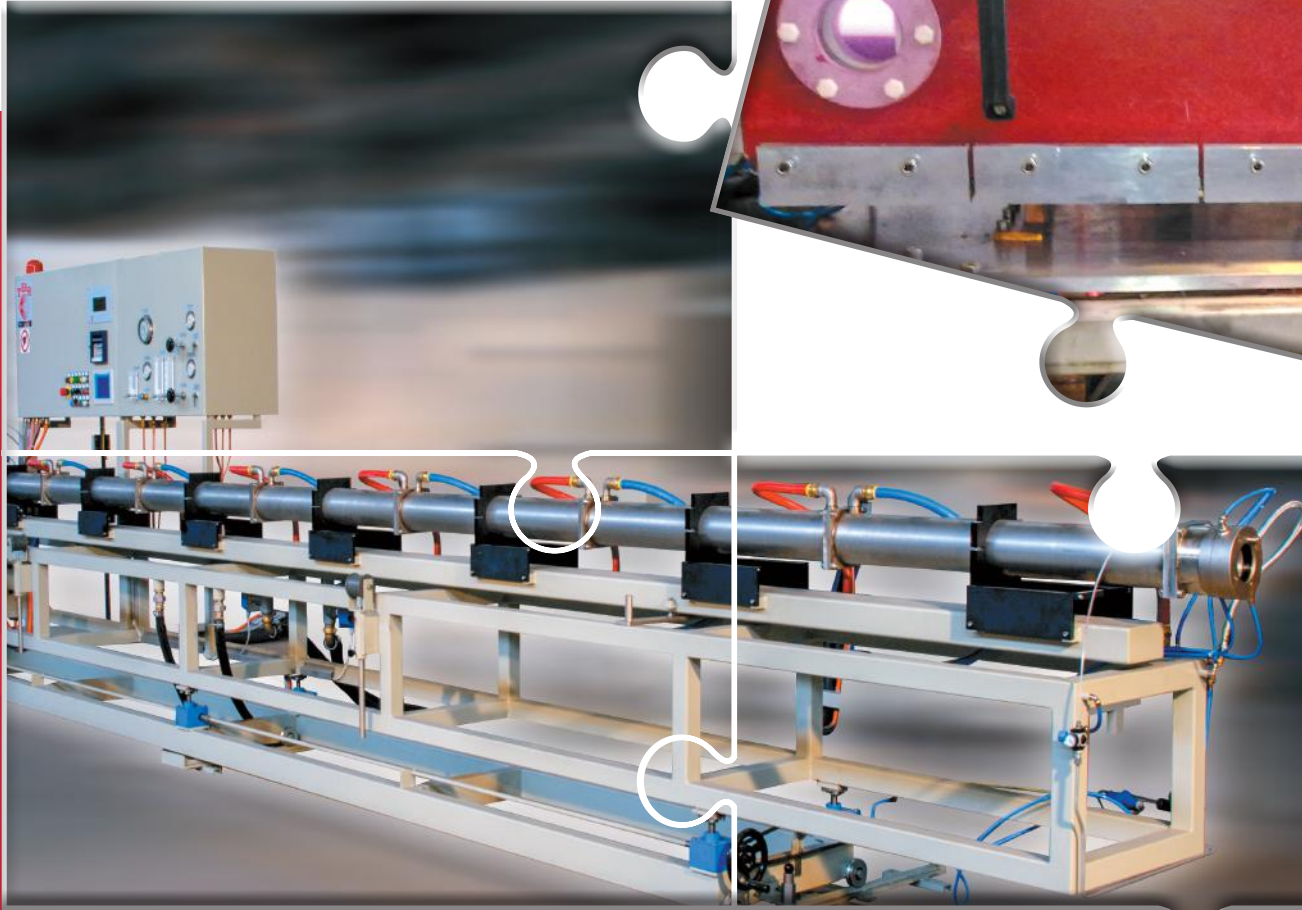




TUBULAR GOODS

IN-LINE BRIGHT ANNEALING EQUIPMENT



Compact



Efficient



Fast



Precise

The in-line bright annealing process is mainly used with AISI 300, AISI 400, duplex, superduplex and titanium pipes for various application such as petrochemical, furniture, automotive, food and beverage.

The main goal of the process is the annealing which is responsible of the decreasing of hardness.

Due to the lower heating time, a partial solubilisation of chromium carbides obtained with respect to the one reached with traditional furnaces.

Consequently the resistance to corrosion is increased, especially in the welded zone.

IN-LINE BRIGHT ANNEALING EQUIPMENT



MACHINE FEATURES

- IGBT inverter
- Heating section with quartz or copper box
- Controlled heating temperature (Pyrometer)
- Cooling in hydrogen controlled atmosphere up to a temperature allowing water shower
- Integrated gas safety management

ADVANTAGES

- No warm up time
- Fast and precise process
- Reduced floor space required
- Automatic safety control system in case of tube bending
- Limited gas consumption
- In-line system
- Easy machine set-up

TECHNICAL INFO

Continuous output power	100 - 600 kW
Power regulation range	0 - 100%
Frequency range	10 - 150 kHz
Voltage supply	On demand
Output Stabilization	By Thyristor Control automatic voltage regulator: $\pm 1\%$ at Net variation $\pm 10\%$
Cooling method	Water to water by Stainless Steel heat exchanger
Max. industrial water temperature	27°C
Standard colour	Light grey RAL 7035
Gas adopted	H2 during tube treatment; N2 for tunnel clearing and emergency H2 emptying
Recipes management	Smart control desk (option)



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