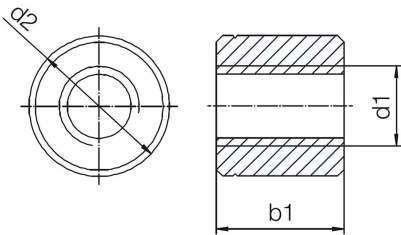


drylin® trapezoidal lead screw nut, multi start,  
JSLM

JSLM-3024TR16X8P4



drylin® trapezoidal lead screw nut, multi start,  
JSLM

- Material: iglidur® J
- Thread direction: Left-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, JSLM by igus. Crafted from high-performance iglidur J material, this lead screw nut ensures high efficiency across all speeds. It's lubrication-free, maintenance-free, and designed to withstand temperatures from -20°C to +150°C. With low wear rates and chemical resistance, it offers durability in challenging environments. Experience quiet, vibration-free operation and robust performance with this versatile and reliable solution for your applications.

Requirements

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

General properties

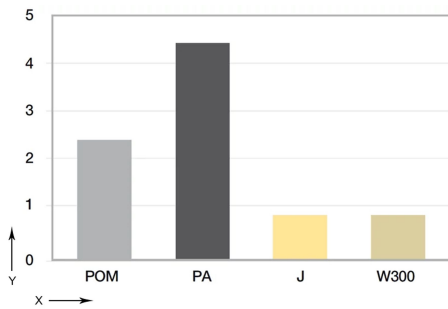
|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Thread direction  | Left-hand thread                                       |
| Thread type       | Trapezoidal threads; absorption of larger axial forces |
| Weight            | 19.22 g                                                |
| With spanner flat | No                                                     |

Dimensions

|                              |          |
|------------------------------|----------|
| Thread size                  | TR16X8P4 |
| Ø d1                         | 12 mm    |
| Ø d2                         | 30 mm    |
| b1                           | 24 mm    |
| Effective supporting surface | 528 mm²  |



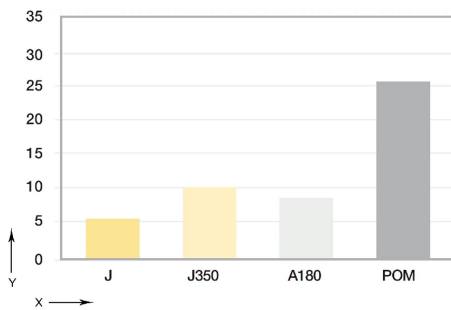
## Additional information and diagrams



### Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

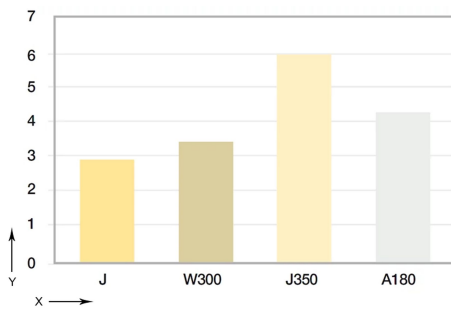


### Wear test on C15 lead screw drive

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

x = Different materials

y = Wear [mg/km]



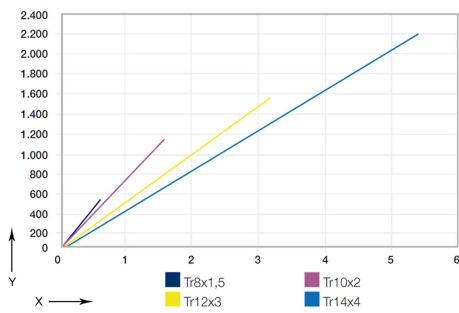
### Wear test on a VA lead screw

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

x = Different materials

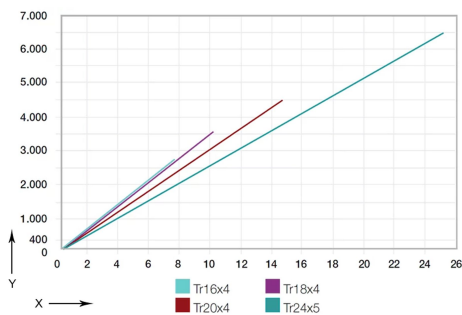
y = Wear [mg/km]



**Required drive torque lead screw modules Ø8 to Ø14**Assuming  $\mu = 0.25$ , without considering the lead screw supports

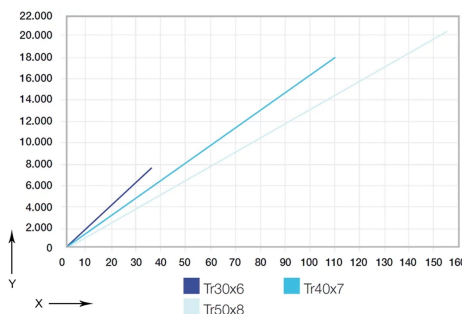
x = Torque [Nm]

y = Load [N]

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

x = Torque [Nm]

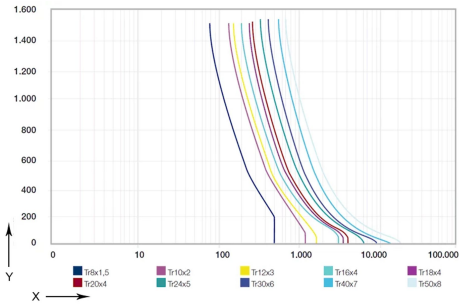
y = Load [N]

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

x = Torque [Nm]

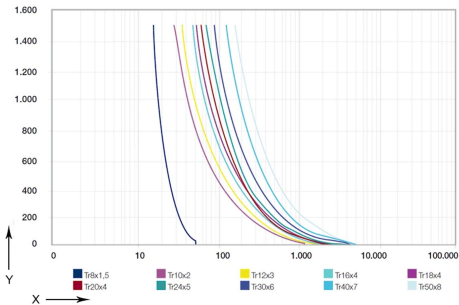
y = Load [N]





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]