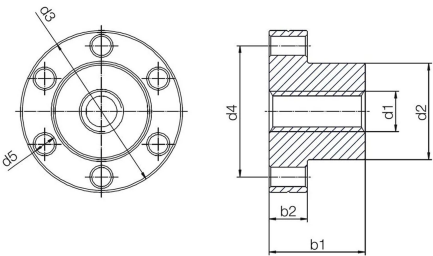


drylin® trapezoidal lead screw nut with flange,
A180FRM

A180FRM-3244TR20X4



drylin® trapezoidal lead screw nut with flange,
A180FRM

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

Product description

Introducing the drylin trapezoidal lead screw nut with flange, A180FRM by igus. Crafted from FDA-compliant iglidur A180 material, this lead screw nut is perfect for food and pharmaceutical applications. It offers durability, is lubrication-free, and withstands temperatures from -20°C to +90°C. With its wear-resistant design, it ensures quiet and vibration-free operation. Ideal for low to medium loads, this nut combines reliability and compliance for your specific needs.

Requirements

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

Efficiency [η]	19-33
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General properties

Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
With spanner flat	No
Weight	57.69 g

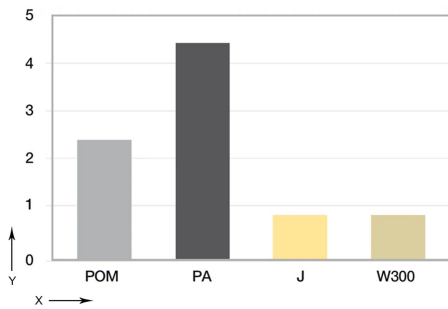


Dimensions

Thread size	TR20X4
Ø d1	20 mm
Ø d2	32 mm
Ø d3	55 mm
Ø d4	45 mm
Ø d5	7 mm
b1	44 mm
b2	12 mm



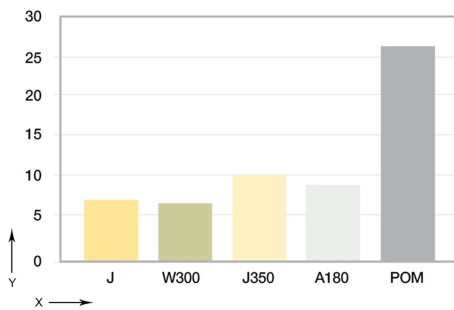
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

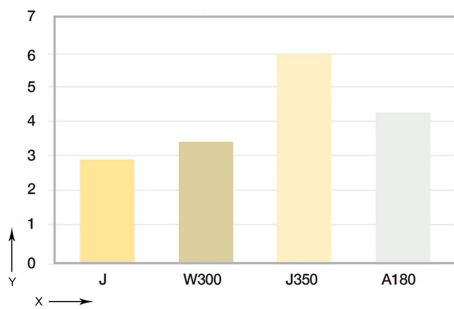


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



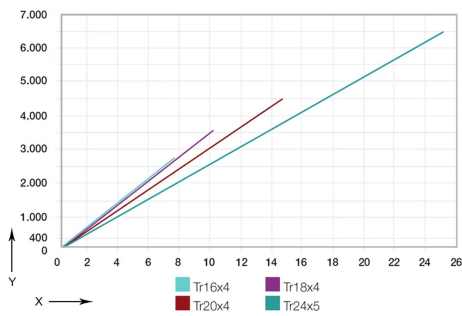
Wear test on a VA lead screw

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

x = different materials

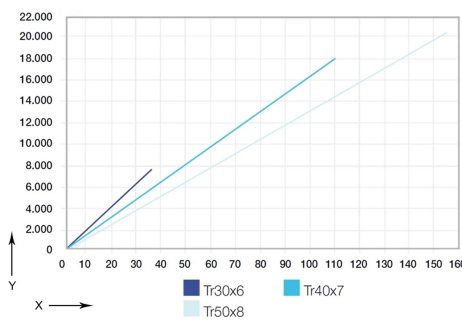
y = wear [mg/km]



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

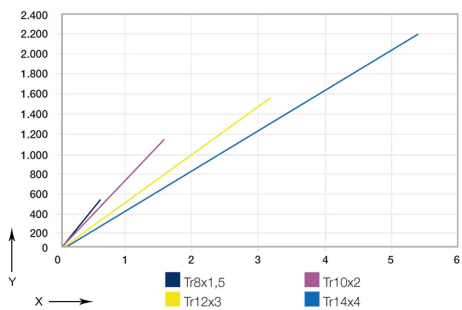
x = torque [Nm]

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]

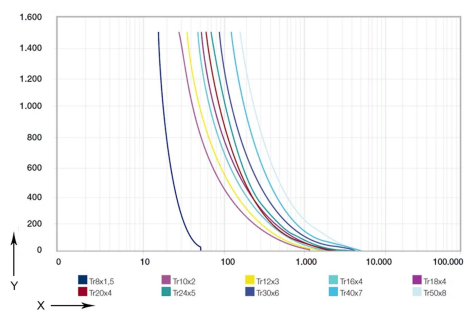
y = load [N]

**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]