



An Introduction to Keystone Precision and Engineering, Inc.

Prepared By: Gary Ainsworth, President

Keystone Precision and Engineering
Proprietary and Confidential

1



Who We Are

- Keystone Precision and Engineering, Inc. is a full service precision machine shop
- We service industries that require the utmost attention to extreme mechanical tolerances and quality
- Founded over 25 years ago on a reputation of attention to detail and quality in the most difficult of customer applications
- Facts
 - \$1.8M Company
 - >40% Growth this Year
 - 14 Employees
 - 1.5 Shifts
 - 6400 Square Feet



Keystone Precision and Engineering
Proprietary and Confidential

2

Management



- Gary Ainsworth President
 - Previously the Vice President of Operations and Quality for a local telecommunications optical semiconductor, component, and systems company. Gary led the operation and development teams organizations from start-up to profitability. Gary brings executive level leadership from diverse high volume industries such as disk drives, color printers, semiconductor packaging, and optical components and subsystems.
- Anthony Serino Vice President of Operations
 - Previously the Vice President of United Tool and Die of Wilmington for the last 28 years. Anthony brings an in depth knowledge of machine shop operations management, coordination of customers, and workflow optimization.
- Rob Stanieich Vice President of Engineering
 - Previously the Senior Manager of Test Engineering for Maxtor Corporation. Rob managed a group of 18 engineers and technicians supporting domestic and overseas operations. Rob brings mechanical product and test development expertise, with a keen understanding of commercialization of high volume manufacturing.

Keystone Precision and Engineering
Proprietary and Confidential

3

Management Roles



- Anthony Serino
 - Front and Back End Operations
 - Supply Chain Management
 - Purchasing and Planning
 - Finance and Administration
- Gary Ainsworth
 - Sales, Marketing, and Business Development
 - Quality Systems Lead
 - Commercialization Consulting for:
 - Out-Sourcing and Supply Chain Strategy
 - Metrology, Quality Systems, and Test Strategy
- Rob Stanieich
 - Technical lead for design services
 - CAD/CAM
 - Mechanical Design Service Consulting
 - Test System Development
 - Project Management

Keystone Precision and Engineering
Proprietary and Confidential

4

Where We Succeed



- Keystone's foundation of success is rooted in providing complex machine parts to the following Industries:
 - Non-Invasive Medical Device
 - Vacuum
 - Microwave, Defense, and Communication
 - Contract manufacturers
 - Semiconductor Equipment
 - Motion Control
 - Industrial Instrumentation
- Loyal customers have become accustomed to the Keystone's excellent quality, service, and delivery
- Keystone's founder Ron Long's philosophy states:

*"Quality starts with the first part.
If it's wrong, the customer won't be happy."*

Keystone Precision and Engineering
Proprietary and Confidential

5

Our Latest Project!



Keystone Precision and Engineering
Proprietary and Confidential

6

Some Samples of our Work



Keystone Precision and Engineering
Proprietary and Confidential

7

Platforms



Fadal Precision CNC
Vertical Milling



NEW!

Starrett CMM
with OpenDMIS



NEW!

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

Keystone Precision and Engineering
Proprietary and Confidential

8

What We Provide

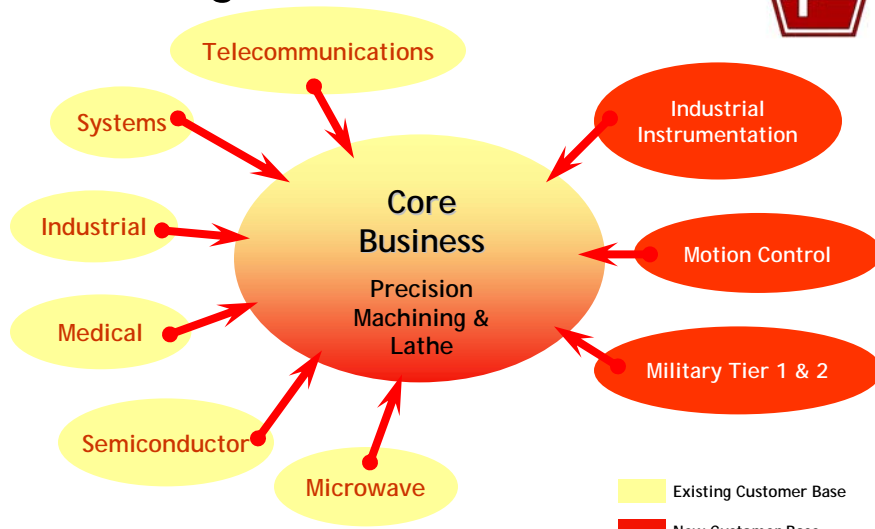


- Precision machining and manufacturing of close tolerance cylindrical and complex machined parts
 - Stainless Steels, Nickel Alloys, Super-Alloys, Copper, Brass, and Bronze are a specialty
- Early Customer Design Involvement ensuring:
 - Design for Manufacturing, Machining, Test, and Reliability
- Mechanical Design and CAM: ProEng, SolidWorks, and CAMWorks model and drawing support
- CAM Design Support
 - We are always willing to assess existing parts for cost reduction and improved quality
- Contract Manufacturing, Outsourcing, Supply Chain Consolidation, and Program Management
- Statistical Engineering, Quality Systems, and Metrology
- Operations, Outsourcing, and Commercialization Consulting
 - Currently consulting with Corning, Inc. on next generation display technology
- Design feedback during early stage of Product Life Cycle using modeling and metrology (CMM)

Keystone Precision and Engineering
Proprietary and Confidential

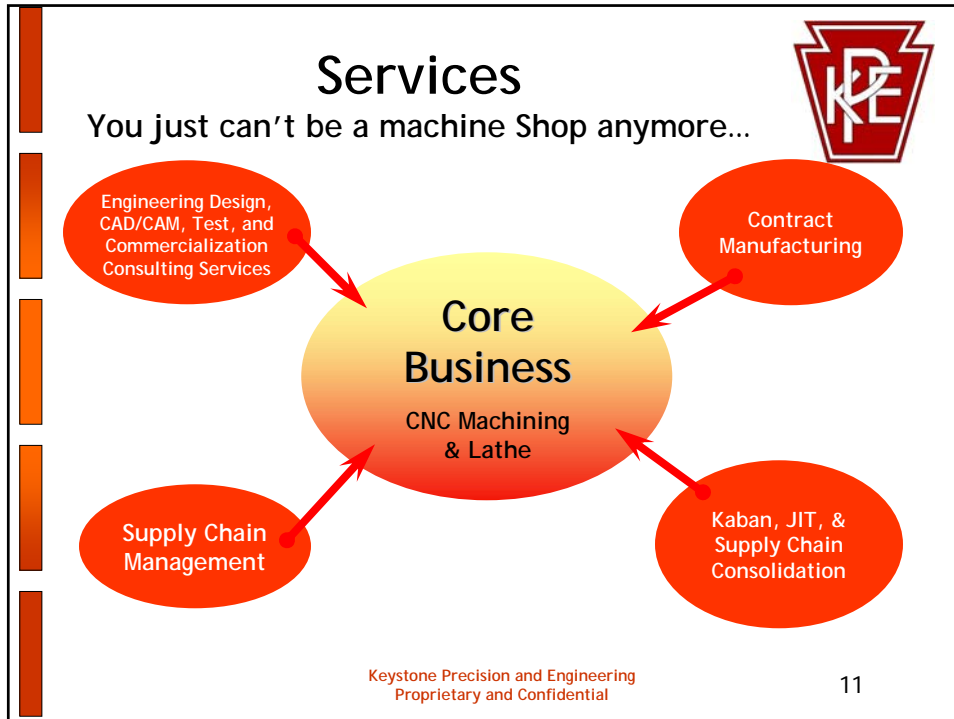
9

Existing and New Markets



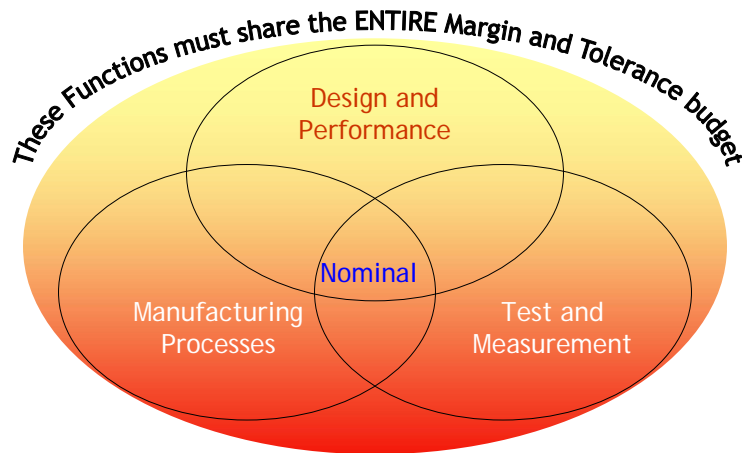
Keystone Precision and Engineering
Proprietary and Confidential

10



- ## How Keystone Can Help
-
- Resource multiplier of experienced and proven professionals in development and manufacturing
 - Proven product, process, and test process development methods honed in high volume precision industries that can work with customers to ensure highly capable quality product realization
 - Manufacturing expertise which enables high process capabilities and low DPPM, based on sound metrology, and excellent *Time to Volume* manufacturing performance
 - Commercialization Process based approach has proven successful and to be *Industry Independent*
 - These methods accelerate *Time to Profit*
- Keystone Precision and Engineering
Proprietary and Confidential
- 12

What we Believe: The Balance of Powers



Keystone Precision and Engineering
Proprietary and Confidential

13

Quality Methods



- Management of the customer quality plans including standard Statistical Process Control Methodologies
 - Traditional Systems developed by:
 - Shewhart, AT&T/Westinghouse, IBM, and Box and Hunter
 - Process Control, Metrology Characterization, ANOVA, and DOE
 - Have lead internal, out-sourced manufacturing, and supply chain SPC control strategies and implementation
- Journeymen and Masters/Coach Level Shainin Statistical Engineering
 - Exceptional methodology for problem solving and accelerating product development
 - Methods successfully deployed from Fortune 500s to mid-caps to start-ups
- Traceable Calibration of metrology, with offsite database
- Ask how we can help your product, process, and test development organizations, and your supply chain control

Keystone Precision and Engineering
Proprietary and Confidential

14

In Closing



- Thank you again for your interest
- Please let Keystone Precision & Engineering assist you with your precision manufacturing and engineering service needs