



TURNING EQUIPMENT

| ID | ID | # | Machines |
|----|------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 2 | HC Hardinge manual chuckers with accessories |
| | | 6 | Hardinge handscrews model DS-59 |
| F | | 1 | KINEFAC MC-4 Kine-Roller |
| K | 200 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 10T controls, 12 stations, 6000 RPM spindle, and tail stock |
| G | 201 | 1 | Mori Seiki SL-15 Lathe's, Fanuc OT controls, 12 stations, 6000 RPM, and tail stock |
| O | 202 | 1 | Mori Seiki SL-15 Lathe's, Fanuc OT controls, 12 stations, 6000 RPM, and tail stock |
| E | 203 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 10T controls, 12 stations, 6000 RPM spindle, and tail stock |
| I | 204 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 16T controls, 12 stations, 6000 RPM, and tail stock |
| Q | 205 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 16T controls, 12 stations, 6000 RPM, and tail stock |
| U | 206 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 16T controls, 12 stations, 6000 RPM, and tail stock |
| S | 207 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 16T controls, 12 stations, 6000 RPM, and tail stock |
| J | 208 | 1 | Mori Seiki SL-15 Lathe's, Fanuc 10T controls, 12 stations, 6000 RPM spindle, and tail stock |
| RR | 300 | 1 | Mori Seiki NLX 2500SY, Live Tool Lathe, 6 axis with auto barfeed |
| SS | 301 | 1 | Mori Seiki NLX 2500SY, Live Tool Lathe, 6 axis with auto barfeed |
| NN | 302 | 1 | Mori Seiki NL 2500, Live Tool Lathe, 6 axis with auto barfeed |
| QQ | 303 | 1 | Mori Seiki NLX 2500SY, Live Tool Lathe, 6 axis with auto barfeed |
| XX | 304 | 1 | Mori Seiki NLX 2500/700, Live Tool Lathe, 6 axis with auto barfeed |
| JJ | 305 | 1 | Mori Seiki NLX 2500SY/700, Live Tool Lathe, 6 axis with auto barfeed |
| | 306 | 1 | Mori Seiki NLX 2500SY/700, Live Tool Lathe, 6 axis with auto barfeed special tooling |
| | 307 | 1 | Mori Seiki NLX 2500SY/700, Live Tool Lathe, 6 axis with auto barfeed special tooling |
| H | 600 | 1 | Hardinge CHNC II, Fanuc 10 TF controls, 8 stations, and 4500 RPM spindle .0001 resolution |
| D | 601 | 1 | Hardinge CHNC III SP, Fanuc 18T control, 8 stations, and 4500 RPM spindle .0001 resolution with bar feeder |
| C | 602 | 1 | Hardinge CHNC II, Fanuc 10 TF controls, 8 stations, and 4500 RPM spindle .0001 resolution with bar feeder |
| M | 603 | 1 | Hardinge CHNC I, Fanuc OT control, 8 stations, and 4500 RPM spindle with bar feeder |
| | 1000 | 1 | DMG MORI NTX 2000, Fanuc 35iB Control, 12000 RPM Milling spindle X,Y,Z,B Axis, Twin spindle 2.625 Mac, Bar feeder, Lower Turret 10 station holder, Live tooling feed, 72 tool capacity milling head, etc. |

MILLING & DRILLING EQUIPMENT

| ID | ID | # | Machines |
|----|-----|---|----------------------------------------------------------------------------------|
| | | 3 | Bridgeport's mills Series 1 with digital readouts and accessories |
| | | 3 | 15" Drill presses |
| OO | 100 | 1 | Mori Seiki NV5000 Fanuc 31i Control 40x20x20 travel 14,000 RPM |
| PP | 101 | 1 | Mori Seiki NV5000 Fanuc 31i Control 40x20x20 travel 14,000 RPM |
| P | 102 | 1 | Matsuura MC-510VF, Yasnac I-80 controls, 22x16x18 travel, and 8000 RPM spindle |
| T | 103 | 1 | Matsuura MC-510VF, Yasnac I-80 controls, 22x16x18 travel, 8000 RPM spindle |
| II | 104 | 1 | Matsuura MC-510 VF, Yasnac I-80 controls, 22x16x18 travel, and 8000 RPM spindle |
| A | 105 | 1 | Mori Seiki Dura Vertical 5100, Fanuc Control, 41x21x21 travel, 12000 RPM spindle |

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| HH | 106 | 1 | Matsuura MC-660 |
| GG | 107 | 1 | Matsuura MC-660 |
| R | 108 | 1 | Matsuura MC-800VF, Yasnac I-80 controls, 32x18x19 travel, 8000 RPM spindle, and high pressure coolant thru spindle |
| X | 109 | 1 | Matsuura MC-800VF, Yasnac I-80 controls, 32x18x19 travel, and 8000 RPM spindle |
| DD | 110 | 1 | Matsuura MC-800VG, Yasnac J-300 controls, and 10000 RPM spindle PSI high pressure coolant thru spindle |
| FF | 111 | 1 | Matsuura MC-800VF, Yasnac I-80 controls, 32x18x19 travel, 8000 RPM |
| BB | 112 | 1 | Matsuura MC-800VF, Yasnac I-80 controls, and 8000 RPM spindle |
| EE | 113 | 1 | Matsuura MC-800VG, Yasnac J-300 controls, 32x20x19 travel, 10000 RPM spindle, and 1000 PSI high pressure coolant thru spindle |
| AA | 114 | 1 | Matsuura MC-510 VF, Yasnac I-80 controls, 22x16x18 travel, and 8000 RPM spindle PSI high pressure coolant thru spindle |
| L | 115 | 1 | Matsuura MC-600V, Yasnac MX-3 controls, and 22x16x18 travel |
| | 116 | 1 | Mori Seiki Dura Vertical 5100, with 4 th Axis, Fanuc Control, 41x21x21 travel, 12000 RPM spindle |
| | 117 | 1 | Mori Seiki Dura Vertical 5100, Fanuc Control, 41x21x21 travel, 12000 RPM spindle |
| | 118 | 1 | Mori Seiki Dura Vertical 5100, Fanuc Control, 41x21x21 travel, 12000 RPM spindle |
| | 119 | 1 | Mori Seiki CMX 1100V |
| TT | 400 | 1 | Mori Seiki NHX 5000 (5 Axis) |
| Z | 401 | 1 | Mori Seiki NHX 5000 Mitsubishi Controls, 5 axis, 40hp high torque spindle |
| | 402 | 1 | Mori Seiki NHX 5000 Mitsubishi Controls, 40hp high torque spindle |
| W | 500 | 1 | Matsuura MX-520 5-Axis Vertical machine, Fanuc 31i controls, 24.8x22.04x20.07 travel, 20,000 RPM spindle, high pressure coolant. |
| | 501 | 1 | DMG MORI DMU 60 FD DUO Block Seimens 840D Solutionline 5 Axis W/full turning capabilities |
| CC | 700 | 1 | Mori Seiki MV-65B, Yasnac I-80 controls, 60x27x26 travel, 6000 RPM spindle |
| Y | 701 | 1 | Mori Seiki MV-65B, Yasnac I-80 controls, 60x27x26 travel, 6000 RPM spindle, and high pressure coolant thru spindle |
| V | 702 | 1 | Mori Seiki MV-65A, Yasnac I-80 controls, 50x27x26 travel, 4500 RPM spindle |
| B | 800 | 1 | Matsuura MC-560V with 4th axis, Yasnac MX-3 controls, 22x16x18 travel, and 6000 RPM spindle |
| N | 801 | 1 | Matsuura MC-800V with 4th axis, Yasnac MX-3 controls, 32x19x19 travel, and 6000 RPM spindle |

SWISS EQUIPMENT

| ID | ID | # | Machines |
|-----|-----|---|------------------------------------------------------|
| W W | 900 | 1 | CITIZEN A32-2M7P |
| UU | 901 | 1 | CITIZEN L20X 9 Axis with auto barfeed |
| | 902 | 1 | CITIZEN L-12 with CITIZEN CAV12-LE-IS Bar Feeder |
| MM | 903 | 1 | Star SR20, Swiss, 7 axis with auto barfeed |
| LL | 904 | 1 | Tsugami SS20, Swiss, 8 axis with auto barfeed |
| | 905 | 1 | CITIZEN L-12 with CITIZEN CAV12-LE-IS Bar Feeder |
| | 906 | 1 | CITIZEN L-12 with CITIZEN CAV12-LE-IS Bar Feeder |
| | 907 | 1 | CITIZEN L32-1M12 with CITIZEN CAV12-LE-IS Bar Feeder |
| | 908 | 1 | CITIZEN L12-1M7 with CITIZEN CAV12-LE-IS Bar Feeder |
| | 909 | 1 | CITIZEN L12-1M7 with CITIZEN CAV12-LE-IS Bar Feeder |
| | 910 | 1 | CITIZEN L12-1M7 with CITIZEN CAV12-LE-IS Bar Feeder |

MISCELLANEOUS EQUIPMENT

| ID | # | Machines |
|----|---|------------------------------------------------------|
| | 1 | Behringer 313 Band Saw |
| | | Grinders and Sanders |
| | 1 | Tumbler MFI Model HZ-40 |
| | 1 | Raytech Centrifugal Magnetic Finisher Model CMF-1200 |
| | 2 | Sandblaster TRIONCO Model 36/BP |
| | 2 | AUTOCRIB Robocrib VX500 |
| | 1 | Clark PWX40 8000 lb. Battery powered pallet jack |
| | 1 | Toyota 6000 LB Fork lift with barrel attachment |
| | 1 | Aichi SV1930C Lift |
| | 1 | Universal Robot UR-3 |
| | 1 | Zoller Venturion 450/6 Pre-setter |
| | 1 | Pregis Intellipack Bagger (foam packer for shipping) |
| | 1 | Spanco Moveable Crane 250 lbs. |
| | 2 | Tennant Floor Burnisher |
| | 1 | Tennant Floor Sweeper 6100 |
| | 2 | Floor Scrubber TENNANT 5280 and T5 |

BUILDING

| ID | # | Machines |
|----|---|----------------------------------------------------------------------------------|
| | 1 | 77,000 square foot building |
| | 1 | 75 HP screw compressor Atlas Copco Model GA55 VSD |
| | 1 | 50 HP screw compressor Atlas Copco Model GA37 VSD (Back-up) |
| | 1 | 50 HP screw compressor Atlas Copco Model GA 37 (Back-up) |
| | 1 | 20 HP screw compressor Atlas Copco Model GA 15VSD+ |
| | 1 | Air dryer and Air filters Atlas Copco Model FD410 with Atlas Copco PD 120 filter |
| | | Water filters on water supply and DI water |
| | 2 | 10 HP vacuum pump system TRAVAINI model EVL100-M |
| | 2 | 10 HP vacuum pump system Atlas Copco GV 150 |
| | 1 | DESPATCH Annealing Oven MRC 5000 series |
| | 1 | LANDA Evaporator |
| | 1 | Cleanroom Clean Line 164-S |
| | 1 | Coffing Overhead Hoists 10,000 lbs. Serial # 47009 |
| | 1 | Coffing Overhead Hoists 2,000 lbs. Serial # 46768 |
| | 1 | Coffing Overhead Hoists 2,000 lbs. Serial # 47184 |

INSPECTION

| ID | # | Machines |
|----|---|------------------------------------------------------------------|
| | 1 | HEXAGON METROLOGY OPTIV SCAN 442 CMM |
| | 1 | Mitutoyo B605B CMM with touch probe |
| | 1 | Brown and Sharpe Image 7107 CMM |
| | 1 | TESA Microhite 474 Manual CMM |
| | 1 | Mitutoyo Crysta-plus M574 Manual CMM |
| | 2 | Deltronic Optical Comparator |
| | 1 | ST Industries 2450 Optical Comparator |
| | 1 | Keyence IM-6225 |
| | 1 | Surfcom 120A Surface Roughness Analyzer |
| | 3 | Tool Makers Scopes |
| | | Micrometers |
| | | Granite surface plates & height masters |
| | | Bore gages, Thread gages, Pin sets, Microscopes, and accessories |
| | | Misc. Inspection Hand Tools |
| | 2 | Marposs |
| | 2 | Sunnen gage |

EMPLOYEES

99 Employees (as of June 2018)

CERTIFICATIONS

ISO Certified 9001:2015
 ISO Certified 13485: 2016
 ISO AS9100:D (2016)
 ISO 6/Class 1000 Cleanroom