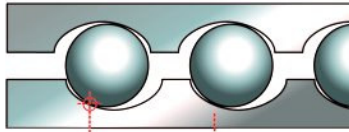
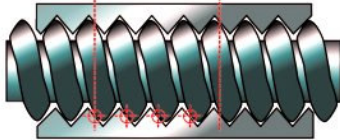


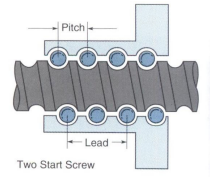
ROLLER SCREW vs BALL SCREW



Ball Screw Design



Roller Screw Design

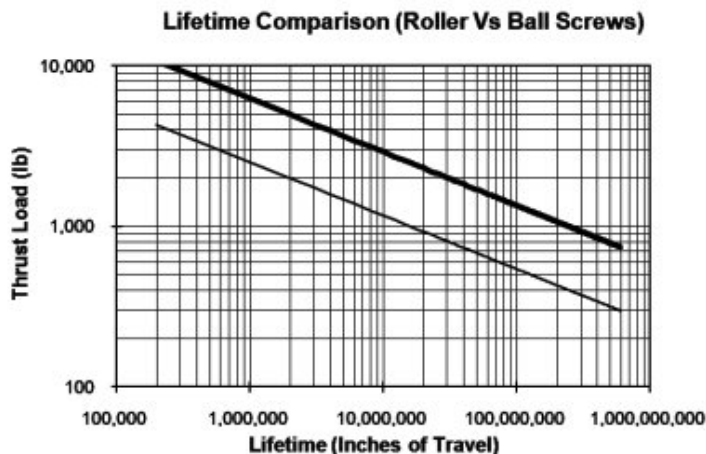


ROLLER SCREW

- High Efficiency Screw Mechanism - Designed in late 1940s
- Many performance advantages to other screw technology
- Much less space for Equal Contact Area- No Conflicting Friction
- More contact points per area
- Continuous contact -Smooth running
- Higher rotational speed up to 5000 rpm
- High acceleration > 1,5 g
- Higher stiffness through number of parts

Adjacent ball bearings within a ball screw have conflicting friction leading to heating and wear. The planetary design of a roller screw does not exhibit this problem. Travel Life Comparison to Ball Screws For similar-sized screw diameters, a roller screw will have many times the expected service life of a ball screw.

Life Time Comparison



Life Time:

Roller screw = 10 X Ball screw