

Multi purpose chamber furnace plant



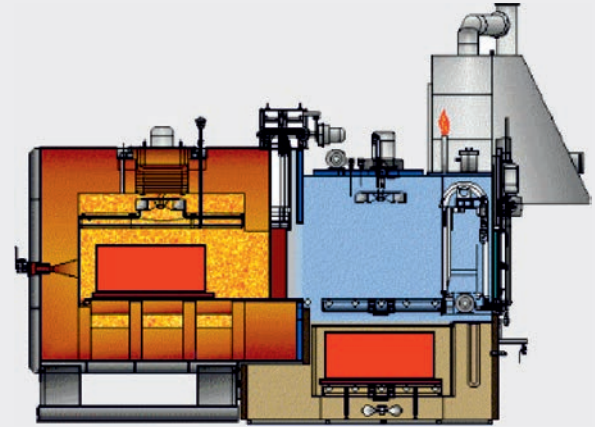
The
universal
heat
treatment
plant

► Technical data

Standard series

Size	Batch size WxLxH (mm)	Gross charge (kg)
3	600 x 1100 x 650	650
4/2	700 x 1300 x 850	1200
5/2	900 x 1500 x 850	1500
5/3	900 x 1500 x 1300	1800

Special sizes on demand



► Application purpose

- from smaller up to medium capacities
- for different heat treatment processes
- for different part types and high variety of parts
- for batch weights from appr. 150 to 1800 kg
- if flexibility is required
- for different production demands
- if quality together with profitability is required

► Design features

- Material choice
 - no heat resistant drives in the furnace chamber
- Tray transport
 - one tray transport in the cold area
 - short transfer time into oil tank (at gross weight 1000 kg about 20 sec.)
- Drives
 - generally electromotive (no compressed air requested)
- Intermediate door
 - gas tight design for nitrocarburizing (optional)
- Furnace hearth
 - big clearways for gas streaming
 - SiC hearth bricks
- Temperature uniformity
 - ± 5 K guarantee
- Oil bath volume
 - at 1000 kg batch 6000 l oil
 - small temperature rise at quenching
- Oil circulation
 - directed oil flow
 - charge densely compassed with guide plates
 - also very well suited for tight charging of small parts
- Design of Heating Systems
 - single ended radiant tubes with low surface load (W/cm^2); material: heat resistant steel, APM Sintermetal or SiSiC ceramics
 - long lifetime
 - heating by gas or electrical
- Gas heating
 - Aichelin NOXMAT® burners
 - high combustion air pre-heating
 - high thermal efficiency
 - minimized waste gas losses

► Customer's advantage

- Heat treatment of high quality
- Automatic and completely reproducible heat treatment processes
- Fully automatic process guidance
- Plant technology extendable, connectable with other plants
- Low running costs

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