



EQUIPMENT LIST

CNC TURNING CENTERS

8-12 inch Turning (37 machines)

- **Takisawa, TS-4000YS, CNC LiveTool Lathe** with FANUC 32i-B control, 4,200 rpm main spindle, 6,000 rpm sub spindle, 12-station turret, parts catcher, bar feed interface, high pressure coolant and mist collector system, auto door, 2023 model
- **Takisawa, TS-4000YS, CNC LiveTool Lathe** with FANUC 32i-B control, 4,200 rpm main spindle, 6,000 rpm sub spindle, 12-station turret, parts catcher, bar feed interface, high pressure coolant and mist collector system, auto door, 2023 model
- **Takisawa, TS-4000YS, CNC LiveTool Lathe** with FANUC 32i-B control, 4,200 rpm main spindle, 6,000 rpm sub spindle, 12-station turret, parts catcher, bar feed interface, high pressure coolant and mist collector system, auto door, 2023 model
- **Takisawa, TS-4000YS, CNC LiveTool Lathe** with FANUC 32i-B control, 4,200 rpm main spindle, 6,000 rpm sub spindle, 12-station turret, parts catcher, bar feed interface, high pressure coolant and mist collector system, auto door, 2023 model
- **DMG Mori, NLX2500Y/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 28.6" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2022 model.
- **DMG Mori, NLX2500Y/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 28.6" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2022 model.
- **DMG Mori, NLX3000Y/1250, CNC LiveTool Lathe** with CELOS control, 3,000 rpm spindle, 10,000 rpm livetools, 4" bar capacity, 16.9" turning capacity, 49.6" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 10 station turret, programmable tailstock, 40 h.p., 2021 model.
- **DMG Mori, NLX2500Y/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 28.6" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 4' autoloader LNS barfeed 12 station turret, programmable tailstock, 34.7 h.p., 2021 model.
- **DMG Mori, NRX2000, CNC parallel dual-spindle LiveTool Lathe** with COMPACTline Mitubishi M730UM control, 6,000 rpm spindles, Gantry Loader 5.9" X 3.9" max workpiece, 14-station workpiece stocker, 8 station turrets, 15.0 h.p., 2018 model.
- **DMG Mori, NRX2000, CNC parallel dual-spindle LiveTool Lathe** with COMPACTline Mitubishi M730UM control, 6,000 rpm spindles, 10,000 rpm livetools, Gantry Loader 5.9" X 3.9" max workpiece, 26-station workpiece stocker, ChipBlaster high pressure and mist collector system, 8 station turrets, 15.0 h.p., 2018 model.
- **DMG Mori, NLX2500/1250, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 49.4" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2019 model.
- **DMG Mori, NLX2500/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 27.7" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2015 model.
- **DMG Mori, NLX2500/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 27.7" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2015 model.
- **DMG Mori, NLX2500/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 27.7" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2015 model.
- **DMG Mori, NLX2500/700, CNC LiveTool Lathe** with CELOS control, 4,000 rpm spindle, 10,000 rpm livetools, 3.125" bar capacity, 14.4" turning capacity, 27.7" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 34.7 h.p., 2015 model.
- **Kitako-Shimada, HS4200n, CNC Multi-Spindle Lathe** with Fanuc 18iT 4-axis control, equipped with 4 A2-6 Spindles, 4500rpm, 20 h.p., 7.8" turning capacity, 2013 model.
- **Kitako-Shimada, HS4200n, CNC Multi-Spindle Lathe** with Fanuc 18iT 4-axis control, equipped with 4 A2-6 Spindles, 4500rpm, 20 h.p., 7.8" turning capacity, 2013 model.
- **Mori Seiki, NLX2500Y/700, CNC Lathe** with MSX-853 IV Control, equipped with 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, 4' autoloader LNS barfeed, 40.0 h.p., 2012 model.
- **Mori Seiki, NLX2500Y/700, CNC Lathe** with MSX-853 IV Control, equipped with 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, 4' autoloader LNS barfeed, 40.0 h.p., 2012 model.



EQUIPMENT LIST

- **Mori Seiki, NL2500Y/700, CNC Lathe** with MAPPS II operating system, equipped with 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, 4' autoloader LNS barfeeder 40.0 h.p., 2006 model.
- **Mori Seiki, NL2500Y/700, CNC Lathe** with MAPPS II operating system, equipped with 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, 4' autoloader LNS barfeeder 40.0 h.p., 2006 model.
- **Mori Seiki, NL2500MC/700, CNC Lathe** with MAPPS II operating system, equipped with live tooling (6000 rpm), 3.125" bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 h.p., 2005 model.
- **Mori Seiki, NL2500MC/700, CNC Lathe** with MAPPS II operating system, equipped with live tooling (6000 rpm), 3.125" bar capacity, 14.0" turning capacity, high-pressure coolant and mist collector system, automatic doors, 40.0 h.p., 2005 model.
- **Mori-Seiki, ZL 200BMC 500, CNC Lathe** with FANUC 16TC control, five axis turning center with live tooling on upper and lower turrets, parts catcher, IEMCA Bar Feeder, 2.125" bar capacity, 9" dia. turning capacity, 2002 model.
- **Mori-Seiki, SL 253BMC 500, CNC Lathe** with FANUC 16TC control, equipped with live tooling, parts catcher, IEMCA Bar Feeder, 2.625" bar capacity, 12" dia. turning capacity, 2001 model.
- **Mori-Seiki, SL 250BMC 500, CNC Lathe** with MSC-518 control, equipped with live tooling, 2.625" bar capacity, 12" dia. turning capacity, 1997 model.
- **Mori-Seiki, CL-25A 500, CNC Lathe** with Fanuc MF-T8 control, 20 h.p., 2.6" dia thru spindle, 17.7" dia. turning capacity, 1997 model.
- **Mori-Seiki, SL 250B-500, CNC Lathe** with FANUC 16TF control, 25 h.p., 2.625" 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** with FANUC 16TC control, equipped with live tooling, 20 h.p., 2.625" dia. thru spindle, parts catcher, 9" turning capacity, 1999 model.
- **Mori-Seiki, SL-250B, 500, CNC Lathe** with FANUC 18T control, 25 h.p., 2.625" dia. thru spindle, 12" dia. turning capacity, 1999 model.
- **Mori-Seiki, SL-250B, 500, CNC Lathe** with FANUC 18T control, 30 h.p., 2.625" dia. thru spindle, 12" dia. turning capacity, 1999 model.
- **Mori-Seiki, SL-25B, 500, CNC Lathe** with FANUC 16T control, 25 h.p., 2.500" dia. thru spindle, 12" dia. turning capacity, 1997 model.
- **Mori-Seiki, L2, 500, CNC Lathe** with FANUC 21T control, 25 h.p., 2.500" dia. thru spindle, 12" dia. turning capacity, 1997 model.
- **Mori-Seiki, CL-20A, CNC Lathe** with FANUC MF-T8 control, 15 h.p., 2.625" dia. thru spindle, 9" dia. turning capacity, 1995 model.
- **Mori-Seiki, SL-25B, 500, CNC Lathe** with FANUC 16T control, 25 h.p., 2.500" dia. thru spindle, 12" dia. turning capacity, 1996 model.
- **Mori-Seiki, AL-20, CNC Lathe** with FANUC OT control, 10 h.p., 1.375 dia. thru spindle, 6" dia. turning capacity, 1990 model.

15-20 inch Turning (4 machines)

- **DMG Mori, NLX4000/750, CNC Livetool Lathe** with CELOS control, 2,000 rpm spindle, 10,000 rpm livetools, 4.6" bar capacity, 23.6" turning capacity, 29.7" turn length, ChipBlaster high pressure coolant and mist collector system, auto door, 12 station turret, programmable tailstock, 40.2 h.p., 2019 model.
- **Mori Seiki, SL403C/800, CNC Lathe** with MSX-500 control, MAPPSS IV Interface, A2-15 spindle nose, 7.25" thru spindle, 24.4" dia. Turning capacity, high pressure coolant and mist collector system, auto door, 12-tool turret, 1500rpm 2spd 40 h.p., 2011 model.
- **Mori-Seiki, SL-403B/800, CNC Lathe** with MSX-501T control, 50 h.p., 4.625" dia. thru spindle, 24" dia. turning capacity, 12-tool turret, 2005 model.
- **Mori-Seiki, SL-400B, 900, CNC Lathe** with FANUC 16TC control, 50 h.p., 4.625" dia. thru spindle, 24" dia. turning capacity, 10-tool turret, 1999 model.



EQUIPMENT LIST

CNC MACHINING CENTERS

50-Taper HMC (11 machines)

- **DMG Mori NHX5500 2nd GENERATION RPS5, Horizontal Machining Center with 5 pallet pool**, CELOS control, 180-tool rack magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 12,000 rpm, 75 h.p., 2019 model.
- **DMG Mori NHX5500 2nd GENERATION RPS5, Horizontal Machining Center with 5 pallet pool**, CELOS control, 180-tool rack magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 12,000 rpm, 75 h.p., 2019 model.
- **DMG Mori NHX6300, Horizontal Machining Center**, CELOS control, 120-tool magazine, 24.8 X 24.8 working surface, 35.4 X 31.5 X 38.6 travels, 8,000 rpm, 50 h.p., 2015 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., 2012 model.
- **Mori-Seiki NH6300DCG/50, Horizontal Machining Center**, MSX-701 III, 180-tool magazine, 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 NH500DCG/50, Horizontal Machining Center**, MSX-701 III, 19.7 X 19.7 working surface, 28.7 X 28.7 X 33.5 travels, 8,000 rpm, 30 h.p., 2011 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.

50-Taper VMC (3 machines)

- **Mori-Seiki NV7000/50, Vertical Machining Center**, MSX-711 IV, MAPPS IV Interface, 66.9 X 29.9 table, 60.6 X 29.9 X 26.0 travels, 60-tool magazine, 10,000 rpm, OMP60 Renishaw probe, ChipBlaster EV-13DA and MistBlaster, 2011 model.
- **Mori-Seiki, MV55/50 Vertical Machining Center** with MSC-501 FANUC control, 35h.p., Shuttle Type Auto Pallet Changer, 22 X 22 X 40 travels, 55 X 20 table, X,Y,Z optical scales, Renishaw NC-1, 2 speed geared headstock, 60-tool magazine, 6000 rpm, ChipBlaster high pressure coolant system, 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-tool magazine, 6000 rpm, 22 X 22 X 40 travels, ChipBlaster high pressure coolant system, helical interpolation and synchronized tapping, 2000 model.

HSK-A63 HMC (4 machines)

- **DMG Mori NHX5000 3rd GENERATION, Horizontal Machining Center**, CELOS control, 180-tool rack magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 20,000 rpm, 50 h.p., 2022 model.
- **DMG Mori NHX5000 3rd GENERATION with 5 RPS, Horizontal Machining Center with 5 pallet pool**, CELOS control, 240-tool rack magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 20,000 rpm, 50 h.p., 2022 model.
- **DMG Mori NHX4000 3rd GENERATION, Horizontal Machining Center**, CELOS control, 120-tool chain magazine, 15.7 X 15.7 working surface, 28.7 X 28.7 X 34.6 travels, 20,000 rpm, 50 h.p., 2021 model.
- **DMG Mori NHX5000 3rd GENERATION, Horizontal Machining Center**, CELOS control, 120-tool chain magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 20,000 rpm, 50 h.p., 2021 model.

40-Taper HMC (1 machine)



EQUIPMENT LIST

- **DMG Mori NHX5000 3rd GENERATION, Horizontal Machining Center**, CELOS control, 180-tool rack magazine, 19.7 X 19.7 working surface, 31.5 X 31.5 X 34.6 travels, 20,000 rpm (CAT40 two-face contract), 50 h.p., 2021 model.

40-Taper VMC (9 machines)

- **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-tool magazine, 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-tool magazine, 2000 model.
- **Mori-Seiki, SV500/40 Vertical Machining Center** with MSC-501 MA FANUC control, 30 h.p., 20 X 20 X 31.5 travels, 10,000 rpm, 24-tool magazine, ChipBlaster high pressure coolant system, helical interpolation and synchronized tapping, 2000 model.
- **NTC-Toyama, CMC-VS4J, High Speed Machining Center** with dual 16 X 21 table Pallet Changer System, 14 X 16 X 20 travels, 12,000 rpm, 21-tool magazine, 10 h.p., ChipBlaster high pressure coolant system, 1999 model.
- **Mori-Seiki, SV50 CNC Vertical Machining Center**, FANUC 18M control, 20 X 20 X 31.5 travels, 10,000 rpm, 30 h.p., 20-tool magazine, ChipBlaster high pressure coolant system, 1997 model.
- **Mori-Seiki, MV40B CNC Vertical Machining Center**, FANUC 21M control, Renishaw Probe System, Renishaw Tool Setter, 16 X 20 X 30 travels, 8000 rpm, 10 h.p., 20-tool magazine, 1997 model.
- **OKK, VM5II, CNC Machining Center**, Seicos control, 20 h.p., geared headstock, 20-tool magazine, 40 X 20 X 26 travels, 8,000 rpm spindle, 1999 model.
- **OKK, VM5III, CNC Machining Center**, Seicos control, 20 h.p., geared headstock, 30-tool magazine, 40 X 20 X 26 travels, 10,000 rpm spindle, 2006 model.
- **OKK, VM7, CNC Machining Center**, Seicos control, 10 h.p., geared headstock, 20-tool magazine, 60 X 30 X 26 travels, 8000 rpm spindle, 1999 model.

32mm Collet Drill & Tap Centers (6 machines)

- **Brother, SPEEDIO R450X2, Compact Machining Center**, 23.6 X 11.8 table, 17.7 X 12.6 X 12 travels, 16,000 rpm, BT-30 Taper, 9.8 h.p., 22-tool magazine, 4th-axis rotary index table, robotic interface, 2021 model
- **Brother, TC-S2A-O, Drill-Tap Machining Center**, 15 X 32 table, 11 X 14 X 27 travels, 16,000 rpm, 14-tool magazine, 8 h.p., 2000 model.
- **Brother, TC-324, Drill-Tap Machining Center** with dual 16 X 20 table Pallet Changer System, 12 X 14 X 20 travels, 10,000 rpm, 14-tool magazine, 6.5 h.p., 1999 model.
- **Brother, TC-324, Drill-Tap Machining Center** with dual 16 X 20 table Pallet Changer System, 12 X 14 X 20 travels, 10,000 rpm, 14-tool magazine, 6.5 h.p., 1999 model.
- **Brother, TC-324, Drill-Tap Machining Center** with dual 16 X 20 table Pallet Changer System, 12 X 14 X 20 travels, 10,000 rpm, 14-tool magazine, 6.5 h.p., 1998 model.
- **Brother, TC-229, Drill-Tap Machining Center**, 11 X 14 X 19 travels, 10,000 rpm, 14-tool magazine, 6.5 h.p., 1998 model.

HSK-A63 Custom Drill (1 machine)

- **N.E.W. Industries designed HSK-A63 Shaft Drilling Machine**, Horner XL7 HMI control, Suhner CNC Drill head, 6" travel, Model VMAX40 CNC slide, 5hp, through spindle coolant, 2018 model.

ROBOTICS AND AUTOMATION

- **Fanuc LrMate 200-iD-7L six axis robot with vision**, Schunk 3-jaw gripper with 2 sets of gripper fingers, HMI, conveyor infeed system, 8" X 108" outfeed conveyor on Kitako-Shimada HS4200n Multi-Spindle Lathe
- **Fanuc M710iC/70 six axis robot with vision**, custom Schunk gripper and magnetic arm, HMI, conveyor system running 2 DMG Mori NLX 2500 lathes



EQUIPMENT LIST

- **Fanuc M710iC/70 six axis robot with vision**, custom Schunk gripper and magnetic arm, HMI, conveyor system running 2 DMG Mori NLX 2500 lathes
- **Fanuc M-20iB/35S six axis robot with vision**, Schunk 3-jaw gripper, HMI, infeed/outfeed conveyor system, multiple deburring stations
- **Fanuc LrMate 200-iD-7L six axis robot with vision**, Schunk gripper, HMI, conveyor infeed/outfeed system, on Brother SPEEDIO R450X2
- **Fanuc M710iC/70 six axis robot with vision**, custom Schunk gripper and magnetic arm, HMI, conveyor system running DMG Mori NHX5000 with custom fixturing
- **Fanuc M710iC/70 six axis robot with vision**, custom Schunk gripper and magnetic arm, HMI, conveyor system running DMG Mori NH6300DCG/50 with custom fixturing

WELDING EQUIPMENT (8 units)

- **Miller Electric PerformArc PA1100HW**, high output robotic welder with Panasonic TM-1600GIII robot, 2023 model.
- **Miller Electric PerformArc PA1100HW**, high output robotic welder with Panasonic TM-1600GIII robot, 2018 model.
- **Miller Electric XMT 350 MPA**, wirefeed MIG welder
- **Miller Electric Deltaweld 452**, wirefeed MIG welder
- **Miller Electric Syncrowave 350LX**, TIG welder
- **Lincoln Electric Square Wave TIG 255**, TIG welder
- **Lincoln Electric Power Wave 355M**, Stick, TIG, pulsed TIG, MIG, Pulsed MIG welder
- **Lincoln Electric Power Wave S350**, MIG welder
- **Profax Welding Positioner**
- **Taylor Winfield Spot Welder**, 150 K.V.A.

SUPPORT MACHINERY

- **Amada CM100CNC Production Cut Off Saw**, CNC control, Incline table, .600 - 4.000" capacity, 2015 model.
- **Amada CM100CNC Production Cut Off Saw**, CNC control, Incline table, .600 - 4.000" capacity, 2006 model.
- **Amada HA250 Production Cut Off Saw**, 10 X12 capacity, 1989 models.
- **Amada HFA400W Production Cut Off Saw**, programmable and automatic, 16 X 16 capacity, 1999 model.
- **Tsune TK200GL Automatic Circular Saw**, CNC control, incline magazine, 1.18 – 7.87" capacity, 29.5hp, 2022 model.
- **Clausing Colchester**, 17 X 80 Engine Lathe, taper attachment, Anilam Digital Readouts, 1989 model.
- **11- Clausing Drill Presses**, up to 22" capacity, with tapping attachments.
- **2-Roto-Finish Vibratory Finishing Machine**, 5 cu. ft. capacity, self-unloading.
- **Grob Band Saw**, Model 4V-18
- **Kalamazoo Cut-off Saw**, Model 13AW
- **Harig Surface Grinder**, Model 612
- **Torit Dust Collection System**, Model VS-550
- **Kent Mill**, KTM-5VKF-E, CNC Knee mill
- **Clausing Manual Knee Mill**, 4V5Q40 10" X 54"
- **Wells Index Mill**, Model 887
- **Bridgeport Mill**
- **Dainichi**, Techno Turn DM530, Fanuc 20i-T control
- **Standard Modern**, 28" Radial Drill Press
- **Thermolyne Furnace**, Model 3F1856
- **Roper Whitney Press Brake/Bender**, Model 412A.
- **Shear**
- **Precision Metal Works Production Spray Washer**, Model 812C High-Pressure, Multi-Stage, 2012
- **Precision Metal Works Production Spray Washer**, Model 612 High-Pressure, Multi-Stage, 2009
- **Custom Leak/Pressure Testers**
- **2-Blue M 600°F industrial ovens**
- **Despatch PBC2-12 500°F industrial oven**
- **Dake 50-ton hydraulic press**, model 909250



EQUIPMENT LIST

- **Trak Mill**, DPM3, CNC knee mill

INSPECTION EQUIPMENT

- **Mitutoyo Formtracer Avant FTA-H8C4000**, high-accuracy 2D contour measuring instrument with dual stylus system.
- **Keyence IM-8030T, Image Dimension Measurement System**, 300 X 200 mm table, 1" 20-megapixel monochrome CMOS sensor, 12.1" LCD monitor, wide stage model, programmable ring-illumination, contact height measurement unit
- **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 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 X 40 X 24, RDS w/ TP20 Rack, Calypso Software
- **Mitutoyo BRIGHT-M710 Coordinate Measuring Machine**, 28 x 40 x 24, MCOSMOS Software
- **Mitutoyo B706 Manual Coordinate Measuring Machine**, 28 X 24 X 18, Renishaw PH8TP2 Probe System, MCOSMOS Software
- **OGP 14" Optical comparator**, 10X & 20X magnification, 6" X 12" range, 55lb. capacity
- **Mitutoyo Optical Comparator**, Model PH14, 10X magnification, 8" x 4" 100lb. capacity, Quadra-Chek 200 readout with glass scales
- **Micro-Vue 14" Optical Comparator**, 16 bit micro process computer, .0001 resolution 10x thru 30x lens
- **2-Mitutoyo LSM-9506 Laser Scan Micrometers**, 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
- **Mitutoyo LSM-512S Laser Scan Micrometer**, measuring range from .04-4.72" with a resolution of .000005"
- **3-Edmunds Accu-Touch air gages**, various air plugs and master settings rings
- **3-Edmunds Accu-Setter air columns**, various air plugs and master settings rings
- **Edmunds EPIC-CAG air column**, various air plugs and master settings rings
- **Mitutoyo MeasurLink SPC**, real time data collection and statistical analysis
- **UniPoint Quality Management (QMS) software**, (NC, CPA, Doc Control, Tool & Equip Mgmt., Audit, Training, and Inspection modules)
- **Trimos and Fowler digital height Gages 0-48"**
- **Wilson Model 4 JR Rockwell hardness tester**, 1999 model
- **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
- **Multiple Mitutoyo Profilometers**, SJ201/ SJ 210's, and SJ401/ SJ410's, Reads Ra, Ry, Rz, Rq, Rt, Rp, Rmax (JIS/ISO or DIN)
- **Pocket Surf by Mahr/Federal Portable Profilometer**, Read RMS, RA, Rg, Rz, Ry
- **Sunnen Dial Bore Gauges 0-6.5"**
- **Bore Micrometers 0-12"**
- **Fowler Hole-matic Bore Micrometers**
- **O. D. Micrometers 0-24"**
- **O.D. Groove Micrometers 0-7"**
- **Dial and Electronic Calipers, 0-48"**
- **Centering calipers**
- **Intra-Mics From .800"-2.000" .002 increments**
- **Electronic Inside Diameter Bore Gage System**
- **Master Set Rings**
- **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