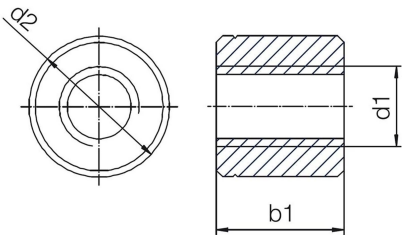


drylin® high helix lead screw nut, A180SRM
A180SRM-1413SG05X5



drylin® high helix lead screw nut, A180SRM

- Material: iglidur® A180
- Thread direction: Right-hand thread
- Thread type: High helix threads
- Design: Standard
- Cylindrical lead screw nut

Product description

Introducing the drylin high helix lead screw nut, A180SRM, crafted from iglidur A180, a high-performance polymer that's FDA-compliant for food and pharmaceutical applications. This cylindrical lead screw nut is designed for low to medium loads, ensuring durability in moisture-rich environments. Enjoy the benefits of a lubrication-free, maintenance-free operation with chemical resistance and quiet travel. Ideal for applications up to +90°C, it's your reliable choice for safe and effective performance.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	100 N

General properties

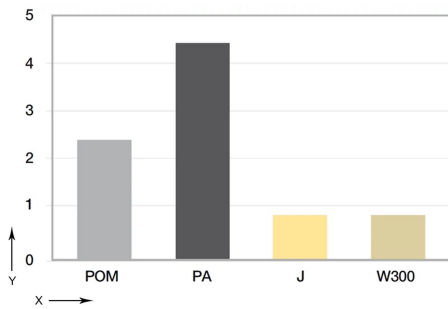
Thread direction	Right-hand thread
Thread type	High helix threads; higher pitch and movement speed
Weight	2.55 g
With spanner flat	No

Dimensions

Thread size	SG05X5
Ø d1	5 mm
Ø d2	14 mm
b1	13 mm
Effective supporting surface	197 mm²



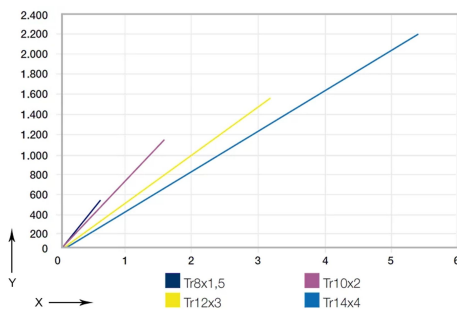
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

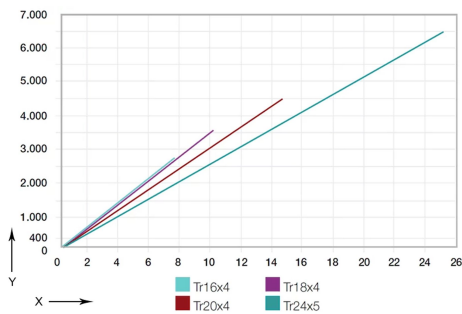


Required drive torque lead screw modules Ø8 to Ø14

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

x = Torque [Nm]

y = Load [N]



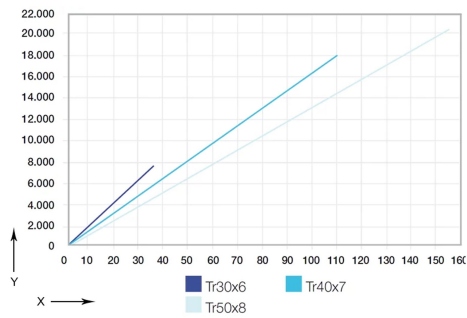
Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

y = Load [N]



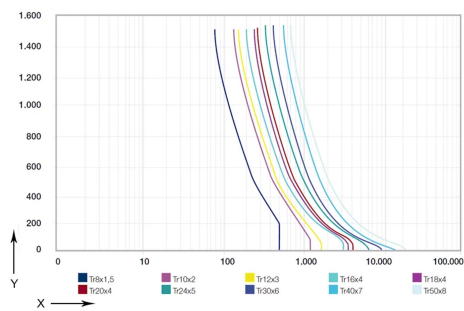


Required drive torque lead screw modules Ø30 to Ø50

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

x = Torque [Nm]

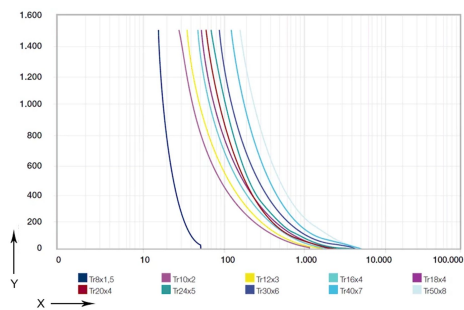
y = Load [N]



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]