

THREE ROLLS

AR LINE SECTION BENDING MACHINE

They are more powerful machines, with superior capabilities at a competitive price, for bending all types of profiles.

The three rolls are driven by three independent hydraulic motors and three planetary gears directly connected to each roll to achieve higher torque transmission.

Special nylon rollers are mounted if aluminum profiles need to be bent, furthermore special hydraulic guides with three-dimensional movement support and accompany the curved profile during processing.

The **HT versions** are specific for making spirals with short shafts, reinforced motorization to obtain small diameters, reinforced lateral guides for greater thrust and pitch control, calibrator roller which guarantees diameter precision, front support with up/down movement as well as thrust /traction.

In the **ARL version** the lateral bending rollers move on a straight axis, in this way the pinching point of the profile between the lateral and the upper takes place in less space. Linear guides allow you to machine smaller diameters with high precision, accuracy and stability.

These machines have the possibility of working on both vertical and horizontal axes. And they have the possibility of having CNC automation.

The goal of our Engineers is to exploit the mechanical/hydraulic accessories exactly as if they were the operator's hands, but obviously with more force.



FOUR ROLLS

AR.4 LINE SECTION BENDING MACHINE

This range offers a wider distance between the side rollers allowing for larger bending radii. Here too, every secondary element is eliminated and torque transmission is higher.

The 4 rollers are also versatile machines due to the possibility of working on both vertical and horizontal axes.

The **HT versions** are specific for making spirals, with short shafts, reinforced motorization to obtain small diameters, reinforced lateral guides for greater thrust and pitch control, calibrator roller which guarantees diameter precision, front support with up/down movement as well as push/pull.

In the **ARL version** the lateral bending rollers move on a straight axis which reduces the space between the rollers themselves. In this way the stapling takes place in less space. Linear guides allow you to machine smaller diameters with high precision, accuracy and stability.

The mechanical configuration of these machines also allows the flat parts at the ends of the profile to be reduced to a minimum.

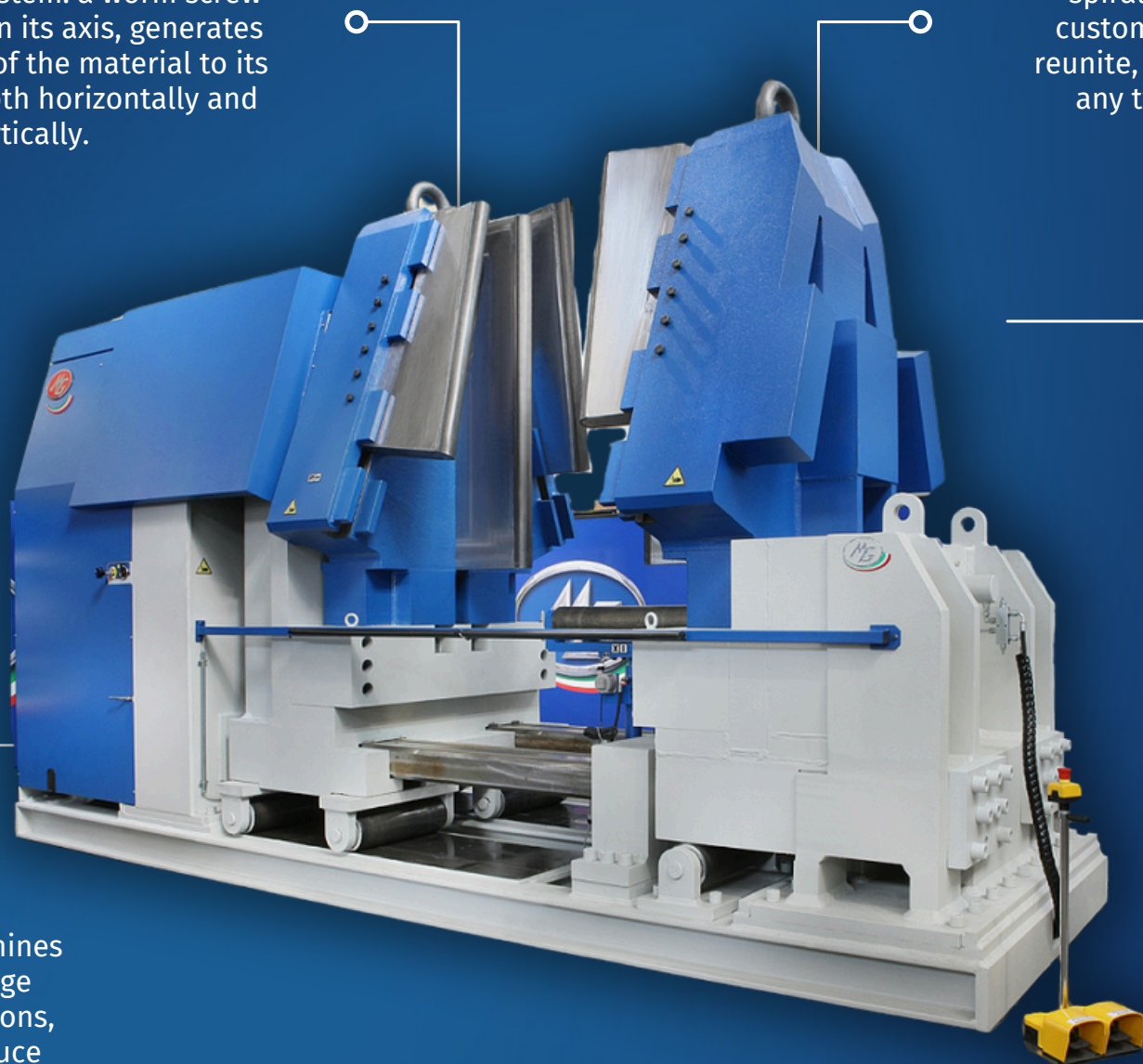


TWO TOOLS

EM LINE MACHINE

Mechanical screw conveyors are used to move liquids and solids, with a spiral system: a worm screw that, rotating on its axis, generates the movement of the material to its destination, both horizontally and vertically.

MG designs and builds machines for the industrial production of augers and spirals, useful for every customer need: to divide, reunite, select and transport any type of substance.



Applications and markets: Chemical, pharmaceutical, milling, agri-food, steel, shipbuilding, renewable energy, waste recycling, mining and mining industries, bulk materials handling.

In addition, the MG machines are able to perform large spiral machining operations, which are used to produce pumps, mixers, mixers, turbines and industrial augers.

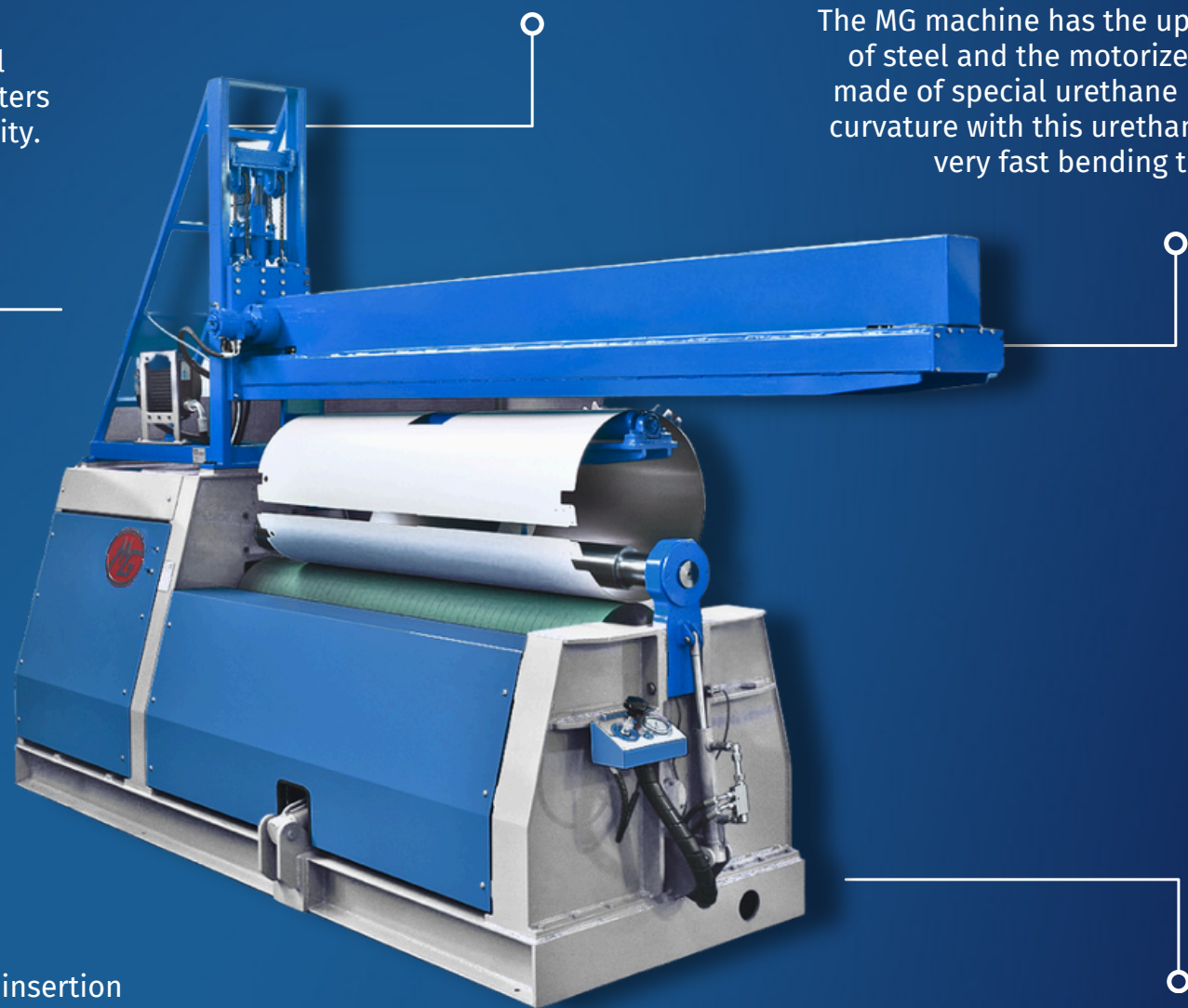
TWO ROLLS

F LINE MACHINE

The motorization aspect is also very important during the pre-bending, in fact it allows us to bring the plate to the center of the rolls with maximum precision and control, without risk of slipping of the metal sheet. We will obtain a pre-bending that will not exceed 1.5 or 2 times the thickness of the sheet.

F Line Bending Machine is the ideal solution for bending very small diameters and for maximum industrial productivity.

The MG machine has the upper roll made of steel and the motorized lower roll made of special urethane material: the curvature with this urethane roll allows very fast bending times.



The precision of processing allows the insertion of our machine in automatic production lines, even very sophisticated.

With the F Line the correct deformation of the sheet is obtained along the whole useful length: a perfectly circular shell ring without any flat part, in a single pass.

THREE ROLLS

G LINE MACHINE

It has three driving rollers with hydraulic clamping which guarantee precise and constant material dragging.

Reliable and productive, the parallelism of the side rolls is controlled by a torsion bar system that connects both ends of the roll, eliminating the disadvantage of delicate and unreliable encoders

The rolls are driven by hydraulic motors and high-efficiency planetary gearboxes, coupled directly to the rolls.

The rolls assembled on sealed bearings and without secondary components, reduce dispersions in the applied force and guarantee greater reliability, increasing the inclination capacity of the lateral rolls, resulting in greater versatility.

The side rolls move up and down on oscillating planetary guides eliminating the disadvantages of linear gears and allows us to have hydraulic pumps with lower capacity motors, improving energy savings.

In its GE version both the movement and the parallelism of each roll are controlled electronically. Two proportional solenoid valves, two transducers and a dedicated system that guarantees precision, stability and repeatability of the piece over time under all conditions and temperatures.

Easy to use and precise in the execution of the viroles, it boasts unique versatility thanks to the exclusive MG planetary geometry.

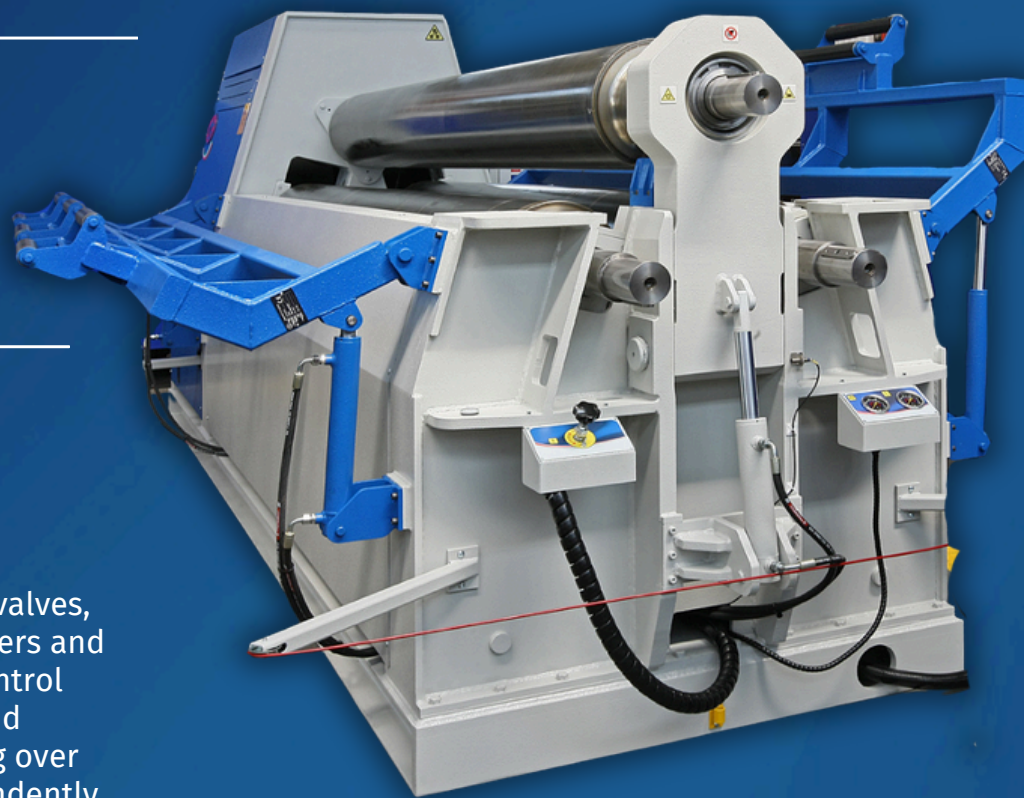


THREE ROLLS

GL LINE MACHINE

In its GL version, however, the lateral rolls move on a straight axis which reduces the space between the rolls themselves.

The contact point of the lateral rolls with the sheet metal takes place in less space thanks to a shorter wheelbase; this allows you to machine very small diameters and have a much shorter straight part.



Two proportional solenoid valves, two digital readout transducers and a dedicated electronic control guarantee precision and repeatability of positioning over time for each roller, independently of the temperature and any mechanical wear, always guaranteeing maximum precision.

On this model the parallelism of the rolls is electronic.

FOUR ROLLS

K LINE MACHINE

This type of machine represents a NEW concept in the world of calendaring.

The straight part, already minimal on our machines, 1.8 times the thickness of the sheet metal being machined, will be even shorter, and this can only be a practical and aesthetic advantage on the final product, whatever it may be.

On multiple diameter machining operations, the speeds of the interpolated movements are selected completely automatically and are controlled in all conditions in real time.

The system monitors the coordinates that are executed with maximum accuracy and corrects any errors.

The machine will be equipped with the Touch Command EVO numerical control which, again, as in all the MG models in which it is present, monitors the calendaring work to perfection. With a simple touch of the screen you enter the sheet metal parameters and the control generates the program.

This bending machine can be used as a normal 4-rolls or as a 3-rolls, with the particularity of having a very reduced width compared to traditional bending machines.

EVO allows wireless communication, interconnection, data collection and analysis, as well as the visualization of the desired shape in 3D graphics.



FOUR ROLLS

M - M E L I N E M A C H I N E

It is the easiest hydraulic calendaring machine to use thanks to the possibility of pinching the sheet metal between the two central motorized rolls, performing the bending at the ends, and calendaring along the entire body of the sheet metal in a single direction and in a single pass.

The sheet metal is kept square without any slipping thanks to the constant clamping of the upper and lower rolls. This makes it perfectly suitable for being on a NC or CNC numerical control.

In this calender the parallelism of the side rollers is controlled by a torsion bar system that connects both ends of the rolls, eliminating the disadvantage of the extra encoders and the hydraulic circuit.

The rollers assembled on sealed bearings and without secondary components reduce the dispersion in the applied force that is generated by the friction of the various components

In its ME version both the movement and the parallelism of each roll are controlled electronically.

The side rolls move on oscillating planetary guides: a perfect geometry that eliminates the disadvantages of linear gears. For this reason we have hydraulic pumps with lower capacity motors, improving energy savings.



FOUR ROLLS

ML LINE MACHINE

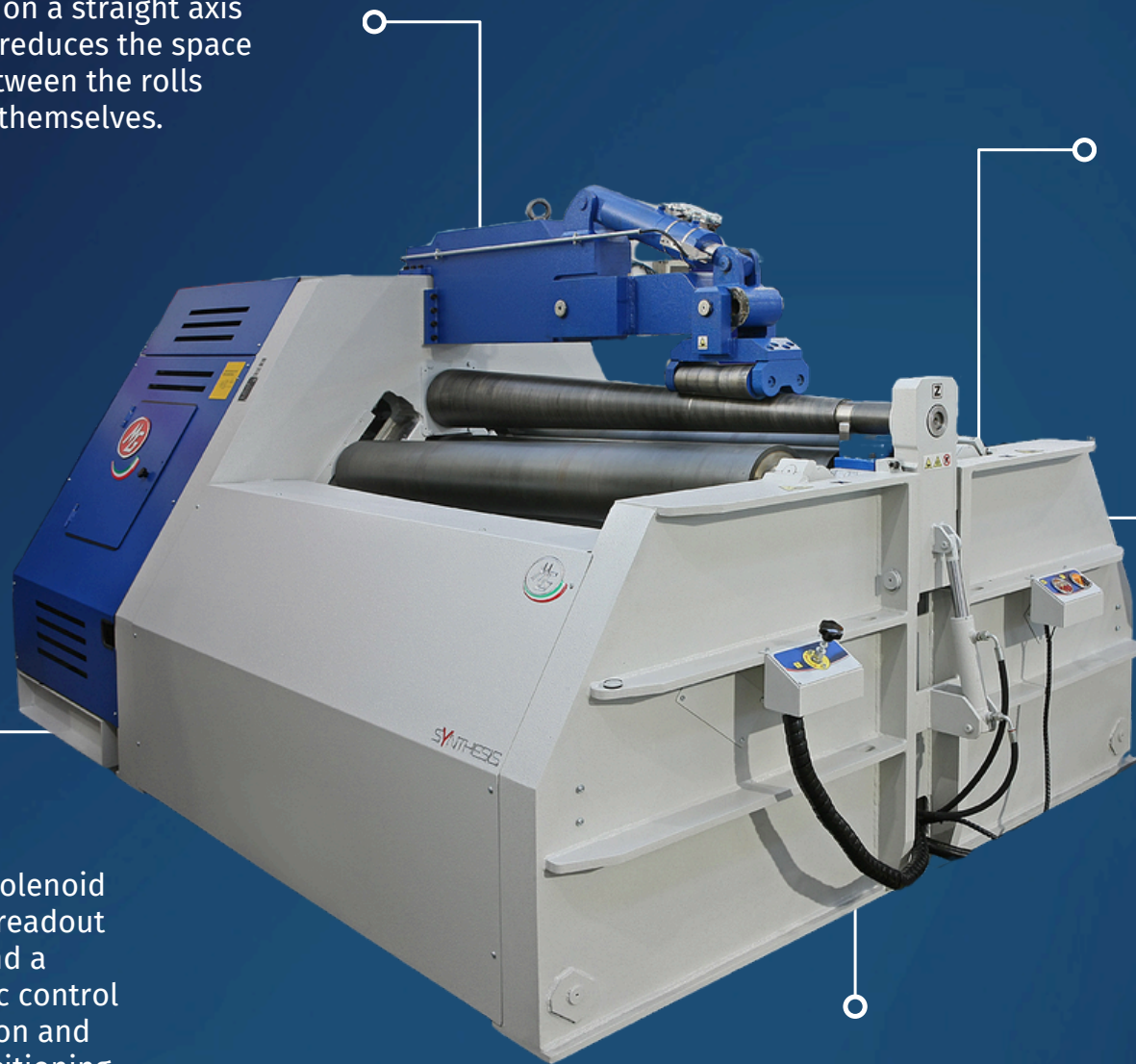
In its ML version, however, the lateral rolls move on a straight axis which reduces the space between the rolls themselves.

The contact point of the lateral roll with the sheet metal takes place in less space thanks to a shorter wheelbase; this allows you to machine very small diameters and have a much shorter straight part.

Independently of temperature and any mechanical wear, always guaranteeing maximum precision.

Two proportional solenoid valves, two digital readout transducers and a dedicated electronic control guarantee precision and repeatability of positioning over time for each roll

On this model the parallelism of the rolls is electronic.



THREE ROLLS

PH LINE MACHINE

The top roll has vertical movement and the side rolls move horizontally.

All the details it is made of are selected from the best in the world to guarantee precision, durability and versatility.

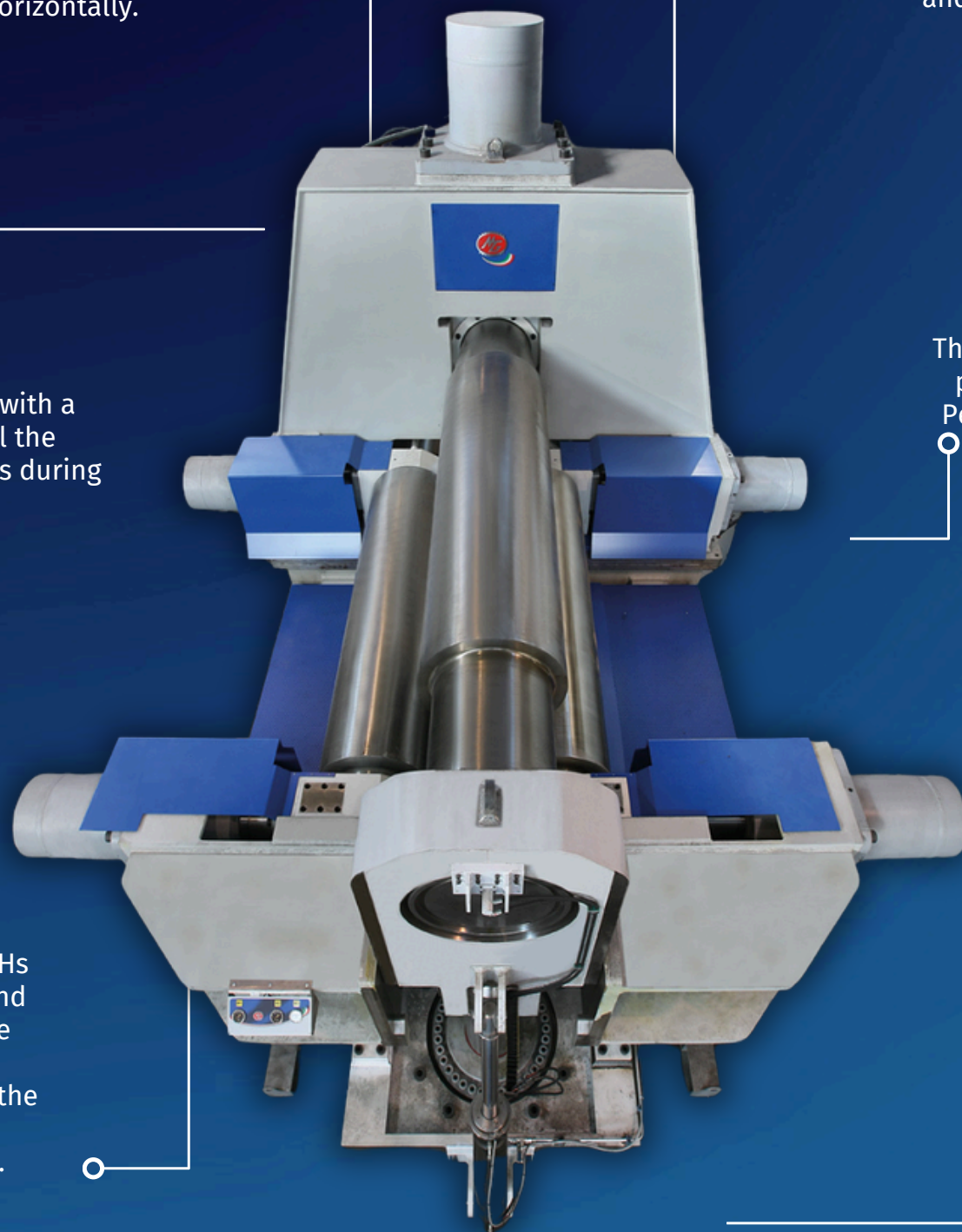
Taper of the rolls performed with a b-conical shaping to cancel the flexures of the rolls themselves during processing.

Three rolls motorized by planetary gearboxes. Permanent lubrication.

Rolls mounted on high load bearings and double row of rolls.

The new variable geometry PHs are simple to use, efficient and suitable for processing large thicknesses. This is the latest evolution in the calendering sector. condition and temperature.

Pyramid geometry for the creation of large diameters in the best possible way.

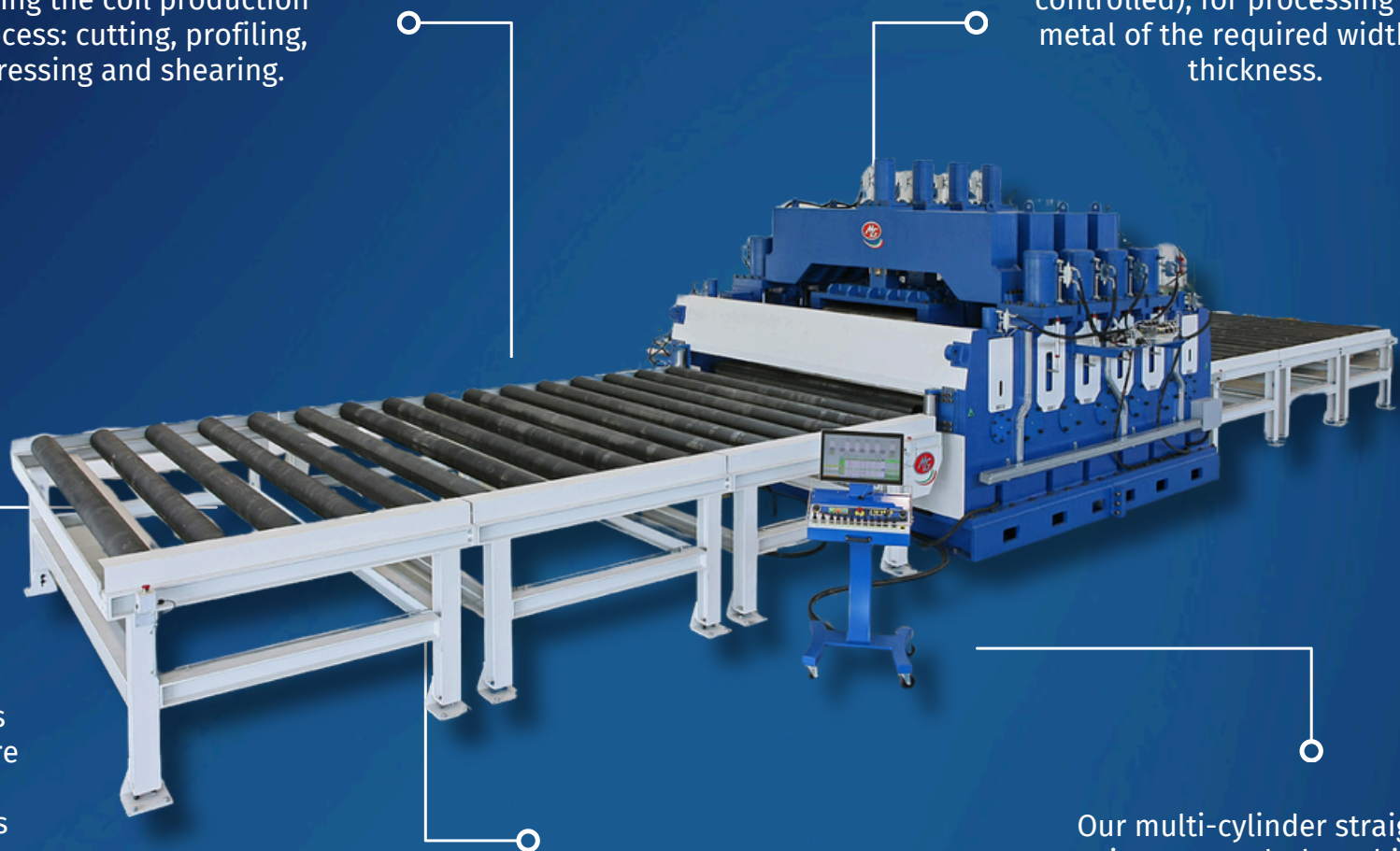


NINE ROLLS

SP LINE MACHINE

MG produces a complete range of flattening machines, flattening and straightening machines, the ideal solution to avoid problems during the coil production process: cutting, profiling, pressing and shearing.

Each machine is adapted to the thickness and type of material processed. Designed and manufactured with a configuration of 5, 7, 9 rolls (the lower ones are hydraulically controlled), for processing sheet metal of the required width and thickness.



The MG range of flatteners eliminates any possible curvature and waviness of the sheet, reducing costs and customer problems.

Sheets produced by rolling lines often have defects due to non-flatness: they affect downstream processes, causing costly delays in production.

Our multi-cylinder straightening equipment works by subjecting the material to "alternating deformations": the diameter and spacing of the rolls are essential to obtain a perfect result, based on the thickness and type of material processed.

SIX ROLLS

SZ LINE SECTION BENDING MACHINE

The new 6-roller profile bending represents an important innovation, because it is capable of bending the profile in two directions, forming an "S".

The calendaring rolls move on a vertical axis and on a linear guide system.

The rollers are also retractable, and all these features allow the particular "S" processing of the profile.

The innovative technology of the machine allows you to bend empty profiles avoiding any type of deformation. In this regard, the so-called "soul" plays a very important role. An articulated support which, by inserting itself inside the profile, accompanies the curvature while maintaining the full conformity of the piece.

