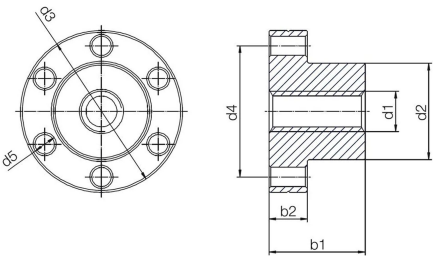


drylin® trapezoidal lead screw nut with flange,
A180FLM

A180FLM-2525TR10X3



drylin® trapezoidal lead screw nut with flange,
A180FLM

- Material: iglide® A180
- Thread direction: Left-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, A180FLM, crafted from FDA-compliant iglidur A180 material. Perfect for the food and pharmaceutical industries, this durable lead screw nut ensures safe contact with food and drugs. It operates efficiently in temperatures up to +90°C and is 100% lubrication-free, maintenance-free, and chemical resistant. Enjoy quiet, vibration-free travel and long-lasting performance in challenging environments. Ideal for low to medium load applications.

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	Left-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
With spanner flat	No
Weight	77.25 g

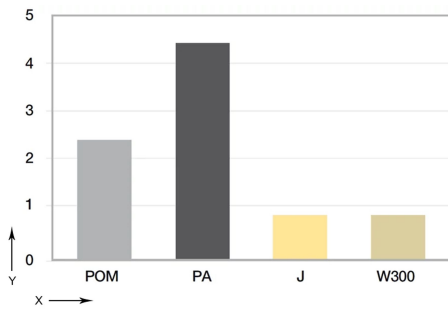


Dimensions

Thread size	TR10X3
Ø d1	10 mm
Ø d2	25 mm
Ø d3	42 mm
Ø d4	34 mm
Ø d5	5 mm
b1	25 mm
b2	10 mm



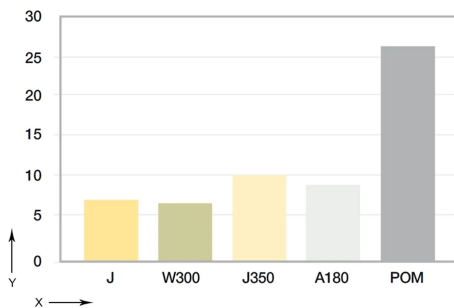
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

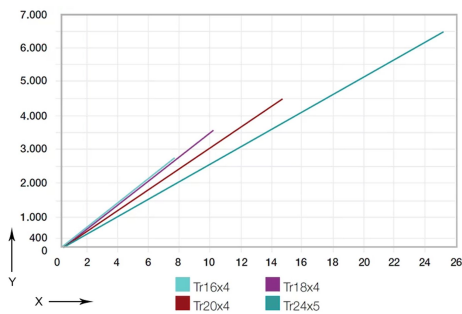


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



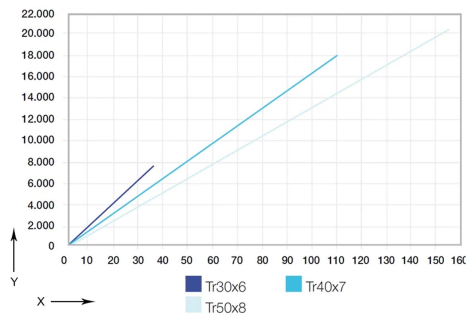
Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



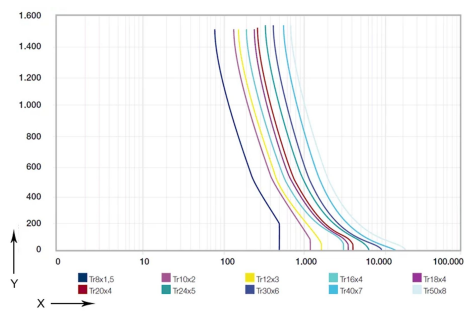


Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

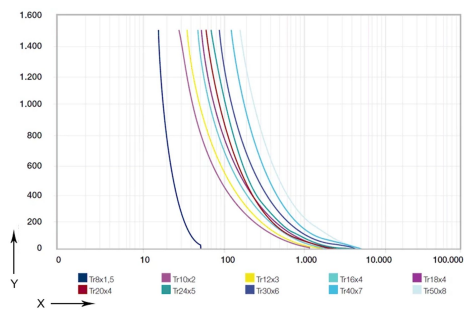
y = load [N]



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]