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## MACHINING SOLUTIONS / CAPABILITIES CHART

### WIRE EDM:

- Maintains tolerances to +/- .00005"
- Taper angles to 45° with accuracy to three seconds
- 10 RMS or higher
- Full production capable
- Latest power supply technology (including Anti-Electrolysis)
- Auto threading and submersible machines
- Wire diameter from 0.002" to 0.014"

### MICRO HOLE EDM DRILLING:

- High repeat accuracy
- Virtually burr-free hole
- 0.004" to 0.125" diameter electrodes
- Capable of drilling depths 300 times the diameter
- 1,800 lb capacity
- CNC programmable
- Reduces risk of broken drills
- Eliminates costly machinery
- Full production capable
- Performs difficult drilling tasks

### SINKER EDM:

- CNC programmable
- High repeat accuracy
- Surface finishes to 32RMS and higher
- Exotic material experience – including carbide
- Full production capable
- C-axis capable for complex burns
- Hole threading in hardened materials and repair of holes with broken taps that insures minimal damage to existing threads
- Eliminates costly machining of intricate details
- Equipped with tool-changer to maximize run time efficiency

### WATERJET:

- Cuts virtually any material
- Fast & cost-effective
- X-axis and Y-axis up to 6' x 12'
- Motorized 8" Z-axis, capable of cutting upwards of 16"
- Reduces mechanical stress and heat distortion
- Valuable for prototyping, short and extended run applications
- FlowMaster Software: Intelligent PC Control and Programming
- Dynamic Waterjet head with Active Tolerance Control

### MULTI-AXIS MACHINING:

- All alloys, plastics, and other materials machined
- Diverse machining techniques
- Tool room equipped for all pieces & parts (including production runs), progressive stamping dies, & precision fixtures

### SURFACE GRINDING:

- Hardened, soft steel, and carbide
- Maintains +/- 0.0001"
- Auto dressing cycle
- CBN, diamond, and stone wheels
- CNC 3 step controller
- Speed controls and variable electro magnetic chuck

## **TURNING:**

- Live tooling
- Y-axis cutting
- Multiple Spindle
- Bar feed
- All alloys
- Hard turn
- Hard thread
- Complete parts in one operation
- Prototype to production
- High-production efficient

## **QUALITY ASSURANCE:**

- ISO 9001:2000 Certified
- Brown & Sharpe, GLOBAL Advantage, 9158 CMM
  - Contact accuracy to 0.000035" (.001m)
- Tesa-Visio 300 CNC PC-DMIS
  - Non Contact accuracy to 0.0001" w/ variation
- Import and Use CAD Files
- Scanning Head: SP80
- Statistical Process Control
- Capability Studies
- Reverse Engineering
- Contract Inspection

## **SHIPPING:**

- UPS
- FedEx
- Multiple loading docks
- 10,000 lb Crane
- LTL - Courier Service
- Capable of Same-Day and/or Over-Night Delivery
- Custom Packaging

## **SAWING:**

- Contour & Cutoff Sawing
- Horizontal Saw- adjustable for large envelopes
- Abrasive Cutoff Machine- Long length capabilities
- Variable speed/Down feed
- Pneumatic feed control for angular cuts, adjustable table
- Capable of cutting alloys, plastics and wood

## **SOFTWARE/COMMUNICATIONS:**

- AutoCAD
- Pro-Nest
- Solidworks
- JobBOSS
- International Business Familiarity
- MasterCam
- Micro-Estimating
- Esprit
- Turnkey Project Management

## **DRILLING:**

- Sensitive adjustments
- Upright drill press

## **MEASURED SUPPLY CHAIN:**

- Anodizing
- Chrome Plating
- Design
- Engraving
- Fabrication
- Forming
- Gear and Spindle Machining
- Heat Treating
- Honing
- Injection Molding
- Inspection
- Powder Coat
- Prototyping