



Numerical Productions, Inc.
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Equipment List

CNC Milling Centers

Manufacture	Machining Center	Size	Work Envelope	Tools	Notes
1 - Toyoda	HMC - FA800 w/16i Fanuc control	800mm pallet	1200mm3	120 - CAT50	4 axis machining w/ 1 deg. Index table - 30 HP / 6,000 RPM spindle / 5,500 lb. table capacity / direct drive spindle
1 - Toyoda	HMC - FH80B w/15m Fanuc control	800mm pallet	1200mm3	120 - CAT50	4 axis machining w/ 1 deg. Index table - 30 HP / 4,500 RPM spindle / 3,500 lb. table capacity / 2 speed geared spindle
6 - Toyoda	HMC - FA630 w/15m-16i Fanuc control	630mm pallet	1000mm3	120 - CAT50	4 axis machining w/ 1 deg. Index table - 30 HP / 6,000 RPM spindle / 2,850 lb. table capacity / 4 direct drive spindles & 2 geared spindles (2 spd)
1 - Okuma	VMC - MC-4VA w/OSP 5000 control	660 x 405 x 455	26" x 16" x 18"	32 - CAT40	Full 4 axis machining w/Nikken rotary - 10 HP / 5,000 RPM spindle / 1,100 lb. table capacity / direct drive spindle
1 - Okuma	VMC - MC-4VAE w/OSP 5020 control	660 x 405 x 455	26" x 16" x 18"	20 - CAT40	Full 4 axis machining w/Nikken rotary - 10 HP / 6,000 RPM spindle / 1,100 lb. table capacity / direct drive spindle

CNC Turning Centers

Manufacture	Machining Center	Size	Tool Stations	Tools	Notes
1 - Okuma	2 Turret - LU35M w/OSP-E100L control	21.6" x 33"	12 upper, 10 lower	VDI-50 style	C axis machining @ .001 indexing - 50 HP / 2,800 RPM spindle / 29" swing / 4 gear spindle / 20" & 15" chucks / 12 live milling head / Tailstock / 4.33" thru bore
2 - Okuma	2 Turret - LC40 w/OSP-5020 control	21.6" x 28.7"	12 upper, 8 lower	Bolt-on style	C axis machining @ .001 indexing - 60 HP / 2,500 RPM spindle / 24" swing / 4 gear spindle / 20" & 12" chucks / 6 live milling head / Tailstock (1x) / 3.5" thru bore
1 - Mazak	2 Spindle - 8N SP w/T32-2 control	6.3" x 5.9"	16 tool stations	Bolt-on style	Sub-spindle machining w/sync spindles - 7.5 HP Main / 2 HP Sub / 5,000 RPM spindle / 1.6" bar feed cap. / Parts catcher / 6" & 4" chuck cap. / Conversational control

Grinders & Hone

Manufacture	Type	Size	Horse Power	Wheel Dia.	Notes
3 - Blanchard	22-42/18CD/22K - 42" Power mag chuck	42" x 18"	40 / AC Motor	22"	Auto feed
1 - Arter	E-30 - 31" Power magnet chuck	30" x 10"	20 / AC Motor	16"	Auto feed
1 - Sunnen	MBC-1802 - Honing machine	.12 - 3.75"			Auto stroke

Misc. Equipment

Manufacture	Type	Size	Notes
1 - Do All	1213A - Automatic power cut-off saw	12' x 13"	5 HP Variable speed (60-350 FPM) - Capacities: Flat = 12" x 13", Round = 12.75" / Auto Index 0-24"
1 - Magnus	LIF #3 - 3 Stage cleaning system	33" x 20" x 19"	304 SS units (1 wash & 2 rinse) / 1,000 lb. capacity - Immersion agitation / Connecting roller platforms / Cartridge filtration & conductivity controller
1 - Better Eng.	M-200-P - Spray Wash Cabinet	27" dia. table	500 lb. capacity / Stainless Steel Construction
1 - Millport	3KVH - Vertical Mill	50" x 10" x 12"	R8 collet capacity
1 - Harig	618W - Surface Grinder	18" x 6"	6" grinding wheel
1 - Grob	4V-18 - Horizontal Band Saw		
1 - Trinco	36/BP2 - Dry Abrasive Blasting Cabinet	32" x 18" x 18"	
2 - Lift trucks	Electric Lift Trucks with spare battery	42" forks	Lift capacity 6,500 each / extendable forks
3 - Drill Press	Hand Drill Press machines	12" - 18"	Portable drill press machines for secondary operations
1 - Hyd. Press	4920A - 20 Ton Hyd. Press	12" x 24" x 36"	Portable hydraulic press - hand pump
1 - Abrasive Fin	Burr Bench - Vibratory Finsihing Machine	16" x 20" x 12"	Portable vibratory finishing/deburr machine



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Inspection Equipment

Manufacture	Type	Size	Notes
1 - Magnaflux	ARQ-545 - Magnetic Particle Inspection	48" cabinet	
1 - Parlec	P10-1218 - Tool Measuring Machine	18" x 12.3" dia.	6" Optical projector / CAT40 & CAT50 capability
1 - CMM	RS-30 - Cordax Apollo II	40" x 30" x 25"	Renishaw PH10 auto probe head / Work table area 42" x 32"
1 - Faro	Gage-PLUS - Hand held CMM gage	48" work area	Portable gage arm w/.0002 accuracy
1 - Federal	136B-5 - Set Ring/Disk Comparator	0 - 12" dia.	For calibration / accurate to .000005"
1 - Gage Mast.	Horizontal Optical Comparator	12" dia.	Gage Master Series Twenty w/ digital read outs
3 - Mitutoyo	Pocket Surf II		Profilometer
1 - Bore Scope	Fiber Optic Bore Scope System		
21 - Plates	Granite Surface plates	Various	At least one at every machine w/ large ones in QA
1 - Tesa-Hite	Electronic Height Gage	14"	
1 - Super Mic	Bench Micrometer w/MU checker	0 - 4"	Accurate to .000010"
1 - Hard. Test	Variable Hardness Tester		
10 - Federal	D-2500 & D-4000 - Air Gage System		Accurate to .000010" & .000025"
2 - Federal	4 Jet - Air Gage System		Accurate to .000010" & .000025"
2 - Federal	Federal Set Gage Master		
1 - Millipore	Millipore Testing System		
	Dial Bore Gage System	.375" - 12"	
2 - B&L	Stereo Zoom Microscopes		Bausch & Lomb Stereo Zoom Microscopes
14 - Federal	ID Groove Gauges	.25" - 9.0"	
30+ - Federal	OD Snap/Groove Gauges	0" - 14.5"	
500+ - Rings	Master Set Rings/Disks		Used for setting snap gauges, air gauges & bore gauges

Software - Office

1 - Dell powered server with Windows 2000 / Equipped with uninterruptible power supply
13 - PC's connected on-line via fiber optics network system / Windows XP Pro / Equipped with uninterruptible power supply
1 - Tape back-up system
1 - Syteline ERP manufacturing integrated software
- Modules: Order entry, Inventory, Shop floor control (includes routings, scheduling, etc.), Accounts receivable & payable
- General ledger, Purchasing, ECN & Human resources
Complete EDI capabilities

Software - Engineering

CAD - AutoCAD Mechanical 2008 / Import & Export - IGES, DXF, DWG formats
HP "D" Size Plotter
CAM - SmartCAM Software
- CNC Programming / Modules: Advance Turn & Advance Mill / Import & Export - IGES, DXF formats
PC-DNC - CNC Data transfer to/from shop floor via scanner and software capabilities

Software - Quality

Advanced Gage Control
- GR & R Studies, Gage Inventory & Recall, Calibration Results & History
SPC Express Software
- SPC Charting, Process Capability Studies, Histograms, Rainbow Charts
MeasureMax Software
- CMM Programming
CAD - AutoCAD 2005 LT / Create and Update Gauging & De-burr sheets