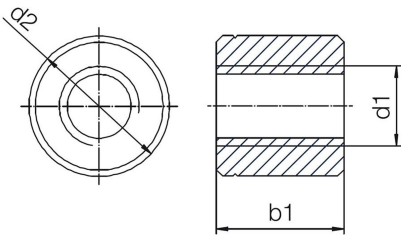


drylin® trapezoidal lead screw nut, multi start,
JSRM

JSRM-4540TR20X8P4



drylin® trapezoidal lead screw nut, multi start,
JSRM

- Material: iglidur® J
- 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, multi start, JSRM by igus. Crafted from high-performance iglidur J polymer, this lead screw nut offers high efficiency across all speeds. Enjoy the benefits of a low coefficient of friction, ensuring minimal wear and tear. It's durable, chemical-resistant, and operates quietly, making it perfect for various applications. With a temperature range of -20°C to +150°C, this lubrication-free nut is built to last in challenging environments.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	3845 N

General properties

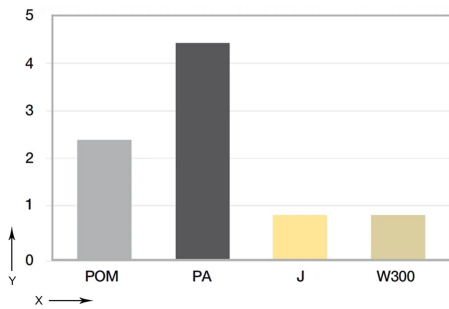
Thread direction	Right-hand thread
Thread type	Trapezoidal threads; absorption of larger axial forces
Weight	78.9 g
With spanner flat	No

Dimensions

Thread size	TR20X8P4
Ø d1	20 mm
Ø d2	45 mm
b1	40 mm
Effective supporting surface	1131 mm²



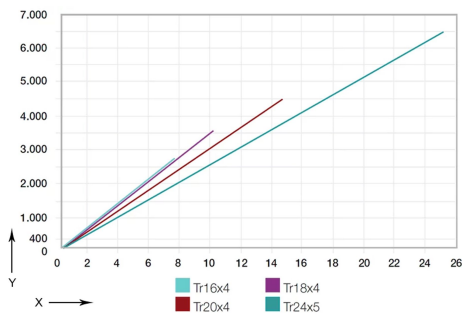
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

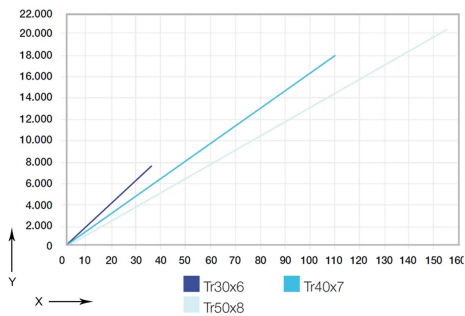


Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

y = Load [N]



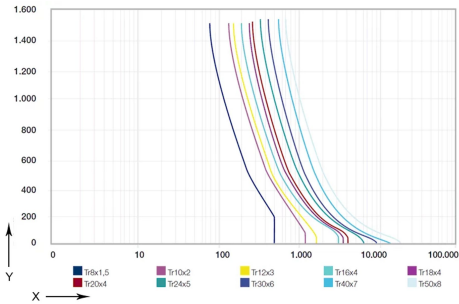
Required drive torque lead screw modules Ø30 to Ø50

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

x = Torque [Nm]

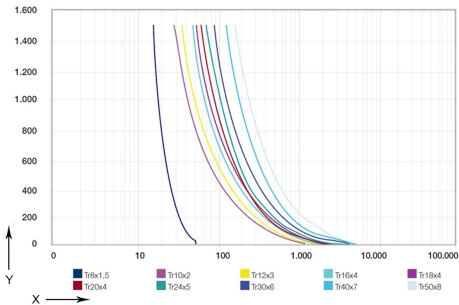
y = Load [N]





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]