

P&N Machine Company, Inc.

Machinery and Equipment List

Conventional Department:

Milling Machines (4):

- 3 Bridgeport, Series I -Mdl 2J w/ DRO (12x48 Table Travel)
- 1 ProtoTRAK Bed Mill 5HP SMX CNC - DPM SX5 (20x40 Table Travel)

Lathe Machines (9):

- 1 Hardinge DSM-59 Second Operation Lathe (Turret Lathe)
- 4 Hardinge HLV-H Tool Maker Lathe -w/ DRO
- 1 Kingston HJ-1700 17x67 Engine Lathe -w/ DRO
- 1 Kingston HD-2260 22x60 Engine Lathe -w/DRO
- 1 Kingston HD-22120 22x120 Engine Lathe -w/ DRO
- 1 Kingston HD-26120 26x120 Engine Lathe -w/ DRO

CNC Department:

Programming:

- 3 SolidWorks 2025 CAD Software
- 2 MasterCam 2025 CAM Multi-Axis Software with wire EDM module
- 1 ESPRIT 2024 and ESPRIT EDGE

CNC Lathe Machines (20):

- 1 Hardinge *Conquest* T42SP-L 10HP CNC Lathe w/ Fanuc 18T Control, Spindle-Length Bar Feed
- 4 Hwacheon CUTEX-160 21.7x11.8 10HP CNC Lathe w/ Fanuc 0i-TC, Spindle-Length Bar Feed
- 4 Hwacheon CUTEX-160 21.7x11.8 10HP CNC Lathe w/ Fanuc 0i-TC
- 3 Hwacheon CUTEX-240B 21.7x11.8 10HP CNC Lathe w/ Fanuc 0i-TC
- 1 Hwacheon CUTEX-240BSMC 21.7x11.8 10HP CNC 4-Axis Live-Tooling Lathe w/ Fanuc 0i-TC
- 1 Hwacheon HT-400 24x30 30HP CNC Lathe w/ Fanuc 18i-TB Control
- 2 Hwacheon HT-400AL 24x40 30HP CNC Lathe w/ Fanuc 18i-TB Control
- 2 Hwacheon HT-300 24x30 30HP CNC Lathe w/ Fanuc 18i-TB Control
- 2 Hwacheon HT-310L 24x40 30HP CNC Lathe w/ Fanuc 18i-TB Control 4-Axis (Twin Turrets)

Swiss Machining Center

- 1 Tsugami SS327-5AX-III, 9-axis Swiss Lathe (X1, X2, Y1, Y2, Z1, Z2, B, C1 & C2), FANUC Series 31i- Model B5 Control
 - Max. machine dia. (guide bushing mode): 1.26" (32mm)
 - Max. machine dia. (chucker mode): 1.5" (38mm)
 - Edge Patriot 3-38 12' Magazine Style Bar Feeder (cap. 0.118 – 1.5")

CNC Milling Machines (16):

- 4 YCM-Supermax XV-560A 20HP 40-Taper 4-Axis Vertical Machining Center – 40x24x24 Workpiece Envelope, 700 # Workpiece Capacity, w/ Fanuc MXP200i

- 1 YCM-Supermax NXV-560APC 20HP 40-Taper 4-Axis VMC-Pallet Changer – 40x24x24 Workpiece Envelope, 700 # Workpiece Capacity, w/ Fanuc MXP200i
- 5 YCM-Supermax MV-106A 20HP 40-Taper 4-Axis Vertical Machining Center – 40x24x24 Workpiece Envelope, 1,760 # Workpiece Capacity, w/ Fanuc MXP200i Graphics Control
- 1 YCM-Supermax MV-168A 20HP 40-Taper 4-Axis Vertical Machining Center – 65x30x30 Workpiece Envelope, 4,400 # Workpiece Capacity, w/ Fanuc MXP200i Graphics Control, 10" Rotary Table
- 1 YCM-Supermax NSV-156A 20HP 40-Taper 4-Axis Vertical Machining Center – 65x30x30 Workpiece Envelope, 4,400 # Workpiece Capacity, w/ Fanuc MXP200i Graphics Control, 10" Rotary Table
- 1 YCM-Supermax NMV-106A 20HP 40-Taper 4-Axis Vertical Machining Center – 40x24x24 Workpiece Envelope, 1,760 # Workpiece Capacity, w/ Fanuc MXP200i Graphics Control
- 1 YCM-Supermax TV-146B 25HP 50-Taper 4-Axis Vertical Machining Center - 55x24x24 Workpiece Envelope, 3,300 # Workpiece Capacity, w/ Fanuc MXP-200FB Graphics Control
- 1 YCM-Supermax XV-1020A 30HP 40-Taper 4-Axis Vertical Machining Center – 44x20x33 Workpiece Envelope, 1,100 # Workpiece Capacity, w/ Fanuc MXP100FA Graphics Control.
- 1 HAAS Super Mini Mill 40-Taper Vertical Machining Center – 36" x 12" Workpiece envelope, 500# Workpiece Capacity, w/ HAAS Next Generation Control 96-8210

EDM Equipment:

- 1 Mitsubishi MV2400-ST Wire EDM with M800 Control
- 1 Mitsubishi EA12ST Advanced CNC Sinker EDM with M700 Control

Inspection Equipment:

QC Department:

- 1 Zeiss Contura G2 Aktiv 1000/1600/600 Scanning CMM w/ VAST-XT Head & Calypso software (X39.00" x Y63.00" x Z24.00")
- 1 Zeiss Contura Active 700/1000/600 Scanning CMM w/ VAST-XTR Head & Calypso software (X27.50" x Y39.40" x Z23.60")
- 1 Zeiss Curve Visual Metrology Software Module
- 1 Brown & Sharpe Micro-Hite 24" w/ printer
- 1 Brown & Sharpe Micro-Hite 30" w/ printer
- 1 Tessa Micro-Hite Plus M-900 36"
- 1 Rock of Ages Granite Surface Plate - 72x48x12
- 1 Starrett HE-400 Optical Comparitor
- 1 Keyence IM-7030T Image Dimension Measurement System

On the Shop Floor:

- 6 Tesa-Hite 400 16" Electronic Height Gage
- 1 Mitutoyo PH-350 Optical Comparitor
- 1 Mitutoyo HB-400 Optical Comparitor

Miscellaneous Equipment:

- 1 Marvel PA360EPC 14" CNC Horizontal Cut-Off Saw
- 1 DoAll 2013-10 Vertical Band Saw
- 2 TechnoMark Multi-4 Combo Marking System
- 1 Mecco 20W Fiber Laser Marking System, 160mm lens with 110mmX110mm marking field, large 30"x42"x50" enclosure, 6" rotary chuck, Data Matrix code capability
- 1 Mecco 10W SMARTmark CO2 Laser Marking System, 200mm Lens with 140mmX140mm marking field, large class 1 enclosure
- 1 Olympus Vanta C Series XRF Analyzer (PMI - Positive Material Identification Device)
- 1 Eastwood B40 Modular Blast Cabinet
- 2 Econoline Glass Bead Cabinet