

ALD Vacuum Technologies

High Tech is our Business

VKUmO Vacuum Sintering Plant for Heavy Metal Alloys

ENGINEERED FOR UNIFORM
HIGH-TEMPERATURE
PERFORMANCE UNDER VACUUM
& HYDROGEN ATMOSPHERE



ald

www.ald-vt.com

Resistance Heated Furnace with up to 6 Independently Controlled Molybdenum Heating Circuits

PROTECTIVE GAS OPERATION FOR CLEAN, CARBON-FREE SINTERING

- ▶ Round heating insert inside round vessel for flexible high loading
- ▶ High temperature uniformity through the symmetrical arrangement of the heating circuits (longitudinal and cross axis)
- ▶ Safety concept for flammable gases including burn-off system
- ▶ Earth fault detectors for all heating circuits prevent "arcing"
- ▶ Vacuum & hydrogen overpressure sintering until 1,650°C
- ▶ Internal gas ventilation for fast cooling
- ▶ Long-life ceramic stone insulation, low in maintenance
- ▶ Automatic recognition of wear on the heaters

TECHNICAL DATA		VKUmo
Installation size		40/40/120 40/40/180
Nominal charge dimension [mm]		400 x 400 x 1,200 400 x 400 x 1,800
Rated power [kW]		300 400
Rated temperature [°C]		1,650
Temperature uniformity [K]		+/- 5
Vacuum pressure [mbar]		≤ 1x10 ⁻²
Hydrogen flow [l/h]		10,000 (50 mbar overpressure)



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