

Applied Engineering, Inc. Capabilities

Setting the Pace with People, Products, and Performance

We specialize in high speed milling of aluminum components to close tolerances. We offer major savings for our customers who may be buying costly investment castings, die cast items, or purchasing machined components from a typical machine shop. We machine all items from high quality bar or plate, and once integrated into our processes, we are able to hold down costs as no additional setup costs are required. In comparison to castings, we can incorporate engineering changes quickly at minimal costs, offer short start up times without expensive die investments or die maintenance costs, and provide a consistent, high quality product. With our systems approach to machining, work in process and cycle times are minimized, again reducing costs.

Our experienced programming staff can import various 3-D model formats (Iges, STEP, Parasolid, etc.) directly from your engineers. We use importing to program both the machines for production as well as the CMM's for inspection. This greatly reduces the time it takes us to get your product from the programming stage out to the production floor. Our first article reports are automated to be created directly from the CMM report which improves accuracy and availability. We also can take a motionless two dimensional print and create a dynamic three dimensional model converting your old prints to a modern computer graphical representation of your part.

We have been at our current location since 1984, and have recently expanded to our current size of 66,000 square feet. We are focusing on technology, in particular automation, to maintain our "world class" status in the precision machining industry. The first Flexible Machining System was installed in 1987. Since then we have added significantly to our equipment base and are continuously growing with the addition of new capacity each year. We have the ability to handle parts from ¼" to 35 cubic inches, and order sizes from 1 to 10,000.

Our major machine listings include:

- 10 LeBlond Makino A-55's integrated into two FMS dual rail system with 140 pallets
 - 6 LeBlond Makino A-55's combined with two FMS rail systems with 50 pallets
 - 1 LeBlond Makino A-55 on an eight pallet turntable system
 - 4 LeBlond Makino MC 98's with a 34 pallet FMS rail system
 - 4 LeBlond Makino A-55's combined with a Motoman HP20 Robot on a Monorail system and 8 tables
 - 4 LeBlond Makino A88e with a 44 pallet stacked FMS rail system
 - 4 LeBlond Makino A51 with a 64 pallet stacked FMS rail system
 - 1 Robotic deburr system utilizing a Motoman SK 16 Robot and Wet Blast
 - 1 Robotic machining system -Hass HS-1 mill/ Toyoda FA400 mill/ Motoman SK16 Robot
- We also have a complete tool room including a Makino MC 98, a Fryer MB-15 CNC milling center, two Fadal vertical machining centers and a long list of other secondary support equipment.

Other operations:

- 4 CMM inspection systems for quality inspection and first articles
- Metron G2 Laser Scanner to create a 3D point cloud of an actual part for comparing to the solid model
- 2 Paint rooms with an 8x12 foot dry/bake oven
- NADCAP Accredited Chromate Conversion Line
- Silkscreening
- Hardware and Helicoil installation
- Part Marking
- Specialized Packaging and Shipping

Outsourced operations include nickel, silver, tin, gold plating Types I, II & III anodize, EMI form in place shielding gaskets, E-coat & powder coat paint and NDT. Outsourced operations can be performed by NADCAP or AS9100 approved sources when required.

Our quality system is certified to the ISO9001 and AS9100 standard. We also obtained our NADCAP (National Aerospace and Defense Accreditation Program) accreditation on our chromate conversion line.