

# **Tridecs**

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

## **MANUFACTURING EQUIPMENT SCHEDULE**

Version 12.6

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## TABLE OF CONTENTS

<b>FUNCTION</b>	<b>PAGE</b>
CNC Milling . . . . .	2
Manual Milling . . . . .	4
CNC Turning . . . . .	5
Manual Turning . . . . .	6
Surface Grinding . . . . .	7
Sheet Metal Equipment . . . . .	8
Saws . . . . .	9
Welding and Brazing Equipment. . . . .	9
Miscellaneous Equipment . . . . .	9
Inspection Equipment . . . . .	10
CAD/CAM Software . . . . .	11

## CNC MILLING

x   y   z

1ea. Fadal VMC-4020HT; 40" x 20" x 20" travel  
10,000 R.P.M. Spindle

1ea. Fadal VMC-6030HT; 60" x 30" x 30" travel  
10,000 R.P.M. Spindle

1ea. Fadal VMC-15/15XT; 30" x 16" x 20" travel  
7,500 R.P.M. Spindle



1ea. Kitamura Mycenter-1; 18" x 12" x 16" travel  
10,000 R.P.M. Spindle

1ea. Kitamura Mycenter-3x; 30" x 18" x 18" travel  
10,000 R.P.M. Spindle



3ea. HURCO VMX 24 24" x 20" x 24" travel  
10,000 R.P.M. Spindle

2ea. HURCO VMX 42 42" x 24" x 24" travel  
10,000 R.P.M. Spindle

1 ea. HURCO VM 1 26" x 16" x 20" travel  
10,000 R.P.M. Spindle



3 ea. YCM XV-1020A 40" x 20" x 21" travel  
10,000 R.P.M. Spindle



- 1ea. Hyundai-Kia HS400i      24"x22"x26" travel  
Horizontal Machining Center  
12,000 R.P.M. Spindle



- 2ea. Makino a51nx      22" x 25.2" x 25.2" travel  
Horizontal Machining Center  
14,000 R.P.M. Spindle



#### SUPPORT EQUIPMENT:

- 4ea. Mastercam Work Stations  
1ea. Yuasa 8" Indexer  
1ea. Yuasa 12" Indexer  
2ea. Fadal VH65, 8" Rotary Table, 4<sup>th</sup> Axis  
1ea. Kitagawa TecNara 4<sup>th</sup> 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"



- 2ea. Miyano JNC-45; 1-3/4" dia. Bar capacity, 18.5" work length,  
4000 R.P.M. spindle, 8" chuck, 18.5" swing.  
Positioning Accuracy: X Axis .00005" 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)

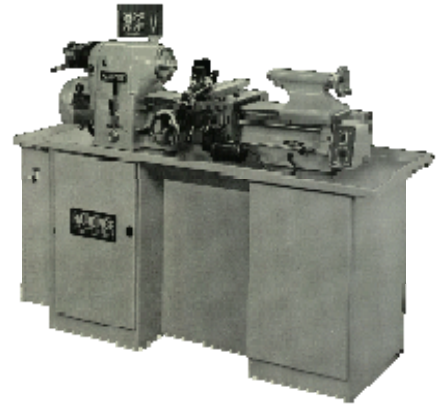


- 1ea. Miyano BNC-34C; 1-1/4" dia. Bar capacity, 9" work length,  
5000 R.P.M. spindle, 6" chuck with 3" max turning dia.  
Positioning Accuracy: X Axis .00005" Z Axis .0001"
- 1ea. Miyano BNC-34T; 1-1/4" dia. Bar Capacity, 9" work length,  
5000 R.P.M. spindle, 6" chuck with 3" turning dia.  
Positioning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

## MANUAL TURNING

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

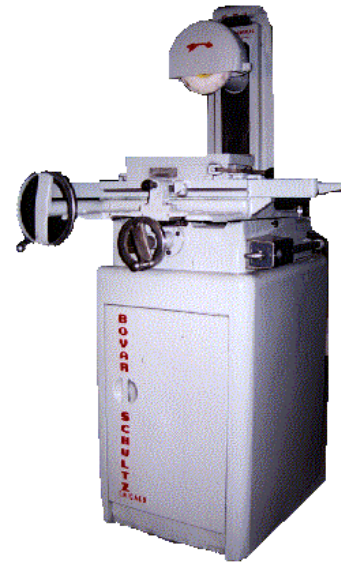
- 1ea. Dumore tool post grinder.

## 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.



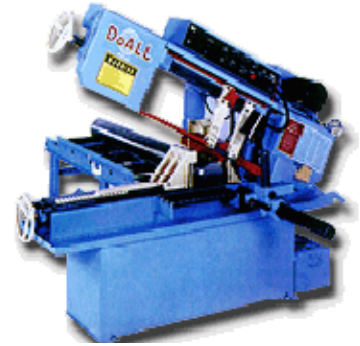


## SHEET METAL EQUIPMENT

- 1ea. Wysong Hydraulic Squaring Shear,  
H52; 4' of 16
- 1ea. 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 aircooled 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. Nikon LK V 10.10.8 CNC CMM  
40" x 40" x 30" (xyz) W/3D Workshop
- 1ea. Cordax 1810 CMM  
W/3D Workshop
- 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:



2 seats Mill (3D)  
3 seats Mill (2D)  
1 seat Lathe



3 seats SolidWorks Standard Edition.