



SURFACE ENGINEERING

Grinding and Polishing Machines

SPECIALISED IN SURFACE FINISHING OF LONG PRODUCTS



SURFACE ENGINEERING offers the most wide and complete range of surface finishing machines for long products. our turnkey solutions satisfy industrial production requirements spanning those from fabricators up to primary manufacturers of tubes and bars.

ST Serie

The ST models, including STX and STO are the most advanced and complete finishing lines for round products.

TURNKEY SOLUTIONS

Automated system continuously move products through multiple steps grinding and polishing processes that first remove the stock to eliminate surface defects or turning marks then produce consistent high quality surface cosmetics and the targeted surface roughness.

Off line working machines working from bundle to bundle,

PERFORMANCES

The machine settings can be easily changed to attain the desired quality surface finish within a wide range of options.

SCOPE OF SUPPLY

Models ST for round surfaces can be applied to reach one or more of the following results.

- Grinding for stock removal.
- Cosmetic finishing.
- Achieve a targeted roughness.





Bundle loader

STX model is a centerless type grinding machine, modular system when is also necessary to work on small diameters ranges and in case of short parts.

STO Model is the robust belt grinder for highest performances on larger diameters with overhead horizontal units that allow an easy set up and offer big benefits for the users.



ST Grinding unit

GRINDING UNITS

With Heavy grinding units , single type working in wet conditions and with automatic sizing on the dimensions of the parts to be worked.

Each head on multiple head machines is controlled to achieve a different result within a process. For example, the first unit may somewhat aggressively grind the surface to attain the desired stock removal and the subsequent units will use different abrasive tools and pressure to provide a progressively more gentle action that further conditions the surface.



STO Grinding unit

POLISHING UNITS

These units can be equipped with finishing wheels of different types of brushing or polishing material and abrasive compound, working with controlled pressure to compensate the wheel wear.

Polishing angle can be adjusted to achieve a cross cut finishing pattern.

For mirror polishing applications a solid abrasive compound including automatic feeding system with automatic recovery is installed.

STX

GRINDING UNIT :
 Main motor :7,5 kW up to 15kw
 Contact wheel: Dia 400x220 mm
 Grinding belts: 200 x 3500 mm

POLISHING UNITS
 Main motor: 11 kW
 Contact wheel: Dia 400x200 mm
 Tools used: Dia 400 x 220 mm



ST



STO

STO

GRINDING UNITS
 Main motor: 11 kW up to 21 kw
 Contact wheel: Dia 400x220 mm
 Grinding belts: 200 x 4000 mm

POLISHING UNITS
 Main motor :15 kW
 Contact wheel: Dia 400x300 mm
 Tools used: Dia 400 x 300 mm