

BICKFORD

PRECISION MACHINE & DESIGN, INC.

Bickford Precision Machine and Design, Inc. is recognized as a high tech machine shop that designs and develops various new products as well as supplying the manufacturing needs of the job shop industry. Tom Bickford is the owner operator and has over 30 years of hands on experience producing prototype and production parts. We offer our expertise in CNC machining complex parts such as Indy Car components, gas turbine fuel injection nozzles, medical instruments, CNC propeller work, billet cams and many other unique machined products. The business is located in Napa, California.



Bickford Precision has machined a wide of range materials. These include Titanium, Hastalloy, Stainless, Aluminum and Plastics. Some of our customers include Conoco Phillips, Chevron, Tosco Oil Refinery, Tucson Power, Valtronics, Soyland Power, Riley & Scott Engineering, Johnson Propeller, Dressler Rand, KR Designs and Hickham Industries. These customers require a variety of machining needs that include welding, grinding, broaching, as well as CNC machining. Bickford Precision uses BobCad Cad/Cam software to integrate the design of parts to final part programs. We recognize that quality does not just happen. Bickford Precision has consistently invested in new "State of the Art" equipment and quality people to get the job done right.



We are dedicated to providing the best quality and service in the industry. Bickford Precision has earned its reputation by maintaining high quality standards for both manufacturing and service. Quality has always been one of the highest priorities at Bickford Precision and it is never compromised.

For more information go to www.bickfordprecision.com

Bickford Precision Machine & Design, Inc
1760 Industrial Way, Suite 3
Napa, Ca 94558
707.253.0846
707.251.9606 – Fax

List of Equipment

Milling

1999 Mazak VTC 20B
X axis capacity 44"
Y axis capacity 20"
Z axis capacity 20"
8,000 RPM 15HP 40Taper



Turning

1999 Mazak QuickTurn 250
8" Chuck Dia.
2" Bar Feed Capacity
Maximum Cutting Dia. 15.7"
Maximum Cutting Length 19.7"

Quality Assurance

Mycrona Primus – Multi Sensor CMM

Our quality control department is equipped with a "state of the art" measuring system. This 3D Multi-Sensor CNC Mycrona measuring machine has both a high-resolution camera along with a TP200 Renishaw Probe. This Mycrona Primus machine has a measurement resolution of 0.5um (.000020 in.) for all 3 axis. The Mycrona also has Geomatic 3D programming and analysis software for outputting data along with contour analysis software for DXF comparison.



Fowler Sylvac Z-Cal Height Gage

Ruby Probe measures diameters, centerlines, and concentricity
Range 300mm
Resolution .00005 in.
Accuracy 4um
Repeatability 2um
Data I/O RS232

Precision Surface Plate, Dial Bore Gages, Gage Pins, Digital Calipers, Micrometers

CAD/CAM - Design

BobCad –Cad/Cam Software

Full 3axis capability Imports DXF, IGS, CDL, CSF, DES, FST, NCA, PAR, PRT, ASC along with many others.

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