

Technology Spotlight advertorial

ALD Thermal Treatment, Inc.

ALD Thermal Treatment is a provider of vacuum heat-treat services that incorporate the high-pressure gas-quenching process (HPGQ) – highly valued in close tolerance component manufacturing. With three high-technology plants located in Port Huron, Mich.; Columbia, S.C.; and Ramos Arizpe, Mexico, this global service company has become the largest of its type in North America, applying their unique vacuum processes and HPGQ technology to precision components in a variety of industries.

ALD Thermal Treatment actively seeks high-volume opportunities to develop specialized processes that add value and reduce costs within the supply chain. The company currently offers: vacuum/plasma carburizing, hardening, carbonitriding, annealing, brazing and gas quenching (N₂/He). A recent addition of CMM capability assists in their efforts to minimize geometric changes in their processes.

Vacuum carburizing advantages:

- Fast carbon transfer
- No surface oxidation
- Excellent case-depth uniformity
- Efficient consumption of carburizing gases
- High carburizing temperatures available

High-pressure gas quenching advantages:

- Reduction in dimensional variation
- Quenching intensity is adjustable
- Flexible process
- Clean and dry parts
- Reproducible quenching results
- Simple process control

ALD Thermal Treatment Inc. is a subsidiary of ALD Vacuum Technologies GmbH, which serves a demanding group of international customers with branches in North America, Japan, Britain, Russia, Poland and more than 70 representative offices around the world.

The Solution



ALD Thermal Treatment, Inc.

Providing the finest metallurgical services in a wide variety of markets through Vacuum Treatments and specialized gas quenches.

**Vacuum Carburizing and High Pressure Gas Quenching
Plasma Nitriding • Vacuum High-temperature Nitriding
Vacuum Hardening • Vacuum Brazing • Annealing
Normalizing • Cryogenic Treatments**

GLOBAL SERVICE CENTERS

Port Huron, MI • Columbia, SC • Ramos Arizpe, Mexico



Michael Pode (Sales) 803-546-6686 or mpode@aldtt.net
Robert Peters 803-600-8052 or rpeters@aldtt.net