**FIELD MACHINE LIST**

**Milling Machines**

- **KM3000**
  - Clamps on 1.5” – 10” shaft. Self-Centering key up to 1.25”

- **KM4000**
  - Clamps on 4” – 24” shafts. 2” lateral travel for keys up to 3.25”

- **MINI MILLS**
  - Hydraulic driven 30” X, 15” Y, 7” Z, Collet Spindle up to 1.25” shank
  - Hydraulic driven. 84” X, 24” Y, 4” Z, #40 NMTB Spindle up to 6” cutter
  - Hydraulic Driven. 144” X, 30’’ Y, 8” Z, #50 NMTB Spindle up to 8” cutter

- **CNC Mill**
  - Hydraulic Driven. 9” X, 9” Y, 12” Z CAT 50 Spindle.

- **LM5200**
  - Available, in Linear or Gantry setup, Gantry = 199” X, 117” Y, 8” Z

- **LM6000**
  - Available, Clamps OD 98”-209” or ID 79”-177” and mills up 199”

- **LM6200**
  - Available, in Linear or Gantry setup, Gantry = 230” X, 117” Y, 8” Z

- **CM6200**
  - Available, Clamps OD 98”-209” or ID 79”-177” and mills up 199”

**Flange Facers**

- **FF1000**
  - Clamps on OD flanges from 4”- 12” and faces from 00” to 12.0”

- **FF5000**
  - Clamps on ID flanges from 3”- 18” and faces from 5” to 24”

- **FF8200**
  - Available, Clamps OD 90”-136” or ID 45”-120” and faces 45”-120”

**Boring Bars**

- **BB3000**
  - Bore from 1.5” to 5” up to a 96” long bar) 110V

- **BB5000 x 3**
  - Bore from 2.5” to 24” up to a 96” Long bar. Longer bars available) 110V

- **BB6000**
  - Bore and face from 9” to 38” up to 144” Long Bar. Longer bars available)

- **BB8100**
  - Available, Bore and face from 18” to 80” up to 240” Long Bar) HYD

**Hydraulic Pumps**

- **7.5 HP HPU**
  - 480V Rotation sensitive

- **10.0 HP HPU x 2**
  - 480V Rotation sensitive

- **25 HP HPU x 2**
  - 480V Rotation sensitive

**Portable Lathes**

- **PL2000**
  - Set up and turn from 1.5” to 9.0” x 12.5” back) 110V
- **PL3000**
  - Set up and turn from 4” to 11” x 22” back) Air
- **PL4000**
  - Available, Set up and turn from 8” to 24” x 27” back. 2.5”/ft. taper

**Drills**

- **Disrupter 30**
  - Swivel mag bas for round ID or OD. 16.4” tall 3/4” weldon spindle). 110V

- **MAB485**
  - Mag drill to 7/8” x 1” tap. 17”-23” tall, mt2 x 1.625 annular) 110V

- **MAB525**
  - Mag drill to 1” x 1” tap. 19”-25” tall, mt3 x 2.5 annular) 110V

- **MAB825**
  - Mag drill to 1.125” x 1.25” tap 18”-28” tall mt3 x 4” annular) 110V

- **MAB1300 x 5**
  - Mag drill to 1.625” x 1.75” tap 22”-35” tall MT4 X 5” annular) 110V

- **Lamina 4**
  - Mag drill to 1.5” x 1.25” tap. 19”-30” tall. MT4). HYD x 480V

- **Lamina 5**
  - Mag drill to 2” x 2.375” tap. 23”-42” tall MT5). HYD x 480V

- **High Torque**
  - Clamp and Drill to 5” x 5” tap. 48” tall. HYD x 480V

**Portable Grinding**

- **120” X max 75” Y**
  - Surface Grinding

- **120” Length**
  - Roll Grinding

**Laser Trackers**

- **Faro Ion**
  - Fast Short Range Precision

- **Leica 402**
  - Compact Long Range Tracker
### Machine List

#### Lathe Equipment
- **18** Engine Lathes: capacity to 69” diameter x 30’ between centers
- **1** Romi swing: 23”x152” with 14-3/4” through bore CNC
- **1** Johnford Lathe 40”x160” CNC
- **1** 42” Vertical Turret Lathe
- **1** 60” Vertical Boring Mill
- **1** 81” Vertical Boring Mill
- **2** CNC Mazak Quickturn 25L: capacity to 12.6 diameter x 28” between centers
- **1** CNC 5 Axis Mazak Integrex 35: capacity to 16” diameter x 60” between centers

#### Milling Equipment
- **1** Toshiba 4-axis CNC Horizontal with Rotary Table: 80”x 60”x 20” capacity, 12,800 lb.
- **1** Johnford 4-axis CNC Horizontal Machining Center: 78” x 70” x 65” capacity, 15,400
- **1** Hurco VMX64 with 4th axis: 64”x 34”x 34” vertical CNC machining center
- **1** Hurco VMX30: 30”x20”x 24” vertical CNC machining center
- **1** AGMA CNC Vertical: 31” x 39” x 86” 8,800 lb. capacity
- **1** Fryer CNC Vertical: 30” x 60” x 28”
- **1** Gray Planer Mill: 60” x 15’ capacity
- **2** Horizontal Boring Mills: 4” and 5”
- **3** Key Seaters: capacity from ¼” to 4” wide x 40” long

#### Drilling Equipment
- **3** Radial Drill Presses: 4’, 5’ arms
- **4** Bench Drill Presses

#### Grinding Equipment
- **1** Cincinnati Roll Grinder: crown capability to 24”x 14’ x .090 crown
- **13** Cylindrical/Crankshaft and Roll Grinders: capacity to 48”diameter x 19’ long between centers
- **3** Surface Grinders: capacity to 5’ wide x 12’ long
- **3** Rotary Surface Grinders: capacity to 30” diameter
- **2** Internal Grinders: capacity to 15” grind length and 8’ long
- **1** Gem Finisher: for finishes to 1/4 Ra.
- **2** Abrasive Belt Grinders: 4” for rubber or metallic work
- **3** Crane Lapmasters
- **1** Dynamic Balancing Machine: 72” O.D. 20’ long x 10,000 lb. capacity
- **1** Diamond Belt Grinding: for carbide & chrome 48” x 19’

#### Welding, Fabricating and Hard Facing Equipment
- **6** Sub Arc Welders: capacity to 80” diameter x 40’ long at 1000 amps
- **3** Heliarc and Tig Welding Machines
- **4** Conventional Arc Welders: to 500 amps
- **1** 4” x 8” mini-CNC digital control burn table (portable capabilities)
- **1** Boretech Welder: capacity to 1” x 25” diameter x 6’ long
- **1** Stress Relieving Furnace 20’ x 8’ x 8’, 40 ton Capacity, up to 1850°F
- **1** Froniorm Hot Wire Tig

#### Thermal Spray
- **2** High Velocity Oxygen Fuel
- **1** Powder Flame Spray
- **1** Electric Arc Spray
- **1** Finishing

#### Crane Equipment
- **15** Overhead Bridge Cranes: capacities to 40 tons
- **18** Jib Cranes: capacities to 2 tons

#### Metallography Lab
- Specimen preparation
  - Microhardness
  - Vickers and Knoop
  - Portable and Stationary Microscope for Surface Image Analysis up to 400x
  - Coating Analysis
  - Porosity & Contamination
  - Thickness and Grain Distribution
  - Roughness
  - Material Etching
  - Welding Analysis
  - Optical Emissions Spectrometer (OES)

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#### Inspection Equipment
- **1** FARO ION Laser Tracker
- **1** Leica 402 Laser Tracker
- **1** Smile 400 Tool Setter
- **2** Magnetic Particle Inspection Machines
- **2** Magnaflux Machines
- **3** Rockwell Hardness Testers
- **1** Bendix Profile Surface Finish Indicator Equipment
- **1** Equipiptip Portable Hardness Tester

#### Saws
- **2** Vertical Metal Cutting Band Saws: to 26”
- **4** Horizontal and Cutoff Band Saws

#### Press Equipment
- **3** Hydraulic Presses: Vertical and Horizontal: capacity to 450 tons
  - Portable Press Equipment to 250 tons
- **3** Straightening Presses

#### Cleaning Equipment
- **3** Glass Bead Cabinets
- **1** Long Hot Tank: 32” x 48” x 10’
- **3** Jet Washer Cabinets
- **3** High Pressure and Steam Power Washers

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### Shop Solutions
- **Repair & Maintenance of Plant Equipment**
- **Manufacturing**
- **Engineering**
- **Steel**
- **Forging/Stamping**
- **Power**
- **Concrete, Mining, and Aggregate**
- **Oil/Gas**
- **Pot Rolls**
- **Galvanizing Equipment**
- **Thermal Spray**

### Onsite Solutions
- **Machining**
- **Welding**
- **Metrology**
- **Stud Removal**
- **Custom Solutions**

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