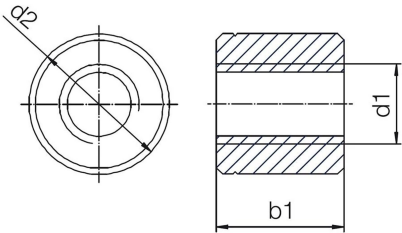


drylin® trapezoidal lead screw nut, anti-backlash,
RSRM

RSRM-AB-2220TR10X2



drylin® trapezoidal lead screw nut, anti-backlash, RSRM

- Material: iglidur® R
- Thread direction: Right-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- Cylindrical lead screw nut
- Anti-backlash

Product description

Introducing the drylin trapezoidal lead screw nut, anti-backlash, RSRM from igus. Crafted from high-performance iglidur R polymer, this lead screw nut offers exceptional vibration dampening for a quiet and smooth operation. It features high wear resistance, making it ideal for medium to high speeds. With a temperature range of up to +90°C, it ensures durability in various environments. Experience lubrication-free and maintenance-free performance with this reliable and robust component designed for efficiency.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	342 N

General properties

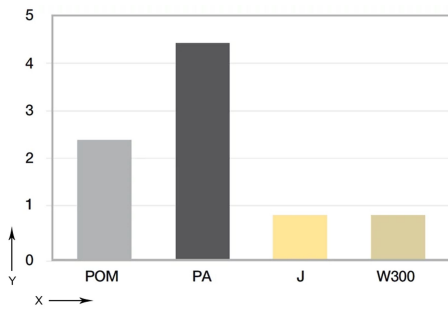
Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	9.2 g
With spanner flat	No

Dimensions

Thread size	TR10X2
Ø d1	8 mm
Ø d2	22 mm
b1	20 mm
Effective supporting surface	228 mm²



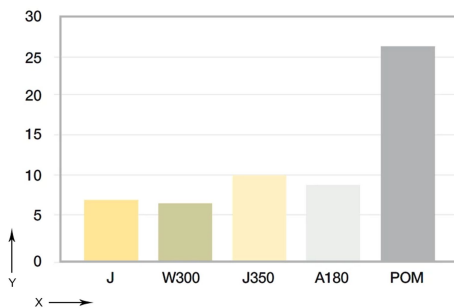
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

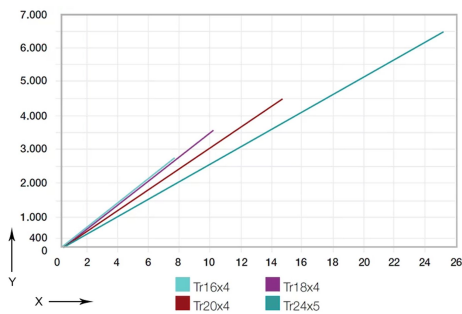


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



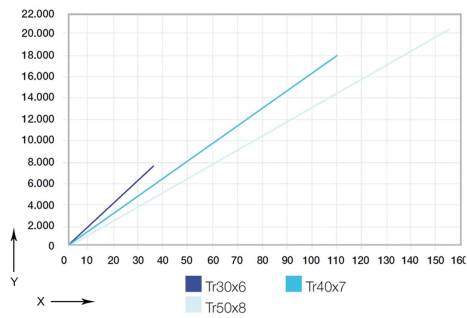
Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

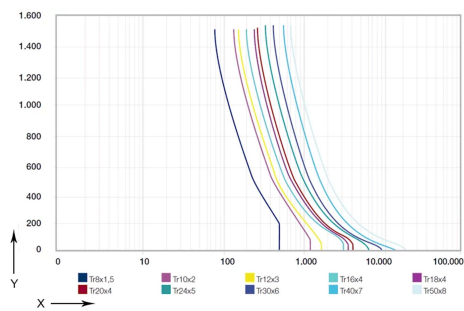
y = load [N]



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

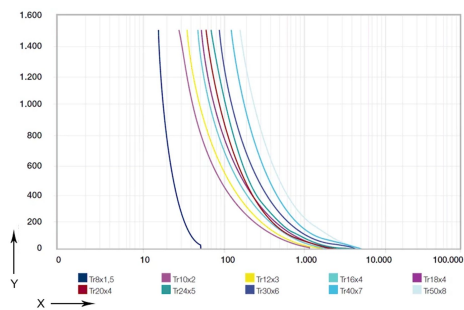
x = torque [Nm]

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]