

PKB Capabilities



We are your global source for the production and procurement of miniature ball bearings. 

PKB
PACAMOR KUBAR BEARINGS

PKB Capabilities



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 07019-2004-AQ-HOU-ANAB Initial certification date: 09 June, 2004 Issue Date: 01 June, 2025 Expiry Date: 31 May, 2028

This is to certify that the management system of
Pacamor Kubar Bearings
145 Jordan Road, Troy, NY, 12180, USA

has been found to conform to the Quality Management System standards:

AS9100D and ISO 9001:2015
(technically equivalent to EN9100:2018 and JISQ9100:2016)

and has been audited in accordance with the requirements of AS 9104/1:2012. DNV Business Assurance USA Inc. is accredited under the Industry Controlled Other Party (ICOP) Scheme.

Type of certification structure: Single Site

This certificate is valid for the following scope:

The Manufacture of Miniature and Precision Ball Bearings

- ISO9001: 2015
- AS9100: 2016
- FAA TSO C-149 AIRCRAFT BEARINGS
- DFARS-COMPLIANT
- APPROVED DOMESTIC MANUFACTURER
- DSCR GOLD MEDAL SUPPLIER AWARD WINNER
- TWO IN-HOUSE FAA DMIR's

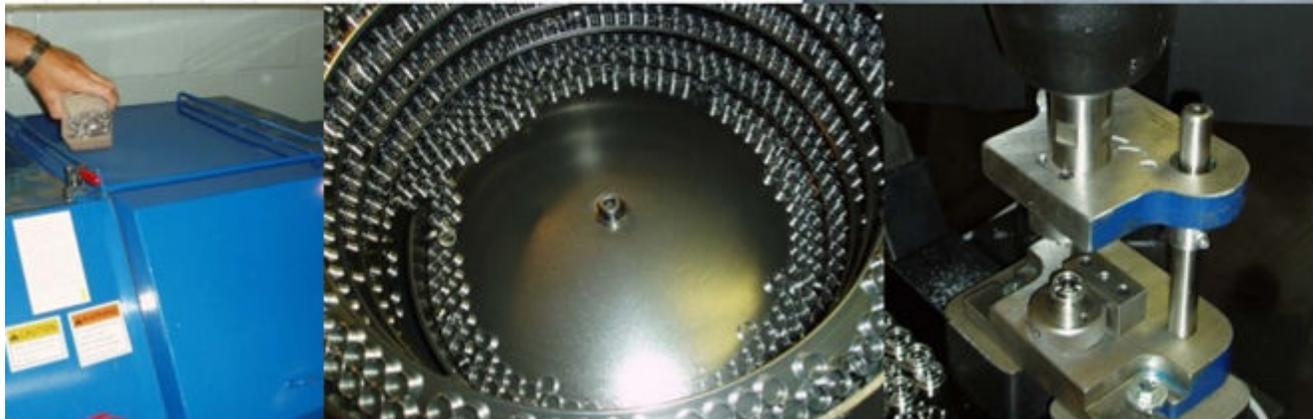


CERTIFIED
FAA TSO c149 Aircraft Bearings

PKB Capabilities

Factory Overview – Capacity

- ◆ 13,250 Square Feet
- ◆ 1,200 Sq Ft Cleanroom
- ◆ ISO 9001: 2015 & AS9100: 2016
- ◆ 3 Shift Capability



PKB Capabilities

Factory Overview – Engineering

- ◆ Applications
- ◆ Quality
- ◆ Methods
- ◆ Bearing Analysis
- ◆ Tool Room
- ◆ Prototype Shop



PKB Capabilities

Factory Overview – Products

◆ Product Description

- Stainless Steel Miniature & Instrument Ball Bearings
- High-Speed Specialty Bearings
- Inch & Metric Sizes

◆ Applications

- Aerospace
- Medical
- Flow Meters
- Instruments



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PKB Capabilities

Factory Overview – Materials

◆ Rings

- Through-Hardened 440C Bearing Steel

◆ Retainers

- Crown 410SS
- Ribbon 305SS (2 piece)
- Machined
 - ◆ Phenolic
 - ◆ Torlon (Polyamide-imide)
 - ◆ PGM (Polytetrafluoroethylene)
 - ◆ Vacuum Impregnated Phenolic
 - ◆ Other materials available upon request



sales@pacamor.com

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Factory Overview – Size Range

- ◆ Minimum ID (Bore) 0.0400"
- ◆ Maximum OD 1.125" (28.57mm)
- ◆ Tolerances ABEC 3 to ABEC 9
- ◆ Special Features
 - Preloaded Pairs
 - ◆ Duplex
 - OD Features
 - Coatings



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Factory Capabilities - Manufacturing

◆ Turning

- Automatic Multi-spindle
- 1 1" machine
- 4 7/16" machines
- 1 5/8" machine

◆ CNC Lathe – Cincom A32

- Complex designs
- Fast - 45m/min
- Ultra tight tolerances

◆ Heat Treat

- Subcontracted to Nadcap approved vendor

◆ Passivation

- Subcontracted to Nadcap approved vendor



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The Citizen Cincom L12 is a high-speed, 12mm Swiss-type CNC lathe designed for precision machining of small-diameter parts, featuring a detachable guide bushing for handling both long and short workpieces.

Our factory features two of these L12-series CNC's, along with the A32 model.

- Capacity: 12 mm max machining diameter (0.473")
- Machining Length: 135 mm (5.9") per chuck.
- Main Spindle Speed: 15,000 RPM.
- Sub-Spindle Speed: 10,000 RPM.
- Tools: Max 27-28 tools, including rotary tools (10,000 RPM).
- Axes: 7-axis control.
- Rapid Feed Rate: 35 m/min.

PKB Capabilities

Factory Capabilities – Manufacturing

- ◆ Face Grind
- ◆ One Double Disk Grinder
- ◆ Plating & Coatings
 - Subcontracted
- ◆ Outer Diameter Grind
 - Centerless Through Feed
- ◆ Bore (ID) Grind
 - 6 Internal Grinders
 - Straight Dressers



PKB Capabilities

Factory Capabilities - Manufacturing

- ◆ Outer Race Grind
 - 6 Internal Grinders
 - Radius Dressers
- ◆ Flange and External OD Features
 - 2 Flange Grinders
- ◆ Inner Race Grind
 - 3 Inner Race Grinders
- ◆ Hone
 - 6 Internal Hones
 - 6 External Hones
- ◆ Deburring
- ◆ Rotary Tumbler
- ◆ Vibratory Bowl



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Factory Capabilities - Metrology

- ◆ Air Gauging
- ◆ Roundness Analyzer
- ◆ Surface Finish & Contour Machine
- ◆ Optical Comparator
- ◆ Noise Tester
- ◆ Assortment of Hand Gauges



Contact us to set up a
factory tour. (518)283-8002
- sales@pacamor.com

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Factory Capabilities - Assembly

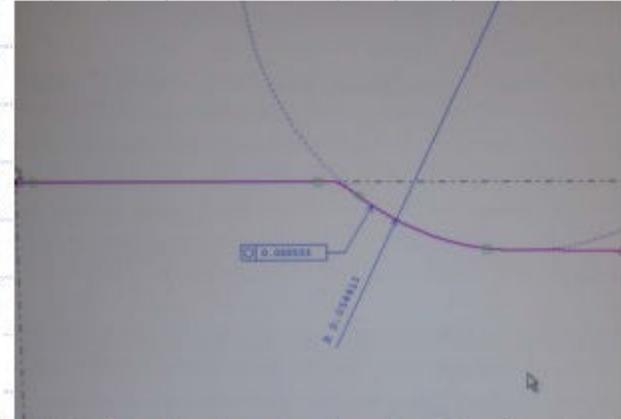
- ◆ Class 10,000 Soft-wall Cleanroom
- ◆ Class 100 Clean Benches
- ◆ 1200 Sq Ft Controlled Environment



PKB Capabilities

Factory Capabilities - Cleanroom

- ◆ Vibrac Torque Tester
- ◆ High Speed Centrifuge
- ◆ Heated Vacuum Chamber
- ◆ Nitrogen Purge Packaging
- ◆ Closed Loop Cleanroom Wash System
- ◆ Pneumatically Controlled Anti-Vibration Tables



PKB Capabilities

Factory Capabilities - Packaging

- ◆ Vial
- ◆ Pill Pack
- ◆ Individual Box
- ◆ Individual Pack per MIL-P-197
- ◆ Individual Kraft Bag per MIL-B-117
- ◆ Nitrogen Gas Backfill Packaging



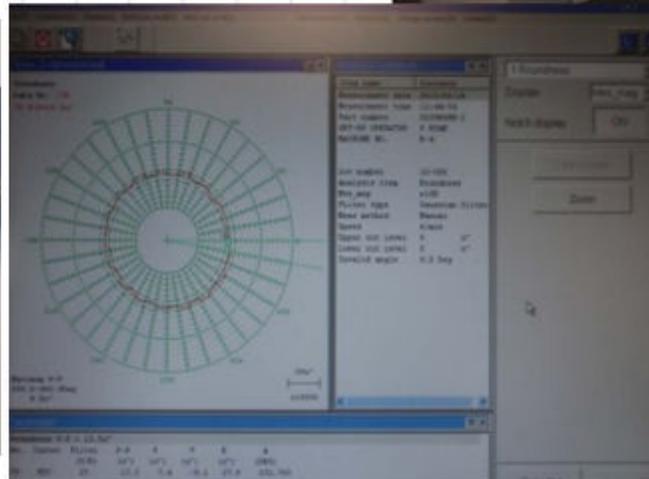
PACAMOR
KUBAR
BEARINGS



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Factory Capabilities - Services

- ◆ Services beyond bearing manufacturing include:
 - ◆ Re-lubing
 - ◆ Kitting
 - ◆ Failure Analysis
 - ◆ Quick Prototypes



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