Adjusting the Nut Car Eccentric Bushing

Applies to

☑ ThermoFlex Wide II

Background

The nut car supports the ball screw nut as the head travels along the ball screw. The nut car supports the nut by means of two bearings mounted on adjustable eccentric hubs. These are the same eccentric hubs used on the pulley side drum balancing assembly.

Tools and parts

- 19 mm wrench
- 6 mm Allen key

Steps

1. Unclamp the nut and from the head and flextube at the nut coupling (horizontal screw).
2. Move the nut car to the away end of the ball screw (drive end).
3. Align the nut bearings with the center pillow block mounting screw at the drive end pillow block on the headstock side of the device.
4. Adjust the eccentric hub with a 19mm wrench until the car is level as referenced to the top of the tracks. Tighten the screw with a 6mm Allen key.
5. The top of the nut car should be approximately 27 to 28 mm above the track in the machined car case and approximately 31 mm above the track in the sheet metal car case.

Notes

At proper adjustment, the bearings outer races should just be able to spin by turning with your thumb, when at the center clamp bolt of the drive end pillow block. The top of the car should also be the same distance above the top of each track.

Technical contact

Malcolm Lidster

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