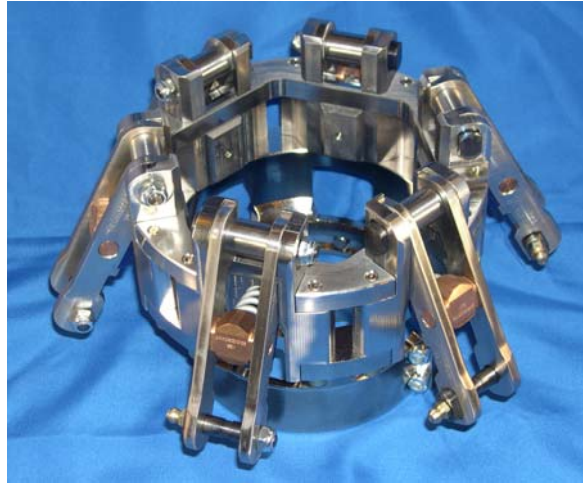
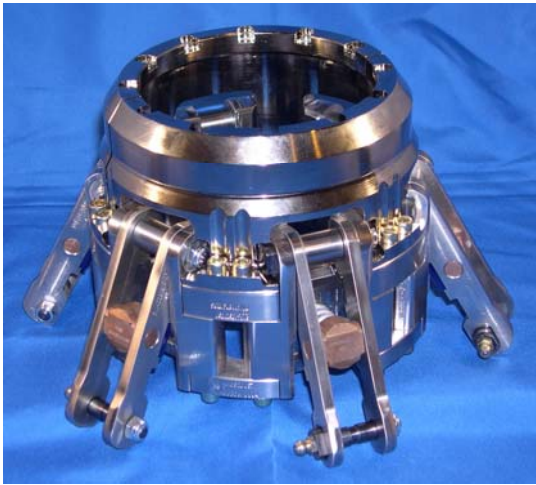


**KEYSTONE PRECISION
&
ENGINEERING, INC.**



QUALITY STARTS WITH THE FIRST PART



Keystone Precision and Engineering, Inc. is a full service precision machine shop supplying industries that require the utmost attention to extreme mechanical tolerances and quality. Founded over 24 years ago on a reputation of attention to detail and quality in the most difficult of design applications, Keystone Precision & Engineering continues to move forward to expand its presence in existing markets and to penetrate into new markets and industries.

Keystone Precision & Engineering's success is rooted in providing complex precision machine parts to the non-invasive medical device, vacuum, microwave, communication, motion control, optical, and semiconductor equipment industries.





**Fadal Precision CNC
Vertical Milling**



**Haas, Hardinge and Mazak Automated Lathe
Machining Centers with part transfer capability**



**Starrett CMM with
OpenDMIS**

Other Processing Capabilities

- Mechanical Assembly
- Speed Lathe Polishing
- CNC and Hand Deburring
- Surface grinding
- Honing Equipment
- Aqueous Vibratory Finishing
- Supply Chain Management
- Subcontracted Services : Sheet Metal , Wire EDM, and Screw Machine Fabrication; Heat Treatment, Plating, Marking, and other Finishes



Keystone Precision's founder Ron Long's philosophy stated: "Quality starts with the first part. If it's wrong the customer won't be happy." Loyal customers have become accustomed to Keystone's excellent quality, service, and delivery. We're always willing to work with our customers.

Keystone Precision and Engineering, Inc. combines craftsmanship with modern quality management methods, including: traceable material certifications; calibration of all metrology and measuring systems used to accept product; application of Statistical Process Control and Reporting; and the continuing development and refinement of our internal quality systems to achieve international standards compliance by 2010. With this foundation, we will be servicing our valued existing and new customers for years to come.

**Equipment List**

2002 Fadal CNC Vertical Machining Center; VMC 3016 with rigid tapping

2001 Fadal CNC Vertical Milling Center; VMC 4020 with Rigid Tapping, Glass Encoders

1998 Fadal CNC Vertical Machining Center; VMC3016 with Rigid tapping



1999 Fadal CNC Vertical Machining Center, VMC3016 with Rigid Tapping

1992 Fadal CNC Vertical Machining Center; VMC 4020 with Rigid tapping

1986 Fadal CNC Vertical Machining Center; VMC40

2008 Haas Turning Center, SL-20; ATS16C Pull Back Style Collet Chuck for A2-5 Spindle Mount

2000 Mazak CNC turning center SQT-100-MSY; 2 spindle; with Y axis; 6" hydraulic chuck; 5" hydraulic chuck; turret tooling; plus 3 live tooling heads

2003 Hardinge CNC Turning Lathe; Talent; 6" hydraulic chuck

1996 Hardinge CNC Turning Center; Cobra; 4" collet closures

1993 & 1994 Hardinge CNC Turning Center; Conquest GT Precision; 5c Spindle



1990 Hardinge CNC Turning Center; CNCH, CNC Chucker, 16C

Startrite Horizontal auto cutoff saw; H250A

Do-All Horizontal Automatic metal cut off saw; C-946A

Rockwell Vertical contour metal band saw; series #28-345

Hardinge tool room lathe HLV-H; SN-HLV-H-116601

Hardinge Lathe; Chucker; SN-HC470A

Hardinge lathe; Speed lathe; SN-HSL-5C-4704-T

Hardinge lathe; Speed lathe; SN-HSL-5C-3806-T

Alliant vertical milling machine TMV; 1.5 HP variable speed head

Clausing Vertical milling machine; 8530

CNC Rotary Indexers; Haas and Fadal; 5C Chuck

Boyar-Schultz surface grinder; H618; with magnetic chuck

Sunnen Honing machine; MBB-1660

Deltronic 14" Comparator with Quadra-Chek 200 & (2) Bausch and Lomb Stereo Microscopes

Starrett HGC 2018-16 CMM; *OpenDMIS*TM Measuring Software, New Controls and Hardware

Zero bead blast cabinet; 55300

Toyota propane forklift 42-5FG25; 3500 pound Capacity



Services	Examples
Design for Manufacturing, Machining, Test, and Reliability	Working with customer's design and supply chain teams to ensure every fabricated part will be produced within tolerance and with processes that result in high yields, high process capabilities, low scrap, and at the lowest cost from the start of the project.
Mechanical Design	ProEng, SolidWorks, and AutoCAD models and drawing support, from mechanical design and tolerance analysis to drawing detailing and releases.
CAM Design	In 2007 we purchased CAMWorks to improve our product realization capabilities. We will work with an existing supply base to convert existing CAM designs and assess the economics of existing jobs to find ways to save money.
Contract Manufacturing, Outsourcing and Supply Chain Consolidation Services	Keystone has a combined 40 years of outsourcing experience. We excel at supply chain strategy, selection, and qualification. Our methods are parametric and quantitative, not subjective. We can help customer consolidate their supply chain by taking over the management and assembly key components.
Program Management	Keystone can provide program management services to offload a customer's burdened design and procurement teams. Using proven methods from high volume industries, Keystone will bring your project in on budget and schedule.
Statistical Engineering, Quality Systems, and Metrology	<p>We can work with customers and suppliers to set-up traditional and advanced statistical process control methods, Quality management Systems, and the repeatable metrology (measurement) methods to ensure parts meet specification and process capability with known risk.</p> <p>Our newest metrology addition is our OpenDMIS Starrett CMM, with solid model importing capability to eliminate parametric and translational errors.</p>
Operations and Commercialization Services	<p>Keystone commercialization methodologies have been proven to work at Fortune 500 companies as well as start-ups. Our methods allow customers to quickly understand and size the highest risk factors and mitigate them. Managing known risks allow customers to have resources available to handle the unknown risks that always arise during product development.</p> <p>We will also gladly manage Kanban and Ship to Stock Programs at our customers request, and can accommodate direct MRP management.</p>



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