

# Equipment List

| MACHINE                           | QUANTITY | DESCRIPTION         | MAX TRAVEL                   | ACCESSORY   |
|-----------------------------------|----------|---------------------|------------------------------|---|
| Horizontal Machine Centers        | 17       | 4-Axis Mills        | 1050 X 900 X 980             | Many with High Pressure Coolant, up to 240 tools.   |
| Vertical Machining Centers        | 95       | Up to full 5-Axis   | 1400 X 600 X 675             | Many with High Pressure Coolant, up to 60 tools.  |
| Horizontal Turning Centers        | 2        | Mill & Lathe        | X: 335 / Z: 1110             | 90° & 0° Live Holders, 12" chuck  |
| Single Spindle Horizontal Lathe   | 84       | Up to 4-axis        | X: 400 / Z: 820              | Up to 15" chucks, Programmable tail stock   |
| Twin Spindle Horizontal Lathe     | 1        | 2 Axis Lathe        | X: 250 / Z: 265              | 12" Chucks, Parts Loader  |
| Vertical Lathe                    | 14       | 2 Axis Lathe        | X: 439.4 / Z: 800            | 18" Chuck, Live Tooling, High pressure coolant, Hi-Low Chuck pressure, Coolant Chillers   |
| Horizontal Lathe With Sub-Spindle | 10       | Up to 6-Axis        | X: 175.26 / Z: 508 Y: 105.00 | 8" CHUCK, 20HP, 6,000 RPM, 5HP 6,000 RPM Live Tooling, Bar Feeders, High Pressure Coolant, Tool Load Moonitoring, Parts Catcher |
| Swiss Type Screw Machine Lathe    | 10       | Up To 7-Axis        | Ø32.0 X 320                  | Ø32.0 Max With Bar Feeders, High Pressure Coolant, Up To 35 Tools.  |
| Balancer                          | 4        | Single Plane        | Up To 165 lbs                | Auto Correction, Ø24.0" Max, 11.0" Max Drill Radius, Hydraulic Drill Supports   |
| Horizontal Broacher               | 3        | Horizontal          | Ø508 X 1524                  | 20,000 # Pull   |
| Double Ram Vertical Broacher      | 1        | Double Ram Vertical | Ø304.8 X 1422.4              | Ø241.3 Max If Doing Two Parts At Time   |
| Induction Heat Treater            | 1        | 25 kHz              | Ø304.8 X 762                 | 150# Total, 8" Spindle Centers  |
| Induction Heat Treater            | 1        | 3 /10 kHz           | Ø304.8 X 1524                | 250# Per spindle, 12" Spindle Centers   |
| CNC OD Grinder                    | 1        | Angle Head          | Ø400 X 1047.75               |   |
| CNC OD Grinder                    | 1        | Plain Cylinder      | Ø300 X 508                   |   |
| Surface Grinder                   | 8        | Face Grind          | 440 x 1100                   | Magnetic Table, 3-AXIS  |
| Cutoff / Band Saw                 | 6        | Saw                 | Ø280 X 580                   | Bar Feeder, Band Speed 10-120 M/Min   |
| Knee Mill                         | 4        | MILL                | 880 X 395 X 380              |   |
| Engine Lathe                      | 5        | LATHE               | 500 X 2032                   |   |
| Engine Lathe                      | 4        | Lathe               |                              |   |
| CNC Hob                           | 1        | 5-Axis              | Ø226 X 249                   | 4.23 Max DP   |
| CMM                               | 10       | CMM                 | 1200 X 3000 X 1000           | PC-DMIS   |

|                        |   |                |                |   |
|------------------------|---|----------------|----------------|---|
| <b>Welder</b>          | 1 | MIG WELDER     |                | Welding Power Source  |
| <b>Welder</b>          | 1 | TIG WELDER     |                | Welding Power Source, AC-DC Gas Tungsten Arc                          |
| <b>Welder</b>          | 1 | PLASMA CUTTER  |                | 125PSI / 65PSI, 300 SCFH  |
| <b>Welder</b>          | 1 | MIG WELDER     |                | 200 AMPS AT 28 VDC, 60% DUTY CYCLE. 250 AMPS AT 28VDC, 40% DUTY CYCLE |
| <b>Robot</b>           | 7 | Six-Axis Robot |                | IR Vision-2D  |
| <b>Jig Grinder</b>     | 1 |                | 610 X 914.4    |   |
| <b>Lapping Machine</b> | 1 |                | Ø508.0         |   |
| <b>Barrel Finisher</b> | 1 |                | Ø10.25 x 17.25 | 10HP 4.7cu ft   |
| <b>Plasma Cutter</b>   | 1 |                | 22.0MM         |   |