

## Carbo line

### Application: Heat Treatment

Our equipment is utilized across a variety of industries, standing out with the ability to customize heat treatment technologies to meet the unique needs of each customer. In recent years, we have developed a range of advanced solutions for processes such as quenching and tempering, carburizing, and carbonitriding heat treatments. To date, we have successfully supplied over 50 production lines, demonstrating our expertise and commitment to delivering tailored, high-performance systems.

### Facility Upgrades: Controlled Atmosphere Formation

For the generation of controlled atmospheres, we offer a range of high-quality equipment, including:

- **Endothermic Generators:** Custom-built by us for precise atmosphere control.
- **Nitrogen-Methanol Distribution Control Units:** Featuring forced ventilation inside the operation chamber for optimal distribution.
- **Gas Distribution Panels:** Manufactured in-house, these panels are essential for the treatment process, equipped with flow meters and the ability to add methane and ammonia for carburizing and carbonitriding, as well as Carbon Potential control.

Our solutions are designed to enhance the performance and efficiency of your heat treatment operations, ensuring precise control and reliability.

### Heat Treatment Solutions: Technical Specifications

We offer a wide range of equipment designed for various heat treatment processes, including:

- **Complete Quenching and Tempering Lines:** These systems are equipped for quenching, carburizing, and carbonitriding, available with or without loaders and washing machines for oil quenching. Capable of handling up to 600 kg/h, they feature both self-recovering radiant tube combustion heating and electric radiant tube heating.
- **Complete Austempering Lines:** These lines include metallic muffles for containing the controlled atmosphere and salt quenching, with options for bucket elevators or drum carousels, offering production capacities of up to 300 kg/h.
- **Tempering Furnaces:** Available with either electric or combustion heating, these furnaces include options for bluing or air quenching.
- **Loaders:** These systems feature elevators and loading cells designed for efficient part distribution on the conveyor belt.
- **Drum/Belt Washing Machines:** Our two- or three-step washing machines include washing, rinsing, drying, or centrifuge systems. We also offer automatic washing lines with spinning drums for enhanced cleaning efficiency.

The selection of the appropriate furnace depends on your required hourly production and the weight-to-volume ratio of the parts being treated.

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