

### MACHINE SHOP EQUIPMENT

	QTY
GROB G550, Universal Horizontal 5-Axis Machining Center, Ø35.4" x 26.9" height	1
Matsuura MAM72-63V, 5-Axis Vertical Machining Center, Ø28.5" x 17.7" height	2
Matsuura VX-1000, Vertical Machining Center with 4th axis X40" Y 24" Z 24"	3
Matsuura MX-850, 5-Axis Vertical Machining Center, Ø33.5" x 17.7" height	1
Mazak 700D, 12k RPM, CNC Machining Center with 4th axis X 60" Y 28" Z 26"	1
Haas VF4-SS, 12k RPM, CNC Machining Center with 4 <sup>th</sup> axis X 50" Y 20" Z 25"	1
Fadal 4020, 10k RPM, CNC Machining Center with 4th axis X 40" Y 20" Z 20"	1
Fadal 2216, 10k RPM, CNC Machining Center X 20" Y 16" Z 20"	1
Daewoo 5025, 12k RPM, CNC Machining Center with 4th axis X 50" Y 25" Z 25"	2
Daewoo 4020, 15k RPM, CNC Machining Center X 40" Y 20" Z 25"	1
Doosan DNH500, 15k RPM, CNC Machining Center with 4th axis X 40" Y 20" Z 25"	4
Doosan DNM200, 15k RPM, CNC Machining Center with 4th axis Ø28.4" x 16"	1
Doosan MYNX6500/50, 10k RPM, CNC Machining Center with 4th axis X 50" Y 26.4" Z 24.6	1
Nikken - 5-Axis, 8" CNC Compound Rotary Table, 2.0" Hole through Spindle	1
Takisawa TS-400YS Multi-Tasking (X, Y, Z, Milling, Sub Spindle)	1
Doosan Lynx 220LM Turning Center, 11" Swing, Live Tooling, 2.4" Dia thru Spindle	1
Doosan Puma 2600M Turning Center, 18.9" Swing, Live Tooling, 3.0" Dia thru Spindle	1
Nakamura-Tome Slant 3, CNC Turning Center, 19" Swing, 2.50" Dia thru Spindle	1
Mitsubishi BA24 Wire EDM X 23.6" Y 15.7" Z 21"	1
Mitsubishi MV2400R Wire EDM X 23.6" Y 15.7" Z 12.2" U +/- 3.0" V +/- 3.0"; .000002" res.	1
Charmilles Sinker EDM, X 12" Y 10" Z 12"	1
Epilog Helix 24 CO2 Laser Engraving and Cutting System X 24" Y 18"	1
Bridgeport CNC 2 Axis Mill	1
Bridgeport (Manual) Mill	1
Sharp DRO (Manual) Mill	2
TRAK TRL 1630RX CNC Lathe	1
TRAK K3 CNC Mill	1
Hardinge Tool Room Lathe 11" Swing x 18", 1.12" Hole through Spindle	1
Mori Seiki Lathe 16" Swing with 18" Gap, 2.1" Hole through Spindle	1
Parker-Majestic 6" x 12" Surface Grinder	1
Sunnen Hone	1
Dake/Johnson 16" x 10" Vertical Band Saw	1
Scotchman Cutoff Saw	1
Doall Horizontal Band Saw, Rectangular 9" x 16" or Dia. 10.0625" and Miter 90° to 45°	1
Powermatic Drill Press	1

### TUBE BENDING & END FINISHING EQUIPMENT

	QTY
Eaton Leonard CNC Mandrel Tube Bender 200SE, .750" to 2.50" OD	1
Pines CNC Mandrel Tubing Bender 5/8" OD Aluminum, 1/2" OD Steel	1
Clark & Lewis (Manual) Mandrel Tubing Bender 1" OD Aluminum	1
PHI End Finishing Machine, Flaring, Beading & Deburring	1
Eaton Leonard CNC Mandrel Tube Bender 100SE .250 to 1.00" OD.	1
Eaton Leonard VECTOR Tube Data Center	1

### INSPECTION EQUIPMENT AND TOOLS

	QTY
Zeiss Eclipse CMM 2840, Renishaw TP200 Probe	1
Zeiss Contura G2	1
Brown & Sharp Co-ordinate Measuring Machine (CMM) X18" Y 24" Z 18"	2
Romer Infinite Portable CMM with non-contact tube probes 0" to 1"	1
Mitutoyo PH-A14 Optical Comparator 8.0" x 14" Screen	1
Gage Master Optical Comparator 10" x 10" Screen	1
Surface Plate 48" x 72" with ledge	1
Surface Plate 36" x 48" with ledge	1
Surface Plate 18" x 24" with ledge	2
Fowler Trimos V3 28" Electronic Height Gage	
Brown & Sharp 12" Height Check	1
Starrett 12" Height Check	1
Brown & Sharp 24" Electronic Height Gage	1
Mitutoyo 24" Height Gage	1
Fowler Gage Blocks (Set)	1
Starrett Gage Blocks (Set)	1
Herman Schmidt 6" x 6" Magnetic Squaring Block	1
Myers Plug Gage Pins .010 to 1.00	1
Deltronic Hole Plug Gages (Set)	20
4' x 6' x 12" Granite Surface Plate	1
10" Magnetic Compound Sine Plate	1
Sunnen Dial Bore Gages, .750 to 6.0" (Set)	8
Mitutoyo Dial Bore Gages, .300 to 4.0" (Set)	4
Brown & Sharp Micrometers 0 to 8" (Set)	1
Sign Plates	1
Sign Bars	1
Planner Gage	1
Fowler 24 " Caliper	1
Herman Schmidt Precision Vise	1
Thread Gages (Set)	50
Hardness Tester	1

### SHEET METAL EQUIPMENT

	QTY
Wysong 55 Ton Press Brake 8'	1
Niagara Shear 14 Ga. 6'	1
Diacro 24" x 16 Ga. Shear	1
Diacro 24" Finger Break	1
Roper Whitney Kick Presses	2

### SUPPORT EQUIPMENT

	QTY
Sweco 3 Cubic Foot Vibratory Deburring Machine	2
Sweco 1 1/2 Cubic Foot Vibratory Deburring Machine	1
C&M Topline 6.5 Cubic Foot Vibratory Deburring Machine	1
Grainger's Spot Welder	1
Timesaver Sander 37" Width	1
Norton Tool Grinder	1
Optima Drill Grinder	1
Lapping Plate 18" x 24"	1
Glass Bead Machine	1
General Pneumatic Riveting & Insert Press	1
Clark 4,000 lb. Forklift	1

### WELDING EQUIPMENT

	QTY
Grainger's Spot Welder	1
Victor Gas Welder	1
Miller Syncrowave 350 TIG Welder	1
Miller Dynasty 200 DX TIG Welder	1
Miller Syncrowave 250 TIG Welder	1

### TECHNOLOGY

	QTY
hyperMILL Open Mind Version 2018	
GibbsCAM with Solid Surfacing, 5 Axis & Turning	
Espirit	
SolidWorks	
ShopTech E2	
Discus 3D	