Choose the best in sintering
Ipsen’s new TITAN® DS debinding and sintering furnace was specifically developed for applications in the MIM and Powder Metallurgy industries.

Together, with our industry-leading development partners, we have delivered a low-maintenance and extremely cost-efficient system to the market.

By adopting our proven TITAN platform, which is best-selling in several industries, and by using an innovative binder removal technology to greatly reduce maintenance time between cycles, the TITAN DS masters the complexity of the MIM industry’s requirements.

The TITAN DS is a skid-mounted system that installs in days. Its intuitive control system supports multiple languages, provides real-time data acquisition and stores up to 1,000 heat treatment recipes. TITAN DS offers a small footprint, manufacturing versatility and operational efficiency with minimal cycle costs, which all add up to increased profitability and response time.

**Benefits:**

- Reduced door-to-door cycle time through automated binder removal and innovative pump cleaning system
- Precise process control for consistent part quality and the prevention of parts and hot zone contamination
- Enhanced technical features for high-quantity MIM and PM applications with an unbeatable price-to-volume ratio
- Standardized system for use around the world
- Optimized production flow with modular design
- Rapid startup and delivery
Technical Information:

- Work Zone Sizes: 18” x 18” x 24” (457 mm x 457 mm x 610 mm) or 36” x 36” x 48” (915 mm x 915 mm x 1,220 mm)
- Workload Capacity: 6,000 lbs (2,700 kg)
- Operating Temperature: 2,550 °F (1,400 °C)
- Cleanup Temperature (one hour max.): 2,600 °F (1,426 °C)
- Temperature Uniformity: +/- 10 °F (+/- 5 °C)
- Three Heat Trim Zones
- Hot Zone Insulation: 0.030” (0.76 mm) CFC over 2” (50 mm) graphite felt
- Graphite Heating Elements: front and back
- Partial Pressure Capability: nitrogen, argon and hydrogen up to 10 Torr (13 mbar) (Standard)
- Internal Gas Quenching: nitrogen or argon up to 2 bar
- Rated Power of VRT: 240 kVA
- Ultimate Vacuum Level: ≤ 50 microns (7 Pa)

Key Features:

- Binder Trap System
  - Carbon steel housing design with high volume capacity
  - Heating elements for binder wax removal
  - Cooling accessory to condense heavy amounts of binder residue
  - Scalability, by stacking stages, to increase trap capacity
  - Versatile binder traps with easily interchangeable condensation cartridge

For more information, contact Ipsen at 800.365.8879 or email TITAN@IpsenUSA.com.