



CNC MILLING MACHINES

MACHINE NAME	UNITS	CAPACITIES			
Makino A61NX (5 Axis)	3	12,000 RPM	X: 28.7"	Y: 25.6"	Z: 28.7"
Makino DA300 (5 Axis) + Pallet Automation	2	20,000 RPM	X: 17"	Y: 25"	Z: 19"
Makino N2-5XA (5 Axis) + Pallet Automation	2	20,000 RPM	X: 11.81"	Y: 11.81"	Z: 9.06"
Doosan DNM4000 (4 Axis)	2	12,000 RPM	X: 20"	Y: 16"	Z: 20"
HAAS EC1600ZT (5 Axis)	1	10,000 RPM	X: 64"	Y: 50"	Z: 40"
Makino PS105 (4 Axis)	1	14,000 RPM	X: 41.3"	Y: 20"	Z: 18.1"
OKK VP400 HSK 63 (4 Axis)	1	20,000 RPM	X: 23.5"	Y: 16"	Z: 18"
OKK VM53R (4 Axis)	1	12,000 RPM	X: 41"	Y: 21"	Z: 20"
OKK VP 600 (4 Axis)	1	20,000 RPM	X: 44"	Y: 22"	Z: 30"
OKK PCV40 (4 Axis)	1	6000 RPM	X: 21"	Y: 16"	Z: 20"
OKK MCV660 (4 Axis)	1	4500 RPM	X: 56"	Y: 26"	Z: 25"
OKK PCV55 (4 Axis)	1	13,000 RPM	X: 40"	Y: 22"	Z: 20"
OKK PCV55 (3 Axis)	1	10,000 RPM	X: 40"	Y: 22"	Z: 20"
Makino SNC64 (3 Axis)	1	20,000 RPM	X: 24"	Y: 16"	Z: 16"
Makino F5 (3 Axis)	1	20,000 RPM	X: 35"	Y: 19"	Z: 17"

LATHES

MACHINE NAME	CAPACITIES			
Okuma LB2000 (Multi-Axis)	6,000 RPM Milling Spindle	10" Swing		2.44" Thru Bore
Okuma LB3000 (Multi-Axis)	3,500 RPM (M), 6,000 RPM (S), 6,000 RPM Milling Spindle	13" Swing	Subspindle	Thru Bore: 3.94"
Okuma LB4500 (2 Axis)	1,000 RPM	21.6" Swing	21.6" Max Diameter By 120" Long	Thru Bore: 10.2"
Okuma LB4000 (2 Axis)	1,200 RPM	18" Swing	Steady Rest: Min-2.5", Max-11"	Thru Bore: 7.1"
Doosan LYNX 2100LB (2 Axis)	4,500 RPM		14" Max Diameter By 21" Long	Thru Bore: 2.68"



EDM MACHINES

MACHINE NAME	UNITS	CAPACITIES		
Makino EDNC6 (SINK)	2	X: 25.6	Y: 17.7"	Z: 19.7"
Makino U6HEAT Wire	2	X: 25.6"	Y: 17.7"	Z: 16.5"
Makino SP43 Wire	2	X: 17.8"	Y: 11.8"	Z: 12.6"
Makino EDAF3 (SINK)	1	X: 17.7"	Y: 13.8"	Z: 13.8"
Makino EDAF2 (SINK)	1	X: 13.8"	Y: 9.8"	Z: 9.8"
Manual EDM Sinker	1	X: 16.5"	Y: 12.5"	Z: 9.9"
Agie Edm Hole Drill	1	X: 11.90"	Y: 8.00"	Z: 10.875"



CNC GUN DRILL

MACHINE NAME	CAPACITIES			
Hong Ji ST1000 (Gun-drill)	Drilling Depth 39.5"	X: 20"	Y: 13.75"	Max Hole Size 1"



MANUAL MACHINES

MACHINE NAME	CAPACITIES
Bridgeport (Bridgeport)	X: 24", Y: 11", Z: 13"
Chevalier (Surface Grinder)	Mag Chuck 6"X17.75", Z: 12.5"
Jones Shipman (Surface Grinder)	Mag Chuck 7.75"X23.75", Z: 10.5"
NU-WAY (Surface Grinder)	Mag Chuck 12"X24", Z: 16"
DMTG (Large Manual Lathe)	1,200 RPM, 16" Swing, 4.125" Thru Bore
Spectra Band-saw	18"X18"
Ram Band-saw	7"(high) X 16"(wide)



METROLOGY MACHINES & EQUIPMENT

MACHINE NAME	UNITS	CAPACITIES
Hexagon Global S Chrome	2	X: 1200mm Y: 2200mm Z: 1000mm
Hexagon Global Performance	1	X: 900mm Y: 1200mm Z: 800mm
Hexagon Optiv Performance 443 Dual Z Vision+ Multisensor CMM	1	X: 400mm Y: 400mm Z: 300mm
Creaform Handyscan Laser Scanner	1	Accuracy: 0.025 mm (0.0009 in) Part size range: 0.05 – 4 m (0.15 –13 ft)
Keyence 3D Scanner CMM VL-800 Series	1	Accuracy: ±10 µm (0.00039 in) Part size range: Ø300 × H200 mm (Up to W580 × D300 × H200 mm extended)
Keyence IM-X1540 LM	1	Accuracy: ±1.8 µm (0.00007 in) Part size range: 425 × 325 × H200 mm (16.73" × 12.80" × 7.87")



SOFTWARE

Mastercam

	SEATS
MasterCAM Mill 3D	10
MasterCAM Lathe	4
MasterCAM Simple Mill-Turn	4
MasterCAM MultiAxis	2
MasterCAM Nesting	2
MasterCAM Wire EDM	1
MasterCAM Mill-Turn Lathe Environment	1
Renishaw Productivity+	1

 **HEXAGON**

PC-DMIS CAD ++

Geomagic DesignX



Power Mill

	SEATS
AutoDesk PowerMill Premium	2
AutoDesk PowerShape	1

 **SOLIDWORKS**

SolidWorks CAM Standard

SolidWorks Inspection Standard

SolidWorks PDM Standard

SolidWorks Premium

SolidWorks Standard

SolidWorks Visualize Standard

