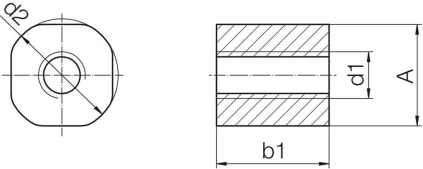


drylin® metric injection moulded lead screw nuts,
cylindrical, thread: cut, JSRM

JSRM-C-01-M5



drylin® metric injection moulded lead screw
nuts, cylindrical, thread: cut, JSRM

- Material: iglidur® J
- Thread direction: Right-hand thread
- Thread type: metric thread
- Design: Standard
- Cylindrical lead screw nut

Product description

Introducing the drylin® metric injection moulded lead screw nut from igus, crafted from high-performance iglidur® J polymer. This cylindrical nut is designed for high efficiency at all speeds, ensuring low wear rates and a low coefficient of friction. It performs reliably in temperatures up to +90°C and is 100% lubrication-free. Enjoy durable, quiet, and vibration-free operation, making it ideal for various applications. Upgrade your projects with this robust and maintenance-free solution.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	Yes
Max. axial static pressure load	376 N

General properties

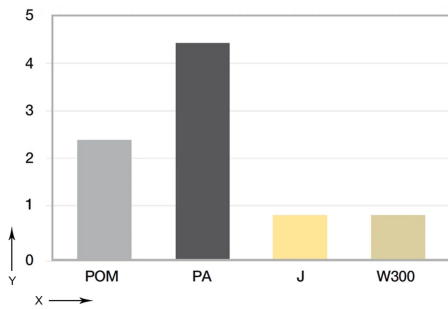
Thread direction	Right-hand thread
Thread type	Metric thread; standard for highest compatibility
Weight	1.53 g
With spanner flat	No

Dimensions

Thread size	M5
Ø d1	5 mm
Ø d2	12 mm
b1	12 mm
Effective supporting surface	94 mm²



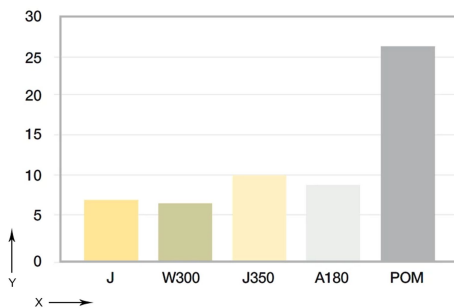
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

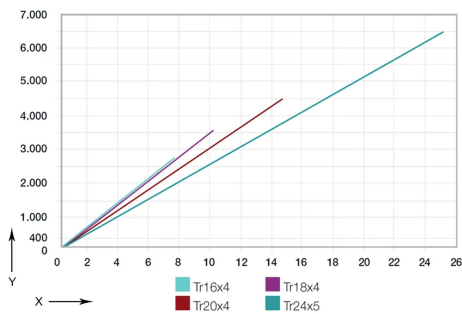


Wear test on C15 lead screw drive

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

x = different materials

y = wear [mg/km]



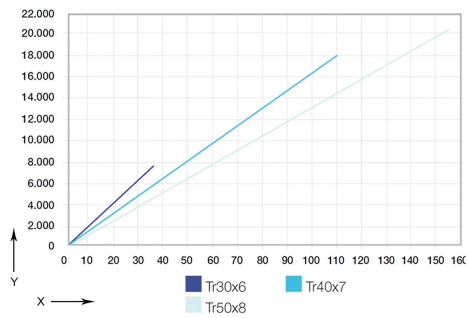
Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



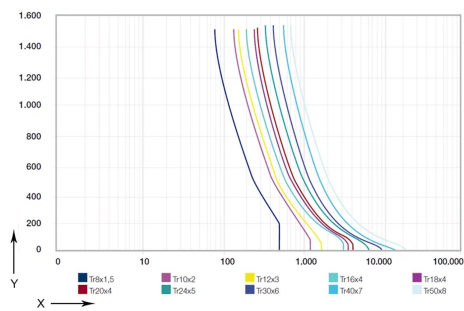


Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

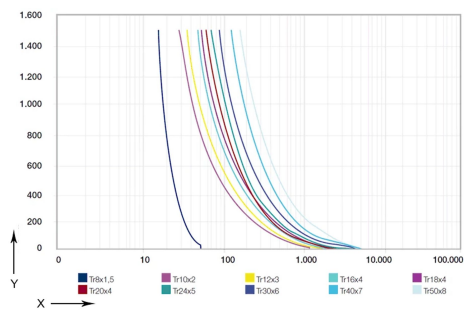
y = load [N]



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]