

Swivel Speed Limit

Ball screw work capacity is limited by the critical swivel speed:

$$n_{kr} = 5 \cdot 10^7 \frac{d}{l^2} V k, \quad n_{kr}^* = \frac{80000}{d}$$

d — ball thread minor diameter, mm;
 l — unbearing screw length, mm;
 V — ratio of sealing method;
 k — reserve ratio (k=0,5...0,8).

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Swivel speed limit is the lowest value between n_{kr} and n_{kr}^* .

$n_{kr} < n_{kr}^*$

