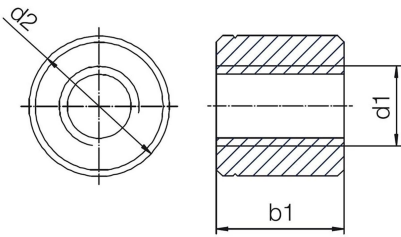


drylin® trapezoidal lead screw nut, multi start,
A180SRM

A180SRM-3024TR12X6P3



drylin® trapezoidal lead screw nut, multi start,
A180SRM

- Material: iglidur® A180
- Thread direction: Right-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- Cylindrical lead screw nut
- Multi start

Product description

Introducing the drylin trapezoidal lead screw nut, A180SRM by igus. Crafted from FDA-compliant iglidur A180 material, this nut is ideal for food and pharmaceutical applications. It offers a robust, lubrication-free performance, withstanding temperatures up to +90°C and permanent surface pressures up to 3.5MPa. Enjoy quiet, vibration-free operation and exceptional durability in challenging environments. Choose the A180SRM for reliable, long-term use where hygiene and performance matter.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	1178 N

General properties

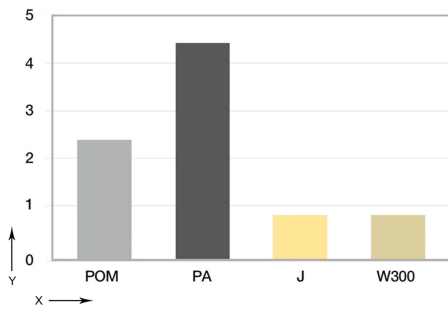
Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
Weight	29.9 g
With spanner flat	No

Dimensions

Thread size	TR12X6P3
Ø d1	12 mm
Ø d2	30 mm
b1	24 mm
Effective supporting surface	396 mm²



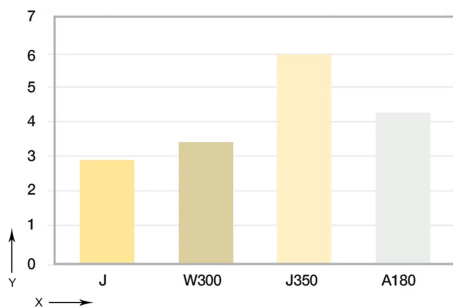
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

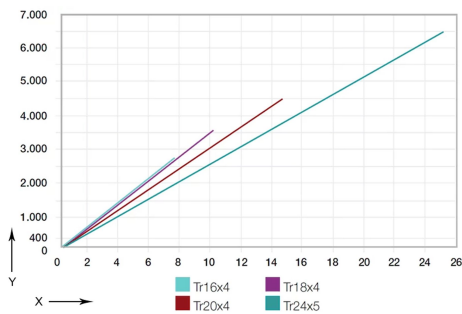


Wear test on a VA lead screw

Stroke 140 mm, 50 N, lead screw VA rolled, 450 rpm

x = Different materials

y = Wear [mg/km]



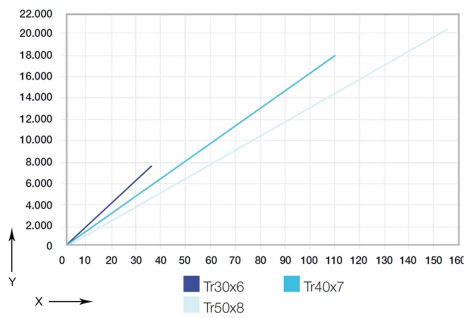
Required drive torque lead screw modules Ø16 to Ø24

Assuming $\mu = 0.25$, without considering the lead screw supports

x = Torque [Nm]

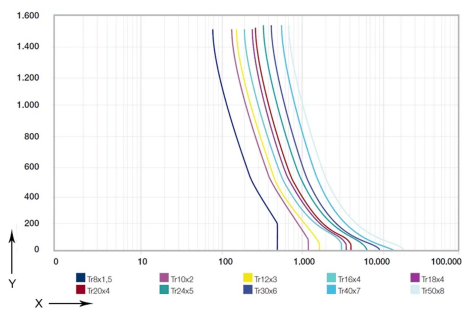
y = Load [N]



**Required drive torque lead screw modules Ø30 to Ø50**Assuming $\mu = 0.25$, without considering the lead screw supports

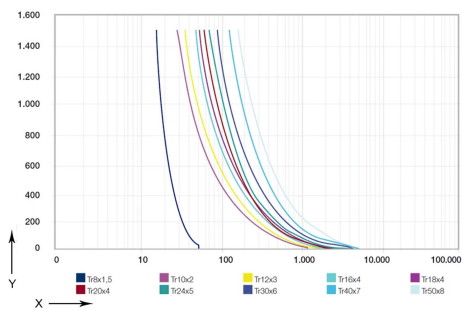
x = Torque [Nm]

y = Load [N]

**Maximum dynamic load for lead screw units with 10% ESD**

x = load [N]

y = speed [rpm]

**Maximum dynamic load for lead screw units with 100% ESD**

x = load [N]

y = speed [rpm]