



CAMBRIDGE VALLEY MACHINING

t 518 677.5617 28 PERRY LANE, P.O. BOX 160
f 518 677.5974 CAMBRIDGE, NEW YORK 12816

LIST OF OUR CAPABILITIES AND FACILITIES

Cambridge Valley Machining designs and manufactures custom mechanical, pneumatic, and electrical equipment. We provide precision machining services on a prototype or production scale. Our manufacturing plant and home office is located in Cambridge, NY in a 50,000 sq. foot facility. ISO9001 & AS9100 registered.

CNC VERTICAL MILLING CENTERS

Mazak VTC 20B, 4th Axis
44 x 20 x 20 Cube
10K Spindle

Mazak VTC 20B (2 each)
44 x 20 x 20 Cube
8,000 RPM

Mazak AJV-25/404N
39 x 20 x 18 Cube

Mazak VTC 20C (2 each)
Max Cube 65 x 20 x 20
8,000 RPM

Mori Seiki MV-65B/50
60 x 25 x 25 Cube

Okuma MB-66VB
Tsudakoma 4th Axis
59.06 x 25.98 x 25.98 Cube
Kao Ming KMC3000
119 x 49 x 27 Cube

Bridgeport Series 1
Anilam 1100 Control

Fanuc RoboDrill Mate Vertical
16.14 x 12.2 x 12.99 Cube
14 Tools

Kitamura Mytrunnion-5
Simultaneous 5-axis capable
Table 630mm
Travel (X,Y,Z) 812 x 745 x 500 mm
100 tools, 20,000 RPM spindle

CNC HORIZONTAL MILLING CENTERS

Mazak H-500/50 (2 each)
M-32 Control, Full 4th Axis
28 x 25.5 x 25.5 Cube

Mazak FH 4800 (3 each)
Fusion Control
22 x 24 x 22 Cube

Mazak FF-510 Fanuc, 180 I-M Control
20.8 x 20.8 x 20.8 Cube
12,000 RPM, 1 Degree Index
24 Tools

Kiwa KH45G, Fanuc 31 I-A Control
25.2 X x 24.0 Y x 26.8 Z Cube
12,000 RPM, 80 Tools

Mazak FH-580/40
M Plus Control, Full 4th Axis
25,000 RPM Spindle
28 x 24 x 26 Cube

Mazak Palletech Manufacturing Cell
Consists of 2 FH4800 HMC's
25,000 RPM, 22 x 24 x 22 Cube, 4th Axis
120 Tool and 80 Tool Capacity
Renishaw Probe System, 14 Pallet
Storage

Enshu JE-80S (2 each)
15,000 RPM Spindle, 60 Tools
31.5 x 31.5 x 31.5 Cube

OKK HM4 Horizontal
12K Spindle, 40 Tools
22.05 x 20.08 x 22.05 Cube

Mazak Nexus 5000-II Horizontal (3 each)
Nexus Control, 18K Spindle
28.7 x 28.7 x 29.1 Cube

Optional High Speed Milling, up to 70,000 RPM Available On Selected Machines

CNC TURNING EQUIPMENT

Kia Super Kia Turn 21
10" Dia. X 20.8"
LNS Short Bar Feed
2.6" Capacity

Mazak QT 250
2" Bar Capacity
19" x 15.75" Max. Swing

Mori Seiki SL35B/750
10.25" Dia. x 30.7"

Hitachi Seiki 23S-111
CNC Turning Cell
10.0" Dia. x 24.0"

Mori Seiki NL2500SY/1250
IEMCA Bar Feeder
5-Axis (Live Tooling) Sub Spindle
Max Turning Diameter 14"
Max Swing 29"
Max Part Length 51.1"

Nakamura Tome WT150MMU
Hydrostatic Magazine Bar Feed
7-Axis with Sub Spindle
2" Bar Capacity
190mm Dia. x 400mm Length

Okuma Multus B300W Twin Spindle
10,000 RPM 5-axis Milling (B-axis)
Max Turning Dia. Ø17.72", Z-axis 37.2"

QUALITY ASSURANCE

Numerex BT 1518-10
CMM System
Uni-touch PLUS software

OGP Model 250-CFOV
Smartscope w/Smart Report
3-D Video Measuring Envelope
12" x 6" x 6"

Zeiss Eclipse CMM
Calypso Software

Optical Comparator Mitutoyo PH350

2 Each Trimos Measuring Systems

OGP Smartscope Flash 625
20 x 24.8 Cube

DESIGN CAD SOFTWARE / MANUFACTURING CAM SOFTWARE

Pro/Engineer Wildfire 5.0 CAD (6 seats)
Pro/Intralink PDM
Pro/Mechanica (Structure & Motion) CAE
AutoCAD 2009
Pro/Manufacturing Production Manufacturing CAM
Geopath CAM System with MAZACAM and 3-D option
ESPRIT CAM Software - 5 Seats

GRINDING AND HONING EQUIPMENT

Okamoto MDL OGM8-20UNC CNC Cylindrical OD Grinder
8" x 20" Capacity
Fanuc 18GC Control

Jagura JAG-IG2S-CNC ID Grinding Machine
C-axis, Dual Spindle

Mattison Surface Grinder

Sunnen ML-400 Honing Machine
I.D. Range .060 - 6.500 In.
Stroke Length .236 - 6.700 In.

Sunnen MB-1660 Hone
5.0" ID x 6" Stroke Length

Reid Surface Grinder
18" x 6" Capacity

MANUAL AND FABRICATION

Bridgeport Milling Machines (15 each)
Engine Lathes (5 each)
Milleromatic Mig Welder (4 each)
Milleromatic Syncrowave 250 Tig Welder
Milleromatic Syncrowave 350 Tig Welder
Burco Short Cycle Stud Welder
Miller XR Edge Wire Feed for AL Welder - liquid cooled (2 each)
Timesavers Model 2100-12-0 wet finishing machine - 24" width
Timesavers dry finishing machine - 8" width
Guyson FFS Blasting System

OMGA TR-2B Double Mitre Saw
Do-All horizontal band saw
Do-All vertical band saw (2 ea.)
Kalamazoo horizontal band saw
Burr King Vibra King 40 W/ Combi Pack AND Timer (2 each)
Burr King Vibra King 45 W/ Combi Pack
Burr King Model X200 Combi Pak
Burr King 960 Pedestal Grinder
DCM 161 Mini-Tumble Machine

PLEASE FEEL FREE TO CONTACT US IF YOU ARE INTERESTED IN FURTHER INFORMATION OR WOULD LIKE TO DISCUSS A PROPOSED PROJECT. PLEASE VISIT US AT WWW.CVMUSA.COM.