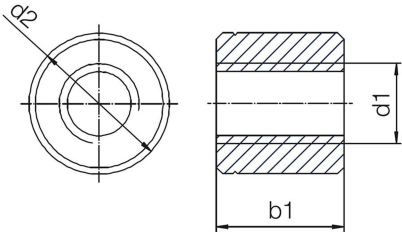


dryspin® lead screw nut, high helix thread, E7SRM
DST-E7SRM-1413DS6.35X2.54



Product description

Introducing the dryspin lead screw nut, high helix thread, E7SRM by igus. Crafted from the high-performance polymer iglidur E7, this nut is designed for high speeds up to 1,200rpm with low loads, ensuring efficient operation. It features excellent vibration dampening and noise reduction, making it perfect for various applications. With a temperature range of up to +60°C, this durable and maintenance-free component is ideal for demanding environments, providing reliable and quiet performance.

Requirements

Mould-resistant according to DIN EN ISO 846 Procedure A	No
Max. axial static pressure load	86 N

General properties

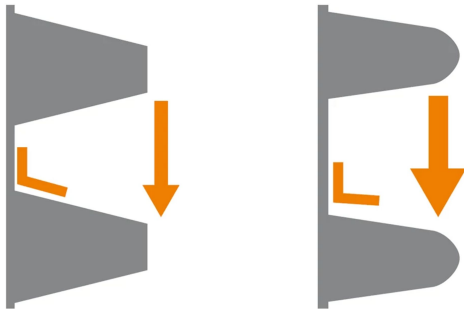
Thread direction	Right-hand thread
Thread type	High helix threads; higher pitch and movement speed
Weight	19.78 g
With spanner flat	No

Dimensions

Thread size	DS6.35X2.54
Ø d1	6.35 mm
Ø d2	14 mm
b1	13 mm
Effective supporting surface	172 mm²



Additional information and diagrams

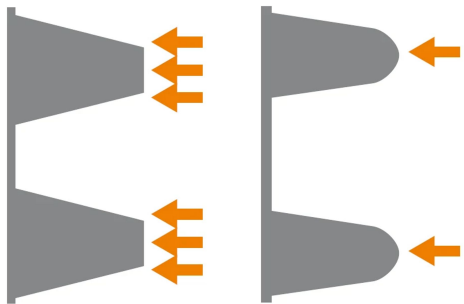


Wear test on a rolled trapezoidal lead screw

Due to a flatter thread angle in dryspin® high helix lead screws (similar to a trapezoidal thread), the applied force is efficiently converted into a translational motion. Compared with a steeper thread angle, this means a lower power loss.

Left: Steep flank angle, standard geometry

Right: Flat flank angle, dryspin® geometry



Low noise and vibration dampening due to rounded tooth geometry

Due to the radius tooth design, the contact surface between the lead screw nut and the lead screw is reduced. This means that the dryspin® lead screw nuts move without vibration and are virtually silent. This is due to the fact that the greater the contact of two surfaces moving against one another, the more vibrations are transmitted, which can be perceived as a rattle or squeak. The rounded teeth minimise this effect and the thread moves quietly and without lubrication.

Left: Angular-toothed flanks, standard geometry

Right: Round toothed flanks, dryspin® geometry