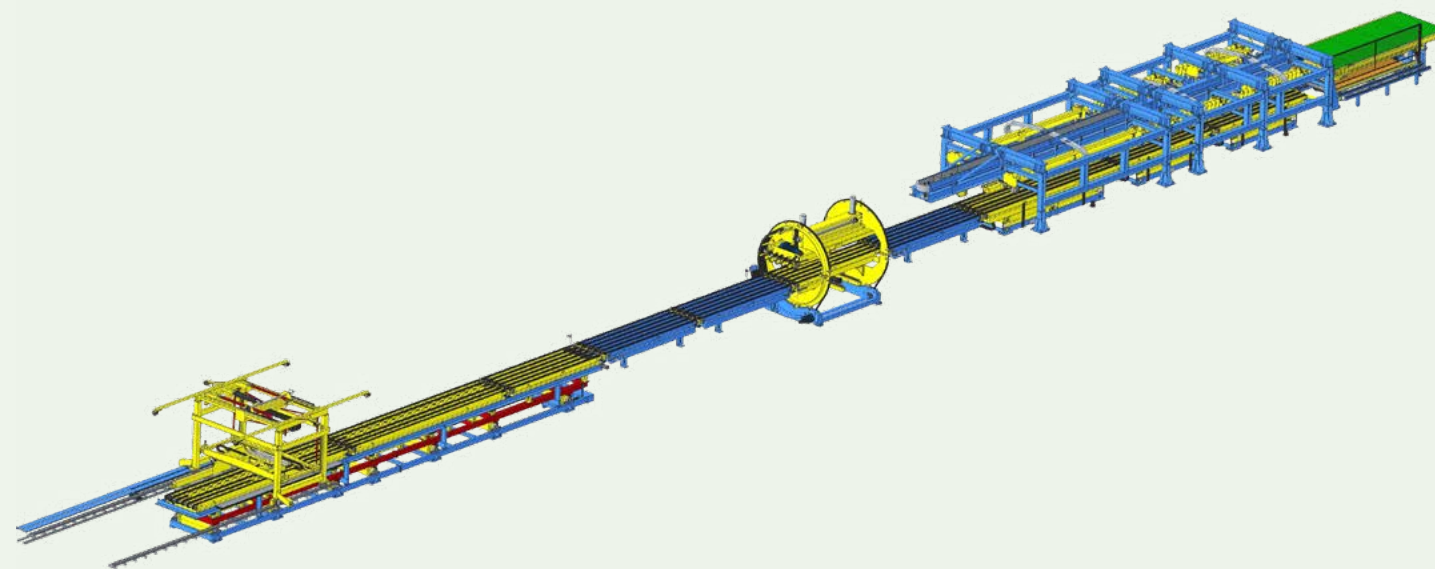
- Min. thickness 0.1 mm max. 25.4 mm
- Min. length 400 mm max. 20000 mm
- Min. width 400 mm max. 2800 mm



BUNDLE PACKAGING LINE

These lines receive the bundles produced by the stacking machine and remove them. Bundles can be gathered, coupled on pallets, packaged with paper and nylon, strapped, weighed, labelled and removed.

Modular and flexible in combination, these lines can also, thanks to a vast range of accessories, be assembled in different ways to provide different layouts, solving even the most complex problems.



Each system series offers various combinations, ranging from the standard to the full optional type, depending on the accessories needed to satisfy customer requirements: from the standard, simple, affordable line to top-of-the-range solutions that perform fully automatic handling of every pack removal and packaging task, final labelling included.

ACCESSORIES

A wide range of tasks can be performed on multiple bundles, either manually or automatically, thanks to a comprehensive range of accessories.

- Automatic or semi-automatic longitudinal and transverse strapping systems
- Packaging with stretch film, nylon or protective VCI paper
- Weighing
- Labelling with customised labels or marking with ink-jet systems
- Automatic systems for loading pallets into the stacking machine or pack-pallet coupling on the line
- Automatic bundle stacking

MATERIALS

- Carbon steel (pickled, pre-painted, galvanized, polished, etc.)
- Non-magnetic material (stainless steel, copper, aluminium, brass, etc.)
- Special materials (grain oriented and non-oriented magnetic sheet steel)

SIZE RANGE

The admissible size for bundles is very broad:

- min. length 400 mm max. 20000 mm
- min. width 400 mm max. 2800 mm
- max. height 500 mm (non-binding measurement)
- max. weight 20000 kg (to be agreed according to length)



SPECIAL MACHINES: TAILORED SOLUTIONS FOR YOUR STEEL SERVICE CENTER

We pay particular attention to non-standard requirements. Inspired by our experience, we develop dedicated solutions whenever a customer needs something outside our standard catalogue. In these cases, we design custom projects, engineered from the application constraints and the expected performance.

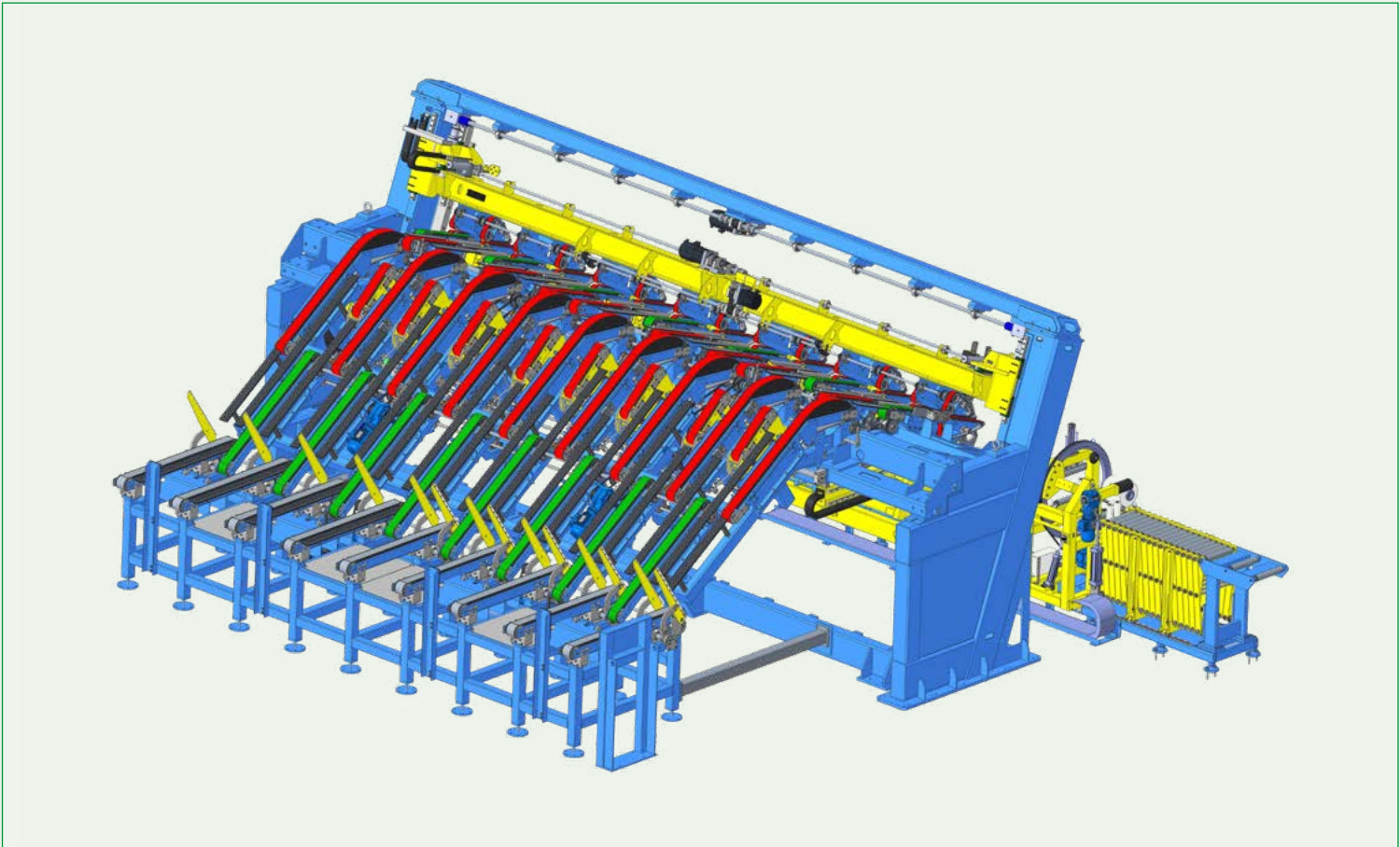
Each prototype is developed through a structured process comprising functional analysis, mechatronic design, testing and validation, with the goal of delivering a reliable solution that integrates seamlessly into the customer's production flows.

Recent new special lines include:

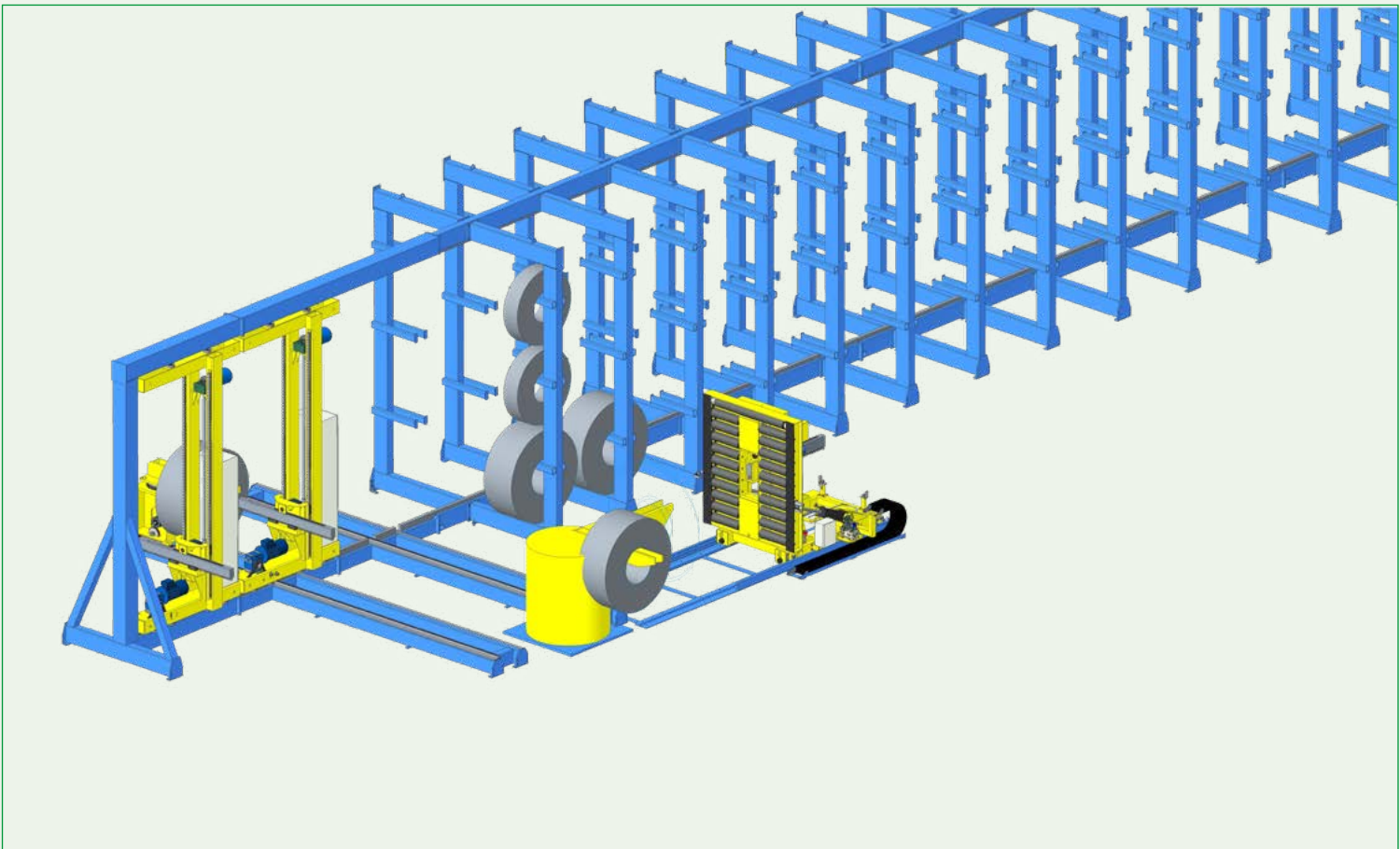
Pick & place systems for heavy-gauge sheets operating also at high temperatures (mechanical or vacuum grip)



Lines for forming and packaging bundles of profiles or bars



Automatic coil storage systems



ACCESSORIES FOR COIL AND STRIP PACKAGING LINES

001

AUTOMATIC STRIP STRAPPING MACHINE

Automatically applies radial straps on each strip. One- or two-head versions available, with both plastic and metal straps.



002

STRIP 180° TURNER

Allows strips to be turned over to reverse the winding direction of the strip.



005

AUTOMATIC STACK STRAPPING MACHINE

Automatically applies radial or cross straps on stacks to secure them to the pallet. One- or two-head versions available, for both plastic and metal straps.



006

AUTOMATIC STACK WRAPPING MACHINE

Automatically wraps the stack circumference with stretch polyethylene. A nylon sheet can also be placed on top of the stack for a waterproof pack.



003

AUTOMATIC SPACER INSERTION SYSTEM

A robot that automatically places spacers on the strips in different configurations to separate them when the stack is formed.



004

AUTOMATIC PALLET INSERTION SYSTEM

Lets load a stack of pallets, then insert them into the packaging line one at a time.



007

AUTOMATIC LABELLING MACHINE FOR STRIPS OR STACKS

Automatically applies adhesive labels, customised with the data requested by the customer, on the strips or stacks.



008

STACK TILTER

Tilts entire stacks on a horizontal axis and positions them on a wooden saddle.



OPTIONAL FOR STACKERS AND BUNDLE PACKAGING LINES

001

PACK-PALLET COUPLING SYSTEM
Positions the pallet under the pack automatically.



002

BUNDLE 180° TURNER
Allows bundle to be turned over to orient the surfaces in the preferred direction.



005

AUTOMATIC LABELLING MACHINE FOR BUNDLES
Automatically applies adhesive labels, customised with the data requested by the customer, on bundles or stacks of bundles.



006

BUNDLE STACKER
Automatically picks bundles at the end of the packaging line and stacks them on top of each other or on the floor.



003

AUTOMATIC PALLET LOADER
Picks up and positions medium and long-sized pallets inside the stackers.



004

AUTOMATIC BUNDLE STRAPPING MACHINE
These machines automatically apply longitudinal or transverse straps on the bundles. Versions for both plastic and metal strap are available, with automatic positioning of edge protectors if necessary.



007

COVER AND MARKER
Automatically places paper or plastic foil on bundles, and applies laser or ink marking to print the data required.



008

TOP APPLICATOR
Automatic system that applies a rigid cover top on bundles for protection.





PROMEC S.R.L.

via S. Antonio, 101
Tombolo (PD) 35019

+39 049 9471292
promec@promec.it
www.promec.it

