



Precision Gear Capabilities



PIC Keeps You On Target



Unparalleled Technical Support. Documented Quality.



PIC Design provides precision fine pitch gearing solutions for mission critical applications in industries including medical and dental equipment, military and defense, laboratory equipment, and precision industrial controls. Our unparalleled product quality, responsiveness, and technical support provide our customers solutions to their toughest precision gearing challenges.

PIC Design has been a leader in precision industrial components for over 60 years. Based in Middlebury, CT PIC Design is a division of RBC Bearings, Inc. (NASDAQ: ROLL). PIC Design's gear manufacturing and applications engineering experience combined with RBC Bearings' global technical resources provide you unsurpassed capability to address your application requirements.









Product Design, Testing and Support:

Technical Support

- ✓ Applications Engineering
- ✓ Design Engineering
- √ 3D CAD Models
- ✓ Metallurgical Analysis

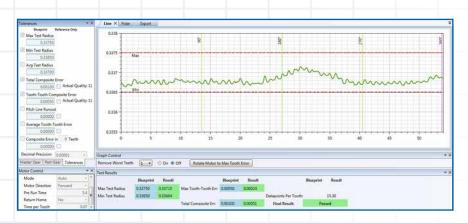
Verified Quality

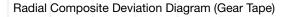
- ✓ Coordinate Measuring Machine
- ✓ Dual Flank Composite Analyzer
- ✓ Material Certification
- Process Certification



Coordinate Measuring Machine (CMM)

Gear Analysis:

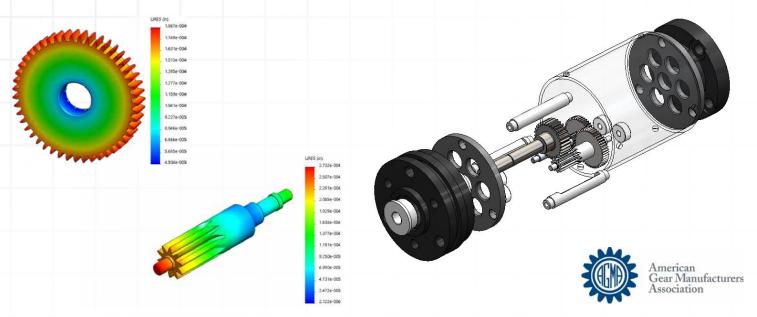






Dual Flank Composite Analyzer

Thermal Analysis:



PIC Design offers solutions for applications including:



Medical & Dental

- √ X-ray/Imaging Equipment
- √ Medical Devices
- √ Surgical Robots
- ✓ Dental CAD/CAM
- ✓ Optometry Diagnostics



Laboratory Equipment

- ✓ Auto-Samplers
- ✓ Spectrometers
- Centrifuges
- √ Chromatographs
- √ Microscopes



Military & Defense

- √ Targeting Systems
- ✓ Drone Control Systems
- ✓ Night Vision Systems
- ✓ Guidance Systems
- ✓ Antennas
- ✓ Periscopes



Precision Optical Systems

- ✓ Positioning/ Stabilization Systems
- √ Gimbals
- ✓ Pan/Tilt Systems
- √ Focus/Zoom Systems

PIC Design is...

- ✓ ISO 9001:2015 Registered
- √ DFARS Compliant
- ✓ DDTC Registered/ITAR Compliant
- √ RoHS Complaint
- √ R.E.A.C.H. Compliant



Industrial Controls

- √ Valve Positioners
- √ Slip Rings
- ✓ Marking/Printing Systems



Standard Gear Types:



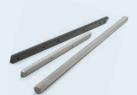
Spur Gears



Worms & Worm Wheels



Bevel Gears



Racks



Helical Gears

Specialty Gear Types:



Anti-Backlash Gears



Segment Gears



Cluster Gears



Ring Gears

Gear Assemblies:



Speed Reducers, Gear Heads, Worm & Worm Wheel Assemblies, Miter/Bevel Gear Boxes

Pitch & Size Capability:

Inch

Pitch: 16-120 Pitch Diameter: 0.375"-15.500"

Metric

Pitch: 1.00-0.25 "Module"

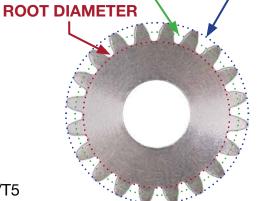
Pitch Diameter: 10mm – 400mm

Precision Class:

AGMA Q10, Q12, Q14 ISO/DIN C7/T7, C6/T6, C5/T5

OUTER DIAMETER





Materials:

- ✓ Aluminum
- √ Stainless
- ✓ Brass/Bronze
- ✓ Engineered Plastics

Special Coatings and Finishes:

- ✓ Dicronite®**
- ✓ Dry Film Lubricants
- ✓ Electroless Nickel
- Hard Coat Anodizing
- ✓ Passivation

**Dicronite® is a registered trademark of Lubrication Sciences International.







Your One Stop for Standard and Custom Precision Mechanical Components.

PIC Design has been supplying customers with precision fine pitch gears for over sixty years. In addition to standard and special build-to-print gears and gear assemblies, PIC Design offers a complete selection of premium quality precision mechanical components, including:



Dowel Pins

Slip Fit. Press Fit. Hardened and Ground



Shoulder Screws

Slotted Head, Socket Head, Philips Head



Shafting

Hardened, Ground, Ultra Precision, Extensions, Pre-Drilled, Support Rails



Set Screws

"No-Mar," "Silver-Grip," Cup Point, Brass Tip



Lead Screws & Nuts

Rolled Lead Screws – Acme, Stub Acme, modified thread. Variety of Nuts – Power, Anti-Backlash, Adjustable Compliant, Flanged



Precision Hardware

Captive Screws, Cranks/Knobs, Knurled Thumb Screws & Nuts, Motor Mount Cleats, Retaining Rings, Spacers, Standoffs, Springs, Swivel Studs & Nuts, Washers, Woodruff Keys



Clutches, Couplings & Brakes

Power On/Power Off Brakes, Slip & Roller Clutches, Bellow Couplings, Spider Couplings, Universal Lateral Couplings, Wafer Spring Couplings, Precision Universal Joints



Belts & Pulleys, Chains & Sprockets

No-Slip[™] Positioning Belts (Positive Tooth Engagement), No-Slide[™] Timing Belts (Self Tracking), Traditional Timing Belts, Round Belts, .1425" & .250" Pitch Stainless Steel Chain, Machined Pulleys & Sprockets



Linear Motion

Complete Linear Systems & Components, Ball Slides, Crossed Roller Slides, Linear Stages, Positioners, Linear Rails, Slide Guides



Bearings

Instrument Ball Bearings, Bronze Sleeve Bearings, Thrust Bearings, Linear Bearings, Plastic Bearings, Rod Ends, Spherical Plain Bearings



PIC Keeps You On Target

www.PIC-Design.com

800.243.6125



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