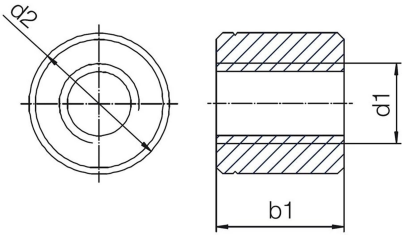


drylin® lead screw nut, metric thread, A180SLM  
**A180SLM-1413M3**



**drylin® lead screw nut, metric thread, A180SLM**

- Material: iglidur® A180
- Thread direction: Left-hand thread
- Thread type: metric thread
- Design: Standard
- Cylindrical lead screw nut

**Product description**

Introducing the drylin® lead screw nut, metric thread, A180SLM, crafted from FDA-compliant iglidur® A180 material, perfect for food and pharmaceutical applications. This cylindrical lead screw nut is designed for low to medium loads and can withstand temperatures up to +90°C. Enjoy the benefits of a lubrication-free, maintenance-free product that is durable, chemical resistant, and mould-free. Experience quiet, vibration-free operation and reliable performance in challenging environments with this high-quality lead screw nut.

**Requirements**

|                                                         |       |
|---------------------------------------------------------|-------|
| Mould-resistant according to DIN EN ISO 846 Procedure A | No    |
| Max. axial static pressure load                         | 197 N |

**General properties**

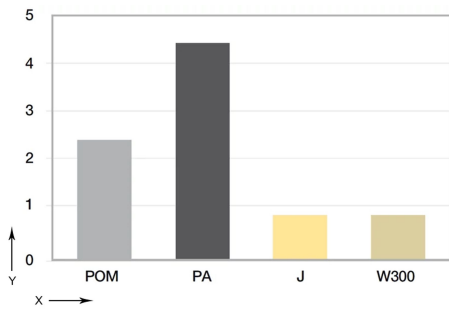
|                   |                                                   |
|-------------------|---------------------------------------------------|
| Thread direction  | Left-hand thread                                  |
| Thread type       | Metric thread; standard for highest compatibility |
| Weight            | 17.25 g                                           |
| With spanner flat | No                                                |

**Dimensions**

|                              |        |
|------------------------------|--------|
| Thread size                  | M3     |
| Ø d1                         | 3 mm   |
| Ø d2                         | 14 mm  |
| b1                           | 13 mm  |
| Effective supporting surface | 56 mm² |



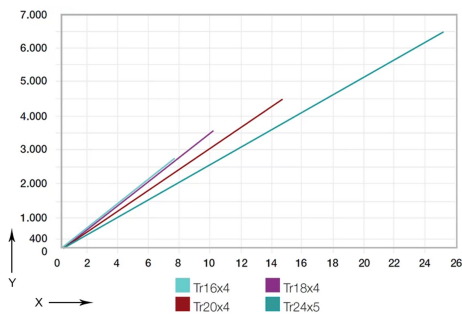
## Additional information and diagrams



### Wear test on a rolled trapezoidal lead screw

x = different materials

y = wear [mg/km]

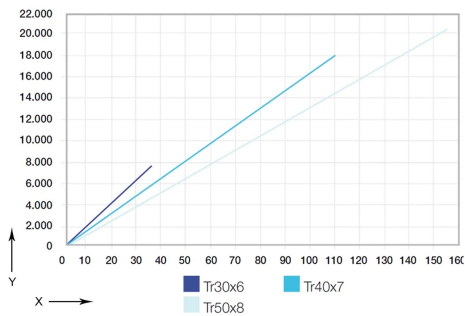


### Required drive torque lead screw modules Ø16 to Ø24

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

x = torque [Nm]

y = load [N]



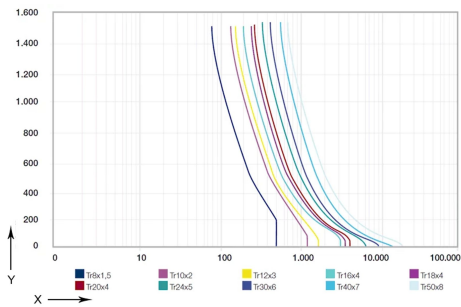
### Required drive torque lead screw modules Ø30 to Ø50

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

x = torque [Nm]

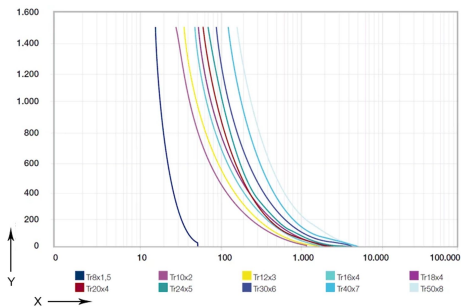
y = load [N]





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]