

What is this ?



The images show various sizes of **ball screw assemblies**.

A ball screw is a **mechanical linear actuator** that translates rotational motion into precise linear motion with minimal friction.

It consists of a threaded shaft (the screw) and a nut that contains ball bearings recirculating inside it.

The ball bearings reduce friction, increase efficiency, and allow for high accuracy in motion.

Key features visible in the image:

- **Threaded screw shaft** with helical grooves.
- **Ball nut housing** (the central block with mounting holes) where the ball bearings circulate.
- **Grease fitting/port** (the small red/orange cap) for lubrication.
- High-strength **steel construction** for durability and load handling.

Typical applications:

- CNC machinery
- Robotics
- Precision positioning equipment
- Industrial automation