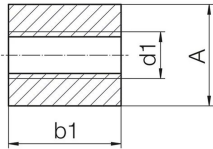


drylin® flange lead screw nut, thermoplastic ACME,
JFRI

JFRI-01-1/4-16



drylin® flange lead screw nut, thermoplastic
ACME, JFRI

- Material: iglide® J
- Thread direction: Right-hand thread
- Thread type: ACME
- Design: Standard

Product description

Introducing the drylin® flange lead screw nut, crafted from high-performance iglidur® J thermoplastic. This versatile nut excels in efficiency across all speeds, featuring a low coefficient of friction for minimal wear. It performs reliably in temperatures up to +90°C and is designed for a long-lasting, lubrication-free experience. With its durable, chemical-resistant construction, this lead screw nut ensures quiet and vibration-free operation, making it ideal for various applications.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	Yes
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Thermal properties

Efficiency [η]	24-44
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General properties

Thread direction	Right-hand thread
Thread type	ACME; US standard
With spanner flat	No
Weight	4.32 g

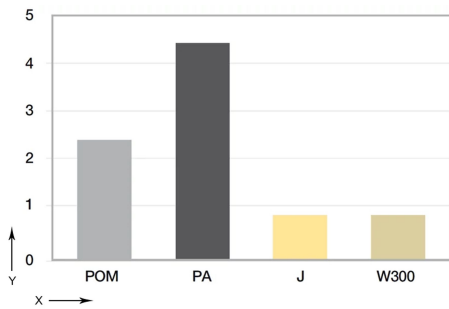


Dimensions

Thread size	1/4-16
Ø d1	0.25 in
Ø d2	0.5 in
Ø d3	1 in
Ø d4	0.75 in
Ø d5	0.125 in
b2	1 in



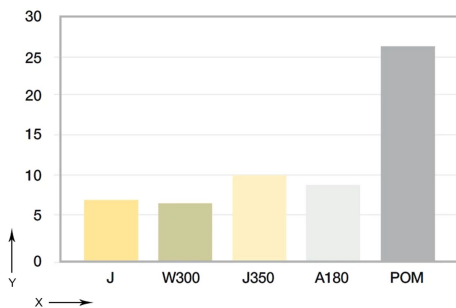
Additional information and diagrams



Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

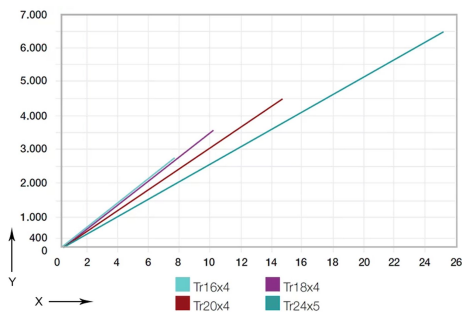


Wear test on C15 lead screw drive

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

x = Different materials

y = Wear [mg/km]



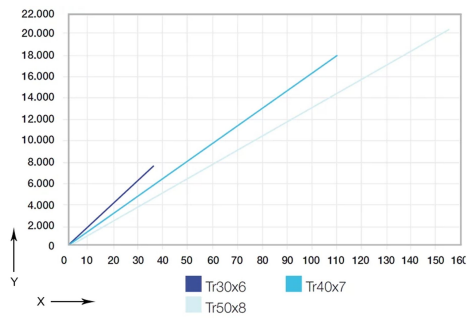
Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

y = Load [N]



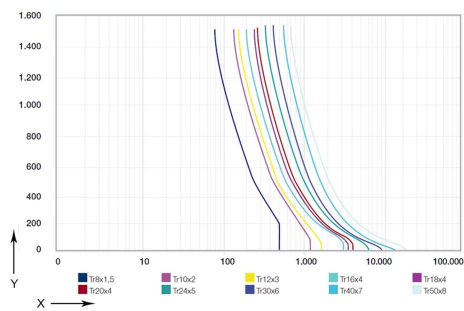


Required drive torque lead screw modules Ø30 to Ø50

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

x = Torque [Nm]

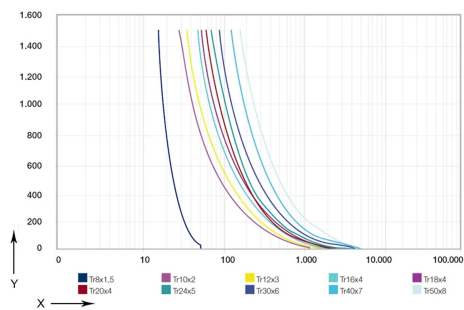
y = Load [N]



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]