

ALD Vacuum Technologies

High Tech is our Business

DualTherm[®]

Flexible and economical heat treatment



DualTherm®

Multi-Purpose vacuum chamber furnace

Cost effective for small series and special applications

Thanks to excellent carburization homogeneity, the outstanding part quality and environmental friendliness are impressive, even with components of complex shapes.

- ▶ High reproducibility of part quality
- ▶ Avoiding intergranular oxidation (IGO) and surface oxidation
- ▶ Low environmental contamination
- ▶ High energy efficiency due to low thermal loss

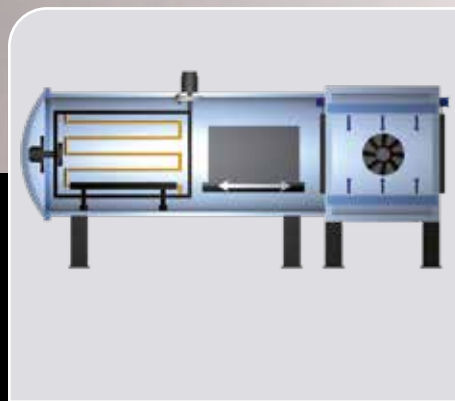
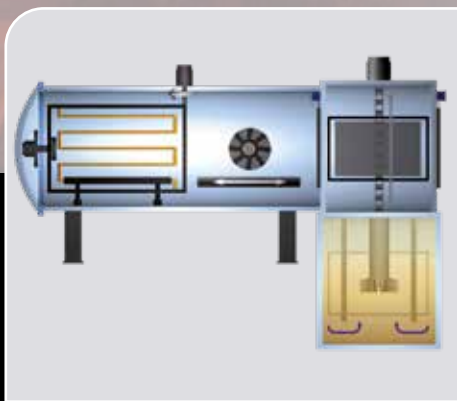
QUENCHING WITH GAS

- ▶ consistent quench intensity (no "aging" of quench medium)
- ▶ dynamic quenching possible
- ▶ reversing gas-flow possible
- ▶ better control of distortion

QUENCHING WITH OIL

- ▶ Strong quench - achieving higher core strengths
- ▶ allowing the use of low-alloy case-hardening steels (lower material-costs)
- ▶ allowing to quench big parts with low hardenability

	charge dimensions (mm)			gross charge weight (kg)	quench options
	width	height	length		
DT 1000	600	750	1,000	1,000	N ₂ / He / Ar max. 20 bar, Oil, optional with gas cooling
DT 2500	1,000	1,000	1,500	2,500	Oil, optional with gas cooling



HARDENING | CASE HARDENING | BRAZING | SINTERING | LPCN | ANNEALING | TEMPERING



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