NITREX

SAR/VPA SERIES / COATING FURNACE

MEETING THE PERFORMANCE DEMANDS OF COMMERCIAL AND MILITARY AEROSPACE JET ENGINE APPLICATIONS

The high-temperature Sealed Atmosphere Retort (SAR) designed for vapor phase aluminide (VPA) coating technology is the go-to furnace for aerospace manufacturers looking to enhance the performance and extend the life of turbine blades and vanes. The VPA process substantially increases the durability, including the oxidation and corrosion resistance of superalloys against high-burn temperatures and erosion.



SAR/VPA SERIES

- → PRACTICAL
- → DEPENDABLE
- → EFFICIENT
- → ECONOMICAL



BENEFITS

- → Low maintenance requirements
- → Furnace uptimes above 95%, a critical KPI in lean manufacturing
- Improvement of component durability and reliability to withstand extreme environments

FEATURES

- → Enclosed automated base for enhanced safety and convenience during operation
- → Cold retort loading protected from any heat
- → Automatic movement, heating, and cooling capabilities in an enclosed environment allow for installation in common factory environments

MODELS

- → Furnace hearth on a fixed base perfect for low to medium production
- → Fully or semi-automated production cell with the furnace hearth on a moving base and optional single or dual forced-air cooling stations for high production and 24/7 operation

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Furnace retort on a moving base

Furnace retort on a fixed base

SPECIFICATIONS

MODEL	Maximum Load Dimensions (Diameter x Height)	Gross Load Capacity (LB. @ 2,400 °F / KG @ 1,315 °C)	Temperature Range
SAR-3642	36" x 42" (914 mm x 1,067 mm)	2,250 lb. (1,021 kg)	2,200 °F (1,204 °C)
SAR-4242	42" x 42" (1,067 mm x 1,067 mm)	2,500 lb. (1,134 kg)	2,200 °F (1,204 °C)

* For non-standard sizes, please contact Nitrex for details. Nitrex reserves the right to make changes without notice.

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