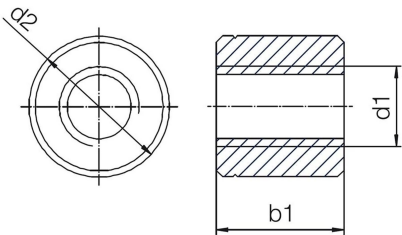


drylin® lead screw nut, thermoplastic ACME, JSRI

JSRI-01-1/2-10



drylin® lead screw nut, thermoplastic ACME, JSRI

- Material: iglidur® J
- Thread direction: Right-hand thread
- Thread type: ACME
- Design: Standard
- Cylindrical lead screw nut with flange

Product description

Introducing the drylin lead screw nut from igus, crafted from high-performance iglidur J thermoplastic. This cylindrical nut features a right-hand ACME thread design, ensuring high efficiency across all speeds. Enjoy a maintenance-free experience with low wear and a low coefficient of friction. It withstands temperatures up to +90°C and is robust in harsh environments. With its quiet operation and chemical resistance, the drylin lead screw nut is the perfect choice for durable and reliable performance.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	Yes
Max. axial static pressure load	1824 N

General properties

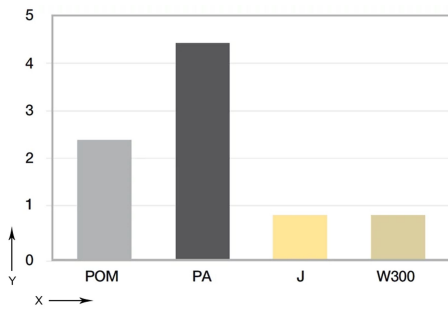
Thread direction	Right-hand thread
Thread type	ACME; US standard
Weight	15.16 g
With spanner flat	No

Dimensions

Thread size	1/2-10
Ø d1	0.5 in
Ø d2	1 in
b1	1 in
Effective supporting surface	456 mm²



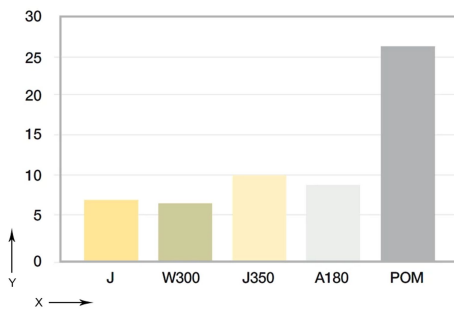
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

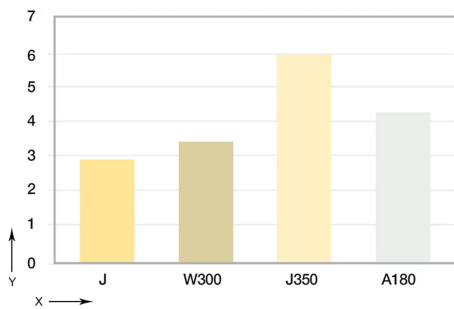


Wear test on C15 lead screw drive

Stroke 140 mm, 50 N, lead screw C15 rolled, 450 rpm

x = different materials

y = wear [mg/km]



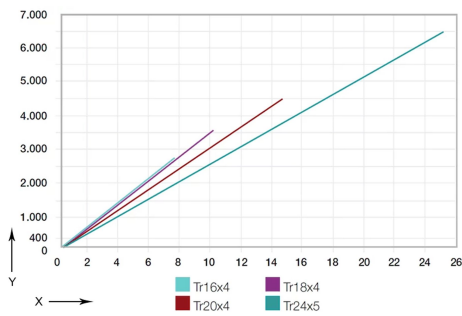
Wear test on a VA lead screw

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

x = different materials

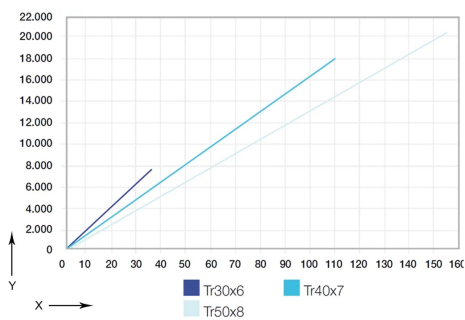
y = wear [mg/km]



**Required drive torque lead screw modules Ø16 to Ø24**Assuming $\mu = 0.25$, without considering the lead screw supports

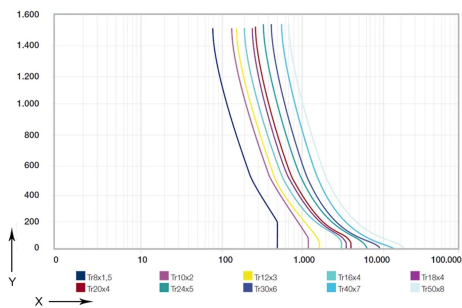
x = torque [Nm]

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]

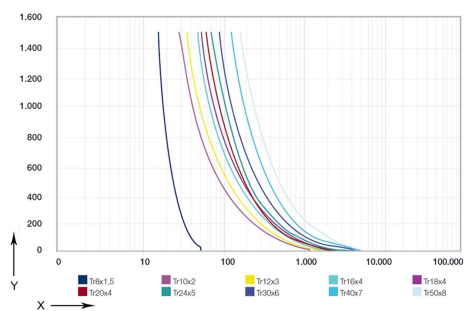
y = load [N]

**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]