HEAT TREATMENT OVENS

Stress Relieving Oven

Oven that heats welded and machined parts below their transformation point to remove internal stress without changing properties.



TEMPERATURE
Up to 650°C

HEATING
Electric or gas (LPG/PNG/CNG)

INDUSTRIES
Fabrication, welding, machining

Specifications

Typical stress relieving range	550°C to 650°C for carbon steel
Maximum temperature	up to 1,000°C to 1,200°C on request
Heating	electric 80/20 NiCr or Kanthal coil, or gas (LPG/PNG/CNG) burners
Example electric load	56 kW
Insulation	230 mm ceramic fibre
Shell	6 mm MS
Uniformity	±5°C (design dependent)
Control	programmable ramp-soak PID with recorder
Loading	box, trolley or bogie hearth

Features

- Programmable heating, soak and cooling rates
- Chart or paperless recorder for heat treatment records
- Load thermocouples on request
- Electric or fuel fired
- Sized to your largest fabrication
- Low heat loss ceramic fibre lining

Applications

- Welded frames, tanks and pressure parts
- Machine beds and bases before machining
- Castings and forgings
- Gear blanks and shafts
- Fabrications needing dimensional stability