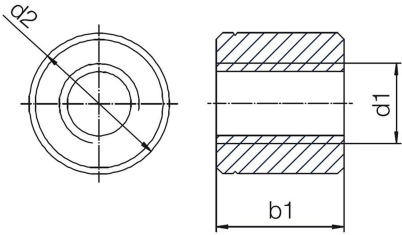


drylin lead screw nut, metric thread, RFRM

RFRM-0913M4



drylin lead screw nut, metric thread, RFRM

- Material: iglide® R
- Thread direction: Right-hand thread
- Thread type: metric thread
- Design: Standard
- Cylindrical lead screw nut with flange

Product description

Introducing the drylin® lead screw nut, part of the drylin® family by igus. Crafted from high-performance iglidur® R polymer, this cylindrical lead screw nut features a right-hand metric thread design. Its unique dampening properties reduce vibrations, ensuring quiet and low-noise operation. With high wear resistance and a temperature range of up to +90°C, it's perfect for medium to high-speed applications. Experience lubrication-free and maintenance-free performance with this durable, robust solution for your lead screw technology needs.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
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Thermal properties

Efficiency [η]	15-22
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General properties

Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
With spanner flat	No
Weight	16.575 g

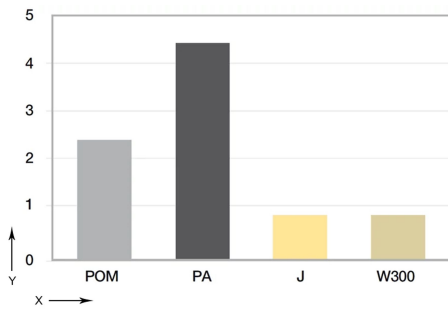


Dimensions

Thread size	M4
Ø d1	4 mm
Ø d2	9 mm
Ø d3	18 mm
Ø d4	15.2 mm
Ø d5	3.2 mm
b1	13 mm
b2	3 mm



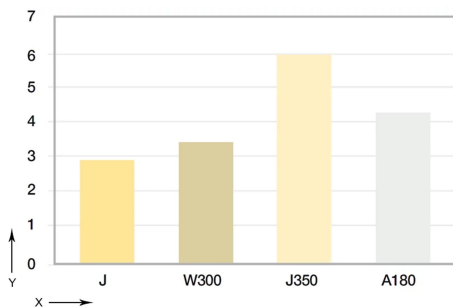
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

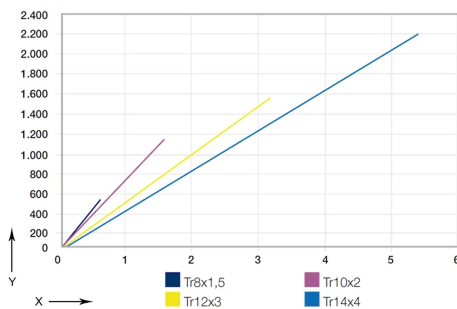


Wear test on a VA lead screw

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

x = different materials

y = wear [mg/km]



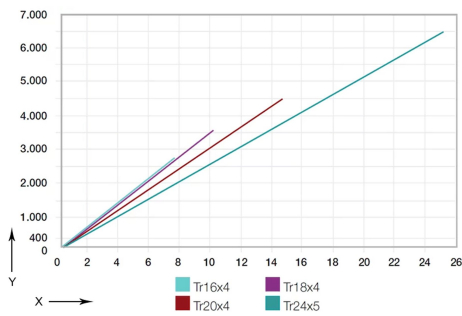
Required drive torque lead screw modules Ø8 to Ø14

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

x = torque [Nm]

y = load [N]



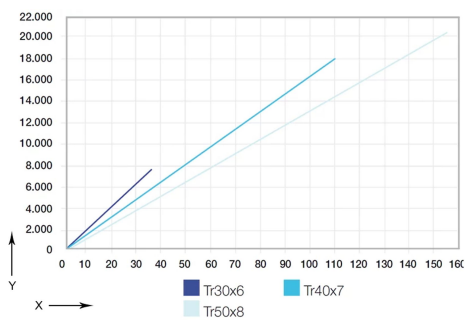


Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]

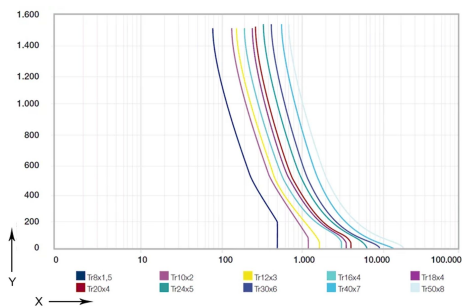


Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

y = load [N]

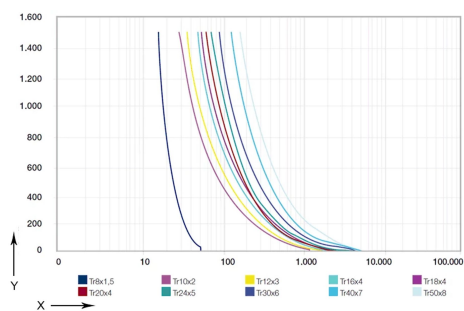


Maximum dynamic load for lead screw units with 10% ESD

x = load [N]

y = speed [rpm]





Maximum dynamic load for lead screw units with 100% ESD

x = load [N]

y = speed [rpm]