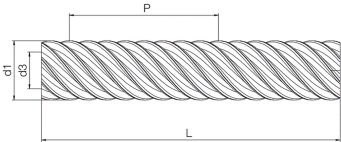


dryspin® high helix lead screw, left-hand thread,
1.4301 stainless steel

DST-LS-20X50-L-ES



dryspin® high helix lead screw, left-hand
thread, 1.4301 stainless steel

- Outer diameter: 4-20mm
- Pitch: 2.4-100mm
- Multi start
- Not self-locking

Product description

Introducing the dryspin high helix lead screw, featuring a left-hand thread made from durable 1.4301 stainless steel. This innovative lead screw is designed for fast and efficient linear motion, ensuring a maintenance-free dry running experience. With a corrosion-free construction, it operates quietly and is resistant to dust and dirt, providing a longer service life. Experience enhanced efficiency and reliability with this advanced solution from the dryspin family, perfect for your application needs.

General properties

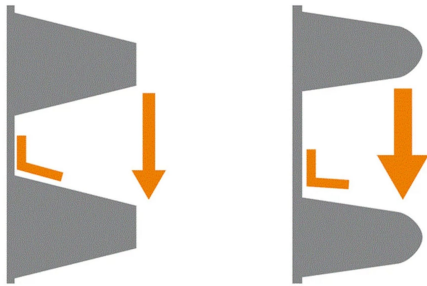
Thread direction	Left-hand thread
Thread type	High helix thread dryspin; highest efficiency
Number of threads	8
Weight	2480 g
Lead screw material	stainless steel 1.4301

Dimensions

Thread size	DS20X50
Pitch P	50 mm
Pitch angle α	38.51 °
Outer diameter $\varnothing$ d1 min.	20 mm
Outer diameter $\varnothing$ d1 max.	20 mm
Core diameter $\varnothing$ d3 min.	15.6 mm
Core diameter $\varnothing$ d3 max.	15.6 mm
max. length	3000 mm



Additional information and diagrams

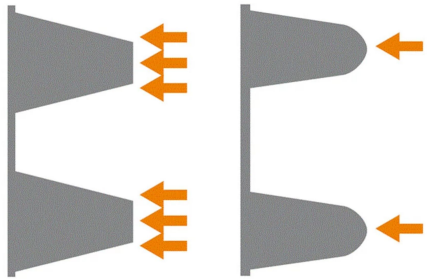


Higher efficiency due to optimised thread angle

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 translatory 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



Quiet and vibration dampening due to rounded teeth

Due to the radius tooth design, the contact surface between the lead screw nut and the lead screw is reduced. Therefore 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