



(updated March 2019)

## CAPABILITIES/EQUIPMENT LIST

### Material Prep

- (1) Automatic Feed Marvel Saw
- (1) Model 8 Marvel Saw
- (1) Thomson Automatic Flat Grinder 8" X 24"
- (1) CPO-250 Cutoff Saw
- (1) Model 30 Tumbler

### Manual and CNC Milling

- (1) Kitamura HX400 Horizontal Machining Center 2 Pallets  
20,000 Rpm Spindle
- (2) Fanuc Robodrill Vertical Machining Centers, 4th Axis, 2  
Pallets, 24,000 Rpm Spindle
- (1) Haas VF3 Vertical Machining Center 20" x 40" With 5  
Axis Milling
- (1) Haas VF5 Vertical Machining Center 26" x 60" With 5  
Axis Milling
- (1) Haas UMC-750, 5 Axis CNC Mill
- (2) Kitamura Vertical Machining Centers 20" x 30" 15,000  
rpm Spindle
- (2) TRAK Quik-Cells Mills 14" x 14" with 4th Axis
- (1) TRAK FHM7 3 Axis Vertical Mill 23" x 60"
- (1) TRAK DPM V5 3 Axis Vertical Mill 12" x 48"
- (2) Sharpe 2 Axis Vertical Mills 9" x 42"
- (3) Manual Vertical Mills 9" x 42"

### CNC Turning

- (3) Okuma Turning Centers / 10" Dia. (1) live Milling with  
"C&Y" Axis
- (1) Okuma LB3000EX live tooling / C Axis Twin Turret  
with Live Milling
- (1) Hardings Turning Center / 10" Dia.
- (1) Trax 2 Axis Tool Room Lathe / 10" x 40"
- (1) Manual Engine Lathe / 10" x 40"

### Grinding

- (3) CNC Surface Grinders with profile capability
- (12) Manual Surface Grinders
- (2) O.D./I.D. B+S Universal Grinders
- (2) O.D. Centerless Grinders
- (1) B & S Universal Grinder
- (1) Moore Jig Grinder (42,000 - 100,000 / 8" X 24" table)
- (1) Thompson Hydraulic Grinder / 8" X 24"
- (1) Harig 618W Autostep Grinder
- (1) Sunnen MBB 12900 MS Hone

### EDM

- (1) Charmilles ROBOFILL 2020SI Wire EDM
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- (1) Funuc Robocut C400IA
- (2) Charmilles 230 Wire EDM
- (1) Charmilles Manual D-10 w/Orbital Head
- (1) Charmilles Roboform 200 CNC (20 Station Tool Changer /  
Table Travel / 8" X 12" X 12" Table)
- (1) ProPen Dot Peen Marking System
- (1) B+S Reflex CMM
- (1) Okamoto Aero Lap YT-100 Polish Machine
- (2) Ultra Sonic Polishing Units

### Quality

- ASQC Certified
- Registered to ISO 9001:2008
- ZEISS CMM with Calypso software
- Brown and Sharp Reflex CMM
- (8) Optical Comparators up to 30"
- (3) Toolmakers Microscope
- (2) Wilson Hardness Tester
- (12) Fowler Hi-Cal Electronic Height Gages
- (47) Lab Grade Granite Surface Plates
- (32) Certified Ceramic Gage Block Sets

### Cad Cam/ Software

- Solid Works
- Mastercam
- Tech Soft

Starn Job Shop Manager Plus