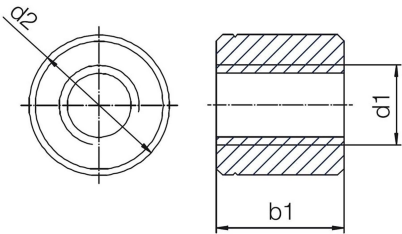


dryspin lead screw nut out of iglide W300 |
geometry: cylindrical | two-start trapezoidal thread |
RH

WSRM-3024TR12X6P3



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

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

Product description

Introducing the drylin trapezoidal lead screw nut from igus, crafted from high-performance iglidur W300 material. Designed for heavy-duty applications, it offers exceptional wear resistance and durability under high loads. This lubrication-free and maintenance-free nut operates quietly and efficiently, supporting low-speed applications. With a temperature range of -20°C to +150°C, it's perfect for challenging environments. Experience reliable performance with this robust, chemical-resistant solution for your lead screw needs.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	1682 N

General properties

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

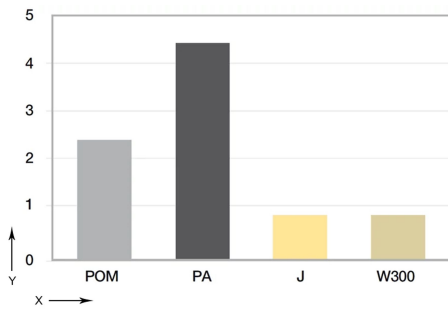


Dimensions

Thread size	TR12X6P3
Ø d1	12 mm
Ø d2	30 mm
b1	24 mm
Effective supporting surface	396 mm ²



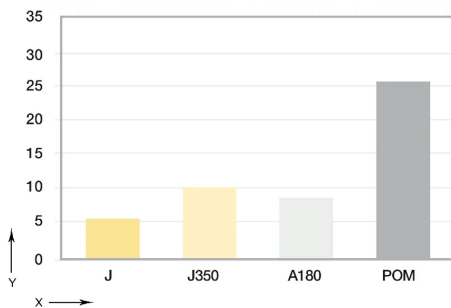
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

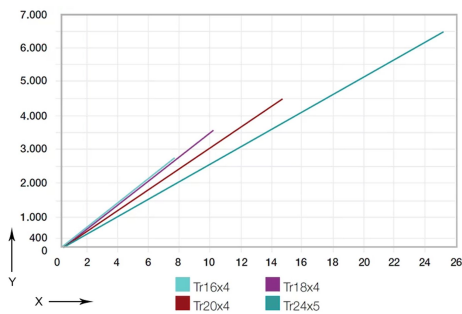


Wear test on C15 lead screw drive

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

x = Different materials

y = Wear [mg/km]



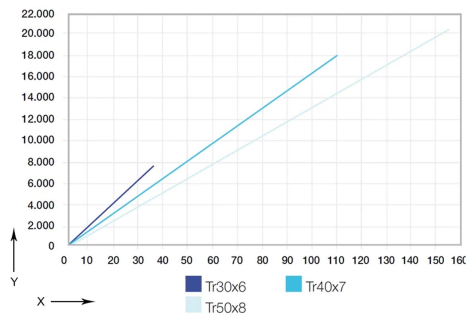
Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

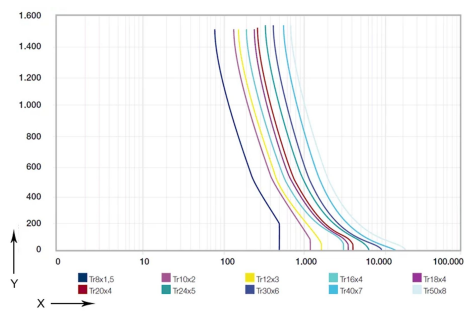
y = Load [N]



**Required drive torque lead screw modules Ø30 to Ø50**Assuming $\mu = 0.25$, without considering the lead screw supports

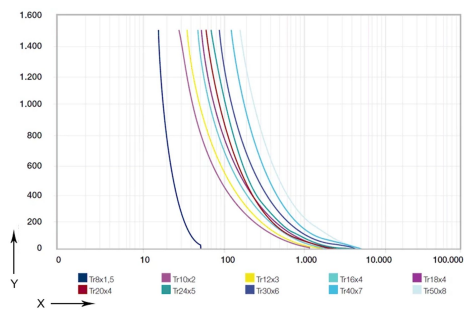
x = Torque [Nm]

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]