



Equipment List

Diversity of Materials



Quality Control System



New Era ^{INC.}
MANUFACTURING



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NewEra^{INC.}
MANUFACTURING



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CNC VERTICAL MILLS

Okuma GENOS M560-V, Vertical Machining Center I

Table Size 51.0" x 22", 15,000 RPM Spindle, 32 Tool Changer

Okuma GENOS M560-V, Vertical Machining Center II

Table Size 51.0" x 22", 15,000 RPM Spindle, 32 Tool Changer

Okuma GENOS M560-V, Vertical Machining Center III

Table Size 51.0" x 22", 15,000 RPM Spindle, 32 Tool Changer

Fanuc RoboDrill, High Speed CNC Drill Machining Center I

Table Size 33" x 16", 24,000 RPM Spindle, 21 Tool Changer

Fanuc RoboDrill, High Speed CNC Drill Machining Center II

Table Size 33" x 16", 24,000 RPM Spindle, 21 Tool Changer

Fanuc RoboDrill, High Speed CNC Drill Machining Center III

Table Size 33" x 16", 24,000 RPM Spindle, 21 Tool Changer

CNC HORIZONTAL MILLS

Mori Seiki, Model NHX-4000, High Precision Horizontal Machining Center

22" Cube Machining Capability, 12,000 RPM Spindle, 120 Tool Changer

Mori Seiki, Model NHX-4000, 2nd Generation High Precision Horizontal Machining Center

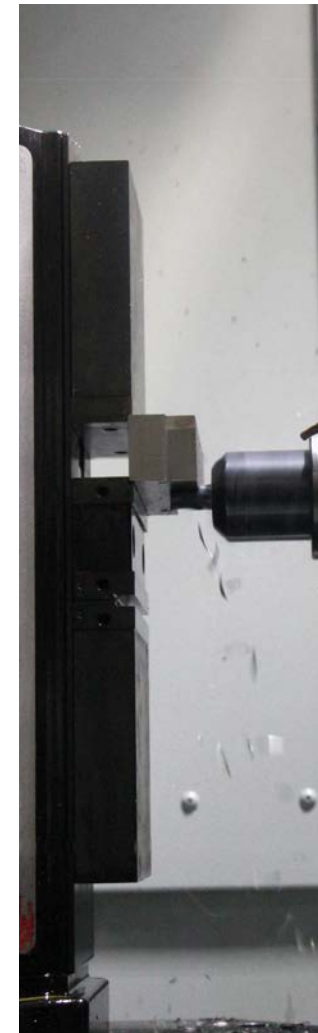
Model CPP-6 Pallet Pool System w/7 Tapped Pallets

22" Cube Machining Capacity, 20,000 RPM Spindle, 180 Tool Changer

Mori Seiki, Model NH-4000DCG, High Precision Horizontal Machining Center

Model CPP-6 Pallet Pool System w/7 Tapped Pallets

22" Cube Machining Capacity, 14,000 RPM Spindle, 180 Tool Changer



CNC MULTI-TASK MACHINES

CNC Multi-Task Machines combine the functionality of both CNC Lathes and CNC Mills into one powerful machine. Turning and Milling are both accomplished on the same setup at the same time to greatly improve quality and efficiency. High-precision complex parts can be produced very economically.

Nakamura-Tome, Super NTY3, Multi-Task CNC Turning Center I

12-Axis Simultaneous Turning and Milling, Twin Spindle, Three Turret
1.7" Dia. Bar Capacity, Max. Turning Dia. 7"

Nakamura-Tome, Super NTY3, Multi-Task CNC Turning Center II

12-Axis Simultaneous Turning and Milling, Twin Spindle, Three Turret
2.0" Dia. Bar Capacity, Max. Turning Dia. 7"

Nakamura-Tome, Super NTY3, Multi-Task CNC Turning Center III

12-Axis Simultaneous Turning and Milling, Twin Spindle, Three Turret
2.0" Dia. Bar Capacity, Max. Turning Dia. 7"

Okuma Model LU-300M Multi-Task CNC Turning Center

5-Axis Simultaneous Turning with Milling Function, Dual Spindle,
Dual Turret 2.75" Dia. Bar Capacity, Max. Turning Diameter 14"

Okuma Model LU-300M Multi-Task CNC Turning Center

5-Axis Simultaneous Turning with Milling Function, Dual Spindle,
Three Turret 2.75" Dia. Bar Capacity, Max. Turning Diameter 14"

Okuma Model LT2000-EX

11-Axis Simultaneous Turning and Milling, Dual Spindle, Three Turret 2.75"
Dia. Bar Capacity, Max. Turning Diameter 8"

Mori Seiki, Model NZ-1500

9 Axis Simultaneous Turning and Milling, Twin Spindle, Twin Turret
2" Diam. Bar Stock Capacity, Max Turning Diameter 14"

Mori Seiki, Model NZ-2000

12 Axis Simultaneous Turning and Milling, Twin Spindle, Three Turret
2.6" Diam. Bar Capacity, Max Turning Diameter 14"

Doosan Puma, MX2600ST, Full 5-Axis Capabilities

Dual Spindle, 3" Dia. Bar Capacity, 60" Turn Length, 29" Max Turn Dia.

CNC SWISS SCREW MACHINES

Tornos ST-26

1.0" Dia. Bar Capacity,
9 Axis CNC Swiss Style Turning Center with Chucker

Citizen Model A20-VII

.787" Dia. Bar Capacity, 7 Axis CNC Swiss Style Turning Center

CNC SAWS

Cosen, Model C-420NC, CNC Horizontal Band Saw

16" Dia. Capacity, Automatic Stock Feed

Daito, Model GA260W CNC Horizontal Band Saw

11 1/2" Dia. Capacity, Automatic Stock Feed

GRINDING MACHINES

Cincinnati Millacron, Model OM-V Centerless Grinder

1/16" - 3 3/4" Dia. Capacity

Chevalier, Model 1224ADII, Automatic Precision Surface Grinder

12" x 24" Magnetic Table

UNIVERSAL TOOL AND CUTTER GRINDERS

ID & OD Grinding — 1/16" I.D. - 8" O.D.

General Tool and Cutter Sharpening and Modifying

CONVENTIONAL MACHINES

Vetrax, Model GS 20F CNC, Vertical Milling Machine

Fagor 8055 Conversational Control, Table Size 49" x 10", Travel - 31" x 16"

Mori Seiki, Model MS 850G Engine Lathe

8" 3-Jaw Chuck/12" 4-Jaw Chuck

Goodway, Model 1440 Engine Lathe

8" 3-Jaw Chuck

Clausing Kondia, Model FV-1 CNC Vertical Milling Machine

Dynapath Delta 10M Control, Table Size 42" x 9"

SUPPORT EQUIPMENT

HONING

Sunnen, Model MBB-1660 Honing Machine

Manual Honing, .060" - 6.000" Range

TUMBLING

- **Rosler Tumbler**
Rotary Tumbler, 18 Cubic Feet
- **Roto-Finish Spiratron Gemini Tumbler I**
Rotary Tumbler, 4 Cubic Ft. Capacity

PART PROGRAMMING

Virtual Gibbs CAD/CAM System

Used in our milling department.

Part Maker CAD/CAM System

Used in our turning department.



SOLID MODELING

SOLIDWORKS

A production solid modeling for the desktop in the Windows environment. It is a feature-based, parametric, solid modeling design program. With SolidWorks you can create fully associative 3-D solid models with or without constraints while utilizing automatic or user defined relations to capture design intent. SolidWorks can import the following file formats, and depending upon how they are drawn, or the information that is given in them, convert them to a useable solid: Parasolid, IGES, STEP, ACIS, VDAFS, VRML, DXF, DWG, PRO E, TIF. SolidWorks can export the following file types: Parasolid, IGES, STEP, ACIS, STL, VDAFS, VRML, TIF.

ADDITIONAL CAPABILITIES

- Complete Quality Control – **ISO 9001 Certified**
- Laser Engraving
- Complete Programming and CAD/CAM Facility
- Manufacturing Engineering
- Assembly



Diversity of Materials

NewEra Manufacturing has capabilities to produce components from a wide variety of materials. The following is a sample list of materials that we work with on a regular basis:



Non-Ferrous Metals

Aluminum
Bronze
Brass
Copper
Aluminum Bronze
Beryllium copper
OFHC Copper
Magnesium
Lead

Stainless Steels

"300" Series Stainless
"400" Series Stainless
13-8MO
15-5PH
17-4PH

Aircraft Alloys

4130
4140
4330
4340
4620
6150
8620
8740
9310
D6AC
Titanium

Carbon Steels

1018
1020
12L14 (Ledloy)
1215
Stressproof (C1144)
Fatigue-proof

High Temp. Alloys

Nickel
Inconel
Monel
Kovar
Invar
Hastalloy
Waspaloy
A-286
MP35N
Invar
Maraging "300"

Plastics

Nylon
Nylon MDS
Nylatron
Delrin
Delrin AF
PVC
UHMW
Ultem
Acrylic

Peek
Polycarbonate
Teflon
Vespel
Flourescent "500"





Quality Control System

Brown & Sharp Model Performance

CNC Coordinate Measuring Machine
Work Piece Size 20" x 28" x 20"

Mitutoyo, Model B706, Coordinate Measuring Machine

Work Piece Size 28" x 24" x 18"

Hexagon, Global Performance 9.12.8

Coordinate Measuring Machine

Work Piece Size 35" x 47" x 35"

Rondcom, Model 30B, Roundness Tester

Automatic, Computer-Controlled Unit Checks Roundness, Flatness, Concentricity, etc.

Mitutoyo, Model SJ-401, Surface Finish Tester

Fully Computerized with Output and SPC Capabilities

Mitutoyo, Model SJ-410, Surface Finish Tester

Fully Computerized with Output and SPC Capabilities

Gagemaster GMX Series 20, Optical Comparator

Certified Comparator Products, Model OC300 CC-16, Optical Comparator

Sunnen Precision I.D. Bore Gauge

Deltronic Pin Gages

Ranging in sizes from .011" - 1.000" Dia.

FULL PPAP CAPABILITIES — ALL LEVELS

COMPLETE SPC/ CAPABILITY STUDY CONTROLS

DOCUMENTED PROCESS CONTROLS/ PIP

EFFECTIVE CAPA SYSTEM

COMPLETE MATERIAL TRACEABILITY

Dial and Digital Height Gages

Up to 24"

Granite Surface Plates

Up to 48" x 72"

Precision Gage Blocks

Ranging up to 8" length, .0001" increments

Federal Dimensionair Air Gage, Model D-2500, 3 ea.

OD and ID gaging to 6" Dia., Accuracy .00005"

Full SPC Computer Program

With Implementation Software and Hardware

Micrometer Sets

Ranging from 0"-1" up to 11"-12"

Digital, Dial and Vernier Calipers

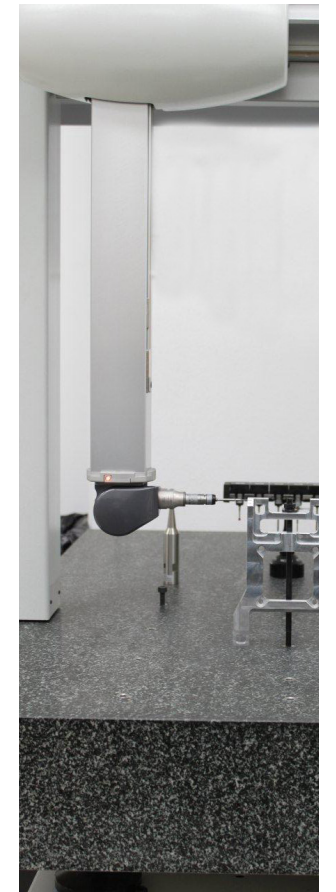
Ranging up to 7' length of measurement

Thread Plug and Ring Gages

Full Selection for Standard and Special Threads

Precision Fixturing Components

For Inspection Points Setups





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