



# ATLAS

## 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)
- LM5200** (Hydraulic driven. 84" X, 24" Y, 4" Z, #40 NMTB Spindle up to 6" cutter)
- LM6000** (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 Spinde).
- LM6200** (Available, in Linear or Gantry setup, Gantry = 199" 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



## 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"x 20"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 1/4" 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 Froniom 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)

## 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 Equiptip 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

# MACHINE LIST

## SHOP SOLUTIONS

- REPAIR & MAINTENANCE OF PLANT EQUIPMENT
- MANUFACTURING
- ENGINEERING
- STEEL
- FORGING/STAMPING
- POWER
- CEMENT, MINING, AND AGGREGATE
- OIL/GAS
- POT ROLLS
- GALVANIZING EQUIPMENT
- THERMAL SPRAY

## ONSITE SOLUTIONS

- MACHINING
- WELDING
- METROLOGY
- STUD REMOVAL
- CUSTOM SOLUTIONS

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