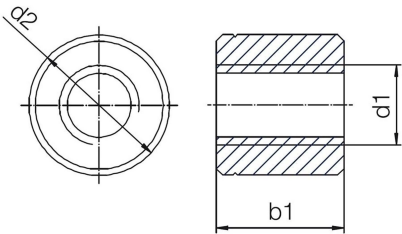


dryspin lead screw nut out of iglide W300 |
geometry: cylindrical | two-start trapezoidal thread |
LH

WSLM-3024TR16X8P4



dryspin lead screw nut out of iglide W300 |
geometry: cylindrical | two-start trapezoidal
thread | LH

- Material: iglidur® W300
- Thread direction: Left-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- Cylindrical lead screw nut
- Multi start

Product description

Introducing the drylin trapezoidal lead screw nut, multi start, WSLM from igus. Crafted from iglidur W300, this high-performance polymer is designed for heavy-duty applications, offering exceptional wear resistance under high loads. It operates effectively at low speeds and can withstand temperatures up to +90°C. Enjoy a lubrication-free, maintenance-free experience with chemical resistance and quiet operation. Ideal for robust environments, this lead screw nut ensures durability and reliability for your projects.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	2243 N

General properties

Thread direction	Left-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	23.92 g
With spanner flat	No

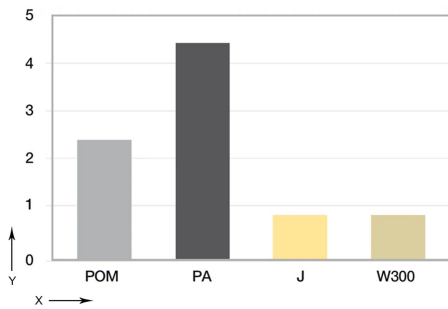


Dimensions

Thread size	TR16X8P4
Ø d1	16 mm
Ø d2	30 mm
b1	24 mm
Effective supporting surface	528 mm²



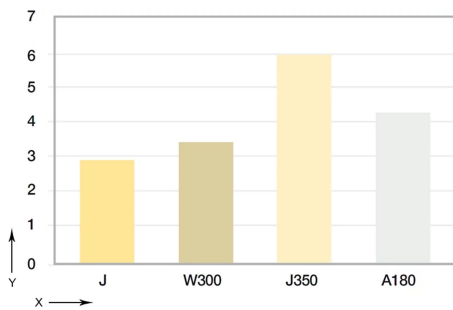
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

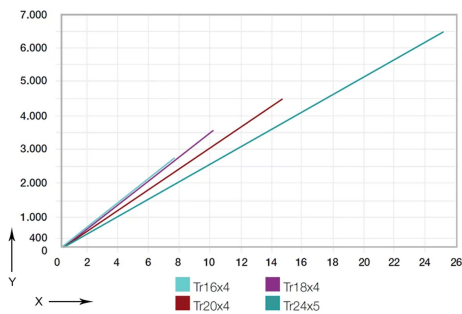


Wear test on a VA lead screw

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

x = Different materials

y = Wear [mg/km]



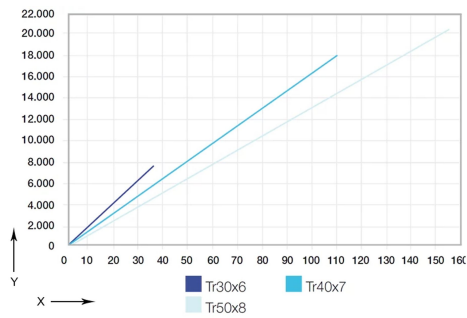
Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

y = Load [N]



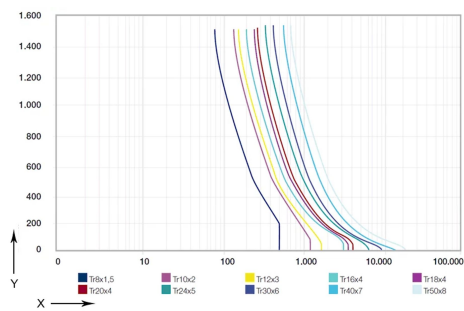


Required drive torque lead screw modules Ø30 to Ø50

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

x = Torque [Nm]

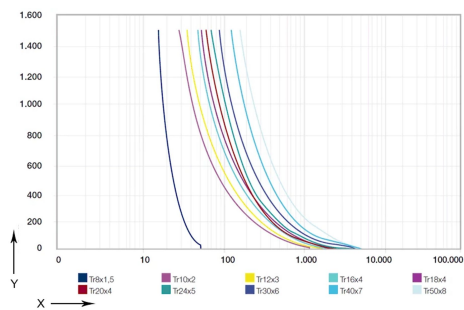
y = Load [N]



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

Maximum dynamic load for lead screw units with 100% ESD