

Core Capability

Press-and-sinter powder metal components (small → large) with near-net-shape focus and high density.

- **Pressing:** 15–825 ton, single & multi-action.
- **Sintering:** 24" belt furnace up to ~2100°F; **sinter-hardening** with rapid-cool for consistent properties.
- **Part envelope:** Components up to ~10" Ø (geometry dependent).

Materials

- Iron/steel families (incl. sinter-hardened)
- **Stainless** (300/400/17-4)
- **Bronze**
- **Brass**
- **Copper**

Secondary Operations

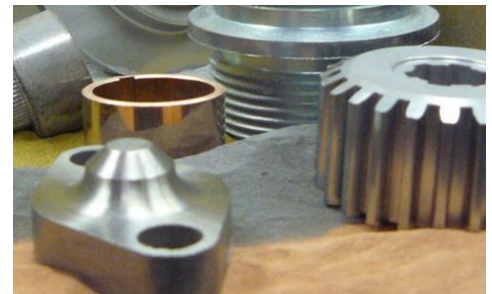
- CNC turning/milling
- drilling/tapping
- honing & grinding (incl. double-disk)
- steam treat/heat treat
- oil/resin **impregnation**
- plating (zinc, Zn-Ni, chromate, black oxide)
- value-add **assembly**

Quality

- SPC (PQ Systems, Minitab)
- CMM & vision systems (e.g., Starrett AVR)
- gear inspection (Vari-Roll)
- micro-hardness with vision
- Lean/Six Sigma methods; error-proofing

Engineering & Tooling

- DFM + **machined-to-PM conversions** for cost/weight reduction.
- In-house tool design; APQP-driven launch; quick prototypes for design review.



Industries

Automotive/Light Truck | Heavy Equipment | Industrial/Automation | Appliance & Power Tools | Lawn & Garden | Agriculture
Sports/Recreation | Firearms | Electric Motor | Hydraulic | Office | Medical

Differentiators

- Wide **press window to 825 ton**; multi-action for complex, closer-to-net parts.
- **Sinter-hardening** for high strength (Rc 40+ class achievable).
- Tooling → press → sinter → machining/finish → **assembly** under one roof.
- Fast, collaborative **conversion engineering** that lowers cost vs. machining.

