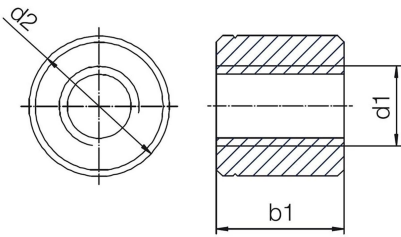


dryspin lead screw nut out of iglide R | geometry:
cylindrical | two-start trapezoidal thread | RH

RSRM-3024TR12X6P3



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

- Material: iglidur® R
- 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® R material. This cylindrical lead screw nut features a multi-start design, perfect for medium to high-speed applications. Enjoy low-vibration and low-noise operation thanks to its dampening properties. With high wear resistance and a temperature range of up to +90°C, this maintenance-free solution is ideal for various environments. Experience reliable performance and durability with this innovative lead screw nut.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	673 N

General properties

Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	28.73 g
With spanner flat	No

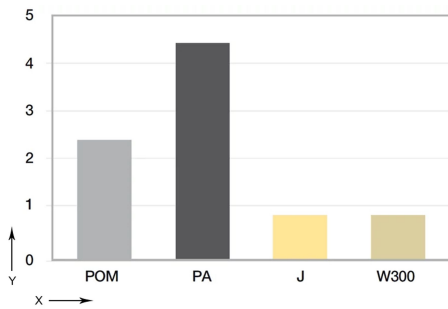


Dimensions

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



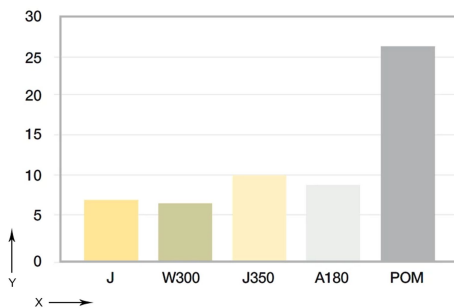
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

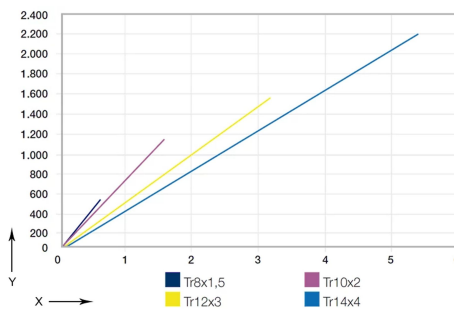


Wear test on C15 lead screw drive

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

x = Different materials

y = Wear [mg/km]



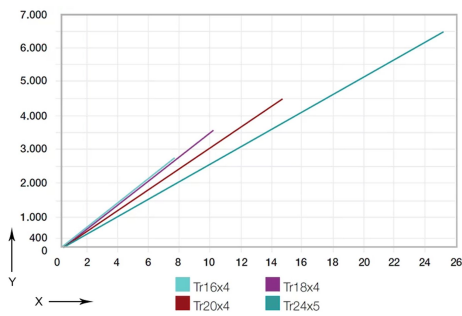
Required drive torque lead screw modules Ø8 to Ø14

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

x = Torque [Nm]

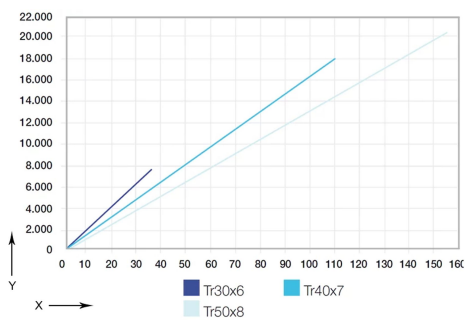
y = Load [N]



**Required drive torque lead screw modules Ø16 to Ø24**Assuming $\mu = 0.25$, without considering the lead screw supports

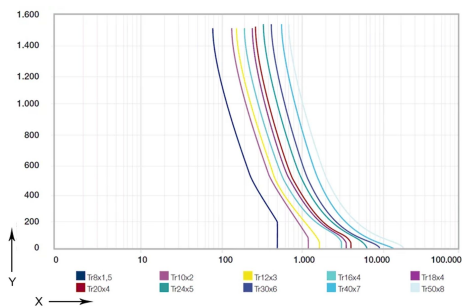
x = Torque [Nm]

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]

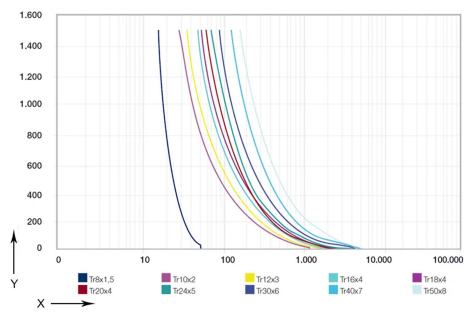
y = Load [N]

**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]