



## PRECISE TURNING & MANUFACTURING CO.

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## FACILITIES LIST 2014

### TURNING:

**KIA SKT 21B CNC TURNING CENTER 13 ¾" X 16" 2 ½" THRU BORE**  
LNS BAR FEEDER / PROGRAMABLE TAILSTOCK / TURBO CHIP CONVEYOR /  
PARTS CATCHER / 10" CHUCK / 16C COLLET

**CLAUSING STORM 80 CNC TURNING CENTER**  
6000 RPM/ 6" CHUCK/ 16C + 5C COLLET SYSTEM  
VDI TOOLING/ PROGRAMABLE TAILSTOCK

**PROTO-TRAC: TRAK TRL 1840 CSS 18" X 40" 2 ⅜" THRU BORE**  
10" ADJUST-TRU CHUCK / 5C COLLET CLOSER / DAREX TOOL INDEXER /  
ALORIS TOOL POST

### MILLING:

**HAAS VF-2 VMC NEW 1998 / 16" X 30"**  
20 TOOL ATC / 4<sup>TH</sup> AXIS / 7500RPM / RIDGED TAPPING CHIP CONVEYOR /  
PROGRAMABLE COOLANT / COORDINATE ROTATION & SCALING /  
MACROS

**HAAS VF-4 VMC NEW 2001 / 20" X 50"**  
25 TOOL ATC / 4<sup>TH</sup> AXIS / 7500 RPM / RIDGED TAPPING CHIP CONVEYOR  
/ PROGRAMABLE COOLANT / COORDINATE ROTATION & SCALING /  
MACROS

**BRIDGEPORT 9" X 48" (2 OF THESE MACHINES)**  
PROTO-TRAK A.G.E. 2 CNC X AND Y CONTROL WITH Z READOUT /  
TAPPING HEAD / QUICK CHANGE TOOLS / RIGHT ANGLE HEAD / 8"  
WALTERS ROTANGLE / SUPER SPACER-INDEXER / 5C QUICK CHANGE  
COLLET HOLDER  
4, 6 & 8" KURT VICES

**MAZAK H400N 7APC CNC HORIZONTAL MACHINING CENTER**

MAZATROL M-32 CONVERSATIONAL CNC CONTROL  
20" CUBE MACHINING CAPACITY  
120 TOOL AUTOMATIC TOOL CHANGER  
RIGID TAPPING (SYNCHRONOUS / SOLID TAPPING)  
10,000-RPM COOLANT THROUGH THE SPINDLE,  
7 PALLET AUTO STOCKER SYSTEM, RENISHAW PROBING  
GLASS SCALES HIGH ACCURACY PACKAGE ON X, Y & Z  
FULL FOURTH AXIS HIGH TORQUE PACKAGE ON B-AXIS  
EXTRA MEMORY, DNC PACKAGE,  
TOOL LIFE MANAGEMENT, TOOL BREAKAGE DETECTION  
TOOL LENGTH MEASUREMENT, TOOL LIFE MONITORING

**4<sup>TH</sup> AXIS TOOLING**

**HAAS HA5C INDEXER** 5C COLLET / 4" CHUCK  
**HAAS HRT 210** 8" ROTARY TABLE  
**HAAS HRT A6** UNIVERSAL ROTARY / 5C&16C  
COLLET W/A6-AC PNUMATIC DRAW BAR /  
8" ADJUST-TRU CHUCK / 8" FACE PLATE

**GUNDRILLING:**

ELDORADO MEGA M75  
3/4" X 18" DEEP, SINGLE SPINDLE, BALL SCREW,  
HIGH PRESSURE COOLANT

**OD GRINDING:**

**CHEVALIER: GU1424 ID/OD GRINDER 14" X 24"**

FULLY EQUIPPED FOR ID + OD GRINDING/ SONY DRO  
6 JAW CHUCK, MAG CHUCK, FACE PLATES, STEADY REST, AUTO COOLANT  
FILTRATION

**MIPSA UNIVERSAL GRINDER 10" X 30"**

FULLY EQUIPPED FOR O.D. GRINDING / COLLETS / CHUCK

**EXCELLO CENTER LAP**

**SURFACE GRINDING:**

**CHEVALIER FSD 818 AD 3 AXIS AUTOMATIC 8" X 18"**

.00005 MICRO FEEDS / 8 X 18 VARIABLE ELECTRO-MAG CHUCK/ FLOOD COOLANT

**HARIG SUPER 6" X 12" TOOL ROOM SURFACE GRINDER**

EQUIPPED WITH: SPIN GRIND FIXTURE / UNIVERSAL GRIND FIXTURE / VICES / ANGLE IRONS

**CUTOFF SAWS:**

W.F. WELLS MODEL W-9 CUT-OFF SAW, 9" DIAMETER CAPACITY

**MISCELLANEOUS:**

CLAUSING 4 HEAD DRILL PRESS, DRILL PRESS VISE, ANGLE VISE

DURACRAFT ½" DRILL PRESS, DRILL PRESS VISE, ANGLE VISE

NUMBER 3 ARBOR PRESS

1" & 6" BELTSANDERS / 9" DISC SANDER

ASSORTED DEBURRING AND POLISHING EQUIPMENT / PEDESTAL GRINDERS

PART MARKING SYSTEMS

VIBRO-MARKER  
MISCELLANEOUS SIZE STAMPS

**INSPECTION EQUIPMENT:**

**CMM:**

**BROWN& SHARPE GAGE 2000 NEW 2000**

**J&L COMPARATOR MODEL BC/7**

**J&L COMPARATOR 14"**

**STARRETT CRYSTAL PINK SURFACE PLATE 48" X 48"  
INSPECTION GRADE A**

**GRANITE SURFACE PLATE 36" X 36" INSPECTION GRADE A**

**GRANITE SURFACE PLATES 12" X 18" INSPECTION GRADE A (2)**

**GRANITE SURFACE PLATE 24" X 36" INSPECTION GRADE A (2)**

**GRANITE SURFACE PLATE 18" X 24" INSPECTION GRADE A**

**CAST IRON SURFACE PLATE 12" X 18"**

**BROWN & SHARPE 12" HITE-ICATOR HEIGHT MASTER (2)**

**MITUTOYO 24" DIGITAL HIGHT STAND**

**FEDERAL SURFACE GAGES (3)**

**4" CYLINDRICAL SQUARE**

**3 BENCH CENTERS FOR INSPECTION:**

BROWN & SHARPE 8" DIAMETER X 36" LONG

SUNSTRAND 9" DIAMETER X 48" LONG

**4 SETS 80 PIECE GAGE BLOCKS**

**P&W .010-.090 SIZE BLOCK SET**

**ANGLE BLOCK SET**

**STARRETT 0"-9" DEPTH MICROMETER SETS (2)**

**STARRETT 0"-3" DEPTH MICROMETER SET**

**0"-12" DIAL VERNIER CALIPER**

**14" VERNIER CALIPER**

**24" VERNIER CALIPERS (2)**

**36" STARRETT VERNIER CALIPERS**

**MITUTOYO 0-4" OD DIGITAL MICS WITH STANDARDS**

**YUASA 0"-12" MICROMETER SET WITH STANDARDS**

**STARRETT 12"-18" OD MIC SET WITH CALIBRATION STANDARDS**

**0"-1" THREAD MICROMETER SET WITH FULL SET OF ANVILS**

**1"-2" THREAD MICROMETER SET WITH FULL SET OF ANVILS**

**0"-1" FOWLER INDICATOR MASTER MICS .0001 (3)**

**0"-1" GROOVE MICROMETER**

**1"-2" GROOVE MICROMETER**

**2"-3" GROOVE MICROMETER**

**STARRETT 2"-12" INSIDE MICROMETER SETS (2)**

**INDI-CAL UNIVERSAL BORE & GROOVE GAGE WITH .001 DIAL INDICATORS**

**SPI INTEREST BORE AND GROOVE GAGE .4-1.2 CAPACITY, .0005 GRADUATIONS**

**.7"-1.4" DIAL BORE GAGES (SUNNEN & MITUTOYO)**

**1.4"-2.5" DIAL BORE GAGES (2) (SUNNEN & MITUTOYO)**

**2"-6" DIAL BORE GAGES (SUNNEN & MITUTOYO)**

**SUNNEN SETTING FIXTURES**

**DIAL INDICATORS – MANY DIFFERENT STYLES AND TYPES TO .00005 GRADUATIONS**

**PROTRACTORS (2)**

**STARRET RADIUS GAGE SET 1/64"- 1/2"**

**FOWLER SURFACE ROUGHNESS STANDARD**

**PLUG GAGES (.011"-1.000" TOTAL SPAN)**

**ASSORTED SIZE V BLOCKS**

**ASSORTED SIZE ANGLE IRONS**

**ASSORTED THREAD GAGES**

**3" SINE VISE**

**5" SINE PLATE**

**10" SINE PLATE**

**5" SINE BAR**

**MAG BLOCKS**

**MAG VEE BLOCKS**

**MISC MAG PARALLELS**

**SPINNERS –5C COLLET TYPE AND CENTERS TYPE**

**BAUSH & LOMB MICROSCOPE**

**NUMEROUS HAND TOOLS AND GAGES**

**SOFTWARE:**

**SOLIDWORKS 2008**

CAD

**CAMWORKS 2013**

CAD-CAM TURNING, & MILLING

**MICRO ESTIMATING SYSTEMS**

MACHINE SHOP ESTIMATING SOFTWARE

**FAST CABLE INTERNET CONNECTION**

FOR QUICK QUOTE TURN AROUND, E-MAIL YOUR DRAWINGS

THE FOLLOWING FORMATS ARE SUPPORTED;

*.DXF, .DWG, .STEP, .X\_T, .X\_B, .PRT, .IPT,*

*.ASM, .XPR, .XAS, .SLDPRT, .IGS, .STL.*

TO: *[gary@preciseturning.com](mailto:gary@preciseturning.com)*

**SHOP CONTROL**

*M1* BY BOWEN & GROVES

SHOP FLOOR CONTROL

FINANCIAL MANAGEMENT

**SUPPORT SERVICES AVAILABLE**

HEAT TREATING

PLATING

PAINTING

WELDING

EDM

WATER-JET CUTTING

LASER CUTTING & MARKING

SHEET METAL

NON-DISTRUCSIVE TESTING