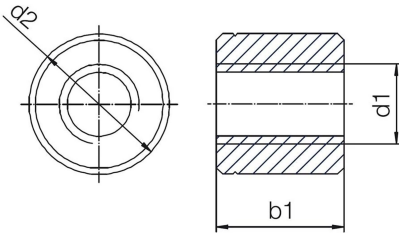


drylin® trapezoidal lead screw nut with spanner flats, A180SRM

A180SRM-172220TR10X2



drylin® trapezoidal lead screw nut with spanner flats, A180SRM

- Material: iglidur® A180
- Thread direction: Right-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- With spanner flat
- Cylindrical lead screw nut with flange

Product description

Introducing the drylin trapezoidal lead screw nut A180SRM by igus, crafted from FDA-compliant iglidur A180 material, making it ideal for food and pharmaceutical applications. This durable, lubrication-free nut ensures quiet and vibration-free operation, withstanding temperatures from -20°C to +90°C. Its robust design features spanner flats for easy installation. Experience the reliability and performance of this high-performance polymer, perfect for low to medium load environments.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	900 N

General properties

Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	69 g
With spanner flat	Yes

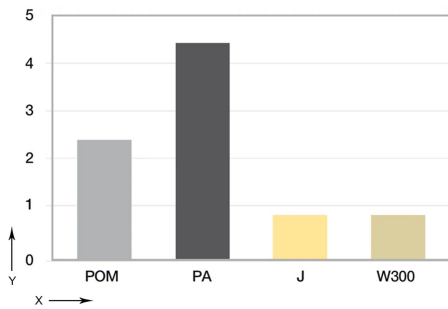


Dimensions

Thread size	TR10X2
Ø d1	10 mm
Ø d2	20 mm
b1	20 mm
Effective supporting surface	283 mm²
SW	17 mm



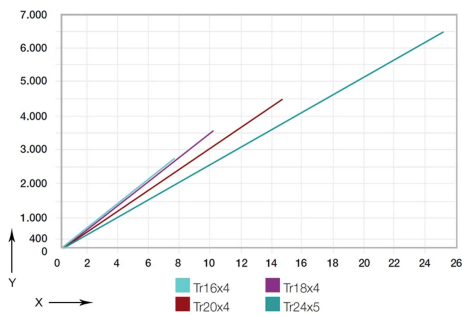
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

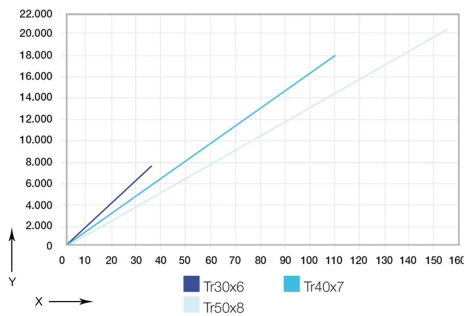


Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



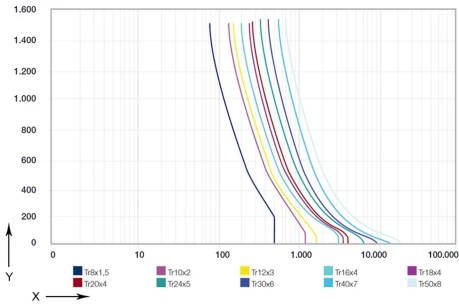
Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

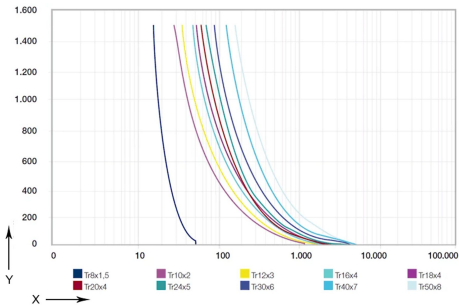
y = load [N]





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]