



EQUIPMENT LIST

CNC TURNING CENTERS

- **Mori Seiki, SL403C/800, CNC Heavy-Duty Lathe** with MSX-500 Control, MAPPS IV Interface, A2-15 spindle nose, 7.3" thru spindle, 24.4" dia. Turning capacity, high pressure coolant and mist collector system, auto door, 12-tool turret, 1500rpm 2spd 40 h.p. spindle, 2011 model.
- **Mori Seiki, NL2500Y/700, CNC Lathe** equipped with full "C" Axis live tooling (6000 rpm), 4" travel Y-axis, 3.125 bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 max hp. spindle, MAPPS II operating system, 2006 model.
- **Mori Seiki, NL2500Y/700, CNC Lathe** equipped with full "C" Axis live tooling (6000 rpm), 4" travel Y-axis, 3.125 bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 max hp. spindle, MAPPS II operating system, 2006 model.
- **Mori Seiki, NL2500MC/700, CNC Lathe** equipped with full "C" Axis live tooling (6000 rpm), 3.125 bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 max hp. spindle, MAPPS II operating system, 2005 model.
- **Mori Seiki, NL2500MC/700, CNC Lathe** equipped with full "C" Axis live tooling (6000 rpm), 3.125 bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 max hp. spindle, MAPPS II operating system, 2005 model.
- **Mori-Seiki, ZL 200BPMC 500, CNC Lathe** five axis turning center with live tooling on upper and lower turrets, parts catcher, IEMCA Bar Feeder, FANUC 16TTC control, 2 1/8" bar capacity, 9" dia. turning capacity, 2002 model.
- **Mori-Seiki, SL 253BMC 500, CNC Lathe** equipped with full "C" Axis live tooling, parts catcher, IEMCA Bar Feeder, FANUC 16TC control, 2 7/8" bar capacity, 12" dia. turning capacity, 2001 model.
- **Mori-Seiki, SL 250B-500, CNC Lathe** with FANUC 16TF control, 25 h. p., 2 5/8" dia. thru spindle, 12" dia. turning capacity, 2000 model.
- **Mori-Seiki, CL-203A, CNC Lathe** with FANUC MSG 803 control, 20 h.p., 2" dia thru spindle, 9" dia turning capacity, 1999 model.
- **Mori-Seiki, SL 200BMC, CNC Lathe** equipped with full "C" Axis live tooling, FANUC 16TC control, 20 h. p., 2 5/8" dia. thru spindle, IEMCA Bar Feeder, parts catcher, 9" turning capacity, 1999 model.
- **Mori-Seiki, SL-250B, 500, CNC Lathe** with FANUC 18T control, 25 h. p., 2 5/8" dia. thru spindle, 12" dia. turning capacity, 1999 model.
- **Mori-Seiki, SL-250B, 500, CNC Lathe** with FANUC 18T control, 30 h. p., 2 5/8" dia. thru spindle, 12" dia. turning capacity, 1999 model.
- **Mori-Seiki, SL-400B, 900, CNC Lathe** with FANUC 16TC control, 50 h. p., 4 5/8" dia. thru spindle, 24" dia. turning capacity, 1999 model.
- **Mori-Seiki, SL-403B/800, CNC Lathe** with MSX-501T control, 50 h. p., 4 5/8" dia. thru spindle, 24" dia. turning capacity, 2005 model.
- **Mori-Seiki, SL-25B, 500, CNC Lathe** with FANUC 16T control, 25 h. p., 2 1/2" dia. thru spindle, 12" dia. turning capacity, 1997 model.
- **Mori-Seiki, L2, 500, CNC Lathe** with FANUC 21T control, 25 h. p., 2 1/2" dia. thru spindle, 12" dia. turning capacity, 1997 model.
- **Mori-Seiki, CL-20, CNC Lathe** with FANUC 16T control, 15 h. p., 2 5/8" dia. thru spindle, 9" dia. turning capacity, LNS Hydro Bar Feeder, 1996 model.
- **Mori-Seiki, SL-25B, 500, CNC Lathe** with FANUC 16T control, 25 h. p., 2 1/2" dia. thru spindle, 12" dia. turning capacity, 1996 model.
- **Hitachi-Seiki, HTG-25 600, CNC Lathe** with Seicos LIII control, 25 h. p., 2 1/2" dia. thru spindle, 14" dia. turning capacity, 1996 model.
- **Hitachi-Seiki, HTG-25 600, CNC Lathe** with Seicos LIII control, 25 h. p., 2 1/2" dia. thru spindle, 14" dia. turning capacity, 1996 model.
- **Hitachi-Seiki, HT-20 SII, CNC Lathe** with Multi-Seiki control, 20 h. p., 2" dia. thru spindle, 9" dia. turning capacity, LNS Hydro Bar Feeder, 1995 model.
- **Hitachi-Seiki, HT-23 SII, CNC Lathe** with Multi-Seiki control, 25 h. p., 2 1/2" dia. thru spindle, 12" dia. turning capacity, LNS Hydro Bar Feeder, 1995 model.
- **Mori-Seiki, AL-20, CNC Lathe** with FANUC OT control, 10 h. p., 1 3/8 dia. thru spindle, 6" dia. turning capacity, 1990 model.
- **Hitachi-Seiki, HT-20, CNC Lathe** with FANUC 10TF control, 15 h. p., 1 3/4" dia. thru spindle, 9" dia. turning capacity, 1987 model.



EQUIPMENT LIST (Cont'd)

CNC MACHINING CENTERS

- **Mori-Seiki NV7000/50, Vertical Machining Center, MSX-711 IV, MAPPS IV Interface, 66.9 X 29.9 working surface, 60.6 X 29.9 X 26.0 travels, 60 tools, 10,000 rpm, OMP60 Renishaw probe, high pressure – thru spindle coolant, ChipBlaster EV-13DA and MistBlaster, 2011 model.**
- **Mori-Seiki NH6300DCG/50, Horizontal Machining Center, MSX-701 III, 24.8 x 24.8 working surface, 35.4 x 31.5 x 38.6 travels, 8,000 rpm, 50 h.p., 2010 model.**
- **Mori-Seiki NH500DCG/50, Horizontal Machining Center, MSX-701 III, 19.7 x 19.7 working surface, 25.6 x 23.6 x 28.7 travels, 8,000 rpm, 30 h.p., 2009 model.**
- **Mori-Seiki NH5000DCG/50, Horizontal Machining Center, MSC-701 III, 19.7 x 19.7 working surface, 25.6 x 23.6 x 28.7 travels, 15,000 rpm, 30 h.p., 2009 model.**
- **Mori-Seiki, NH5000DCG/50, Horizontal Machining Center, MSX-501 III control, 19.7" x 19.7" working surface , 25.6 x 23.6 x 28.7 travels, 8,000 rpm, 30 h.p., 2008 model.**
- **Mori-Seiki, NH5000/50, Horizontal Machining Center, MSX-501 III control, 19.7" x 19.7" working surface , 25.6 x 23.6 x 28.7 travels, 15,000 rpm, 30 h.p., 2007 model.**
- **Mori-Seiki, SH-500/50, Horizontal Machining Center, MSC-502 control, 19.7" x 19.7" working surface, 24.8" x 23.6" x 25.6" travels, 10,000 rpm, 30 h.p., 2002 model.**
- **Mori-Seiki, MV-40E, Vertical Machining Center, MSC-500 control, 22" x 16.1" x 18.1" travels, 8,000 rpm, 10 h.p., 20 tools, 2000 model.**
- **Mori-Seiki, MV-40E, Vertical Machining Center, MSC-500 control, 22" x 16.1" x 18.1" travels, 8,000 rpm, 10 h.p., 20 tools, 2000 model.**
- **Brother, TC-S2A-O, Drill-Tapping Machining Center, 15x32 Bed, 11"x14"x27" travels, 16,000 rpm, 14 tools, 8 h. p., 2000 model.**
- **Mori-Seiki, MV55/50 Vertical Machining Center with MSC-501 FANUC control, 35h.p./ 30h.p., Shuttle Type Auto Pallet Changer, 22"x22"x40" travels, 55"x20" pallet size, X,Y,Z optical scales, Renishaw NC-1, 2 speed geared headstock, 60 tools, 6000 rpm, high pressure– thru spindle coolant, helical interpolation and synchronized tapping, 2001 model.**
- **Mori-Seiki, MV55/50 Vertical Machining Center with MSC-501 FANUC control, 30 h. p., 2 speed geared headstock, 30 tools, 6000 rpm, 22"x22"x40" travels, high pressure– thru spindle coolant, helical interpolation and synchronized tapping, 2000 model.**
- **Mori-Seiki, SV500/40 Vertical Machining Center with MSC-501 MA FANUC control, 30 h. p., 20"x20"x31.5" travels, 10,000 rpm, 24 tools, high pressure-thru spindle coolant, helical interpolation and synchronized tapping, 2000 model.**
- **NTC-Toyama, CMC-VS4J, High Speed Machining Center with dual 16"x21" Pallet Changer System, 14"x16"x20" travels, 12,000 rpm, 21 tools, 10 h. p., high pressure-thru spindle coolant, 1999 model.**
- **Brother, TC-324, Drill-Tapping Machining Center with dual 16"x20" Pallet Changer System, 12"x14"x20" travels, 10,000 rpm, 14 tools, 6.5 h. p., 1999 model.**
- **Brother, TC-324, Drill-Tapping Machining Center with dual 16"x20" Pallet Changer System, 12"x14"x20" travels, 10,000 rpm, 14 tools, 6.5 h. p., 1999 model.**
- **Brother, TC-324, Drill-Tapping Machining Center with dual 16"x20" Pallet Changer System, 12"x14"x20" travels, 10,000 rpm, 14 tools, 6.5 h. p., 1998 model.**
- **Brother, TC-229, Drill-Tapping Machining Center, 11"x14"x19" travels, 10,000 rpm, 14 tools, 6.5 h.p., 1998 model.**
- **Mori-Seiki, MV40B CNC Vertical Machining Center, FANUC 21M control, Renishaw Probe System, Renishaw Tool Setter, 16"x20"x30" travels, 8000 rpm, 10 h. p., 20 tools, 1997 model.**
- **Mori-Seiki, SV50 CNC Vertical Machining Center, FANUC 18M control, 20"x20"x31.5" travels, 10,000 rpm, 30 h. p., 20 tools, high pressure-thru spindle coolant, 1997 model.**
- **Mori-Seiki, MV40B CNC Vertical Machining Center, FANUC 16MF control, dual 18"x28" Pallet Changer System, Renishaw Probe System, Renishaw Tool Setter, 16"x20"x30" travels, 8000 rpm, 10 h. p., 20 tools, 1996 model.**
- **Hitachi-Seiki, VK65L, CNC Vertical Machining Center, Seicos MIII control, 25 h. p., 2 speed geared headstock, 30 tools, Renishaw Probe System, 28"x28"x63" travels, 5000 rpm spindle, 1995 model.**
- **Hitachi-Seiki, VK45, CNC Machining Center, Seicos control, 10 h. p., 2 speed geared headstock, 20 tools, Renishaw Probe System, 18"x20"x32" travels, 6000 rpm spindle, 1992 model.**



EQUIPMENT LIST (Cont'd)

SUPPORT MACHINERY

- Cincinnati Centerless Grinder, Model 220-8, 3/8" thru 4 1/2" capacity, 20 h. p.
- Clausing Colchester, 17"x80" Engine Lathe, taper attachment, Anilam Digital Readouts, 1989 model.
- 2-lagun Vertical Mills, 3 h. p., 10"x16"x44", Anilam Digital Readouts, power feeds, 1989 model.
- 11- Clausing Drill Presses, up to 22" capacity, with tapping attachments.
- Amada CM100CNC Production Cut Off Saw, CNC control, Incline table, .6 to 4.0 capacity, 2006 model.
- Amada HA250 Production Cut Off Saw, 10"x12" capacity, 1989 models.
- Amada HA400W Production Cut Off Saw, fully automatic, 16"x16" capacity, 1998 model.
- Amada HFA400W Production Cut Off Saw, programmable and automatic, 16"x16" capacity, 1999 model.
- Roto-Finish Vibratory Finishing Machine, 5 cu. ft. capacity, self unloading.
- Grob Band Saw, Model 4V-18
- Kalamazoo Cut-off Saw, Model 13AW
- Brown & Sharpe Surface Grinder, Model 818
- Harig Surface Grinder, Model 612
- Torit Dust Collection System, Model VS-550
- Wells Index Mill, Model 887
- 3 Bridgeport Mills
- Harrison Engine Lathe, Model M400 16"
- Standard Modern, 28" Radial Drill Press
- Thermolyne Furnace, Model 3F1856
- Roper Whitney Press Brake/Bender, Model 412A.
- Shear.
- Taylor Winfield Spot Welder, 150 K.V.A..
- Wean United Spot Welder, 200 K.V.A..
- Federal Spot Welder, 150 K.V.A.
- Barber-Colman, gear hobbing machine



EQUIPMENT LIST (Cont'd)

INSPECTION EQUIPMENT

- O. D. Micrometers 0-24".
- O.D. Groove Micrometers 0-7".
- I. D. Bore Gauges 0-6.5".
- Wilson Model 4 JR Rockwell hardness tester, 1999 model.
- Electronic Inside Diameter Bore Gage System
- Zeiss G2 Contura CNC Coordinate Measuring Machine, 40" X 63" X 24", RDS with XXT scanning heads capable of stylus lengths up to 11.811", Multi sensor rack with carrier and tip sockets, Calypso software
- Zeiss Spectrum CNC Coordinate Measuring Machine, 28"x40"x24", RDS w/ TP20 Rack, Calypso Software.
- Mitutoyo B706 Manual Coordinate Measuring Machine, 28"x24"x18", Renishaw PH8TP2 Probe System, Geopak 2000 Software.
- Pocket Surf by Mahr/Federal Portable Surface Finishing Measuring System, Reads RMS, RA, Rg, Rz, Ry.
- Mitutoyo Surface Finishing Measuring System, Reads RMS, Ra, Ry, Rz, Rq, Rt, Rp (JIS/ISO or DIN)
- OGP 14" Optical comparator, 10X & 20X magnification, 6" X 12" range, 55lb. capacity, fully programmable with Measuremind Plus software.
- Mitutoyo Optical Comparator, Model PH14, 10X magnification, 8" x 4" 100lb. capacity, Quadra-Chek 200 readout with glass scales.
- Mitutoyo Laser Scan Micrometer, Model LSM-9506, measuring range from .02-2.36" with a resolution of .000002", V-Block roller slide with adjustable work piece holder. Programmable with audible sound and GO/NOGO limits
- Micro-Vue 14" Optical Comparator, 16 bit micro process computer, .0001 resolution 10x thru 30x lens.
- Oxford model 730, Plating/Painting thickness measurement capability with Eddy current probe and Magnetic Induction probe. Can measure Zinc, Anodize, Chrome and Paint over various substrates.
- I. D. Bore Micrometers 0-12".
- Intra-Mics From .800"-2.000" .002 increments
- Master Set Rings
- Trimos and Fowler digital height Gages 0-24".
- Misc. – Pin Gauges, Height Gauges thru 18", Granite Surface Plates, Bench Centers, Ringmasters, Gauge Blocks, Granite Angle Plates, I.D. Groove Calipers, Go/No Go Plug Gages.