HEAT TREATMENT FURNACES

Hardening Furnace

Electric or gas furnace that heats steel parts to hardening temperature for quenching, up to 1,200°C.



TEMPERATURE
Up to 1,200°C

HEATING
Electric or gas (LPG/PNG/CNG)

INDUSTRIES
Steel forging and casting, fasteners, tools and dies, auto parts

Specifications

Maximum temperature	up to 1,200°C
Typical hardening range	about 800–950°C depending on steel
Types	batch box/chamber or continuous conveyor
Electric	Kanthal A1 elements, PID with thyristor
Gas	LPG/PNG/CNG burners with flame safety
Conveyor drive	1 HP AC variable speed (conveyor models)
Insulation	up to 225 mm ceramic fibre + mineral wool
Quench	oil, water or polymer tank at discharge (option)

Features

- Batch or continuous designs
- Fast transfer to the quench
- Protective atmosphere or packing option
- Even heating through the section
- Independent over-temperature protection
- Paired hardening and tempering lines

Applications

- Hardening nuts, bolts and fasteners
- Hardening tools, dies and punches
- Hardening gears, shafts and pins
- Hardening agricultural and auto parts
- Hardening springs and clips before tempering