

Tridecs

C O R P O R A T I O N
Prototype & Production Machining

MANUFACTURING EQUIPMENT SCHEDULE

Version 12.4

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CNC MILLING

		<u>x</u>	<u>y</u>	<u>z</u>
3ea.	Fadal VMC-4020HT; 10,000 R.P.M. Spindle	40"	20"	20"
2ea.	Fadal VMC-6030HT; 10,000 R.P.M. Spindle	60"	30"	30"
1ea.	Fadal VMC-15/15XT; 7,500 R.P.M. Spindle	30"	16"	20"
1ea.	Kitamura Mycenter-1; 10,000 R.P.M. Spindle	18"	12"	16"
1ea.	Kitamura Mycenter-4; 10,000 R.P.M. Spindle	36"	20"	22"
1ea.	Kitamura Mycenter-3x; 10,000 R.P.M. Spindle	30"	18"	18"
1ea.	HURCO VMX 24 10,000 R.P.M. Spindle	24"	20"	24"
1ea.	HURCO VMX 42 10,000 R.P.M. Spindle	42"	24"	24"



SUPPORT EQUIPMENT:

- 3ea. Mastercam Programming Systems,
- 1ea. Yuasa 8" Indexer
- 1ea. Yuasa 12" Indexer
- 2ea. Fadal VH65, 8" Rotary Table, 4th Axis



MANUAL MILLING

- 3ea. Bridgeport Mill; 9"x42" table, with Power Feed & DRO
- 3ea. ATRUMP Mill; 9"x48" table, with Power Feed & DRO
- 3ea. Alliant Mill; 9"x42" table, with Power Feed & DRO
- 1ea. Sharp Mill; 9"x42" table, with Power Feed & DRO

(ALL MILLS INDIVIDUALLY TOOLED WITH VICE, COLLETS,
DRILL CHUCKS AND CLAMP SETS)

SUPPORT EQUIPMENT:

- 1ea. 12" horizontal rotary table.
- 1ea. 10" horizontal rotary table.
- 1ea. 6" horizontal rotary table.
- 1ea. 10" horizontal/vertical rotary table.
- 1ea. 8" index table.
- 1ea. 6-1/2" index table.
- 1ea. 4" dividing head.
- 1ea. Volstro rotary milling head.
- 1ea. Horizontal milling attachment.
- 1ea. 8" Bridgeport riser.
- 2ea. Large right angle heads.
- 1ea. Small right angle head.
- 2ea. 3" Bridgeport boring heads.
- 2ea. 2" Criterion boring heads.
- 1ea. 1-1/2" Criterion boring head.
- 1ea. 3" Criterion boring/facing head.



CNC TURNING

- 1ea. Daewoo 10HC; 3.07" dia. Bar Capacity, 15" work length,
5000 R.P.M spindle, 10" chuck, 19.7" swing
Positioning Accuracy: X Axis .00002 Y Axis .0001"



- 2ea. Miyano JNC-45; 1-3/4" dia. Bar capacity, 18-1/2" work length,
4000 R.P.M. spindle, 8" chuck, 18-1/2" swing.
Positioning accuracy: X Axis .00005" Z Axis .0001"

- 1ea. Miyano BNC-34C; 1-1/4" dia. Bar capacity, 9" work length,
5000 R.P.M. spindle, 6" chuck with 3" max turning dia.
Positioning Accuracy: X Axis .00005" Z Axis .0001"

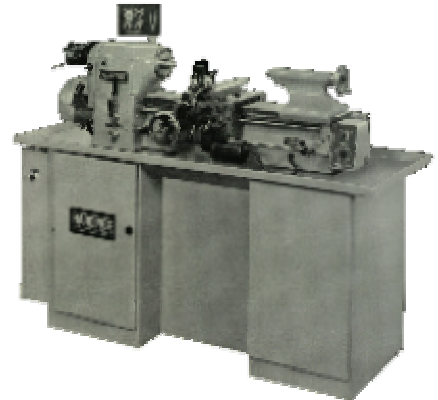
- 1ea. Miyano BNC-34T; 1-1/4" dia. Bar Capacity, 9" work length,
5000 R.P.M. spindle, 6" chuck with 3" turning dia.
Positioning Accuracy: X Axis .00005" Y Axis .0001"



MANUAL TURNING

- 1ea. Hardinge tool room lathe.
- 1ea. Colchester 13" lathe, 40" between centers.
- 1ea. Colchester 15" gap lathe with taper attachment, 48" bet.center
- 1ea. Moriseiki 19" lathe, 34" between centers

(All lathes equipped with steady rests, 3-jaw chucks, 4-jaw chucks, 5c collet attachments, travel dials and face plates.)



SUPPORT EQUIPMENT:

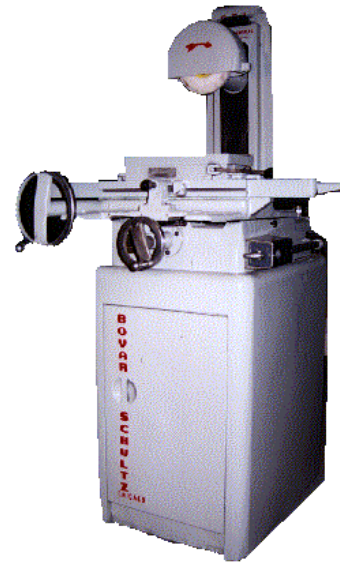
- 1ea. Dumore tool post grinder.

GRINDING EQUIPMENT

- 1ea. Boyar Schultz 6-12 hand feed.
- 1ea. Boyar Schultz 2A-618 hydraulic
W/water cooling and .0001" down feed
- 3ea. Pedestal grinders.

SUPPORT EQUIPMENT:

- 2ea. Index/spinning fixtures.
- 1ea. Sine table.
- 2ea. Precision grinding vices.
- 1ea. Cutter grinder.
- 1ea. Radii/angle dresser.

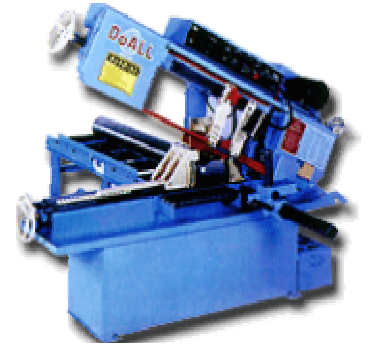


SHEET METAL EQUIPMENT

- 1ea. Wysong Hydraulic Squaring Shear,
H52; 4' of 16
- 1ea. 5 ton punch press
- 1ea. Rotex model # 18 AK hole punch.
- 1ea. Di-Acro notcher, 16 Ga. Capacity.
- 1ea. Di-Acro brake, 16 Ga. Capacity.
- 1ea. Di-Acro punch.

SAWS

- 1ea. Doall C916A Band Saw: programmable, 10"
- 1ea. Grob brothers model # NS14, 14" vertical band saw.
- 1ea. Rockwell model # 28-380 vertical band saw.
- 1ea. Pehaka horizontal band saw.



MISCELLANEOUS EQUIPMENT

- 1ea. Miller model 330ST aircofter welder.
- 1ea. Miller model 200 Constant Arc welder
- 1ea. Complete Oxy-Acetylene outfit.
- 1ea. 8" x 6" x 10" heat treat oven.
- 3ea. Drill presses, floor models.
- 1ea. 3 ton bench press.
- 1ea. 40 ton hydraulic press.
- 2ea. Belt sanders.



INSPECTION EQUIPMENT

- 1ea. Cordax 1810 CMM
W/3D Workshop; version .1.0.1.5
- 1ea. Brown and Sharpe Micro-Hite 600
- 1ea. 36"X 48" surface plate.
- 2ea. 24"X 36" surface plates.
- 3ea. 12"X 18" surface plates.
- 3ea. Mitutoyo electronic indicators.
- 3ea. Height masters 12" /24" limits.
- 1ea. Sheffield Precisionaire air gage.
- 1ea. Federal air gage.
- 1ea. Set gage pins .010" to 1.000".
- 1ea. Jones & Lamson model # PC-14A optical comparator.
- 1ea. Jones & Lamson model # TC-10 optical comparator.
- 1ea. Scherr Tumico 14" optical comparator.
- 1ea. MicroVu 10" optical comparator.
- 1ea. Granite angle block.
- 1ea. Rockwell hardness tester.
- 1ea. Mitutoyo surfest-401.
- 2ea. Bench centers.
- 1ea. Browne & Sharpe toolmakers microscope.
- 1ea. Bausch & Lomb Microscope 7x - 3x



ENGINEERING SUPPORT SYSTEMS

PROGRAMMING AREA COMPUTERS:

The programming areas and Engineering support staff are all provided state-of-the-art computer equipment and software. Operating support software consists of:

Mastercam ®

2ea. Mill & Lathe - V7

1ea. Mill -V7

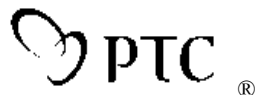
1ea. Lathe - V7

autodesk ®

2ea. AutoCad ®2004

1ea.Mechanical Desk Top - Version 2004

1ea. Inventor - R8



1 ea. Pro/ENGINEER ® Wildfire