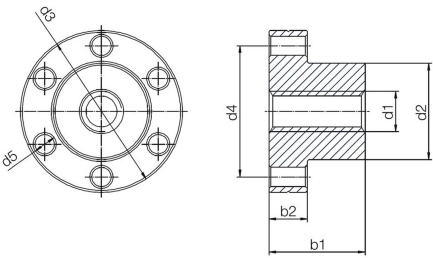


drylin® trapezoidal lead screw nut with flange,  
JFRM

JFRM-2020TR8X1.5



drylin® trapezoidal lead screw nut with flange,  
JFRM

- Material: iglide® J
- Thread direction: Right-hand thread
- Thread type: Trapezoidal threads
- Design: Standard
- Cylindrical lead screw nut with flange

Product description

Introducing the drylin trapezoidal lead screw nut with flange, JFRM, crafted from high-performance iglidur J material. This versatile lead screw nut ensures high efficiency at all speeds, making it perfect for various applications. Enjoy a low coefficient of friction for reduced wear, and benefit from its durability in temperatures up to +90°C. With its lubrication-free and maintenance-free design, this nut is robust, chemical resistant, and provides quiet, vibration-free operation, ensuring long-term reliability.

Requirements

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

Thermal properties

|                |       |
|----------------|-------|
| Efficiency [η] | 19-33 |
|----------------|-------|

General properties

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Thread direction  | Right-hand thread                                      |
| Thread type       | Trapezoidal threads; absorption of larger axial forces |
| With spanner flat | No                                                     |
| Weight            | 15.4 g                                                 |

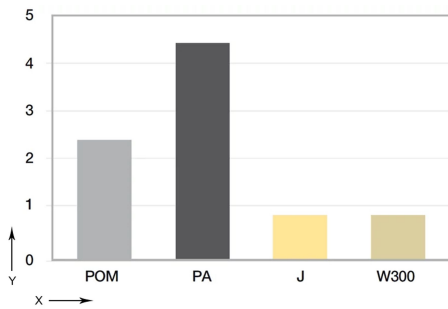


## Dimensions

| Thread size | TR08X1.5 |
|-------------|----------|
| Ø d1        | 8 mm     |
| Ø d2        | 20 mm    |
| Ø d3        | 36 mm    |
| Ø d4        | 28 mm    |
| Ø d5        | 4 mm     |
| b1          | 20 mm    |
| b2          | 8 mm     |



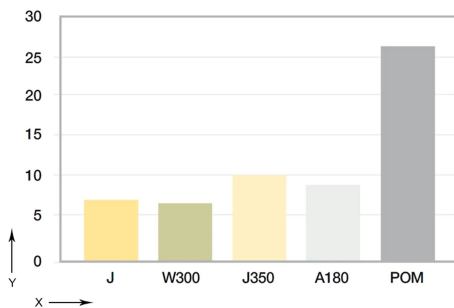
## Additional information and diagrams



### Wear test on a rolled trapezoidal lead screw

x = Different materials

y = Wear [mg/km]

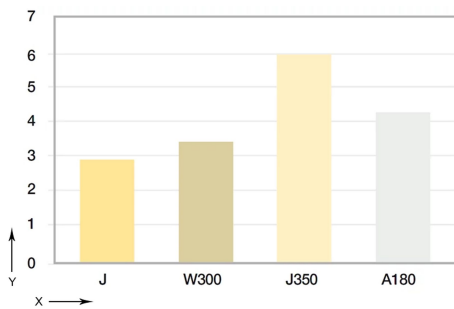


### Wear test on C15 lead screw drive

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

x = Different materials

y = Wear [mg/km]



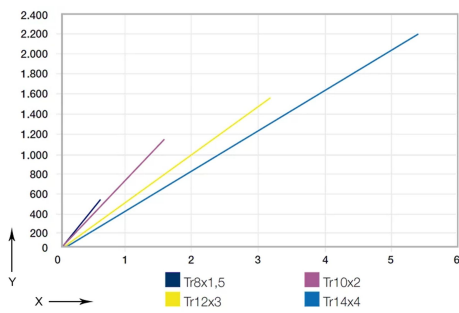
### Wear test on a VA lead screw

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

x = Different materials

y = Wear [mg/km]



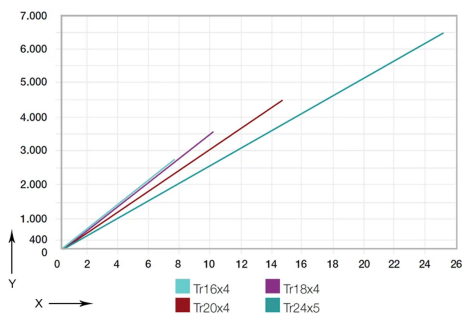


#### Required drive torque lead screw modules Ø8 to Ø14

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

x = Torque [Nm]

y = Load [N]

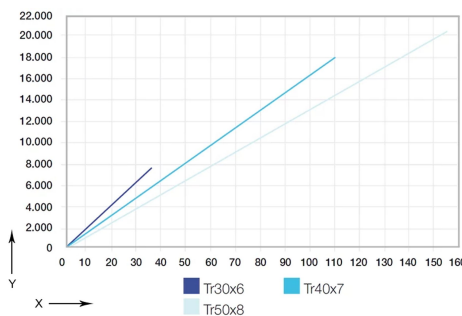


#### Required drive torque lead screw modules Ø16 to Ø24

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

x = Torque [Nm]

y = Load [N]



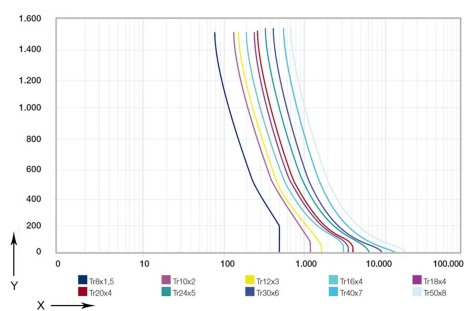
#### Required drive torque lead screw modules Ø30 to Ø50

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

x = Torque [Nm]

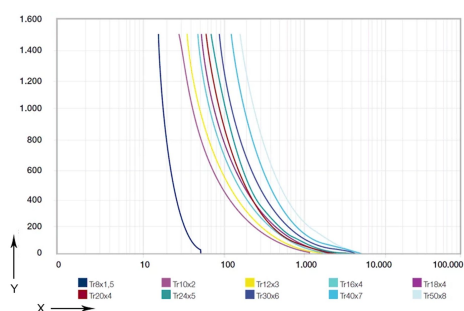
y = Load [N]





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]