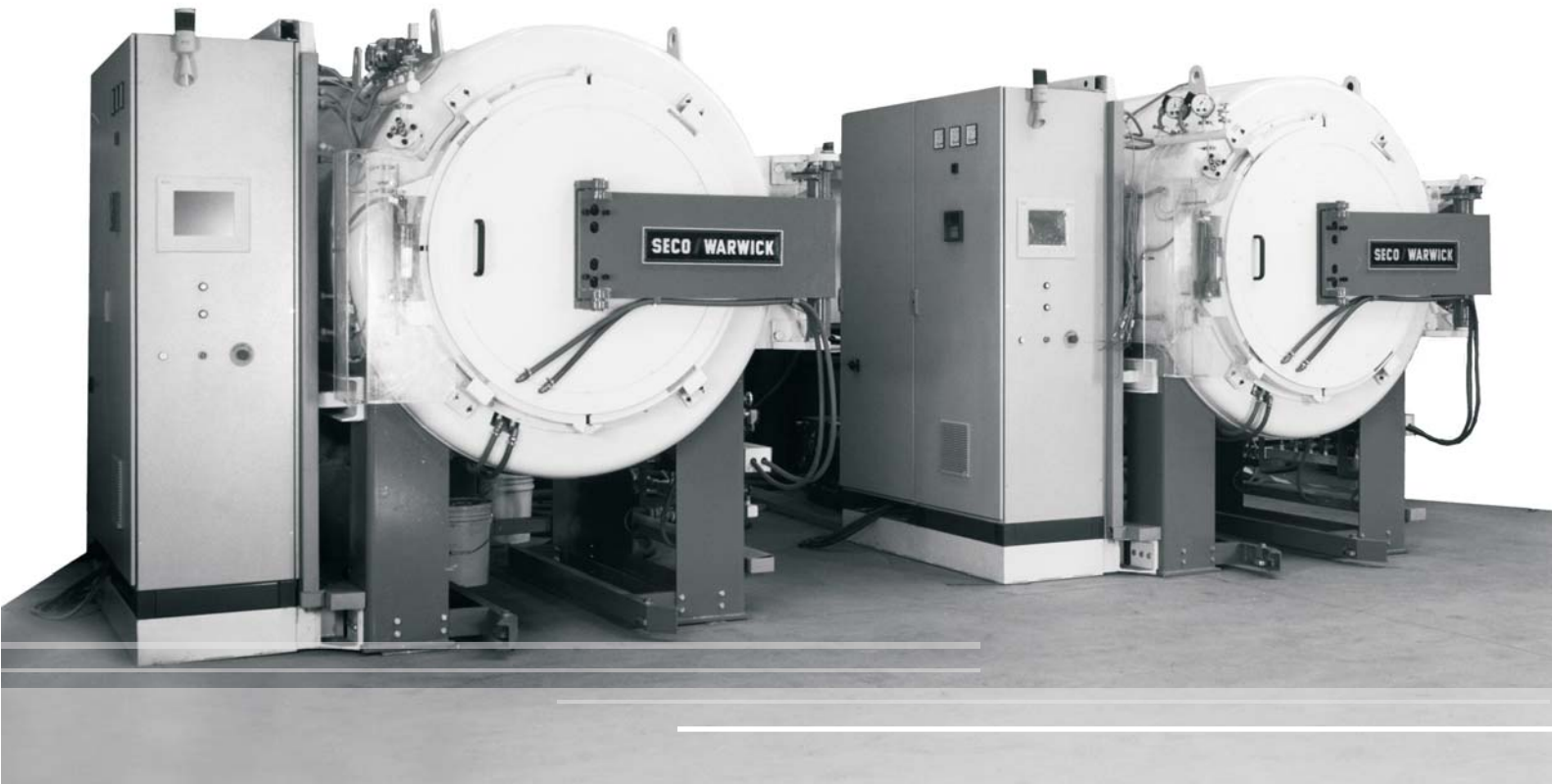




RETORT TEMPERING

VACUUM FURNACES



Type VTR - Horizontal Loading

Application

- Tempering ■ Stress Relief ■ Protective Atmosphere Annealing ■ Gas Nitriding
- Soldering / Low Temperature Brazing

Typical applications: machine tool industries, tooling, extrusion and stamping dies for the aerospace and automotive, camshaft, crankschafts and gears...

Furnace features

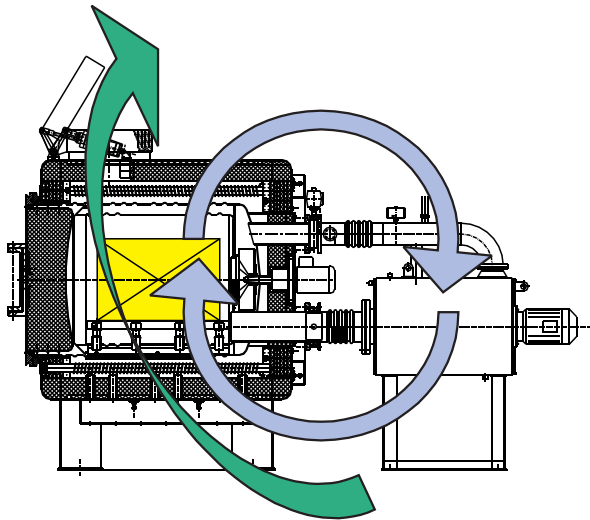
- Compact design ■ Temperature Uniformity ■ Industrial computer/PLC control
- Accommodates oversized loads ■ Easy maintenance

Process Advantages

- Wide variety of application ■ Short cycle time ■ Lower operating cost
- Environmentally friendly

RAPID HEATING AND COOLING LOW GAS CONSUMPTION BRIGHT AND CLEAN LOAD SURFACE

- SECO/WARWICK furnaces are compact in design, easy to maintain, energy and gas efficient.
- Light weight, horizontally oriented cylindrical retort is corrugated to ensure dimensional stability during vacuum purging and fast heating/cooling cycles. The convection fan and specially configured gas deflectors assure excellent temperature uniformity.
- Door locking mechanism with third clamping ring prolongs service life of door lip seal and provides easy access for maintenance.
- Furnace control system is based on programmable logic controller (PLC) and an industrial computer contained in a compact control cabinet.
- Water cooling and pumping systems provide easy maintenance and requires minimum installation area.
- Optional cooling systems, including:
 - external cooling of retort with ambient air blower
 - internal forced cooling of load with inert gas blower and heat exchanger
 - combination of above



STANDARD FURNANCES TECHNICAL DETAILS

(other sizes also available)

Type VTR		5035/36		5050/48	
		mm	h	mm	h
Uniform Zone Size	mm	600/600/900		900/800/1200	
W/H/L	h	24/24/36		36/32/48	
Heat Capacity	kg	600		1200	
Operating temperature	°C	700		700	
Vacuum	mbar	range 10 ⁻¹			
Max. heat/cooling pressure	bar				