

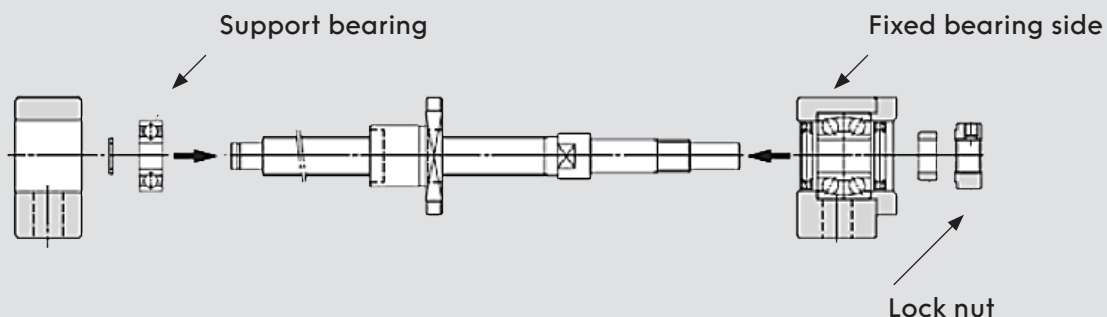
Considerations for ball screw installation.

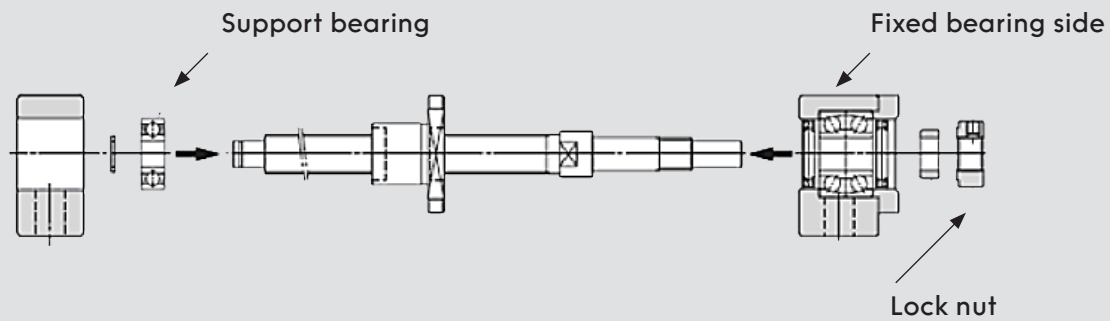


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These are general guidelines – each machine must be assessed as a specific case.

1. Remove machine covers and clean thoroughly.
2. Before replacing the ball screw, check the following:
 - That the lubrication system is functioning properly.
 - That the ball screw is free of contaminants.
 - That the protective covers for the ball screw are intact.
 - That the ball screw and bearing units are correctly aligned.
 - That the ball nut and bearing assemblies are securely fastened.
 - That there is no play in the ball nut or bearing assemblies.(In some cases, replacing only the bearings may be sufficient.)
3. Keep the new ball screw in its packaging until installation begins.
4. Mount and align the bearing on the fixed side.
5. Always replace the bearings when replacing the ball screw.
6. Tighten the lock nut on the bearing – refer to the specified torque.
7. Mount the support bearing onto the screw and insert it into the bearing housing.
8. Ensure that no dirt or contaminants come into contact with the ball screw.





9. Insert the ball nut into its housing and hand-tighten the mounting screws.

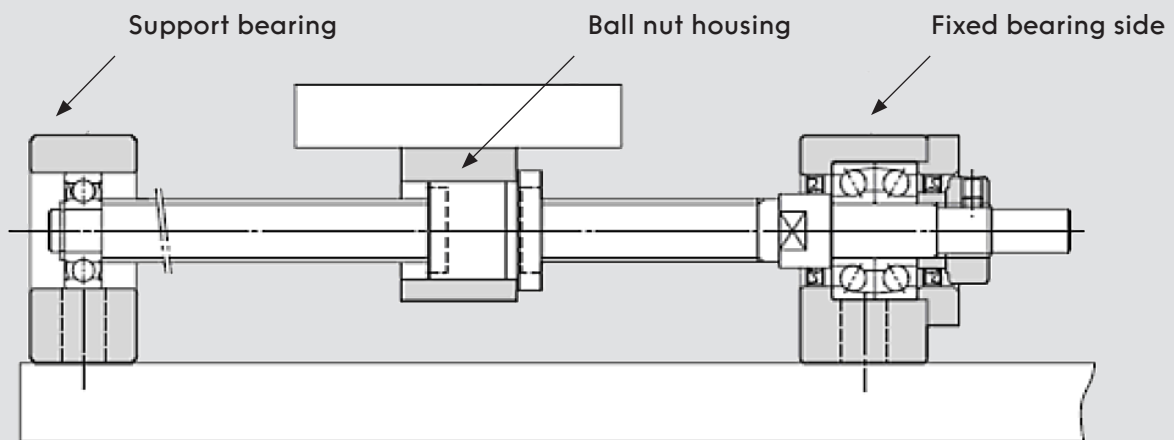
10. Fully tighten the bearing on the fixed side (typically the drive side).

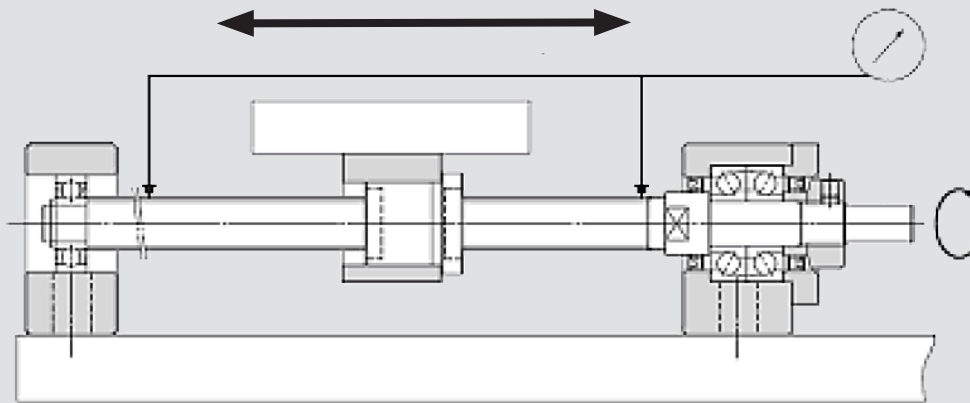
11. Move the table back and forth, then position it as close as possible to the fixed bearing side.

12. Then, tighten the lock nut.

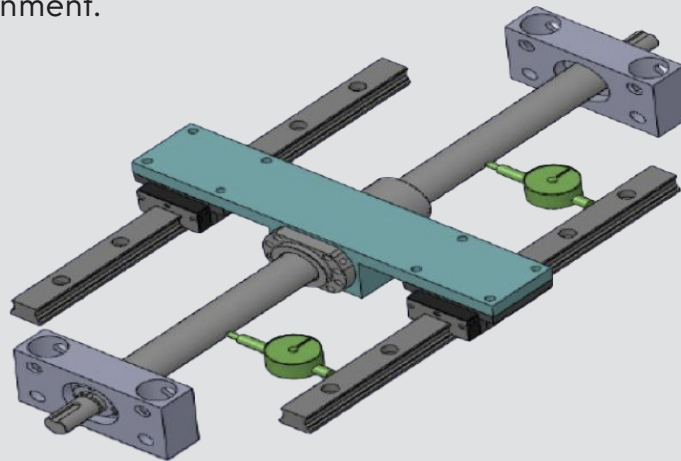
13. Move the table back and forth again to adjust for any misalignment.

14. Finally, tighten the support bearing.





15. Check alignment.



NOTE: Maximum allowable deviation between linear guide and ball screw: 0.01 mm

16. Once all checks are complete, ensure all screws on the bearings and ball nut are properly torqued.

17. Verify that lubrication is being supplied to the ball screw and nut.

18. Finally, install the motor with a coupling.

