

drylin® lead screw nut, metric thread, A180FRM
A180FRM-0913M3



**drylin® lead screw nut, metric thread,
A180FRM**

- Material: iglide® A180
- 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, A180FRM, crafted from FDA-compliant iglidur® A180 material. This cylindrical lead screw nut is designed for low to medium loads, making it ideal for food and pharmaceutical applications. It withstands temperatures up to +90°C and offers a quiet, lubrication-free operation. Durable and chemical-resistant, this lead screw nut ensures long-lasting performance in demanding environments. Experience reliability and safety with the A180FRM, perfect for your specialized needs.

Requirements

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

General properties

Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
With spanner flat	No
Weight	17.25 g

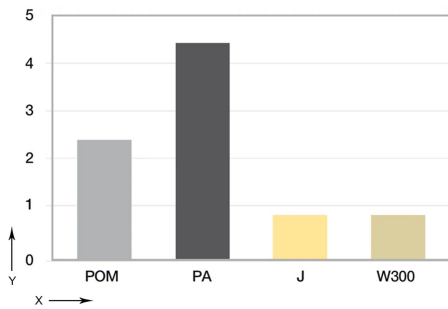


Dimensions

Thread size	M3
Ø d1	3 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



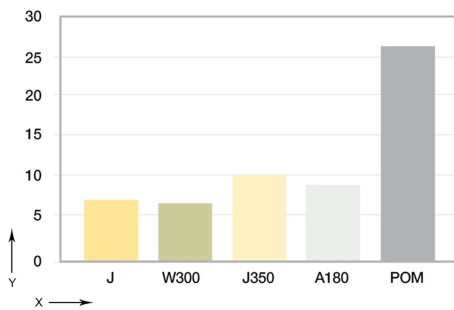
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

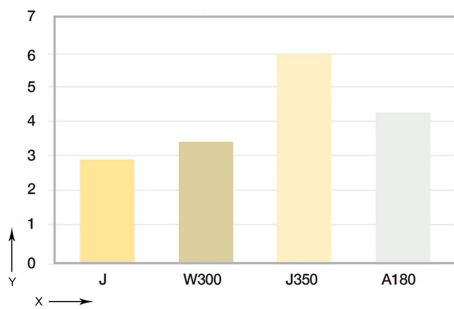


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



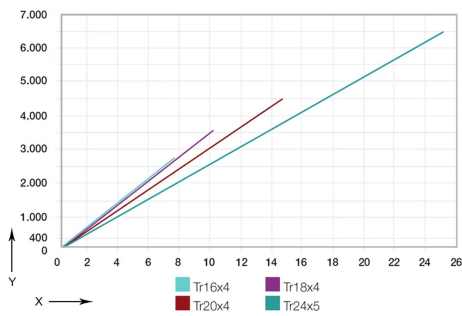
Wear test on a VA lead screw

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

x = different materials

y = wear [mg/km]



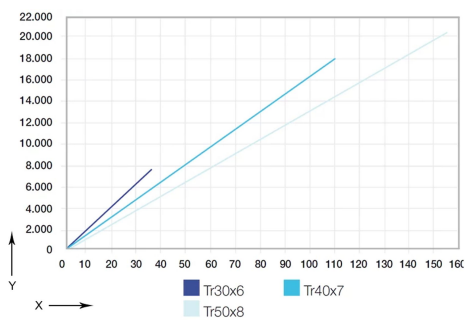


Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]

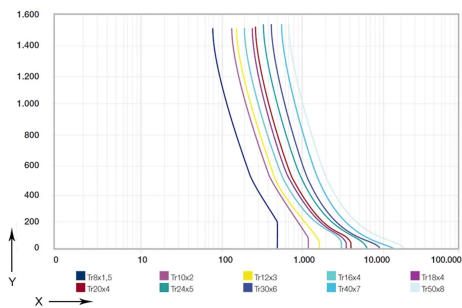


Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

y = load [N]

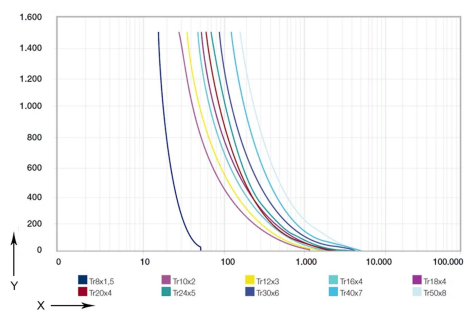


Maximum dynamic load for lead screw units with 10% ESD

x = load [N]

y = speed [rpm]





Maximum dynamic load for lead screw units with 100% ESD

x = load [N]

y = speed [rpm]