

drylin® lead screw nut, metric thread, A180FLM
A180FLM-0913M3



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A180FLM

- 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 A180FLM, crafted from FDA-compliant iglidur® A180 material, making it ideal for the food and pharmaceutical industries. This cylindrical lead screw nut features a right-hand metric thread and is designed for low to medium load applications. Enjoy maintenance-free operation with its durable, chemical-resistant design that withstands temperatures from -20°C to +90°C. Experience quiet, vibration-free travel and reliable performance in demanding environments.

Requirements

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

Efficiency [η]	17-26
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General properties

Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
With spanner flat	No
Weight	1.9 g

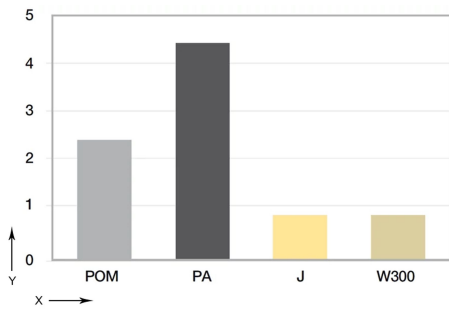


Dimensions

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



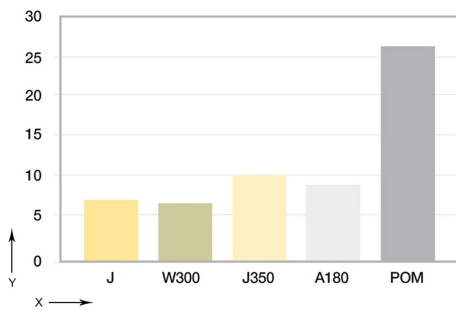
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

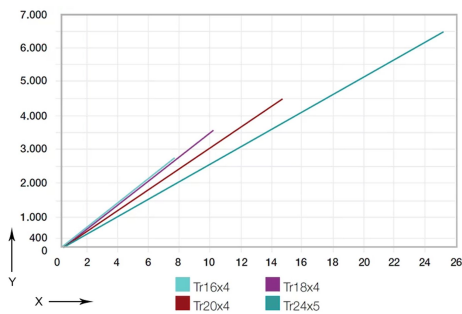


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



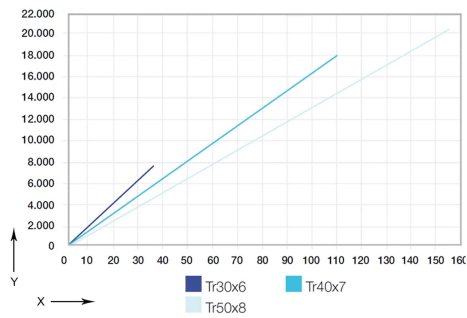
Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



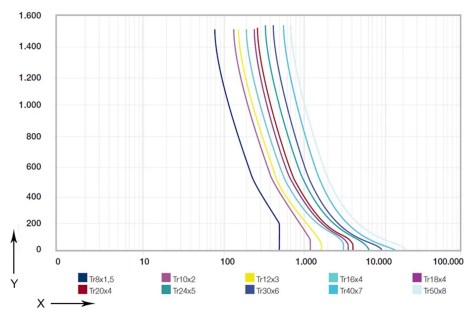


Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

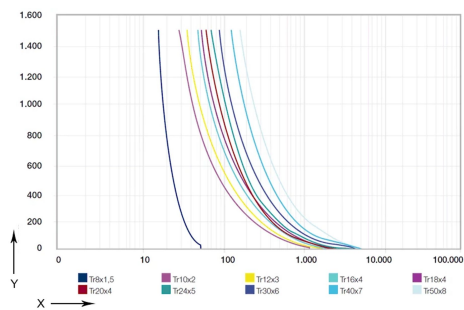
y = load [N]



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]