

PROFITHERM®

MODELS	P50	P80	P150	P300	P500	P800
Batch gross weight (kg)	50	80	150	300	500	800
Max height (mm)	300	600	700	700	700/1100	900
Useful dimension (mm)	□300x300	□300x300	□400x400	Ø500	Ø700	Ø900

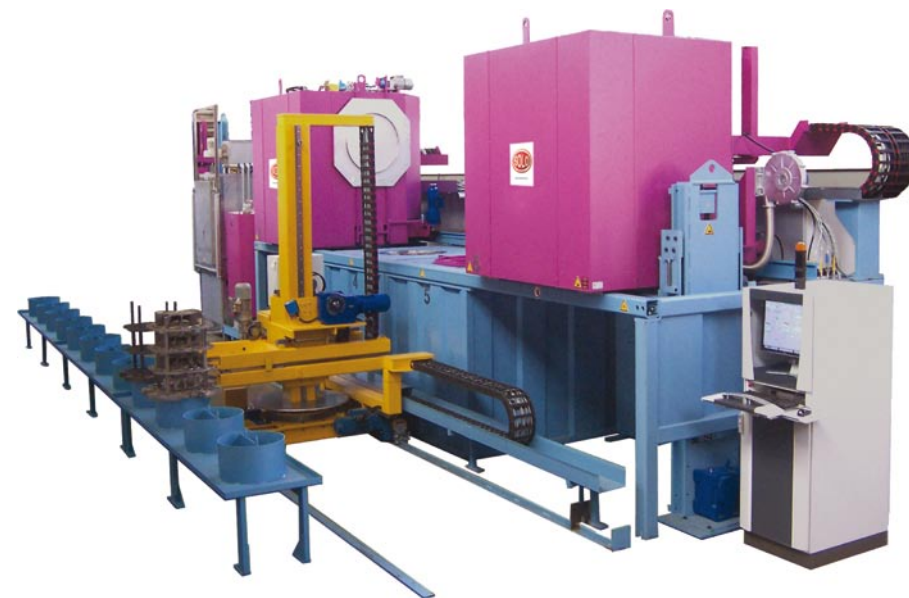
Different configurations



1 furnace and 1 tank



2 furnaces and 1 tank



2 furnaces, 2 tanks,
1 washing machine,
1 tempering furnace,
1 automatic robot



PROFITHERM®



SOLO® Bell-type furnace
manufactured under license by Thermic Service SA



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 **Advanced Furnaces for Metal Heat Treatment**



Basic equipment

PROCESSES

- Austenitisation under neutral atmosphere or under controlled atmosphere
- Carburising
- Carbonitriding
- Nitriding
- Nitrocarburizing
- Oxynitriding
- Annealing
- Tempering
- Brazing
- Black superficial oxidation
- **AMS 2750D & ATEX Standards (upon request)**

FURNACE

- Temperature up to 1100°C
- 3 cascades T- regulation
- Metallic retort
- Electrical heating
- Automatic quench
- Axial turbine
- Oxygen-probe

QUENCH TANK

- Water / Polymer
- Oil 60°C - 160°C
- Salt 180°C - 500°C
- High ratio between volume and load weight >10

Equipment:

- Media circulation adjustable
- Lift speed adjustable
- Heat exchanger for quenching one load per hour
- Media level control
- Door



GAS DISTRIBUTION

- N2 purging, safety and cycle
- CH3OH direct injection
- Carbon potential regulation with air/propane (mass-flow-meter)
- All security for gas injection
- Safety double valves

MAJOR OPTIONS

- NH3 for carbonitriding
- NH3 mass-flow meter for carbonitriding
- Infra-red CO/CO2 analyser for O2-probe control or carbon potential regulation

HARDWARE

- Latest PC with 19" screen, WindowsXP, WinCC by Siemens.
- Siemens CPU and I/O (Hot Swap).
- Modem or internet connection.
- Colour printer, UPS.

SOFTWARE

- Process regulation and control.
- Security management.
- Automatic quench sequences.
- Alarms in clear text.
- Graphical display (curves and synoptic).
- Visualisation, online modifications of the process parameters.
- Cycles, programmes, recipes, parts and load management with archiving (data base).
- Parameter set-up of regulation and calibration data.
- Recipes and load management with archiving.
- Weekly calendar.

MAJOR OPTIONS

- AXRON MES products
- Open connectivity (SAP, Microsoft NAV, ..)

Powered by **AXRON**
AUTOMATION & CONTROL

Accessories



Additional quench furnace fully equipped



Washing machines 1, 2 or 3 tanks



Fork lift



Loading material



Tempering furnaces