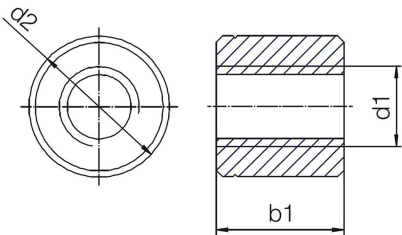


drylin lead screw nut, metric thread, WFRM

WFRM-0913M3



drylin lead screw nut, metric thread, WFRM

- Material: iglide® L280
- 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, part of the WFRM series by igus. Crafted from high-performance iglidur® W300 polymer, this cylindrical nut is designed for heavy-duty applications, providing exceptional wear resistance and static strength. It operates smoothly at low speeds and can withstand temperatures up to +90°C. Enjoy the benefits of a lubrication-free and maintenance-free solution that is durable, chemical-resistant, and vibration-free, ensuring long-lasting performance in demanding environments.

Requirements

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

Efficiency [η]	17-30
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General properties

Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
With spanner flat	No
Weight	18.4 g

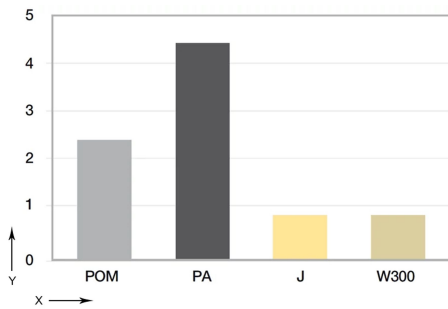


Dimensions

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



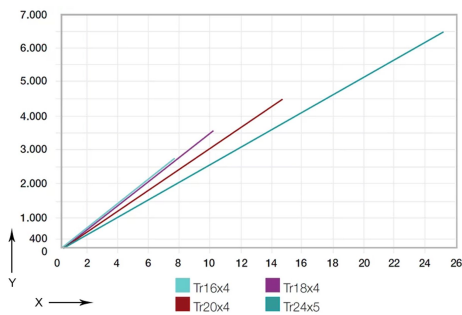
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

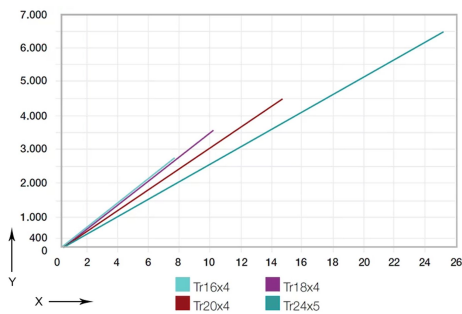


Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



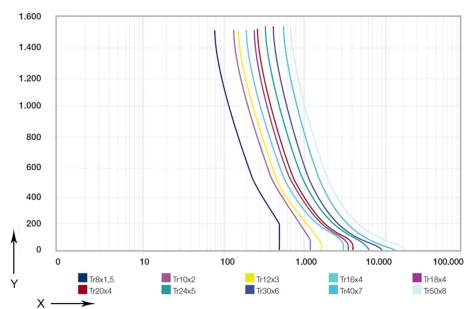
Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

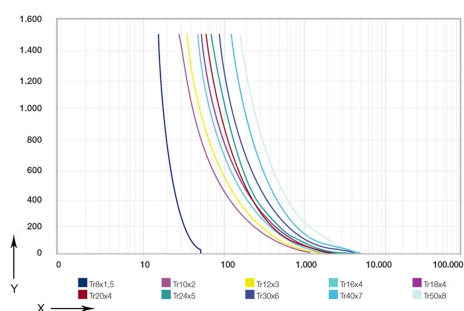
y = load [N]





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]