The RABIT is an exceptional, patented inspection gauge to measure spherical bearing wear during quality inspections and overhauls. The RABIT tool is light and nimble, fitting into the hand of the inspector and can be deployed “on wing” without complete part removal, or also on the bench during repair and overall. Other uses include initial quality inspection and parts validation.

Benefits

• On-wing inspection
• Save costly flight test time
• Accurate (+/- .001) inch
• Cost effective

Features

• Light weight and nimble
• Fits in the hand of the inspector
• Measures axial and radial play
• Deployed on-wing or on the bench
Axial Inspection Tool
Step by Step Overview

1. Remove Axial Indicator Tool (AIT) from case and attach the correct bore guide
2. Remove any collected residue from magnets on AIT
3. Apply AIT to bearing by centering the middle magnet of AIT onto the bearing
4. Magnet should attach to bearing
5. Align AIT perpendicular to bearing rod face and press AIT body down to close magnets onto the face of the bearing
6. While holding the bearing, zero out the Mitutoyo dial indicator. Then press bearing upward with thumb to measure play in bearing
7. Remove thumb, twist bearing ¼ turn and repeat, looking for greatest measurement

Next Bearing:
8. Remove outer magnets of AIT from face of the current bearing
9. Remove bore magnet from the current bearing to completely disconnect
10. Exchange the current bearing bore guide
11. Ensure the new bore guide is tightened into AIT
12. Repeat steps 3-7 above

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Radial Inspection Tool
Step by Step Overview

**Inspection**
1. Remove Radial Indicator Tool (RIT) from case and check for function of rail and dial indicator
2. Loosen knurled nut
3. Open V block clamp
4. Place RIT pin through bearing aligned in V block groove
5. Close V block and tighten, align RIT pin perpendicular to flat face of bearing
6. Pull RIT pin as far towards middle of bearing as possible
7. While holding pin in pulled position, zero out the Mitutoyo dial indicator
8. Press slide rail in opposite direction with thumb and read dial indicator for play in bearing

**Next Bearing:**
9. Remove bearing from RIT
10. Unthread the current bore bearing pin from rail
11. Thread new bore bearing pin into rail
12. Check next bearings by repeating steps 3-8 above