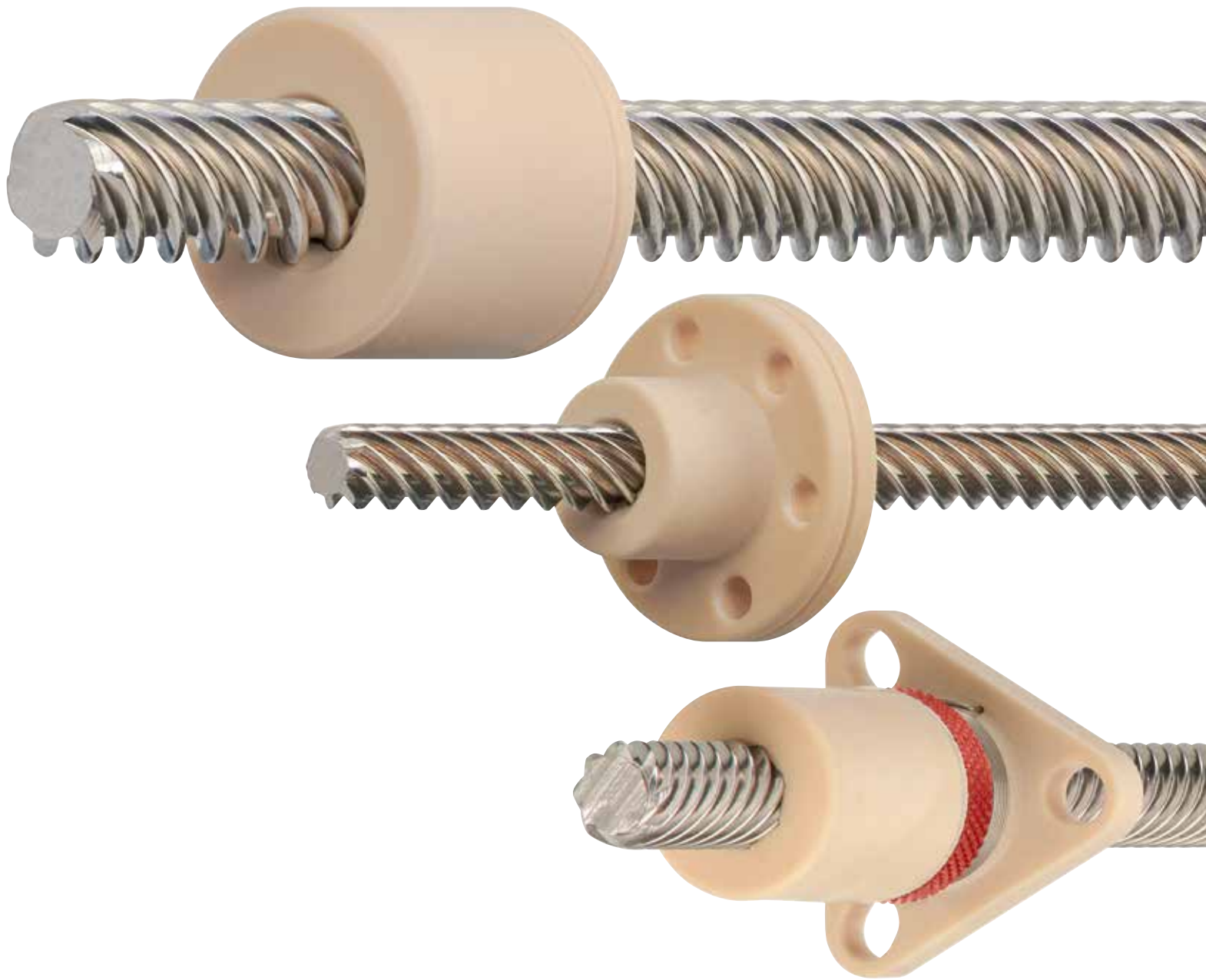


# dryspin<sup>®</sup> ...

Lead Screw Systems ...

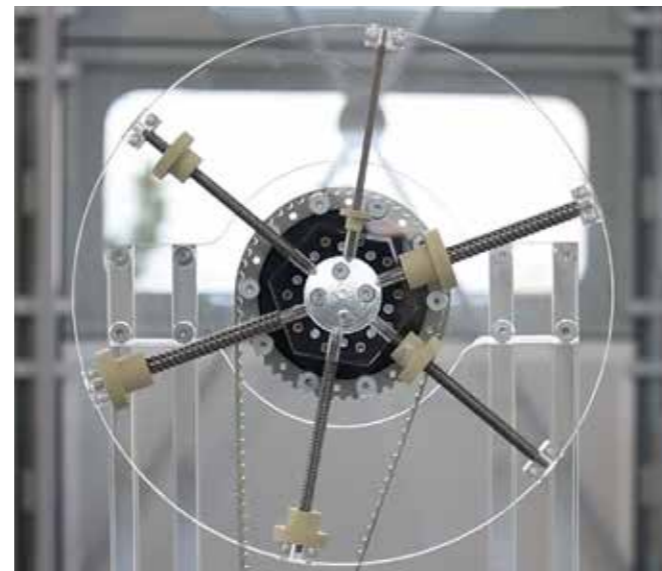


dry-tech<sup>®</sup> ... don't lubricate ... igus<sup>®</sup> ...

# technology

## dryspin® technology for high helix threads

The dryspin® technology is based on wear-resistant igus® high performance polymers specially developed for lead screw units. dryspin® therefore provides an even longer service life and more efficiency for high helix designs. Due to its freedom from lubricants, dryspin® lead screw units are suitable for applications, in clean and hygienic environment.



**dryspin® benefits on video**  
 ▶ [www.igus.eu/dryspin](http://www.igus.eu/dryspin)

### Typical application areas:

- Lab automation ● Closing units
- Automotive ● Medicine ● Handling



max. +50 °C  
 min. ±0 °C



Detailed technical data  
 ▶ [www.igus.eu/drylinSD-technical](http://www.igus.eu/drylinSD-technical)



According to EC Directive 2011/65/EU (RoHS 2)  
 Restriction of (using certain) hazardous substances

Better efficiency through optimised thread angle

Improved service life due to asymmetry

Excellent corrosion and chemical resistance with stainless Steel 1.4301

Lead screw nut made from lubricant-free igus® high performance polymers

Material selection: iglidur® J (standard), iglidur® A180 (FDA-compliant)

Pitch 2–80 mm, Diameter ø 6–18 mm

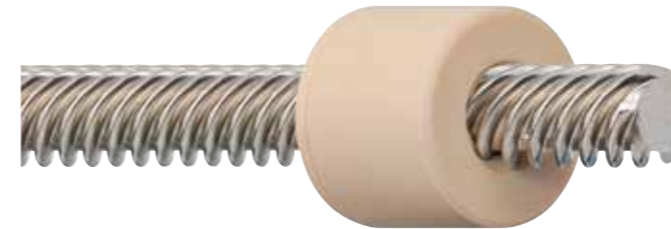
Precision / nominal dimension -0.1 in diameter

Quiet operation with vibration dampening, gained by thread geometry



### dryspin® high helix lead screws

- Excellent corrosion and chemical resistance with stainless Steel 1.4301
  - Diameter ø 6 - 18 mm
  - Precision /nominal dimension -0.1 in Ø
- ▶ Page 6



### dryspin® cylindrical lead screw nuts

- Lubricant-free due to igus® high-performance polymers
  - Efficient and quiet operation
  - Maintenance-free dry operation
- ▶ Page 7



### dryspin® lead screw nuts with flange

- Dirt resistant and corrosion-free
  - Round flange
  - Space-saving more compact flange for easy access
- ▶ from page 8



### dryspin® zero backlash lead screw nut

- Integrated zero-backlash system with spring pretension
  - Minimum backlash
  - For precise positioning
- ▶ Page 10



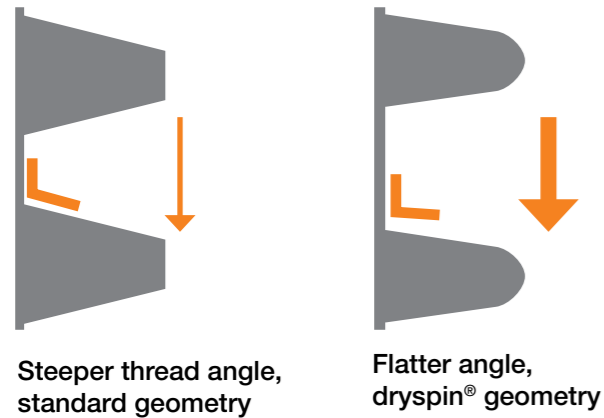
### dryspin® accessories

- Lead screw support blocks for dryspin® high helix lead screws
  - Nut clamp for dryspin® lead screw nut
  - drylin® E lead screw motor with dryspin® technology
- ▶ Page 11



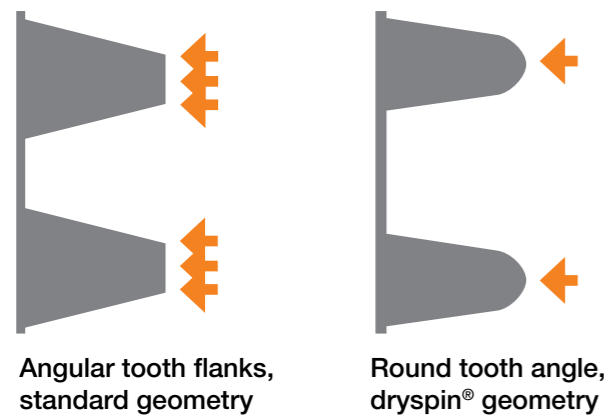
**Better efficiency due to optimised thread angle**

Due to a flatter thread angle of about 30°, in dryspin® high helix lead screws (similar to a trapezoidal thread) the applied force is efficiently converted into a linear motion. Compared with a steeper thread angle, this means less power loss.



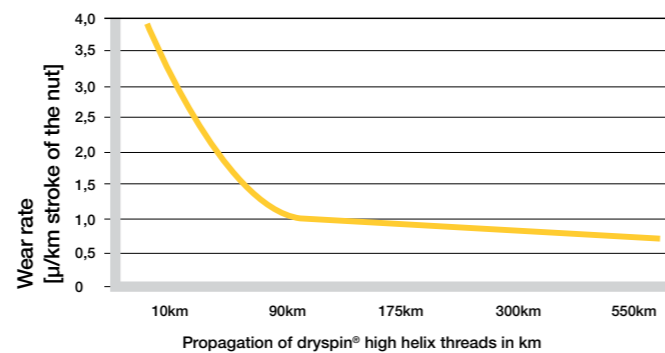
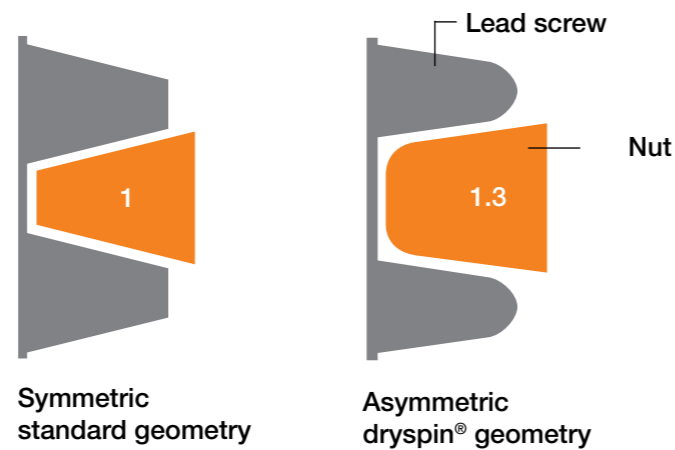
**Low noise and vibration dampening due to radius tooth geometry**

Due to a rounded tooth flank geometry, the contact surface between the lead screw nut and the lead screw is reduced. Therefore the dryspin® lead screw nuts move without vibration, virtually silent. Because, 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 form minimises this effect and the thread moves without lubrication and with little noise.

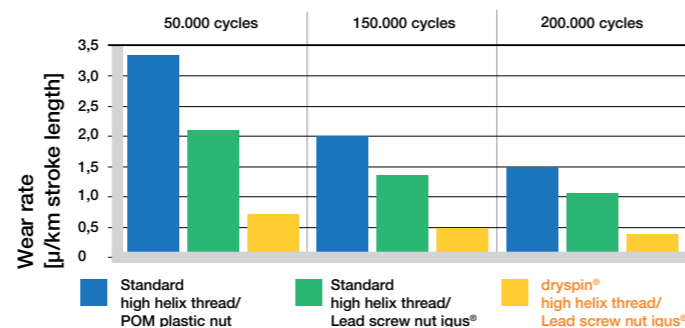


**Extended service life due to asymmetry**

Due to the larger distances between the individual dryspin® thread pitch, the thread perfectly matches the properties of the lubricant-free igus® high performance polymers. The proportion of the tribologically optimised polymer in the thread pitch can be extended in all sizes by a factor of 1.3. More wear-resistant material and higher levels of efficiency are crucial for up to 5 times higher service life of standard geometries. The larger the lead screw diameter the bigger the impact of this effect. Backlash can be minimised by the use of dryspin® zero-backlash threaded nuts with integrated spring pretension.



Wear test dryspin® high helix thread 10x25, load 175 N, 540 mm stroke, 125 rev/min



Wear test high helix thread 10x50, dryspin® high helix thread/standard high helix thread Load 36 N , 100 rev/min at 50,000/150,000/200,000 cycles

**Tested: Lubricant-free iglidur® materials from igus®**

Liners, gliding elements and lead screw nuts from drylin® adapted for your application.

Lubricant-free – tested – predictable

- 15,000 tribology tests per year
  - More than 300 parallel test machines
  - 140 trillion test movements
  - Continuous testing of drylin® guides
- [www.igus.eu/test](http://www.igus.eu/test)



Insight into the igus® plain bearings laboratory



Test rig for service life determination

**dry-tech® polymers**

igus® high performance polymers are used in all drylin® linear and drive units as well as screw drives. The lubricant is incorporated into the bearing material, rendering the bearing materials suitable for dry-running conditions, e.g. they are maintenance-free for their entire service life.

**Material selection**

drylin® lead screw nuts are made from tribologically optimised materials. Already during the development phase, the focus is on optimising the friction properties of the drylin® lead screw units, with the objective of attaining the lowest possible wear rates and good friction values.

igidur® J is characterised by the best friction values with low moisture absorption.

► [www.igus.eu/J](http://www.igus.eu/J)

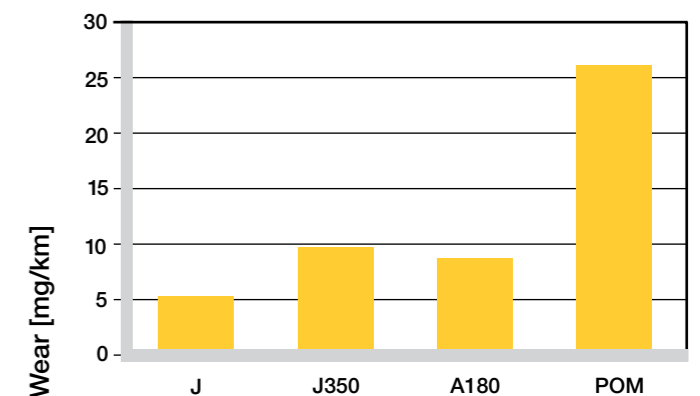
igidur® A180 corresponds to the requirements of the Food and Drug Administration (FDA) and can therefore be used in direct contact with food and medicines.

► [www.igus.eu/A180](http://www.igus.eu/A180)

**Service life**

Every year, several hundred tests are set up and performed on test rigs in the igus® test laboratory. The results are incorporated into online tools, where the service life and the required torque can be determined.

► [www.igus.eu/drylinSD-finder](http://www.igus.eu/drylinSD-finder)

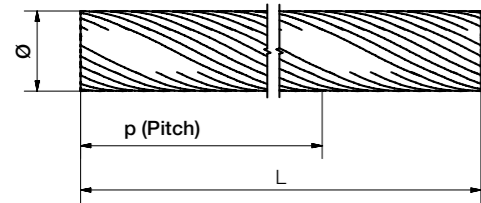


Wear test on C15 lead screw drive [mg/km]

Stroke 140 mm, 50 N, lead screw C15 rolled, 450 rev/min

# dryspin® | Lead Screws | Product Range

Corrosion-resistant, made of material 1.4301 – Precision / nominal dimension -0.1



Order key

Part number	Thread dimension	Options
-------------	------------------	---------

**DST-LS-10x50-R-xx-ES**

dryspin® technology	Lead screw	Outer Ø [mm]	Pitch P [mm]	Rotational direction	<b>Length</b>	Lead screw material
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Options

Length in [mm]

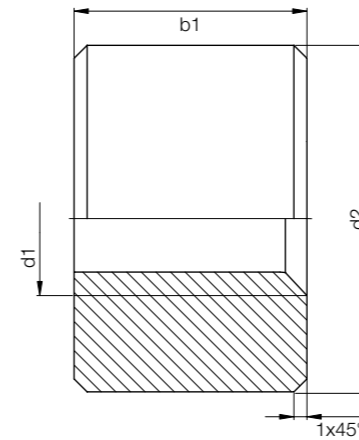
Any value up to maximum, see product range

## Dimensions [mm]

Thread	Ø	Pitch P	Max. length L	Order number
Ds6.35x-2.54	6.35	2.54	1.000	DST-LS-6.35x2.54-R-ES
Ds6.35x-25.4	6.35	25.4	1.000	DST-LS-6.35x25.4-R-ES
Ds10x12	10	12	3.000	DST-LS-10x12-R-ES
Ds10x25	10	25	3.000	DST-LS-10x25-R-ES
Ds10x50	10	50	3.000	DST-LS-10x50-R-ES
Ds14x25	14	25	3.000	DST-LS-14x25-R-ES
Ds14x30	14	30	3.000	DST-LS-14x30-R-ES
Ds16x35	16	35	3.000	DST-LS-16x35-R-ES
Ds18x40	18	40	3.000	DST-LS-18x40-R-ES*
Ds18x80	18	80	3.000	DST-LS-18x80-R-ES

# dryspin® | Lead Screw Nuts | Product Range

Cylindrical design, made of iglidur® J



Order key

Part number	d2	b1	Thread
-------------	----	----	--------

**DST-JSRM-1413DS10x12**

dryspin® technology	igidur® J	Cylindrical	Right hand thread	Metric	Outer Ø [mm]	Length [mm]	Thread type	Thread Ø [mm]	Pitch P [mm]
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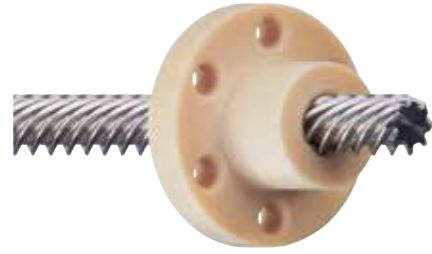
Detailed technical data and installation instructions online  
 ▶ [www.igus.eu/drylinSD-technical](http://www.igus.eu/drylinSD-technical)

## Technical data and dimensions [mm]

Thread	d1	d2	b1	Bearing surface ratio [mm²]	Max. stat. F axial [N]	Order number
Ds6.35x2.54	6.35	14	13	172	152	DST-JSRM-1413DS6.35x2.54
Ds6.35x25.4	6.35	14	13	75	152	DST-JSRM-1413DS6.35x25.4
Ds10x12	10	22	20	302	755	DST-JSRM-2220DS10x12
Ds10x25	10	22	20	249	623	DST-JSRM-2220DS10x25
Ds10x50	10	22	20	146	365	DST-JSRM-2220DS10x50
Ds14x25	14	30	27	448	1.120	DST-JSRM-3027DS14x25
Ds14x30	14	30	27	373	932	DST-JSRM-3027DS14x30
Ds16x35	16	36	32	680	1.700	DST-JSRM-3632SD16x35
Ds18x40	18	40	36	802	2.005	DST-JSRM-4036DS18x40*
Ds18x80	18	40	36	601	1.503	DST-JSRM-4036DS18x80

# dryspin® | Lead Screw Nuts | Product Range

With flange, made of iglidur® J

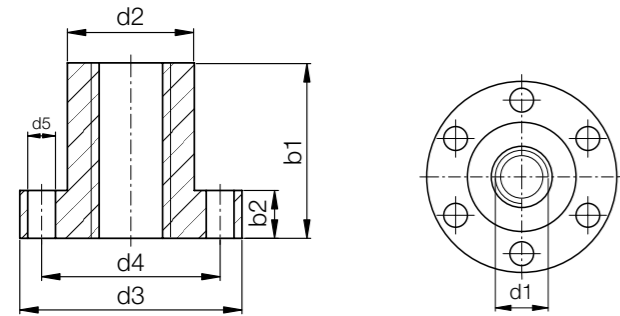


Order key

Part number	d2	b1	Thread
-------------	----	----	--------

**DST-JFRM-2525DS10x12**

dryspin® technology	iglidur® J	With flange	Right hand thread	Metric	Outer Ø [mm]	Length [mm]	Thread type	Thread Ø [mm]	Pitch P [mm]
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Detailed technical data and installation instructions online  
 ▶ [www.igus.eu/drylinSD-technical](http://www.igus.eu/drylinSD-technical)

## Technical data and dimensions [mm]

Thread	d1	d2	d3	d4	d5	b1	b2	Bearing surface ratio	Max. stat. F axial	Order number
								[mm <sup>2</sup> ]	[N]	
Ds6.35x2.54	6.35	13	25	15	3.2	15	5	199	125	DST-JFRM-1315DS6.35x2.54
Ds6.35x25.4	6.35	13	25	15	3.2	15	5	87	125	DST-JFRM-1315DS6.35x25.4
Ds10x12	10	25	42	34	5	25	10	377	943	DST-JFRM-2525DS10x12
Ds10x25	10	25	42	34	5	25	10	311	778	DST-JFRM-2525DS10x25
Ds10x50	10	25	42	34	5	25	10	183	458	DST-JFRM-2525DS10x50
Ds14x25	14	28	48	38	6	35	12	581	1.452	DST-JFRM-2835DS14x25
Ds14x30	14	28	48	38	6	35	12	484	1.210	DST-JFRM-2835DS14x30
Ds16x35	16	28	48	38	6	35	12	680	1.700	DST-JFRM-2835DS16x35
Ds18x40	18	28	48	38	6	35	12	779	1.947	DST-JFRM-2835DS18x40
Ds18x80	18	28	48v	38	6	35	12	584	1.460	DST-JFRM-2835DS18x80

# dryspin® | Lead Screw Nuts | Product Range

With compact flange, made of iglidur® J

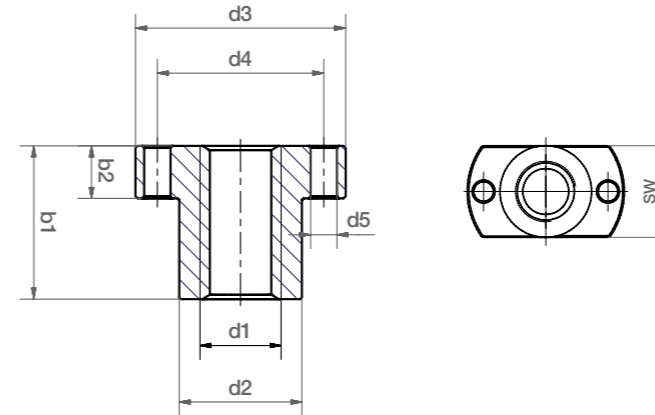


Order key

Part number	SW	b2	b1	Thread
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**DST-JFRM-252525DS10x12**

dryspin® technology	iglidur® J	With flange	Right hand thread	Metric	Wrench size [mm]	Outer Ø [mm]	Length [mm]	Thread type	Thread Ø [mm]	Pitch P [mm]
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Detailed technical data and installation instructions online  
 ▶ [www.igus.eu/drylinSD-technical](http://www.igus.eu/drylinSD-technical)

## Technical data and dimensions [mm]


Thread	d1	SW	d2	d3	d4	d5	b1	b2	Bearing surface ratio	Max. stat. F axial	Order number
									[mm <sup>2</sup> ]	[N]	
Ds6.35x2.54	6	13	13	25	19	3.2	15	5	199	125	DST-JFRM-131315DS6.35x2.54
Ds6.35x25.4	6	13	13	25	19	3.2	15	5	87	125	DST-JFRM-131315DS6.35x25.4
Ds10x12	10	25	25	42	34	5	25	10	377	943	DST-JFRM-252525DS10x12
Ds10x25	10	25	25	42	34	5	25	10	311	778	DST-JFRM-252525DS10x25
Ds10x50	10	25	25	42	34	5	25	10	183	458	DST-JFRM-252525DS10x50
Ds14x25	16	28	28	48	38	6	35	12	571	1.428	DST-JFRM-282835DS14x25
Ds14x30	16	28	28	48	38	6	35	12	570	1.425	DST-JFRM-282835DS14x30



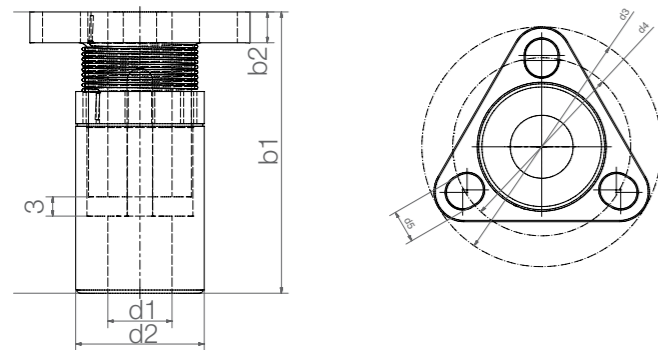
# dryspin® | Lead Screw Nuts | Product Range


Zero backlash, for minimum backlash made of iglidur® J



 **Order key**

Part number	Type	Thread
<b>DST-JFRM-ZB-0001-DS10x12</b>		
dryspin® technology	iglidur® J	
With flange	Right hand thread	
Metric	Zero backlash	
	Type 0001	
	Thread type	
	Thread Ø [mm]	
	Pitch P [mm]	




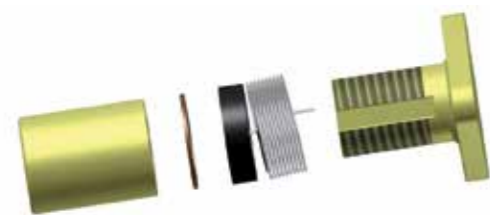
 **Detailed technical data and installation instructions online**  
 ▶ [www.igus.eu/drylinSD-technical](http://www.igus.eu/drylinSD-technical)

## Dimensions [mm]

Thread	d1	d2	d3	d4	d5	b1*	b2	Order number
DS6.35x2.54	6.35	13.5	28	22.2	3.7	31-36	4.1	DST-JFRM-ZB-0001-DS6.35x2.54
DS6.35x25.4	6.35	13.5	28	22.2	3.7	31-36	4.1	DST-JFRM-ZB-0001-DS6.35x25.4
DS10x12	10	20	38.1	28.3	5.2	41-47	4.8	DST-JFRM-ZB-0001-DS10X12
DS10x25	10	20	38.1	28.3	5.2	41-47	4.8	DST-JFRM-ZB-0001-DS10X25
DS10x50	10	20	38.1	28.3	5.2	41-47	4.8	DST-JFRM-ZB-0001-DS10X50

\* Variable according to thread pitch/clearance

 **Installation instructions and video tutorials**  
 ▶ [www.igus.eu/zero-backlash-nut](http://www.igus.eu/zero-backlash-nut)



# dryspin® | Accessories

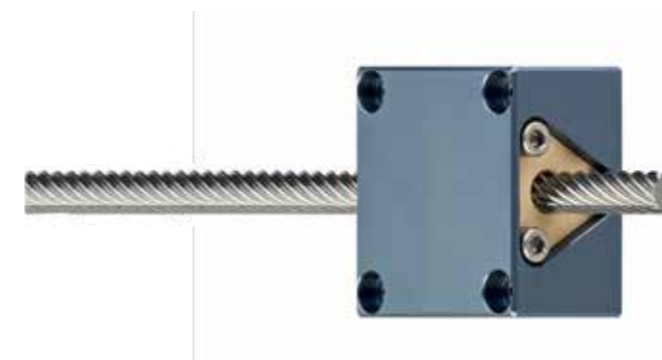
Accessories for the dryspin® technology

igus® offers a large construction kit for dryspin® lead screw units. Bearing housing for lead screws and lead screw nuts enable the construction of an individual linear table. With drylin® E NEMA lead screw motors, dryspin® combines the highest precision with a longer service life.



## Lead screw support blocks

- Lead screw support block including clamping rings and lubrication-free plain bearings
- Material: aluminium anodised
- Fixed and floating bearing version available
- ▶ [www.igus.eu/SLS](http://www.igus.eu/SLS)



## Lead screw nut retainer

- Universal support for dryspin® flange lead screw nut
- Material: aluminium anodised
- Available individually or pre-assembled
- ▶ [www.igus.eu/SD-MH](http://www.igus.eu/SD-MH)



## drylin® E lead screw motor with dryspin® technology

- NEMA 11/17/23 stepper motors
- Direct centring of the dryspin® lead screw for highest precision
- Many combination options
- ▶ [www.igus.eu/dryspin-motor](http://www.igus.eu/dryspin-motor)



## Special components

- Required dimension of lead screw nut and standard pin machining configurable online
- Custom machining nuts/lead screw on request

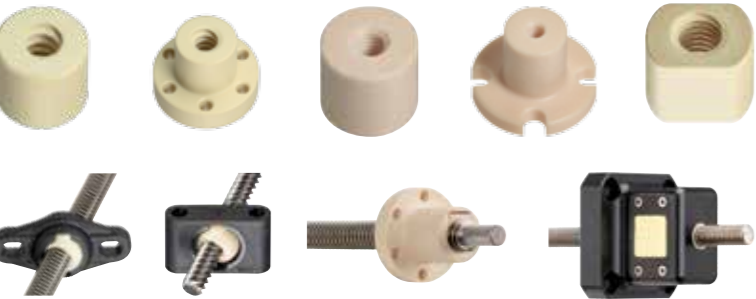
# Further solutions with drylin® lead screw units

Lead screws, lead screw nuts, drive technology



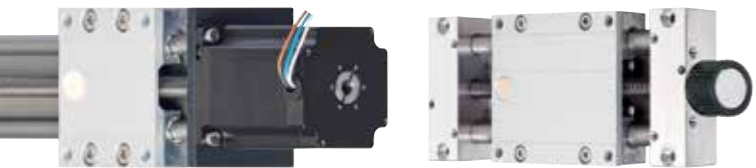
## Lead screws

- Trapezoidal thread, material steel/stainless steel/aluminium, right- and left-handed
  - Metric thread, material stainless steel
  - Right/left and reverse
- [www.igus.eu/drylinSD](http://www.igus.eu/drylinSD)



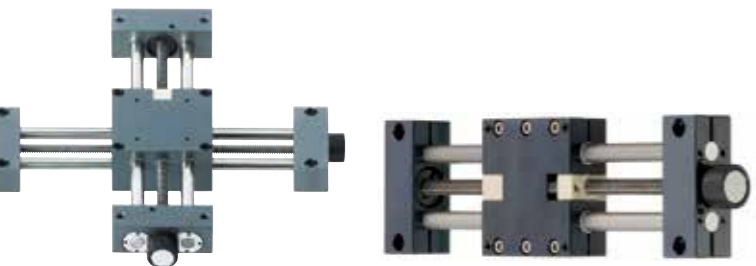
## Lead screw nuts

- Trapezoidal thread
  - Metric threads
  - Anti-backlash for trapezoidal thread
  - FF Fast Forward - quick-release nut
  - Spherical lead screw nut
  - Special designs
- [www.igus.eu/drylinSD](http://www.igus.eu/drylinSD)



## SHT/SLW/SAW linear module with lead screw drive

- For manual and motor-operated adjustments
  - With trapezoidal thread or high helix thread
  - Motor-construction kit (NEMA stepper motors/DC motors)
  - Online product finder/configurator
- [www.igus.eu/drylinSHT](http://www.igus.eu/drylinSHT)



Find online  
► [www.igus.eu/SHT-productfinder](http://www.igus.eu/SHT-productfinder)



Configure online  
► [www.igus.eu/SHT-configurator](http://www.igus.eu/SHT-configurator)



Technical advantages simply explained  
► [www.igus.eu/best/SLW](http://www.igus.eu/best/SLW)

# dryspin® | Online

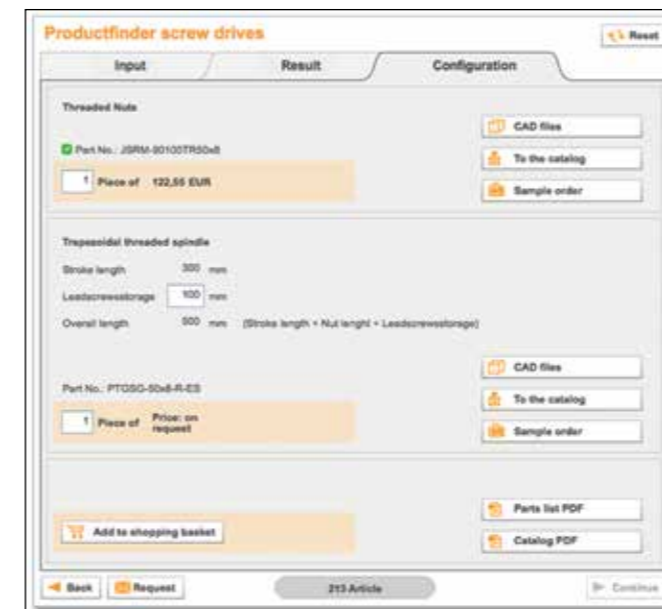
Computing and calculating



## Calculate the service life of lead screw units online.

From now on, lead screw units and nuts of the dryspin® technology can also be selected and calculated. The lead screw nuts are made of the wear-resistant igus® high performance polymer iglidur® J. In addition, diverse lead screw and nut materials continue to be available, their suitability for the application, as well as the expected life can be calculated. The selected products can be ordered quickly and easily online. Delivered in 24-48 hrs. Materials are available for high efficiencies, wear resistance, high temperatures, as well as FDA conformity.

► [www.igus.eu/drylinSD-finder](http://www.igus.eu/drylinSD-finder)





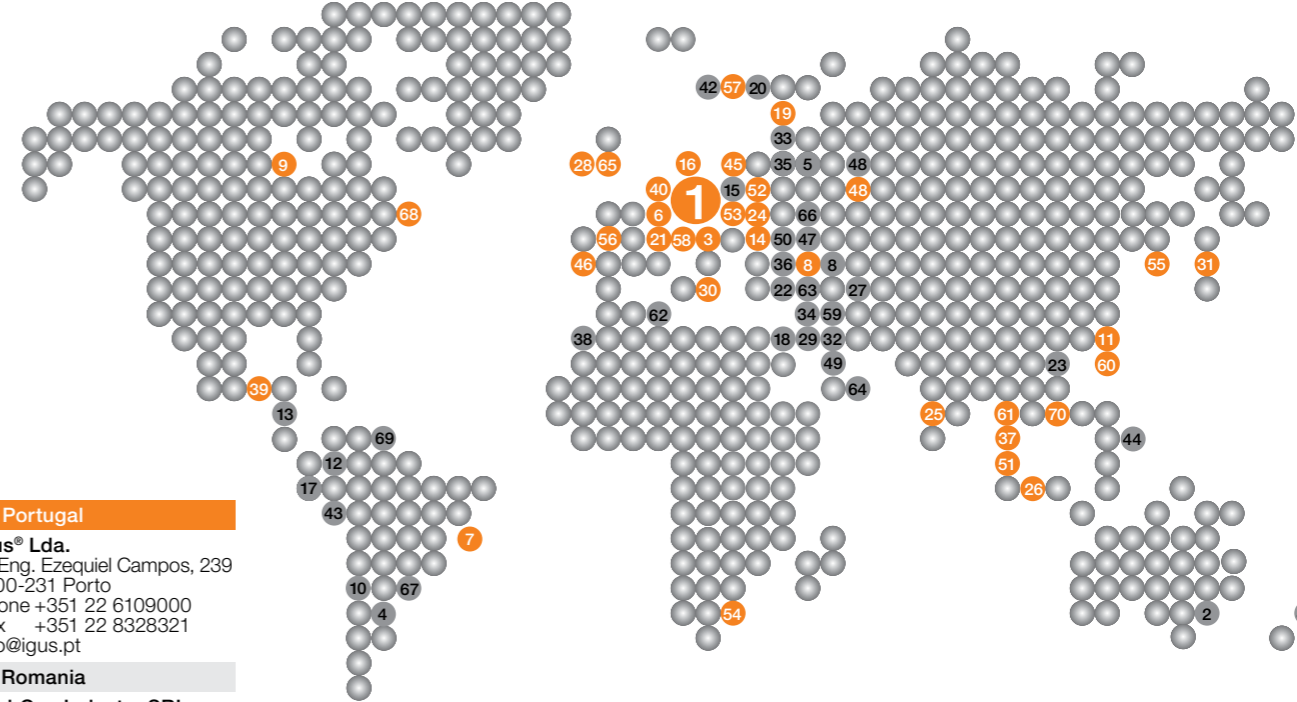
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