



Straightening Machines

Precision straightening is the key factor in achieving accurate tolerances in short cycle times



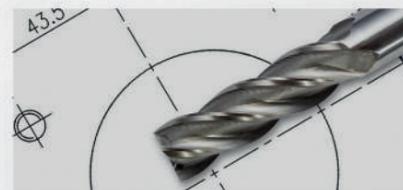
- ✓ Reduce costly machine operations as turning and grinding
- ✓ Improve final geometry of the part
- ✓ Final inspection 100% of processed parts



Automotive, Trasporti, E-mobility



Oil & Gas, Steel mills and Forgings



Precision Mechanics



Profiles

PAS SERIES / Shafts and Tools

Versatility that drives innovation

PAS straighteners are electromechanical machines suitable to straighten shafts, tools, medical drill... Up to 4 m. The innovative C-shaped frame and movable table holding workpieces are key features that make them suitable for both high volume production and small batch processing.



The electromechanical technology offers benefits such as energy efficiency, space saving, flexible layout options, low noise operation, easy accessibility from three sides, and minimal maintenance requirements.

The force is applied axially to the workpiece through recirculating ball screws, ensuring strength, durability, and efficient speed.



TWIN / Profiles and Linear Guides

2 IN 1 Straighteners for correcting linearity and torsion

During the 1980s, the first horizontal machine was developed by Galdabini. Presently, we manufacture TWIN machines that are specifically created for straightening profiles.



The TWIN machine is distinguished by its unique combination of longitudinal (X-Y axis) and torsion straightening in a single machine. can provide precision straightening and short cycle times, making them the ultimate global solution for profiles.

The profile (drill rods, linear guides, square racks, round bars...) is placed freely on supports, and force is applied horizontally. Workpiece measurement is done through continuous Laser scanning, enabling the reading of the actual deformation on the entire length. position on the supports.

GANTRY & TWIN / Heavy Duty

High quality for Oil & Gas, Forgings and Steel Mills

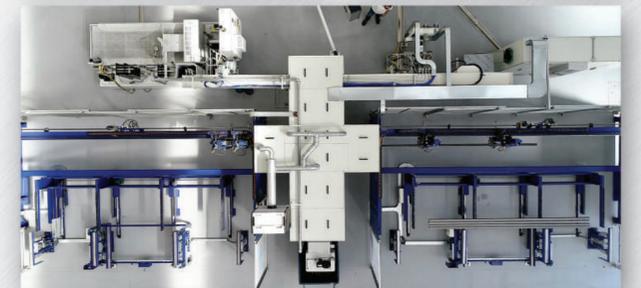
Tubes, bars (round, square, rectangular), and profiles were primarily straightened through rolling or manual presses. However, precision straightening is now essential to achieve tight linearity tolerances. The advancement of heavy-duty automatic straightening machines, such as the GANTRY or TWIN, has greatly improved with sophisticated kinematics, actuators, and electronics.

Those machines are specifically designed for straightening long raw tubes and bars, whether forged or finished. Workpiece measurement is done through continuous scanning, enabling the reading and reconstruction of the actual deformation curve.



DRILL / Drilling Profiles

DRILL is a precision machine that excels in drilling and threading tasks. With two two-axis spindles, it can efficiently drill profiles of various sizes. Its compact and symmetrical design ensures stability and rigidity. DRILL can be seamlessly integrated with our TWIN machines, providing a solution for a smooth and adaptable production process.



RING

The machine applies the concept of horizontal straightening and allows for the measurement and correction of circularity discriminating between ovality, triangularity, and quadrangularity. The horizontal structure of the machine allows for easy loading of the piece and accessibility on 3 sides. Suitable for Sleeves, Synchroning, Ring gears,...

Our Heritage and Certifications

We invest more than 7% of our turnover in R&D and believe that innovative design and pioneering solutions make the difference as demonstrated from our heritage since 1890



1890 •
Start up with hydraulic press and pioneering applications



1950 •
Introduction of manual straighteners



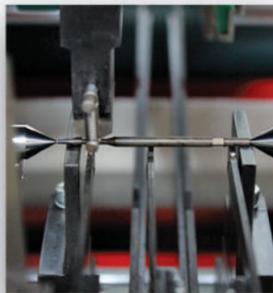
1972 •
Design of the first automatic straightener in the world for shafts



1980 •
First automatic horizontal Straightener for linear guides (twist)



What's Next?



2023 •
Pas series for small parts and tools



2021 •
DRILL: high-accuracy drilling and threading machine



2015 •
Heavy duty up to 4000 tons solution for large dimensions

Why Galdabini?

For us, innovation means new solutions that meet new requirements and needs

This is accomplished through more effective machines, processes, services, technologies and ideas that are all readily available to satisfy customers' requirements and industries

Moreover, we are manufacturer of hydraulic deep drawing presses and lines and we are Official Calibration Laboratory LAT 034 for instruments and straightening machines, too. This let us to provide metrological traceability according to International Standards to assure our manufacturing process control



ISO 9001



ISO 14001



International Quality System



00030

