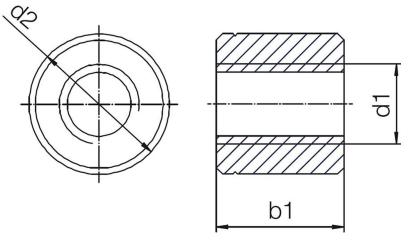


drylin® trapezoidal lead screw nut with spanner flats, WSRM

WSRM-172220TR10X2



drylin® trapezoidal lead screw nut with spanner flats, WSRM

- Material: iglidur® W300
- Thread direction: Right-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- With spanner flat
- Cylindrical lead screw nut with flange

Product description

Introducing the drylin® trapezoidal lead screw nut with spanner flats, WSRM by igus. Crafted from iglidur® W300, this lead screw nut is designed for heavy-duty applications, offering exceptional wear resistance under high loads. It operates quietly and requires no lubrication, making it maintenance-free. With a temperature range of -20°C to +150°C and robust chemical resistance, it's perfect for challenging environments. Experience durability and reliability with this advanced lead screw nut solution.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	1414 N

General properties

Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	6.54 g
With spanner flat	Yes

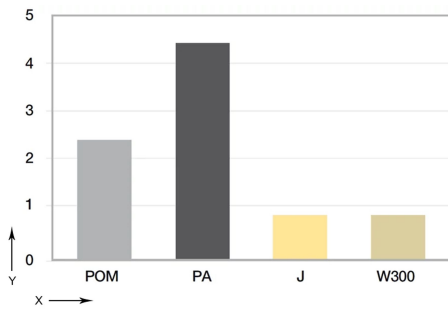


Dimensions

Thread size	TR10X2
Ø d1	10 mm
Ø d2	20 mm
b1	20 mm
Effective supporting surface	283 mm²
SW	17 mm



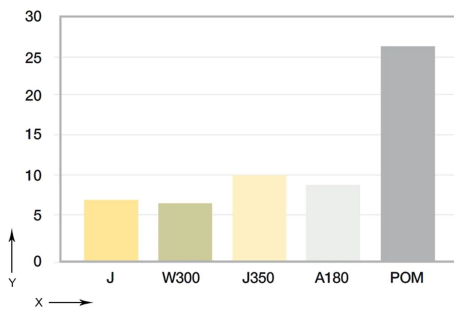
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

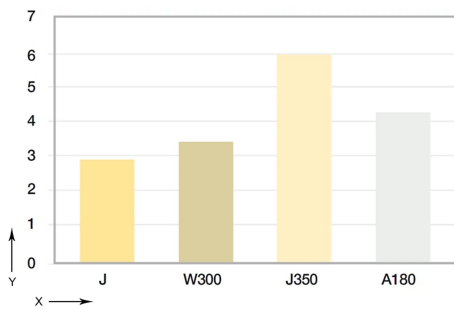


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



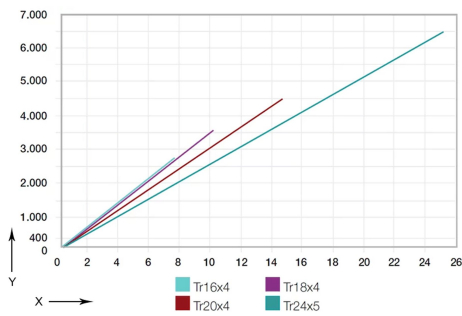
Wear test on a VA lead screw

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

x = different materials

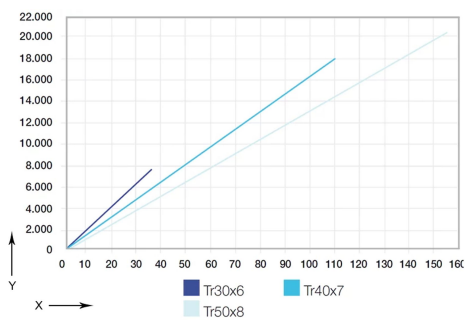
y = wear [mg/km]



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

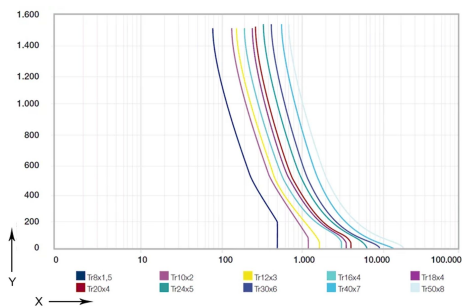
x = torque [Nm]

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]

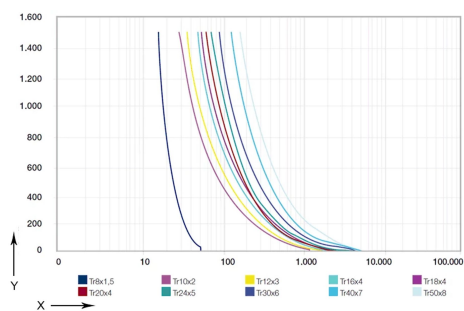
y = load [N]

**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

x = load [N]

y = speed [rpm]