



Equipment List

MAINTF-94

REV: 1-07-26

Quest equipment inventory includes modern technology and all machines and equipment necessary to produce high quality and precise prototype parts, molds, and injection molded products.

SHOP FLOOR EQUIPMENT

CNC Mills

- (3) YCM 2012B Double Column Vertical Machining Center (2016/2023) 78.74" x 47.24" x 30" Travel, HSK-100 Spindle, 15000 RPM, 1000 PSI through Spindle Coolant, 40 ATC, FCS
- (1) YCM NTV 158B (2018) 60.25" x 30" x 27.5" Travel, HSK-100 Spindle, 15000 RPM, 1000 PSI through Spindle Coolant, 32 ATC, FCS
- (1) YCM NH500A Horizontal Machining Center (2025) 31.5" X x 28.74" Y x 31.5" Z Travel, 15000 RPM 50HP CAT40, 60 ATC, FCS
- (1) Makino F5 VMC (2010) 35.6" X x 19.7" Y x 17.7" Z Travel, 20HP/40 Taper, 20K RPM, accuracy: +/- .000060" POS, +/- .000040" repeatability Coolant through Spindle, FCS
- (1) Makino A61 Horizontal Machining Center (2015) 28.7" X x 25.6" Y x 28.7" Z Travel, 14000 RPM HSK63A Spindle Taper, 133 ATC, FCS
- (1) DSN HM1000 HMC (2020) 82.8" X x 49.2" Y x 49.2" Z Travel, 50HP, 6,000 RPM 1,000 PSI Coolant through Spindle, 120 ATC, FCS
- (1) HAAS EC-1600 Horizontal CNC Boring Mill (2014) 64" X x 50" Y x 32" Z Travel, 30 HP / 50 Taper, 10,000 RPM, 50 Tool ATC, 1K PSI CTS, FCS
- (1) HAAS VF9/40 VMC (2007, 2013) 84" X x 40" Y x 30" Z Travel, 30HP, Coolant through Spindle, FCS
- (1) HAAS VM3-1 VMC 40" X 26" Y 25" Z Travel, 12,000 Max RPM, 30 Hp, CT40 spindle taper, 4000lb MAX Table weight
- (2) Doosan DNM400 VMC (2008) 25" X x 17" Y x 20" Z Travel, 20HP, 12000 RPM Coolant through Spindle, FCS
- (2) Doosan DNM500 VMC (2015) 40" X x 20" Y x 21" Z Travel, 25HP, 12,000 RPM Coolant through Spindle, FCS
- (3) Doosan DNM650 Heavy Duty VMC (2010) 50" X x 26.3" Y x 24.6" Z Travel, 20 HP, 12,000 RPM Coolant through Spindle, FCS
- (2) Doosan 4020L VMC (2008) 40" X x 20" Y x 24.5" Z Travel, 20 HP, 12,000 RPM Coolant through Spindle, FCS
- (1) Doosan DVF-5000 5-Axis (2020) Table/Pallet Size: 19.7" x 21.7", X-Travel: 25", Y-Travel: 18", Z-Travel: 16", Rapid Traverse: 1575 IPM, Spindle Speed: 18,000 RPM, Spindle Motor: 30 HP, FCS
- (2) Doosan HP4000 HMC (2016) 23.6" X x 22" Y x 23.6" Z Travel, 14,000 RPM, FCS
- (1) DNM 6700 VMC (2023) 51.2" X x 26.4" Y x 24.6" Z Travel, 12,000 RPM, FCS, Coolant Thru, 30 ATC
- (1) DNM 4500 VMC (2019) 31.5" X x 17.7" Y x 20.1" Z Travel, 12,000 RPM, FCS, Coolant Thru, 30 ATC



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CNC Lathes

- (2) Daewoo Puma 240MC 12-Station Turret High Performance Turning Center, 10" Chuck, 25HP, 3" Collet Chuck with 3" MAX DIA Bar Feed, Tooling with Parts Catcher, Tailstock, Rigid Tapping
- (1) Doosan Lynx 2100 LSYA (2021), 8" Chuck, Royal QG-65 Collet, 2" DIA Barfeed, 3' Bar feed length, Y Axis, Sub Spindle
- (1) Hardinge Conquest GT27SP with Super Precision, Gang Tool 12' Bar Feed, 1.062 MAX DIA
- (1) Hardinge Conquest GT27SP with Super Precision,
- (1) Hardinge HL-200-E Super Precision, 8" Chuck or 2" Collet Chuck with 2.0" MAX DIA Bar Feed

Engine Lathe

- (1) South Bend G26-T 6" Chuck 13.375 Swing Over Bed, 36-inch distance between centers

EDM

- (1) OPS Ingersoll Eagle 1200 CNC RAM EDM (2016), 50" x 60.7" x 26.8" MAX Workpiece Dimensions, 39.4" x 59.4" x 27.5" Travel, FCS
- (1) OPS Ingersoll Eagle 800 CNC RAM EDM (2018), 31.5" x 43.3" x 18.8 MAX Workpiece Dimensions, 21.7" x 33.4" x 17.7" Travel, FCS
- (1) Makino UX6 Wire EDM, 25.59" x 17.71" x 16.35" (XYZ) Travel Dimensions, +-2.95" UV Travel, 35.8" x 28" Table Size, 42.13" x 34.65" Tank Size
- (1) YUGAR TGS 43Z EDM Hole-Driller, 15.7" x 11.8" x 15.7" MAX Workpiece Dimensions, Max Hole Dia 0.1181"

Graphite Machining

- (1) Roku Roku HC-658-II (2016) Trode Machine, Travel Range 23.62 x 19.68 x 15.74" Table Size 29.52 x 19.68, Spindle 200-32000 RPM, HSK-E40 Taper, 3-Axis
- (1) Roku Roku HC-658-II (2016) Trode Machine, Travel Range 23.62 x 19.68 x 15.74" Table Size 29.52 x 19.68, Spindle 200-32000 RPM, HSK-E40 Taper, 5-Axis
- Erowa Mark II Robodoor Robot (ERC80) 88 Position

Injection Molding

- (1) Krause Maffei 350CX Ton Injection Molding Machine, 51.62 oz shot
- (1) Krause Maffei 81PX Ton Electric Injection Molding Machine, 7.25 oz shot
- (1) Krause Maffei 250PX Ton Electric Injection Molding Machine, 16.79 oz shot
- (1) Krause Maffei 161PX Ton Electric Injection Molding Machine, 9.28 oz shot
- (1) Cincinnati Milacron 85 Ton Injection Molding Machine, 4.4 oz shot
- (1) Cincinnati Milacron 165 Ton Injection Molding Machine, 11oz shot
- (1) TempTek Cooling Tower System
- (1) Zone Controller
- (1) Valve Gate Manifold System
- (1) Motan Bank Dryer System, four 350lb Hoppers with Individual Temperature Controls
- (1) PPE Dryer with 225lb Hopper
- (1) Cincinnati Milacron Dryer with 150lb Hopper
- (3) Fluid Control System Heaters, 230 volts @ 6GPM/30PSI



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Spotting Presses

- SXKH HMG90EX 90 Ton Spotting Press, Platen Dimension: 63"x 55", Distance between Pillars: 74", Max/Min Daylight. 71"/8"
- (1) Reis Model TU115 Hydraulic Spotting Press

Surface Grinder

- (1) Acer -618 6" X 18" Table with 18" Fine-Line Chuck
- (1) Okamoto 12 X 24 Accugar 124-N Hydraulic Surface Grinder
- (3) Parker Majestic with Readouts
- (1) Mitsui High/Tech with Readouts

Jig Grinder

- (1) Moore #3 Model G18 Jig Grinder

OD Grinders

- (1) Tschudin Model HTG600, 7" x 24" CC Plain Coolant System, Motor & Controls 2" Risers to make 11" Swing.

Blanchard Grinder

- (1) Blanchard No. 22, 42" Rotary Surface Grinder, 50 HP

Other Grinders

- De Gen Model PPC-2000 Precision Cut-Off & Grinding Machine
- Cutter Master Model HDT-30 End Mill Grinder
- Haimer Model PC2000 Shrink Fit Power Clamp & Speed Cooler
- DME Pin Cut-Off Machine Model PPC750
- Rush Drill Grinder #132

Hone

- (1) Sunnen Model MBC-1802, Capacity: .081"–6.50" Diameter Holes

Saw

- HE&M Saw Model H105A-C 14" Round x 16" Flat Capacity, 1-1/4" Blade
- Roll-In Saw EF Vertical Band Saw

Surface finishing

- Multi-Media Bead Blast
- Vibrator Tumbler
- Sheenus Neo Ultrasonic Polishing System



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Welding

TIG

- Miller Dynasty 350 with Micro Welding Capability
- Miller Syncrowave 250

MIG

- Miller Deltaweld452

Other

- Atlas Welding Positioner (200lb capacity)
- Kemper Fume Collector (14ft articulating arm)
- Pre/Post Heat Table
- Microscope with Articulating Arm
 - Micro Welding on or off Bench
 - Weld Inspection

DESIGN & ENGINEERING

Design CAD Software

- Cimatron
- Autodesk Inventor Pro
- Autodesk PowerShape

CAD Analyzing Software

- SpinFire

Programming Software

- Cimatron
- AutoDesk PowerMill
- PEPS OPTICAM (WEDM)

Moldflow Software

- Autodesk Moldflow Insight



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OPERATIONS

Software

- JobBoss ERP
- ShopBoss Scheduling
- Unipoint (Inspection, Calibration, Maintenance, Auditing, Customer Surveys)
- Synergy Reporting
- Shop Floor Computers, Televisions displaying Schedule (Visual Factory)

Tool Crib

- Zoller Venturion 450 Presetter with full CNC control
- (3) Tool Vending Machines, Fully Stocked and Maintained with Current Inventory

Quality Laboratory:

- Climate Controlled
- Hexagon Global S 9.12.8 Touch+ CMM, 900mm x 1200mm x 800mm
- Brown & Sharpe Gage 2000 – 3-Axis CMM, with 18" x 20" Travel
- Tesa "Micro Hite" plus 600 (programmable with 24" of travel)
- Fowler
- (2) Optical Comparators, Surface Illumination, Digital Readouts
Repeatability of .0001, Perpendicularity of .0005 and Resolution of .0001"
- (1) 2' x 5' Granite Surface Plate
- (1) 3' x 5' Granite Surface Plate
- (1) 18" x 24" Granite Surface Plate
- Rockwell Hardness Tester
- Profilometer
- Inventory of Hand Tools, including Micrometers, Calipers, Thread Gages, etc.
- (1) Hexagon Absolute Arm 3D Scanner

Material Movement and Transportation

- (1) 2 Ton Overhead Crane
- (1) 5 Ton Overhead Crane
- (1) Propane Hi Lo 4500 LB Capacity
- (1) Electric Hi Lo 8000 LB Capacity
- (1) Chevy (2014) 2500 HD Work Truck, 3400 LB Capacity
- (1) GMC (2018) Savana Van, 3000 LB Capacity
- (1) Ford Truck (2016) F550 Super Stake
- (1) Chevy Equinox (2017)
- Chevy Express van (2017)
- Chevy Truck (2016)
- GMC 1 Ton Flat Bed (2015)

Security

- Internal and External Security Cameras
- Alarm System