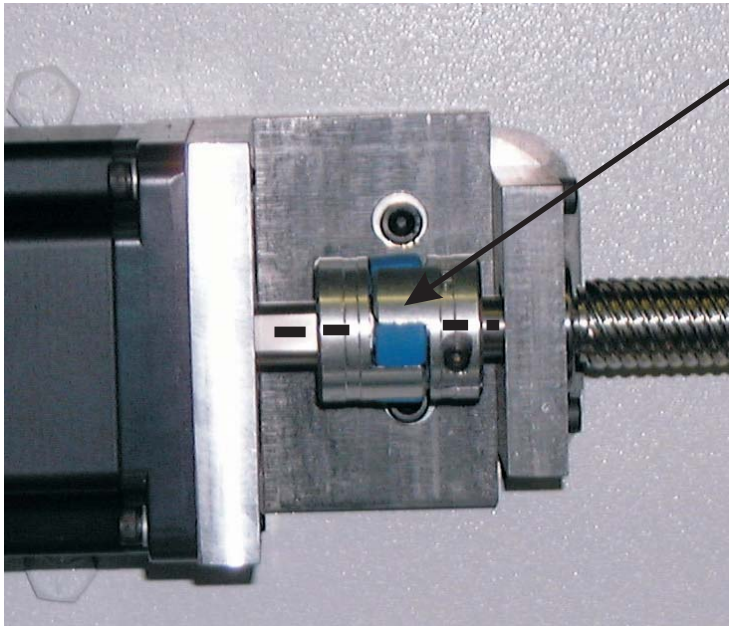


Axis Drift or Slop



Motor Coupling

Motor couplings usually are responsible for machine drift. It is caused by slippage at either side of the coupling. The best way to confirm this is to use a fine marker and put alignment marks on both ends of the coupling. After running the machine, check for mis-alignment of the marks

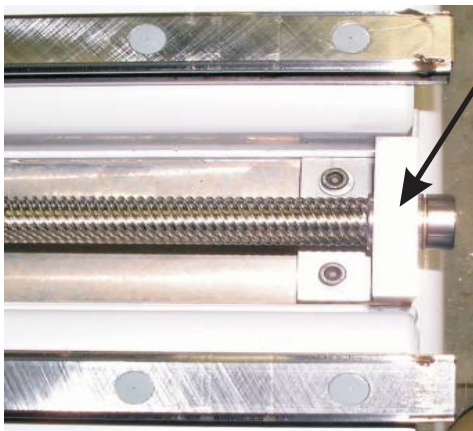


Drive Nut

If the drive nut is worn or not tensioned properly it can cause slop or drift. The drive nut is under the carriage. If the nut is worn-out it can jump and cause drift. If the nut's anti-backlash system is not tensioned properly it will cause slop in the axis. Have one person try to move the axis by hand while a second person watches for movement. One person will not be able to see the movement. To remove or access the nut, unbolt the drive bar and slide the carriage way from the nut.

See "X Drive Nut Removal"

See "Kerk Screw" for nut adjustment.



End Bearing Mount

The end bearing can cause slop if the assembly is loose. Again, using two people, move the carriage manually and look for movement at the end of the screw. See "End Bearing Assembly" for adjustment.