

Tridecs

C O R P O R A T I O N

Prototype & Production Machining

MANUFACTURING EQUIPMENT SCHEDULE

Version 15.3

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CNC MILLING

		x y z	
1ea.	HURCO VMX42i; 12,000 R.P.M. Spindle	42"x24"x24" travel	
3ea.	HURCO VMX 24 10,000 R.P.M. Spindle	24"x20"x24" travel	
2ea.	HURCO VMX 42 10,000 R.P.M. Spindle	42"x24"x24" travel	
1 ea.	HURCO VM 1 10,000 R.P.M. Spindle	26"x16"x20" travel	
6 ea.	YCM XV-1020A 10,000 R.P.M. Spindle	40"x20"x21" travel	
1ea.	Hyundai-Kia HS400i Horizontal Machining Center 12,000 R.P.M. Spindle	24"x22"x26" travel	

- 4ea. Makino a51nx 22" x 25.2" x 25.2" travel
Horizontal Machining Center
14,000 R.P.M. Spindle



- 1ea. YCM NFX400: 150° (+30°/-120°) A-axis tilt
Ø13.8" table. Max Workpiece: Ø15.8"x12.2"
5-Axis Machining Center
12,000 R.P.M. Spindle



SUPPORT EQUIPMENT:

- 5ea. Mastercam Work Stations
1ea. Yuasa 8" Indexer
3ea. Detron DEX RD200R: 8.25" 4th Axis
1ea. Yuasa 12" Indexer
2ea. Fadal VH65, 8" Rotary Table, 4th Axis
1ea. Kitagawa TecNara 4th Axis
1ea. HURCO 4th Axis



MANUAL MILLING

- 1ea. Bridgeport Mill; 9"x42" table, with Power Feed & DRO
- 1ea. Alliant Mill; 9"x42" table, with Power Feed & DRO
- 1ea. Sharp Mill; 9"x42" table, with Power Feed & DRO
- 1ea. Alliant Mill; 9"x48" table, with Power Feed & DRO
Equipped with Proto Trak SMX

(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 Z Axis .0001"



- 1 ea. Hyundai-Kia 21LM 2.56" Bar capacity, 20.9" work length,
4000 R.P.M. spindle, 8" chuck, 21.7" swing.
Positioning Accuracy: X Axis .00005" Z Axis .0001"
C Axis (Live Tooling)



- 1 ea Hyundai HD220Y: 2.6" Bar capacity, 25.6" work length,
4000RPM spindle, 11.8" work diameter, 8.5/26.8/4.3"
(X/Z/Y Travel).



- 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" Z Axis .0001"



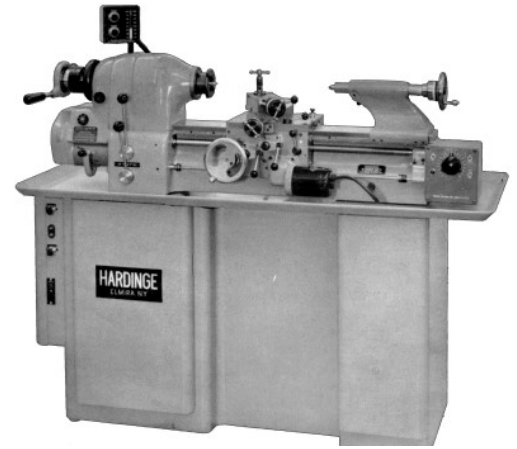
MANUAL TURNING

- 1ea. Hardinge tool room lathe.
- 1ea. Colchester 15" gap lathe with taper attachment, 48" 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.

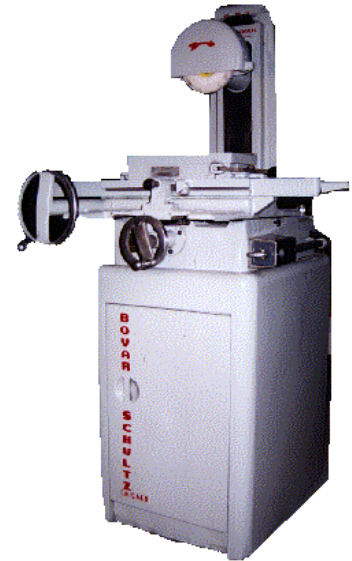


GRINDING EQUIPMENT

- 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.



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.



MISCELLANEOUS EQUIPMENT

- 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.
- 1ea. Trinco bead blasting cabinet
- 2ea. Rotary Tumbler
- 1ea. Di-Acro notcher, 16 Ga. Capacity.
- 1ea. Di-Acro brake, 16 Ga. Capacity.
- 1ea. Di-Acro punch.



INSPECTION EQUIPMENT

- 1ea. Nikon LK V 10.10.8 CNC CMM
40" x 40" x 30" (xyz)
- 1ea. COORD3 Ares NT CMM
- 2ea. 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 Model SJ-201 profilometer.
- 2ea. Bench centers.
- 1ea. Browne & Sharpe toolmakers microscope.
- 1ea. Bausch & Lomb Microscope 7x - 3x



CAD/CAM SOFTWARE SYSTEMS

PROGRAMMING AREA WORKSTATIONS:

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



- 3 seats Mill (3D)
- 3 seats Mill (2.5D)
- 2 seat Lathe
- 1 seat Multi-Axis



- 4 seats SolidWorks Standard Edition.