



Contract Manufacturing Services

Capability Highlights

Experience:

- Highly trained workforce serving industry since 1979
- Leaders in the application of manufacturing technology

Systems:

- Electronic process control/documentation system
- Tool path generation directly from solid models
- Up to the minute job costing information

Quality:

- QA lab with two Zeiss DCC coordinate measuring machines
- Pratt & Whitney Labmaster Universal (laser-based system for gage calibration)
- C-Vision video-based imaging and measurement system
- First article inspections performed on all setups
- In-process inspections

Machinery:

- 4 and 5 axis vertical and horizontal milling
- 4 axis turning/milling
- Automated part loading
- Fast setups with quick-change tooling on all machines
- High energy and vibratory finishing/deburring

Value Added Services:

- Design for manufacturability consultation
- Automated passivation/cleaning system
- Mechanical assembly
- Kanban part delivery
- Competent outsource relationships developed for:
 - Heat Treating
 - Welding/Brazing
 - Bending/Forming
 - Plating/Anodizing

Environmental Responsibility:

- Dedicated recycling dock
- Grey water processing

Capability Details

Experience:

Hirsh Precision Products, Inc. is a contract manufacturer specializing in production CNC turning and milling of precision components. We have provided this service based on quality workmanship and timely delivery since 1979. We are committed to continuous improvement and to conducting business with integrity. People are our most valuable asset; you get the benefit of their experience and passion for machining. Our team receives ongoing education in all facets of manufacturing from safety through machine specific setup and GD&T interpretation. We consistently invest in the latest manufacturing technology and stay on the leading edge of its application. Call anytime to schedule a visit to our facility.

Systems:

All manufacturing processes and instructions are documented with a custom multi-media software package. The software assures revision control of presentations, instructions and CNC program files. It also provides access to electronic logbooks, scrap part and corrective action databases. With a PC at each work center in the shop, our manufacturing documents are always available when and where needed. The job-costing side of our financial system is fed by input at the work center, eliminating all redundant data entry.

CNC tool paths can be generated directly from solid model part files. Our GibbsCAM® system eliminates data entry errors by importing native solid model files and outputting the proper machine code to any lathe or mill.

Quality:

Working from blueprints, our QA Team creates in-process inspection instructions that are accessed on the shop floor through our paperless information system. Raw materials, outside processes and internal setups are routed through a first article inspection and approval procedure. The QA department has at their disposal two Zeiss Contura G-2 CMM with VAST XT scanning head, a Pratt & Whitney Labmaster Universal (laser-based measuring system for gage calibration), C-Vision video-based imaging and measurement system, and a full compliment of hand inspection tools. All inspection tools are on a calibration schedule and are traceable to NIST.

We believe that it takes committed people to insure consistent high quality production. To this end, Hirsh Precision provides incentives for and shares in the financial rewards of high quality performance.

Machinery:

Multi-faceted parts with critical face to face feature relationships are no problem for our team! Numerous specialized machines allow us to process parts with the fewest handling or fixturing steps.

For milling we utilize numerous 5-axis work centers: Okuma MU-4000V, Mori-Seiki NTX-1000/SZM, DMG DMU-60 eVo Linear, Okuma MB-56VA, two Okuma MF-46VA, and three Brother TC-32BN-CTS's. We also have several 4-axis work centers including two 11-pallet Tsugami FMA3 horizontal machining centers. Most of our machining centers have multiple pallets, various automation, coolant through the spindle, and high-speed spindles (our fastest is 24,000 RPM).

For turning we offer several auto-loaded lathes, most with 4-axis and live tool capabilities. We also perform 6-axis Swiss type turning/milling up to 32 mm (1.25").

Machine setups in less than 30 minutes are a reality at Hirsh Precision. Our setup presentations provide the necessary details to produce "same conditions" from setup to setup. All CNC machines are equipped with quick-change tooling and fixturing that is preset off-line. This equates to efficient and repeatable manufacturing processes.

We also provide vibratory and high-energy finishing, welding, heat-treating, plating and assembly. *Our emphasis is on components that repeat and have stringent cosmetic and dimensional requirements.*

Value Added Services:

When you partner with Hirsh Precision, you get the benefit of our design for manufacturability experience and knowledge. Mechanical assembly is performed in-house and counted among our core competencies. We have the experience and capability to supply Kanban or "pull type" delivery services. Relationships have been developed and nurtured with outsource suppliers of complimentary services such as Heat Treating, Welding/Brazing, Bending/Forming, Plating and Anodizing. From a single machining operation to a multi-part finished assembly, Hirsh Precision stands ready to serve.

Environmental Responsibility:

The Hirsh Team is committed to environmental stewardship! A special dock is dedicated to the recycling of metal chips, plastic, glass, cardboard, paper, mail, light bulbs, oil, oil filters and oily rags. An ultra-filtration system separates water from process and cleaning fluids. The resultant effluent is third party tested to insure compliance with local discharge limits.

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