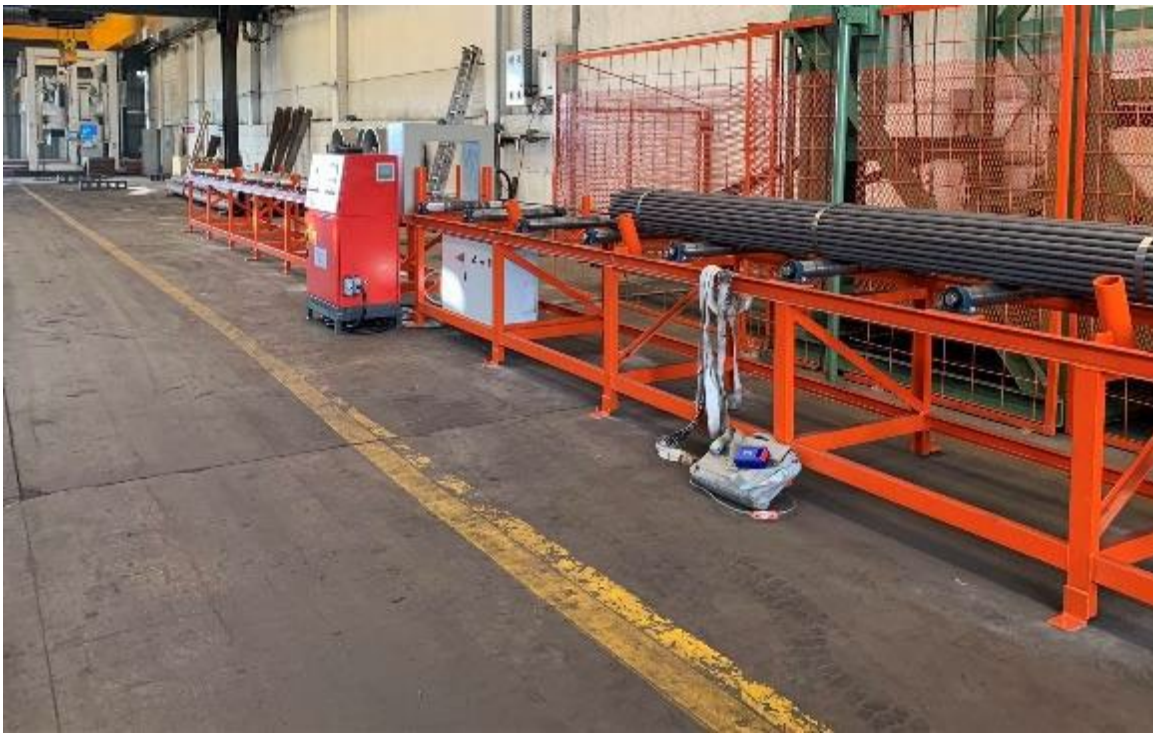




High performance demagnetization system for steel bars, tubes, rods and bundles



The system features the following:

- Low Frequency Sinusoidal Demagnetization System: the correct solution for the automatic demagnetization of thick parts such as pipes, bars and bundles of bars; this allows a complete demagnetization, also below surface by reducing the skin effect.
- Low to High Frequency Sinusoidal Demagnetization System: the most advanced solution for automatic demagnetization, where a complete demagnetization is required with an additional optimization of the magnetization of the surface layer of the part.
- Superimposition of a finely tunable DC magnetic field to compensate the magnetic field where the demagnetization process takes place.
- Compensating DC Field: allows a manual compensation of the magnetic field within the part when it is not possible to properly demagnetize with an automatic cycle.

Demagnetization technology

✓ The most advanced technology for the Demagnetization through Coils: Low Frequency ensures deep demagnetization

- ✓ There are no restrictions on the size of the Coil
- ✓ Suitable for installation in production lines



There are 3 different technologies for demagnetization with coil on the market:

1. AC demagnetizers: they work at 60 or 50Hz and do not demagnetize the center of the parts (no good result) -> standard demagnetizers.
2. HWDC and FWDC: better than AC ones, they usually have a good demagnetization result but not always -> our old technology.
3. Low frequency sinusoidal demagnetizers: the best technology available -> our new and improved technology

The standard unit allows to:

- Adjust and vary the output degaussing magnetic field intensity
- Adjust and vary the output degaussing magnetic field frequency
- Set up decaying intensity steps for even better results
- Choose and set up a succession of steps to compose complex work cycles

The frequency of the output current is finely tunable from 0 to 30Hz allowing a deep penetration of the degaussing magnetic field.

Superimposition of a finely tunable low intensity DC magnetic field to compensate the magnetic field where the demagnetization process takes place:

The oscillating field demagnetizes the part, while the superimposed DC field corrects for the permanent magnetization at the demagnetization coil's location. The most common causes of the static magnetic field are the magnetized transporting machinery and the leakage fields of the magnetization yokes used in flaw testers. If the constant field is not corrected during the demagnetization process, it might get "trapped" in the material and manifest as a residual field across the full length of the material.



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