Arbor Inspection

Product

Kodak® ThermoFlex® Wide II Sleeve

Background

Repeated use and possible misuse of the arbor may cause the performance of the arbor to degrade over time. Arbors that are exchanged frequently should be inspected more often.

This procedure explains how to determine if the arbor is in need of repair or replacement.

Parts required

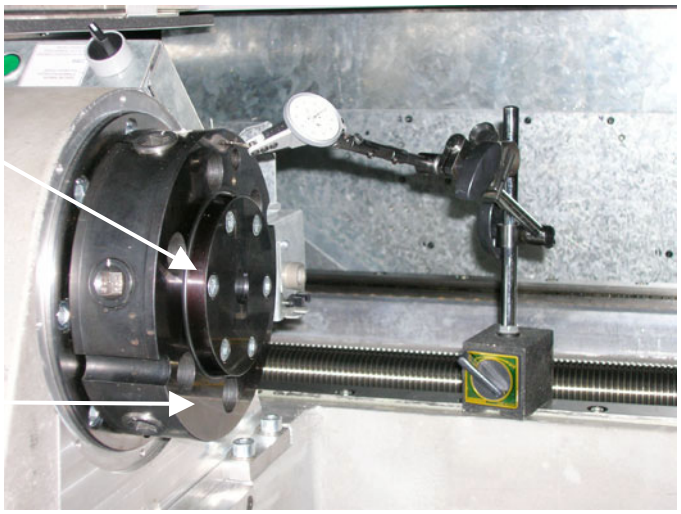
Part Name	Quantity
Half round or oval medium grit (~320 grit) aluminum oxide abrasive file or polishing stone.	1
Flat medium grit (~320 grit) aluminum oxide abrasive file or polishing stone.	1
Isopropyl alcohol (IPA).	
Lint-free cloth.	

Tools required

1. Dial indicator with a resolution of 2 µm or better.
2. Dial indicator stand with a magnetic base.

Inspecting the arbor

1. With the aid of the transport cart, remove the arbor from the device. For instructions on how to do this, see the *Operator Guide* for this device.
2. Mount the dial indicator's magnetic base to the front carriage track near the headstock and mount the indicator to measure the runout on the face of the headstock spindle. For help setting up the dial indicator and magnetic stand, see steps 6 and 7 of the procedure: *Finding an arbor's optimum position*.



3. Check the runout on the face and the taper of the spindle. If the runout is greater than 5μm, the spindle has been damaged and requires attention. Contact Kodak product support and do not proceed with the remainder of this procedure until the spindle problem has been addressed.
4. Check the hydraulic expanding sleeves for severe dents, cracks, or deep scratches. If there are any, the arbor must be sent for sleeve replacement and the remainder of this procedure need not be completed.
5. Check the mounting face and taper for debris and other particles. Use a lint-free cloth and IPA to remove any dirt or debris.
6. Check the mounting face and taper of the arbor for damage. Look particularly for deep scratches that have edges raised above the surface by running a finger or a straight edge over the surface. Be careful to not scratch the surface if a hard metal tool is used.
   Using a circular motion, carefully remove any deep scratches with a flat abrasive file. Only file enough to remove the raised edges. If they are on the inside taper, use a half round or oval abrasive file to remove the raised edges.
7. Clean the face and taper of the spindle with a lint-free cloth and IPA.
8. Install the arbor onto the device.
9. Mount the dial indicator's magnetic base to the front carriage track and mount the indicator to measure the runout on the headstock hydraulic sleeve of the arbor. For help setting up the dial indicator and magnetic stand, see steps 6 and 7 of the procedure: *Finding an arbor's optimum position*.



10. Measure the runout of the hydraulic sleeves on the headstock side and the tailstock side. The full indicator movement on each side should be less than 15 μm.
    If it is between 15 and 20 μm, it may cause imaging related problems such as focus errors.
    If it is greater than 20 μm, remove the arbor and repeat steps 5-7.
11. Install the arbor onto the device and repeat step 9. If the runout is still greater than 20 μm, the arbor may be damaged and need repair or replacement. Contact Kodak product support for details.

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See also	Finding an arbor's optimum position ThermoFlex Wide II Operator Guide
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