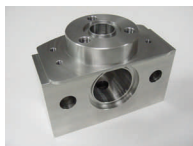
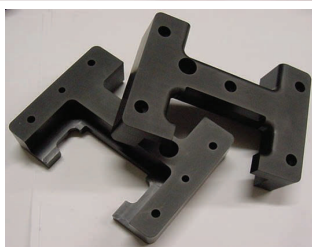
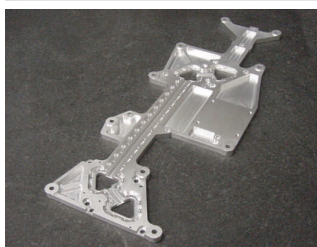
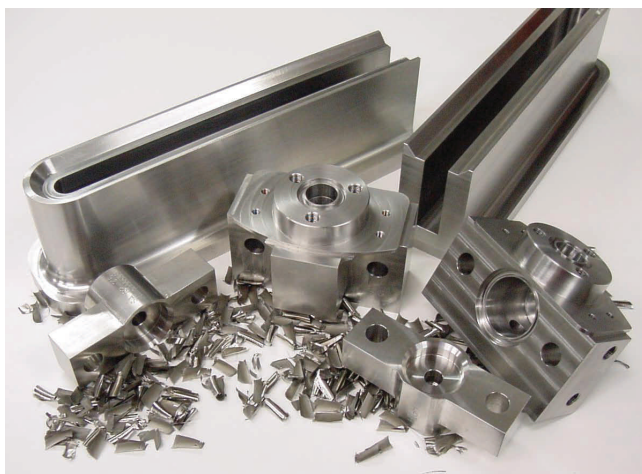


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Sam Roberts - President

s.roberts@3d-machine.com

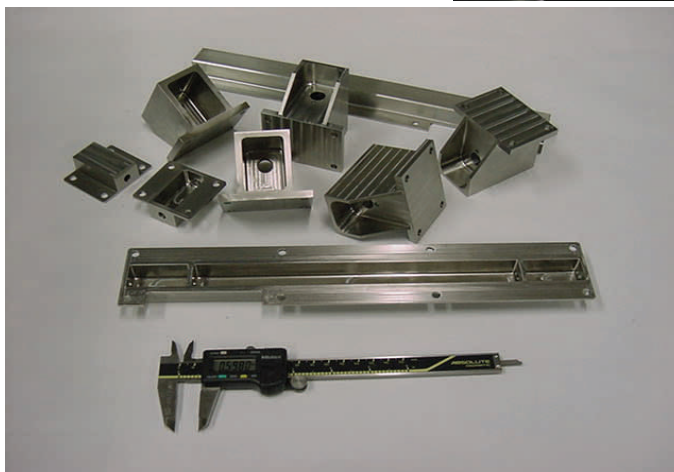
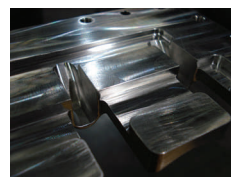
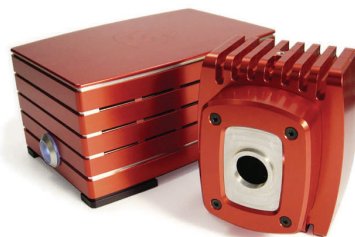
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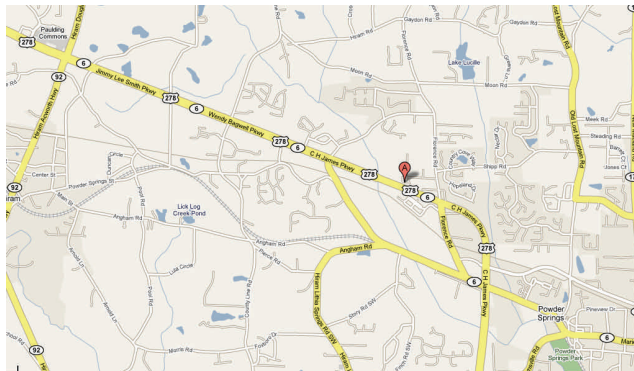
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Machine list

LATHES

- (1) DOOSAN 670L LATHE 26.3" X 70.87" 4.06 BORE PROGRAMMABLE TAIL STOCK.
- (1) HAAS SL20 CNC LATHE 10" X 20" 2.062" BORE WITH BAR FEEDER & PARTS CATCHER. PROGRAMMABLE TAIL STOCK. 4000-RPM SPINDLE.
- (1) MORI SEIKI SL20 2 AXIS CNC LATHE
- (1) OKUMA HOWA ACT4 2 AXIS CNC LATHE
- (1) ENGINE LATHE 20" X 80"
- (1) ENGINE LATHE 26" X 120"

HORIZONTAL MILLS

- (1) KBN135 BORING MILL

TABLE SIZE mm (in)	2,000 X 1,800 (78.7 X 70.9)
MAX LOAD ON PALLET kg (lb)	10,000 (22,046)
TRAVEL (X/Y/Z) mm (in)	3,000 X 2,000 X 1,600 (118.1 X 78.7 X 63)
RAPID TRAVERSE (X/Y/Z) m/min (ipm)	8 / 8 / 8 (315 / 315 / 315)
TAPER NT	#50
SPINDLE SPEED	2,000
SPINDLE POWER kW (HP)	22/18.5(30/25)
TOOL CAPACITY EA	40
CONTROLLER	FANUC 16iM

- (1) MAZAK HORIZONTAL MACHINING CENTER MODEL H-630

6 PALLETS - Pallet size - 24.7" X 24.7"
X-Axis Travel - 39.4"
Y-Axis Travel - 31.5"
Z-Axis Travel - 29.5"
Number of tools in ATC - 120
Spindle Taper - CAT #50
Spindle Speeds - 4500 RPM
Spindle Motor - 20/30 HP
Table Load Capacity - 2460 Lbs
Table Indexing - 1 Degree
Rapids Traverse (X,Y,Z) - 787 ipm

VERTICAL MILLS

- (1) HAAS VF-8 CNC VERTICAL MILLING CENTER 64"X40"X30" : 10,000-RPM 30HP SPINDLE & PROGRAMMABLE & THRU THE SPINDLE COOLANT.
- (1) HAAS VF-3 20" X 40" X 25" CNC VERTICAL MILLING CENTER: 7500-RPM 20HP SPIN DLE & PROGRAMMABLE COOLANT.
- (1) HAAS VF-0 20" X 16" X 20" CNC VERTICAL MILLING CENTER: 15,000-RPM 20HP SPINDLE & PROGRAMMABLE COOLANT.
- (1) HAAS VF-2SS 30"X16"X20" CNC VERTICAL MILLING CENTER: 12,000-RPM 30HP SPINDLE, GLASS SCALES, & PROGRAMMABLE COOLANT.
- (1) HAAS VF-3SSYT 40"X26"X25" CNC VERTICAL MILLING CENTER: 12,000-RPM 30HP SPINDLE, GLASS SCALES, & PROGRAMMABLE COOLANT.
- (1) BRIDGEPORT MILL WITH ROTARY TABLES

4TH AXIS ROTARY TABLES (SIMULTANEOUS)

- (1) HA5CS-CNCB ROTARY 4TH AXIS SUPER HIGH SPEED 725 DEG/SEC SERVO INDEXER W/MANUAL COLLET CLOSER. FOR SMALL PARTSM ACHINING, HIGH-SPEED DRILL & TAP OPERATIONS OR REPETITIVE PARTS WHERE FAST CYCLE TIMES ARE IMPORTANT.
- (1) HAAS HRT 160 ROTARY 4TH AXIS
- (1) HAAS HRT 210 ROTARY 4TH AXIS
- (1) HAAS HRT 210SHS-CNC-HD 210 ROTARY 4TH AXIS DETAILS: 210 MM (8.27") SERVO ROTARY TABLE W/SUPER-HIGH-SPEED 360 DEG/SEC INDEXING. NEARLY SIX TIMES FASTER THAN THE STANDARD HRT 210, THE 210SHS GREATLY INCREASES PRODUCTIVITY WITH RAPIDS TO 360 DEG/SEC AND FEED RATES TO 270 DEG/SEC.

Machine list continued

5TH AXIS ROTARY TABLE (SIMULTANEOUS)

- (1) TRT160

SAWS

- (1) S-20A Series III

60 degree One-way Miter Capability
1" x 14'10" blade
17¾" Heavy Duty Cast Band Wheels
3 Hp Direct Drive Motor with A/C Inverter offering Variable Band Speed from 45-330 SFM
Cast Iron Guide Arms. Adjustable Idler Guide Arm, supported by Linear Bearings
Safety Door Interlocks
Heavy Duty Vise with Quick Locking Lever System
Pre-Set Carbide Guide Inserts (no adjustment needed)
Manual Blade Tension with LED Display on Control Panel
Blade Breakage Switch
Ergonomically positioned "Swing Away" Control Panel
Flood Coolant System and Wash Down Hose
- (2) AUTOMATIC HORIZONTAL BAND SAW
- (1) ROLLIN VERTICAL BAND SAW

FABRICATION

- (1) Weld Lathe, PLC controlled
- (1) Syncrowave® 250 DX

Stick (SMAW)
TIG (GTAW)
- (1) MILLERMATIC 250 WIRE WELDER (MILLER)
- (1) MANUAL BENDING MACHINE

INSPECTION ROOM

- (1) 18" X 24" SURFACE PLATE
- (1) 24" HEIGHT GAUGE
- (1) 9" DIGITAL CALIPER
- (4) 6" DIGITAL CALIPERS
- (1) 24" DIGITAL CALIPERS
- (1) SET GAUGE BLOCKS
- (1) SET GAUGE PINS UP TO 1.000 DIA.
- (2) DIAL BORE GAUGES (.0001" INCREMENTS)
- (1) SET OF MITUTOYO INDIVIDUAL MICROMETERS 0-12" WITH STANDARDS (.0001")
- (1) STARRET 0-9" DEPTH MICROMETERS
- (2) SET OF TELESCOPING GAUGES
- (1) BROWN & SHARP 14" OPTICAL COMPARATOR

MISCELLANEOUS

- DRILL PRESSES
- SURFACE GRINDER
- BENCH GRINDERS
- BELT SANDER
- ANGLE PLATES