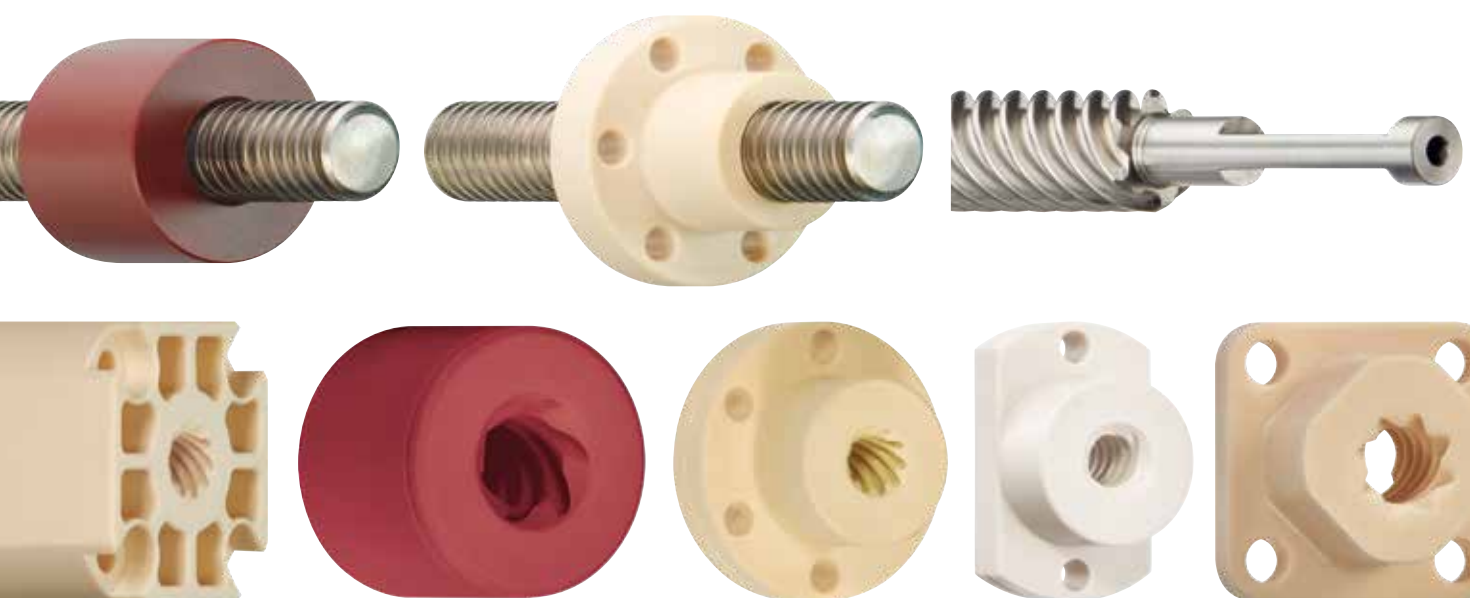


dryspin[®]

Lead screw technology



...plastics



CNC equipment

The dryspin® lead screw drives are subjected to high loads in this application, as Peter Urban explains: "When the tool mills a circle into the material, high and overlapping forces act on the axes". Because the machine processes a wide variety of materials, and at very different feed speeds, it is not possible to completely rule out the possibility of vibration from a design point of view. In this case, according to the experience of the Stepcraft designers, a drop of oil helps as a damper: "Then there is an even better running behaviour."

► www.igus.eu/milling



Aircraft simulator

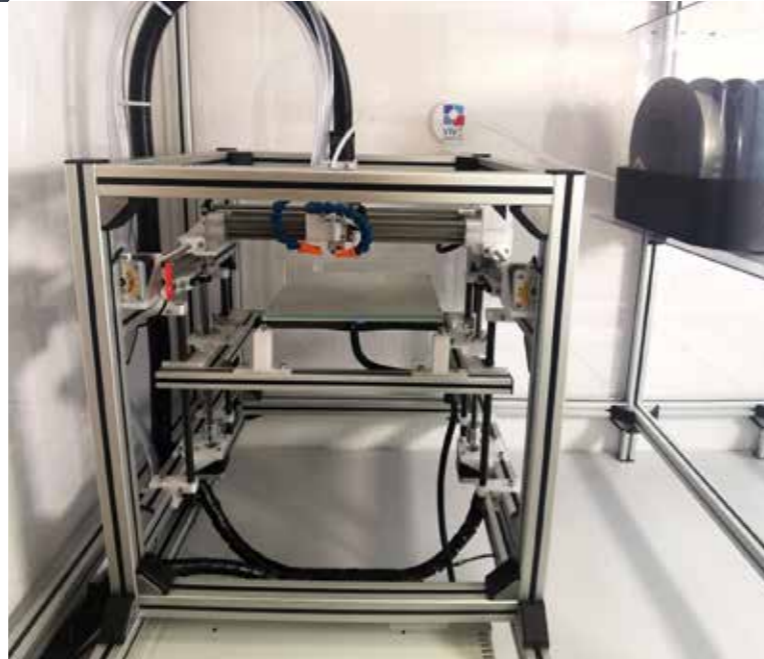
The lead screw drives were used to control the two throttle levers. The system worked so well that a similar system was used to drive the speed brake lever (to control the simulated air brakes) mounted in the same throttle module. The products were the perfect blend of low cost, high reliability, and very simple reverse control. The low costs made it possible to meet the target price for the simulated throttle valves.

► www.igus.eu/aircraft-throttle

Cleanroom 3D printer

In this application, a precise, reliable cleanroom 3D printer is used for processing thermoplastics. High helix and trapezoidal lead screws with high efficiency for all drive axes were the ultimate solution to the problem of VIVECube - Clean Precision cleanroom capability. It was the only suitable solution for low-abrasion linear drives that was also cost-effective.

► www.igus.eu/cleanroom-printer



Compact automation solution

An easy-to-use, high-quality automation solution was required. Further requirements were high precision and flexibility, reliable and high-performance components, as well as the highest hygiene standards. Without the use of oils or fats as lubricants, we can meet the highest hygiene requirements with our lead screw technology. In addition, use in dry operation saves a large amount of cleaning and maintenance costs and wear is also significantly reduced.

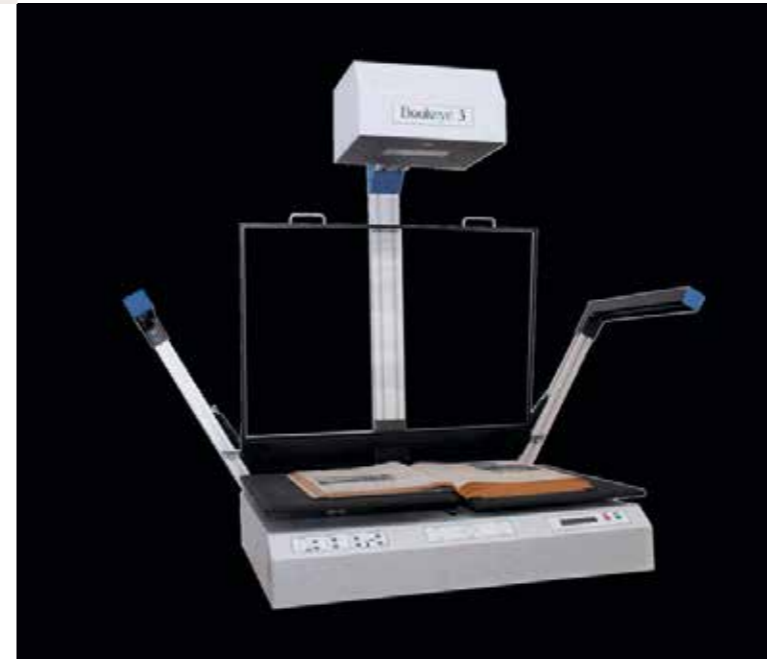
► www.igus.eu/dryspin-automation



Actuator

Precise movement and positioning of the actuators without regular maintenance and with the highest accuracy, even under adverse environmental conditions, was required. The freedom from lubrication and maintenance does not allow dirt and dust to adhere. ARIS uses dryspin® drives from the igus® standard product range, and only the outer geometry of the nut has been individually adjusted. In the lead screw support block, two axial plain bearings made of the igus® high-performance polymer iglidur® Q ensure the absorption of high loads; at the same time, the clearance of the unit can be adjusted via the thrust bearing.

► www.igus.eu/actuators



All of the main components of the mechanical movements, such as the linear axis, plain bearings, guide systems, etc. use igus® products. Further applications from a wide range of industries can be found at

► www.igus.eu/dryspin-applications

Lead screws - dryspin® thread and dryspin® high helix thread



dryspin® high helix lead screws

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dryspin® lead screws with standard pitches

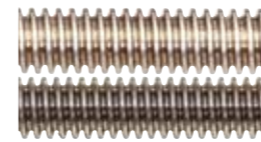
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High helix lead screws with right/left opposite drive

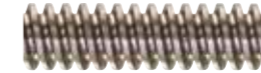
► Page 380

Lead screws - trapezoidal thread according to DIN 103



Trapezoidal lead screws

► Page 382



Multi start trapezoidal lead screw

► Page 384



LH/RH trapezoidal lead screws

► Page 386

Lead screws - metric and ACME threads



Metric lead screws

► Page 388



USA - standard "ACME"

► Page 390

Lead screws - motor spindles - ready-to-install



Lead screws with precision machining

► Page 391



Lead screws with splines

► Page 392

Lead screw nuts - with dryspin® thread geometry



Cylindrical lead screw nuts

► Page 398



Cylindrical lead screw nuts with spanner flat

► Page 402



Lead screw nuts with flange

► Page 406



Lead screw nuts with spanner flat and flange

► Page 410



Injection-moulded lead screw nuts with machined thread

► Page 414



dryspin® heavy duty lead screw nuts

► Page 422

Lead screw nuts - trapezoidal thread



Cylindrical lead screw nuts

► Page 428



Cylindrical lead screw nuts with spanner flat

► Page 434



Lead screw nuts with flange

► Page 436



Lead screw nuts with spanner flat and flange

► Page 440



Injection-moulded lead screw nuts with machined thread

► Page 442



Injection-moulded lead screw nuts

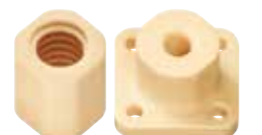
► Page 444

Metric thread



Cylindrical lead screw nuts, Injection-moulded lead screw nuts with flange

► Page 448



Injection-moulded lead screw nuts with metric machined thread

► Page 450

Lead screw nuts - ACME threads



Cylindrical lead screw nuts

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Lead screw nuts with flange

► Page 453



Injection-moulded lead screw nuts with machined thread

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Low-clearance lead screw nuts - dryspin® thread



Zero-backlash lead screw nuts (ZB)

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Flange lead screw nuts with pre-load (PL)

► Page 458



Low-clearance lead screw nuts (LC)

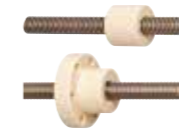
► Page 460

Low-clearance lead screw nuts - trapezoidal thread



Low-clearance lead screw nuts (LC)

► Page 464



Anti-backlash lead screw nuts (AB)

► Page 466

Lead screw nuts for linear modules



For SHT-1210

► Page 470



For SHT-2018

► Page 471



For SLW-0630

► Page 472



For SLW-25120

► Page 473



For SLW-1040

► Page 474



For SLW-1660

► Page 474



For SLW-2080

► Page 475

Special designs



Split lead screw nuts with injection-moulded thread

► Page 476



Pillow block with split lead screw nut

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Spherical lead screw nuts in flanged bearing housing

► Page 478



Spherical lead screw nuts in pillow block bearing housing

► Page 479



Lead screw nuts with quick-release

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Lead screw nut lock disk

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Accessories - lead screw nut housings



Complete lead screw nut housing, including lead screw nut (standard)

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Complete lead screw nut housing, including lead screw nut (zero-backlash)

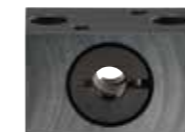
► Page 482



Complete lead screw nut housing, including lead screw nut (linear module)

► Page 482

Accessories - lead screw support blocks



Lead screw support block with fixed bearing

► Page 484



Lead screw support block with floating bearing

► Page 484



Lead screw support blocks with ball bearings

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Clamping rings

► Page 490

dryspin® lead screw technology - special designs



The benefits of the dryspin® design

► Page 356



Interesting facts about lead screw technology

► Page 360



Material overview

► Page 364



Industry examples

► www.igus.eu/dryspin-applications



The biggest lead screw shop online

► www.igus.eu/leadscrewshop



Lead screw configurator

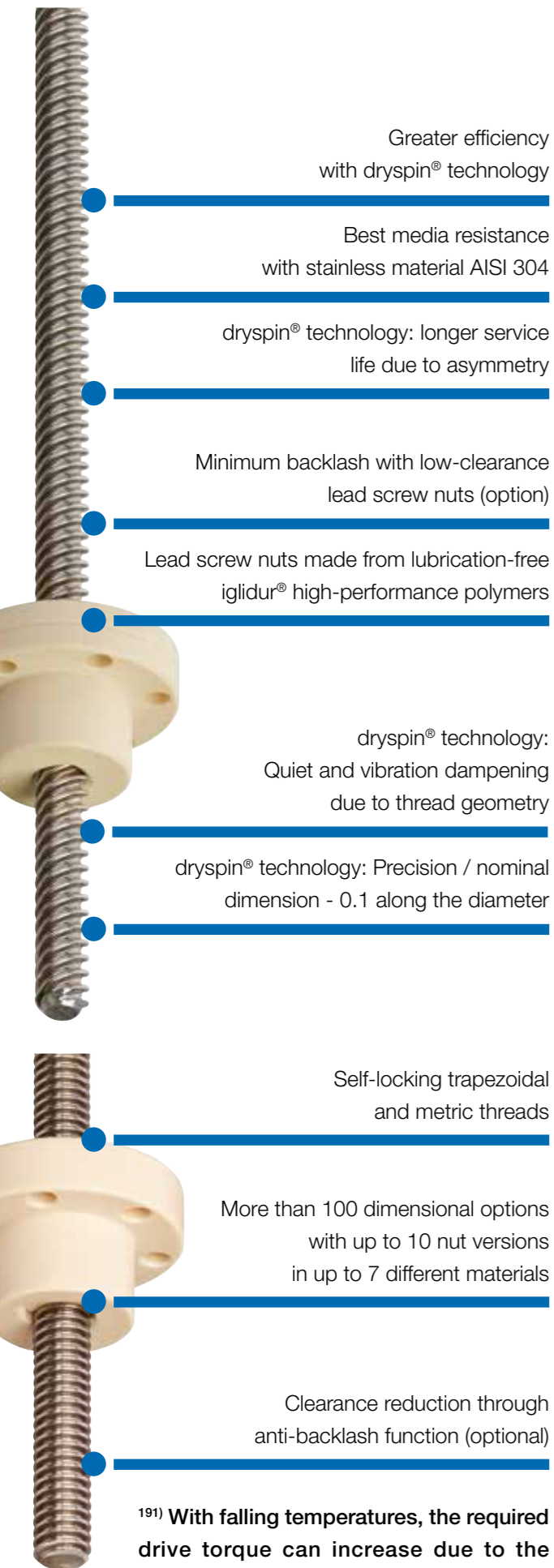
► www.igus.eu/lead-screw-configurator



Service life calculator

► www.igus.eu/drylin-expert

Maintenance-free, quiet operation, dirt-resistant and corrosion-resistant



Greater efficiency with dryspin® technology

Best media resistance with stainless material AISI 304

dryspin® technology: longer service life due to asymmetry

Minimum backlash with low-clearance lead screw nuts (option)

Lead screw nuts made from lubrication-free iglidur® high-performance polymers

dryspin® technology: Quiet and vibration dampening due to thread geometry

dryspin® technology: Precision / nominal dimension - 0.1 along the diameter

Self-locking trapezoidal and metric threads

More than 100 dimensional options with up to 10 nut versions in up to 7 different materials

Clearance reduction through anti-backlash function (optional)

¹⁹¹⁾ With falling temperatures, the required drive torque can increase due to the material.

Lubrication-free dryspin® lead screw technology

Lead screw drives are machine elements that convert rotary movement into linear motion. dryspin® lead screw drives are always based on self-lubricating plastic nuts, enabling long-lasting operation without external lubrication. The dryspin® technology offers a longer service life and greater efficiency for high helix threads thanks to the properties and geometries being tailored to the plastic nut and the lead screw.

- Efficient and durable dryspin® threads and high helix threads
- Self-locking trapezoidal and metric threads
- Maintenance-free dry operation
- Quiet
- Corrosion-free
- Resistant to dirt

Typical application areas

- Format adjustments
- Drive technology
- Optical equipment
- Furniture industry
- Automotive industry

Available from stock
Detailed information about delivery time online.

Price breaks online
No minimum order value. No minimum order quantity

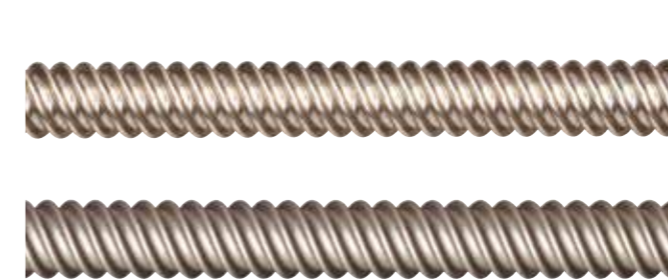
max. +150°C
Min. -20°C¹⁹¹⁾

Service life calculation
▶ www.igus.eu/drylin-expert

Imperial dimensions and ACME thread (USA standard) ▶ Page 390

In accordance with EC Directive 2011/65/EU (RoHS 2) Restriction (of the use of certain hazardous substances)

Threads and high helix threads with dryspin® technology



Threads and high helix threads

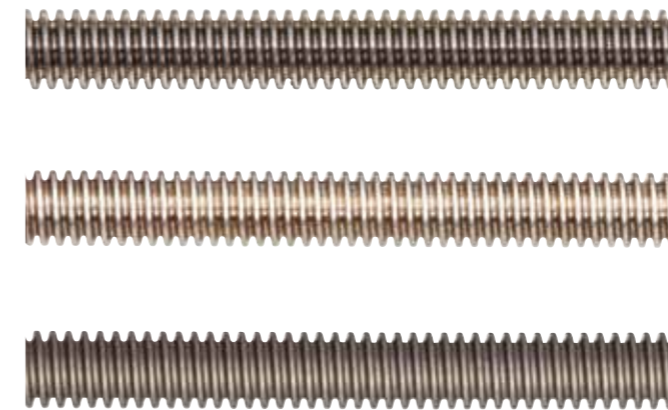
- Material: stainless steel or anodised aluminium
 - Better efficiency due to optimised flank angle
 - Quiet due to thread geometry
 - Long service life due to asymmetric geometry
- ▶ From page 374



Suitable lead screw nuts

- Lubrication-free lead screw nuts made from 6 materials
 - Types: cylindrical, with flange or spanner flat
 - Reduced clearance through zero-backlash
- ▶ From page 398

Self-locking trapezoidal and metric threads



Trapezoidal and metric lead screws

- Material: steel, stainless steel or anodised aluminium
 - Product range from M3 to Tr50x8
 - Multi start lead screws and right/left opposite drive available
- ▶ From page 382

Trapezoidal and metric lead screw nuts

- Lubrication-free lead screw nuts made from 7 different materials
 - Types: cylindrical, with flange or spanner flat
 - Clearance reduction via anti-backlash feature
- ▶ From page 428



Special designs

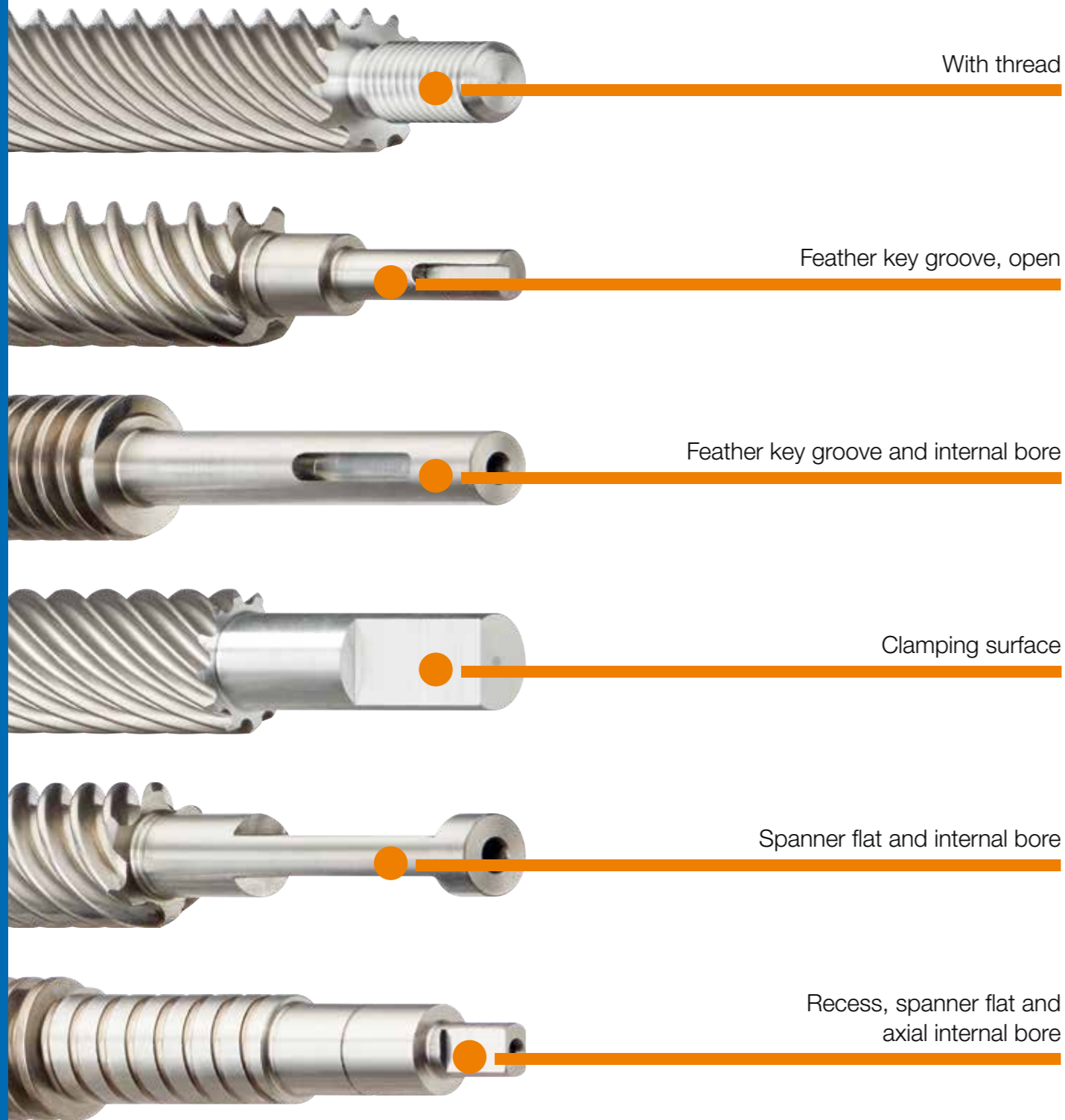
- Heavy-duty lead screw nuts with the same dimensions as ball threads
 - Linear module lead screw nut
 - Split and spherical lead screw nuts with housing
- ▶ From page 469



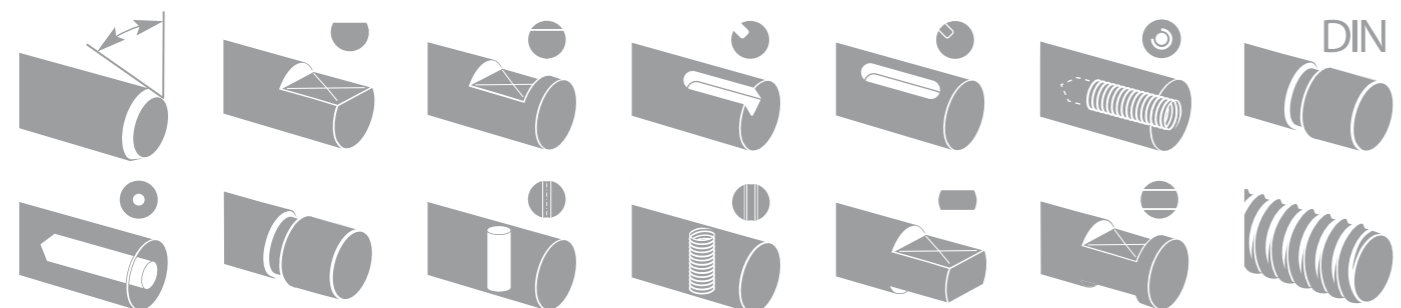
Lead screw technology accessories

- Nut housing for dryspin® lead screw nuts
 - Anodised lead screw support blocks, on plain or ball bearings
 - Clamping ring for securing lead screw
- ▶ From page 484

Lead screw end machining options



A host of machining elements:



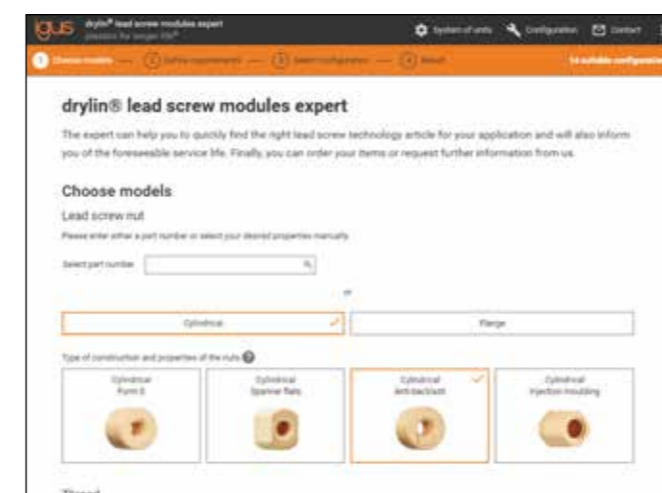
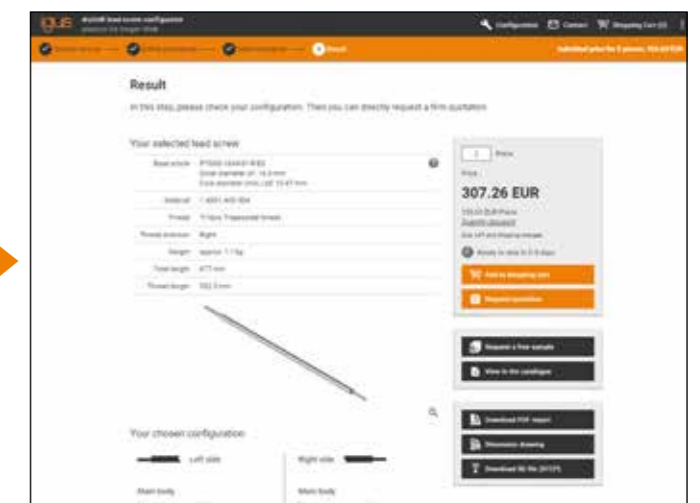
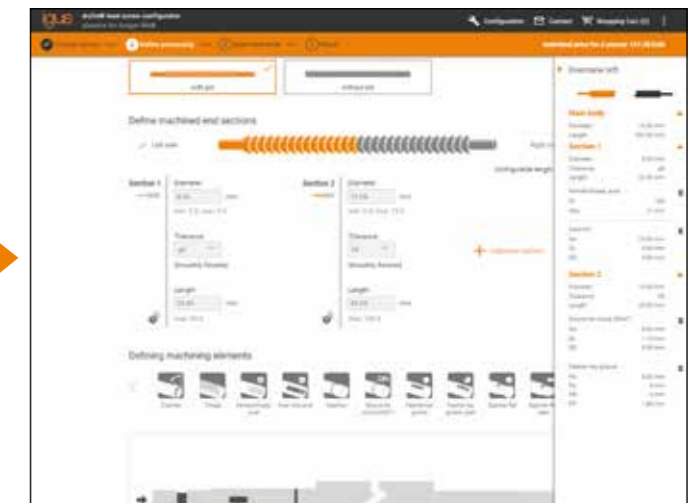
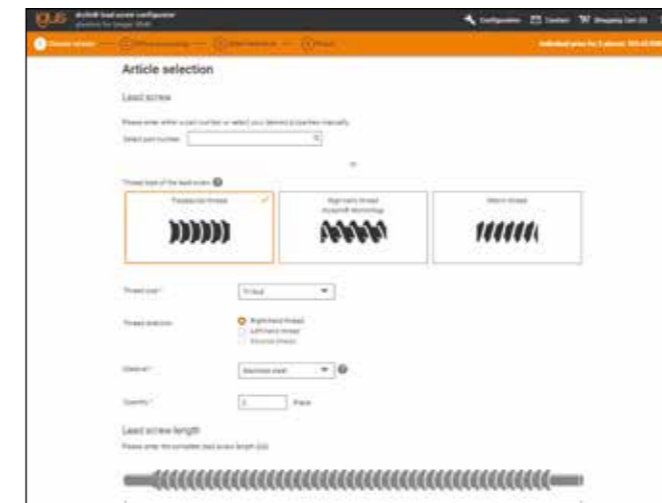
dryspin® configurators

Lead screw configurator

Individually configured lead screws and machined ends can now be generated with just a few clicks. In addition to selection of the lead screw geometry and the materials, there are up to 7 options for machined ends.

- Individual pin machining without CAD software
- 2D dimensioned drawing and 3D step file, generated directly online
- Immediate price calculation with online ordering

► www.igus.eu/lead-screw-configurator



Expert for lead screw drives: find and calculate suitable lead screw drives

Our drylin® expert systems for lead screw drives help you to find the right product quickly whilst giving the predicted service life. You have the option to configure and request your required dimension for lead screw nuts and lead screws.

► www.igus.eu/leadscrew-expert

dryspin® lead screw technology

The dryspin® lead screw technology includes a wide product range of shapes and dimensions for lubrication-free and maintenance-free lead screw drives, with pitches between 0.5 and 100mm.

These include:

- dryspin® threads and high helix threads with optimised thread profile
- Metric thread according to DIN 976
- Trapezoidal thread according to DIN 103
- American ACME threads according to ANSI/SME B1.5

In addition to the freedom from maintenance and lubrication, the main focus is always the insensitivity to external influences such as dirt, water, chemicals or impact loads. A dryspin® lead screw drive consists of a metallic lead screw made of steel, stainless steel or aluminium and a lead screw nut made of tribologically optimised iglidur® high-performance polymers. There are seven different standard materials available for different purposes: iglidur® J, iglidur® J350, iglidur® A180, iglidur® E7, iglidur® R, iglidur® J200 and iglidur® W300. The

use of different tribologically optimised materials enables lead screw technology to meet many required specifications, e.g. withstanding high loads, temperature resistance or FDA conformity. In addition to a large selection of standard materials for the lead screw technology, igus® also offers a large number of variants in the lead screw nut geometry itself. Moreover, lead screw nuts made by injection moulding or machined from iglidur® bar stock have already been able to improve many applications.



General definition of a lead screw drive

Outer diameter:

The distance between the outermost edges of the opposite lead screw flanks is called the lead screw outer diameter, i.e. it is the largest possible diameter on the lead screw. The outer diameter is also known as the nominal diameter.

Core diameter:

The distance between the base of the lead screw, i.e. the lowest point, and the opposite base of the lead screw gives the core diameter. This means it is the smallest diameter on the lead screw.

Pitch diameter:

The distance perpendicular to the axis between two opposite flanks, or the space between the profile centre lines, is called pitch diameter.

Thread flank:

The flank results from the extension of the line from the lead screw base to the tooth flanks or to the end of the profile centre line.

Flank angle:

The flank angle is present on all lead screws. It describes the angle from one flank of the lead screw to the other.

Pitch:

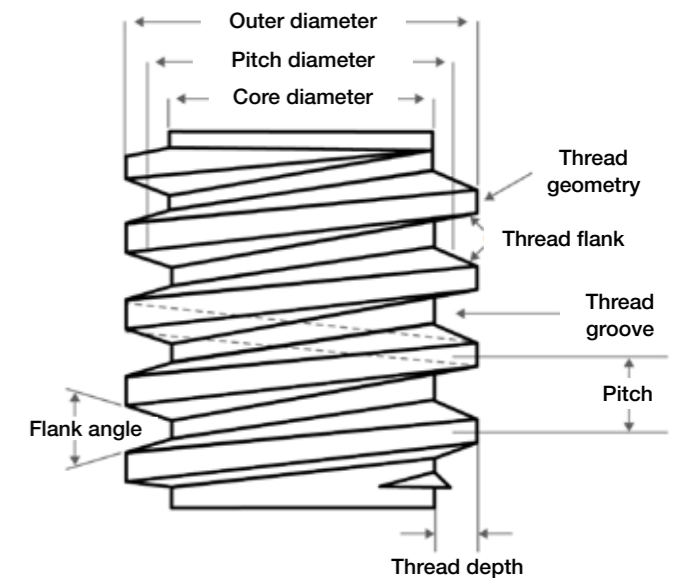
The pitch describes the distance, measured parallel to the axis, between two adjacent and parallel flanks of the same lead screw. It thus indicates in mm the linear travel per revolution of the lead screw. In contrast to a metric or a trapezoidal lead screw, the high helix lead screw has a high pitch. The high helix lead screw can convert a small radial movement into a relatively large axial movement with one revolution.

Thread pitch:

The full circumference of the helical curve of a lead screw.

Manufacturing tolerances:

Trapezoidal threads are manufactured according to DIN 103, metric lead screws according to DIN 976 and the dryspin® high helix and plain lead screws with an outer diameter tolerance of -0.1mm .



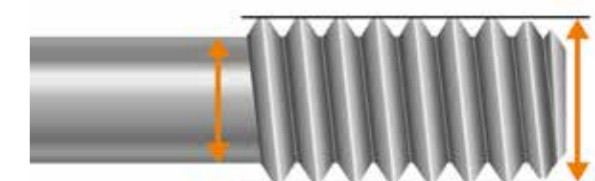
Manufacturing processes:

The thread rolling is a non-cutting manufacturing process that, according to DIN 8580, belongs to the forming manufacturing process. The thread is rolled into the surface of the raw material by cold forming. The forming is generated by compressive stress of the tool on the workpiece. Cold forming achieves a high surface quality and high strength. For large quantities of rolled sold by the metre products, the production process is faster and more cost-effective than the "thread whirling" production process.

Benefits:

- Rounded thread flank tips
- High surface quality, high strength
- Producibility of multi start threads with high pitches

Rolled thread



Diameter of the raw material


Large thread diameter

The right lead screw nut material for every technical requirement

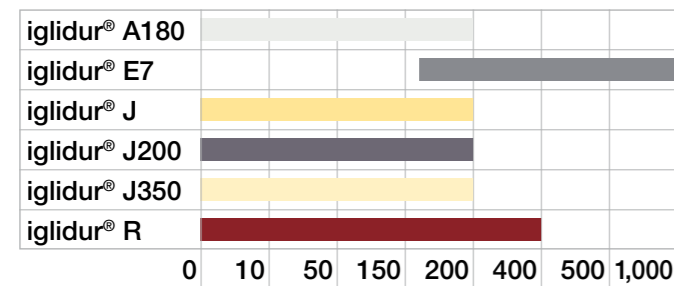
dryspin® lead screw nuts are available in the standard range for every technical requirement. The range includes lead screw nuts made from seven lubrication-free iglidur® high-performance polymers, in cylindrical type or flange variants. The iglidur® plastics enable the cost-effective production of components for moving applications and are ideally suited for the production of prototypes and high volume requirements. Due to its specifications, each material becomes a specialist for a specific area of application. The right iglidur® materials are available for almost every application from high temperatures to seawater, from food to automotive. All materials have been specially developed for dynamic applications and have low friction and wear

- Lubrication and maintenance-free
- Calculate service life online
- No minimum order value
- No minimum order quantity

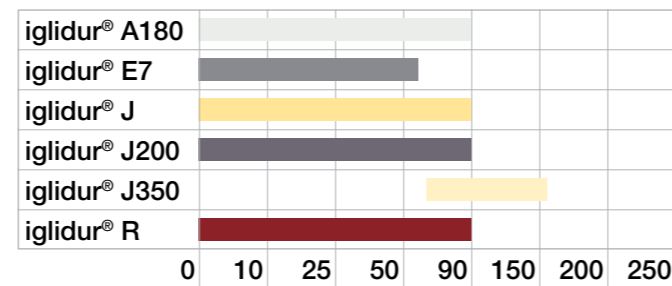
coefficients. These are made up of various components: base polymer for greater wear resistance, fibres and fillers reinforce the components to absorb high forces. Solid lubricants in our materials mean that the components made from them are self-lubricating and thus reduce the friction of the system and reduce wear. With the use of iglidur® materials you increase the service life of your components and reduce costs and maintenance. It doesn't matter whether it's a standard solution from the catalogue product range or your lead screw nut in the desired shape, desired quantity and desired material, manufactured by us according to your drawing.

 **Find and calculate suitable lead screw drives**
 ► www.igus.eu/leadscrewdrives-finder

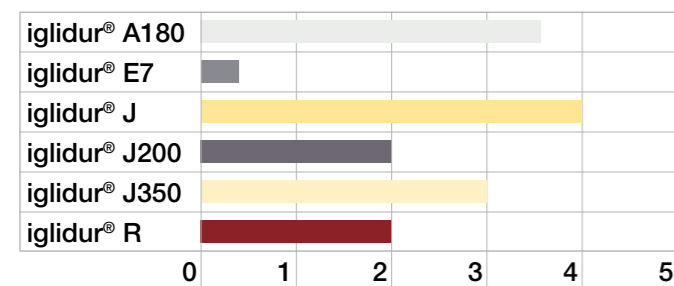
Correct choice of material



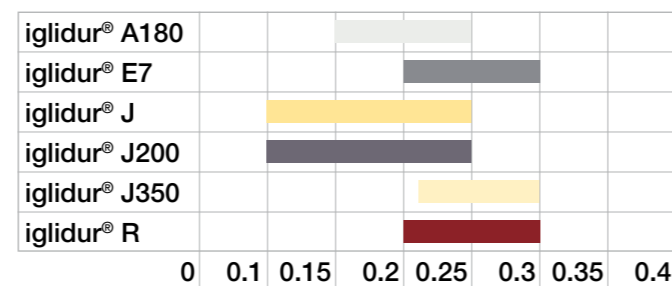
Speed [rpm]



Temperature [°C]



Surface pressure in the thread [MPa]



Coefficient of friction [μ]

igidur® J200 most suitable in combination with hard anodised aluminium

General properties	Unit	igidur® J	igidur® J350	igidur® R	igidur® A180	igidur® E7	igidur® W300	igidur® J200
Density	[g/cm³]	1.49	1.44	1.39	1.46	1.05	1.24	1.72
Colour		yellow	yellow	red	white	dark grey	yellow	matt grey
Max. moisture absorption at +23°C and 50% relative humidity	[% weight]	0.3	0.3	0.2	0.2	0.1	1.3	0.2
Max. waterabsorption	[% weight]	1.3	1.6	1.1	1.3	0.1	6.5	0.7
pv value, max. (dry)	[MPa · m/s]	0.34	0.45	0.27	0.31	0.08	0.23	0.30
Mechanical properties								
Max. permissible surface pressure on the thread (DS(TR) at +20°C	[MPa]	2.5 / 4.0	2.5 / 3.0	2.0 / 2.0	2.5 / 3.5	0.5 / 0.5	- / 5.0	2.0 / 2.0
Shore D hardness		74	80	77	76	61	77	70
Physical and thermal properties								
Max. continuous operating-temperature	[°C]	+90	+150	+90	+90	+70	+90	+90
Max. short-term operating temperature	[°C]	+120	+150	+90	+90	+70	+180	+90
Min. application temperature ¹⁹¹⁾	[°C]	-20	-20	-20	-20	-20	-20	-20
Thermal conductivity	[W/m · K]	0.25	0.24	0.25	0.25	0.25	0.24	0.24
Coefficient of thermal expansion at +23°C	[K ⁻¹ · 10 ⁻⁵]	10	7	11	11	11	9	8
Electrical properties								
Specific contact resistance	[Ωcm]	> 10 ¹³	> 10 ¹³	> 10 ¹²	> 10 ¹²	> 10 ⁹	> 10 ¹³	> 10 ⁸
Surface resistance	[Ω]	> 10 ¹²	> 10 ¹⁰	> 10 ¹²	> 10 ¹¹	> 10 ⁹	> 10 ¹²	> 10 ⁸
Chemical resistance								
Alcohols		+	+	+	+	x	+ to 0	+
Hydrocarbons		+	+ to 0	+	+	x	+	+
Greases, oils without additives		+	+	+	+	x	+	+
Diluted acids		0 to -	+	0 to -	0 to -	x	0 to -	0 to -
Diluted alkalines		+	+	+	+	x	+	+
Lubricants, mineral		+	x	+	+	x	+	+
Lubricants, synthetic		0	x	0	0	x	0	0

More material properties ► www.igus.eu/dryspin-material

Resistance classification: + resistant; 0 conditionally resistant; - not resistant; x no data available
 The lead screw nuts are not chemically attacked by these substances. However, there may be a dimensional change due to total moisture absorption.

¹⁹¹⁾ With falling temperatures, the required drive torque can increase due to the material

dryspin® lead screw nuts | Material overview

All our lead screw nuts are made from the wear-resistant iglidur® high-performance polymers.

There are seven different standard materials available for different applications: iglidur® J - high efficiency at all speeds, iglidur® J350 - for temperatures up to +150°C, iglidur® A180 - FDA-compliant for the food and pharmaceutical industry, iglidur® E7 - for high speeds with low loads, iglidur® R - anti-oscillation and anti-vibration, iglidur® J200 - the best reverse partner for aluminium and iglidur® W300 - for high-load applications.



Lead screw nuts made from iglidur® J - high efficiency at all speeds

Our all-rounder is the lead screw nut made of the high performance polymer iglidur® J. The material can be used at almost all speeds and is characterised by a high degree of efficiency.

Other benefits:

- Low coefficient of friction - low wear rates
- Up to +90°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 4.0MPa



Lead screw nuts made from iglidur® R - for medium to high speeds - vibration dampening

Our lead screw nut made of the high-performance polymer iglidur® R enables a reduction of the vibrations between the lead screw and the lead screw nuts through its dampening properties and ensures a low-vibration and quiet running behaviour.

Other benefits:

- High wear resistance at low loads
- Soft material - vibration-dampening
- Up to +90°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 2.0MPa



Lead screw nuts made from iglidur® J350 - high-temperature material up to +150°C

Our threaded nuts made of the high-performance polymer iglidur® J350 enable use in medium to high ambient temperatures. The long-term application temperature ideally should be between +60 and +150°C in order to obtain the maximum performance out of the material.

Other benefits:

- Dimensionally stable at high temperatures
- Can be certified according to EN 45545 HL3, R24
- Good coefficient of friction with medium loads
- Up to +150°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 3.0MPa



Lead screw nuts made from iglidur® A180 - FDA-compliant for the food and pharmaceutical industries

Our lead screw nut made of the high-performance polymer iglidur® A180 is FDA-compliant and suitable for applications with low to medium loads in the direct environment or contact with food or drugs as well as moisture.

Other benefits:

- FDA-compliant - for contact with food
- Compliant with Regulation (EU) No. 10/2011
- Up to +90°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 3.5MPa

The base material is also reinforced by technical fibres or filling materials. The solid lubricants are microscopic particles, embedded in millions of tiny chambers of the material. This is adequate to sufficiently lubricate the



Lead screw nuts made from iglidur® J200 - best mating partner for hard anodised aluminium

Our lead screw nut made of the high-performance polymer iglidur® J200 is characterised by a low coefficient of friction and minimal wear, especially on hard anodised aluminium lead screws.

Other benefits:

- Best combination with aluminium lead screws
- Low wear rates - long service life
- For low and medium loads
- Up to +90°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 2.0MPa



Lead screw nuts made from iglidur® W300 - for heavy duty applications up to 5MPa

Our lead screw nut made of the high-performance polymer iglidur® W300 gives excellent wear resistance, even in harsh environments. Of all iglidur® materials, iglidur® W300 is the most resistant to these conditions. It should only be noted that for lower loads or high dynamic applications, iglidur® J (all-rounder) is probably a better alternative, as the material tends to vibrate at low loads due to its high strength. We will be happy to help you with the right material selection.

Other benefits:

- Wear-resistant at high loads - high static strength
- For low speeds
- Up to +90°C max. long-term application temperature
- recommended continuous surface pressure in the threads from 4.0MPa to 5.0MPa

immediate surrounding area and to reduce the friction of the system. These additives stabilise our lead screw nuts decisively for wear resistance.



Lead screw nuts made from iglidur® E7 - for high speeds at low loads

Our lead screw nut made from the high-performance polymer iglidur® E7 offers good vibration-dampening specifications and good coefficients of friction at low loads. Thanks to its vibration-dampening properties, speeds of up to 1,200rpm are possible.

Other benefits:

- High speeds up to 1,200rpm at low loads up to 200N
- Noise-dampening
- Up to +60°C max. long-term application temperature
- Permitted continuous surface pressure in the threads from 0MPa to 0.5MPa

Radial loads

dryspin® lead screw nuts are designed to absorb axial forces. By using tribologically optimised iglidur® sliding materials, dryspin® lead screw drives can also absorb slight radial forces in contrast to ball screws. However, uncontrolled radial forces lead to uneven wear and thus to a reduced service life. Any radial forces occurring in the application should be absorbed by additional linear guides.

Temperature

dryspin® lead screw nuts, made from the maintenance-free iglidur® materials, are generally suitable for use in the temperature range from -20°C to +90°C (+150°C, depending on the material). It should be noted, however, that in addition to a change in the clearance due to temperature expansion, there is also a change in the maximum permissible load. From a temperature of <0 °C, due to the different temperature expansion coefficients between metal and plastic, there can be an increase in the required drive torque, which results in sluggishness. In this case, the lead screw nuts should be manufactured with a slight allowance or recut.

When the application is exposed to temperature and load extremes, we recommend testing the suitability of the lead screw nuts in this specific case by a practical test. In order to provide for the use in all temperature ranges, we have lead screw nuts available in various clearance classes.

Wet environments

Trapezoidal lead screw nuts made from iglidur® J or iglidur® A180 must be used for applications in humid environments, especially for wet applications. These material are characterised by very low moisture absorption.

Dirt

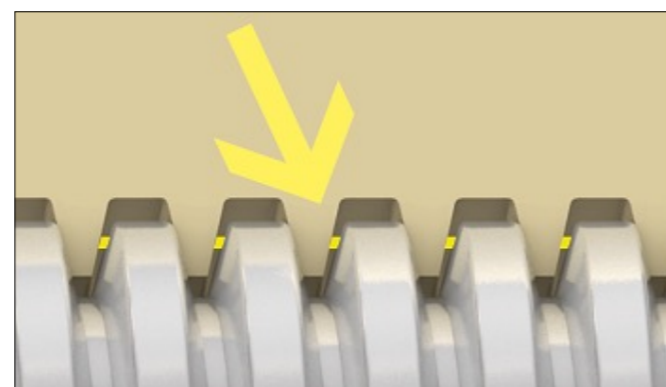
With the use of the maintenance-free iglidur® materials for lead screw nut production, dryspin® lead screw drives feature completely dry operation. Due to the deliberate avoidance of lubricants, the adhesion of soft particles such as dust and fibres is reduced. When compared to conventional, lubricated materials, it is common to see significant improvements in the service life in contaminated environments. However, in environments with significant contamination and hard particles, such as metal swarf or granite dust, the lead screw should be covered.

Lead screw drive inspection

dryspin® trapezoidal lead screw drives are manufactured in accordance with DIN 103. Inspection is performed with standard thread plug gauges after production. The DIN 103 standard is converted to the corresponding size for any thread sizes that are not shown in the standard table. The hygroscopic and thermal properties of the material must be taken into account during selection. Dimensional changes can occur as a result of moisture and/or thermal exposure at the point of use. For these reasons, general DIN compatibility cannot be guaranteed.

Noise

Noises can generally occur with lead screw drives. This applies in particular to long lead screws or long travels or to lead screws that are only supported on one side. Such thread systems can lead to self-generated vibrations. Lead screw nuts made from the tribologically optimised iglidur® materials tend to be significantly quieter than conventional plastics or metallic materials such as bronze or brass due to their good sliding properties when operating dry. In general, one can say that tougher materials such as iglidur® R or E7 produce the least amount of noise and are therefore particularly suitable for highly dynamic applications. Another option for noise reduction are pre-loaded lead screw nut types. If there is noise in your lead screw drive, please speak to our experts and we will find a suitable material pairing for you.



Yellow markings show the axial clearance of a standard lead screw nut

Clearance

Axial clearance can be used to describe the lost motion, the "dead travel", on the lead screw as a result of the gap between the lead screw and the lead screw nut. The term clearance is also often associated with it, but the correct technical term is axial clearance. It is thus the movement of

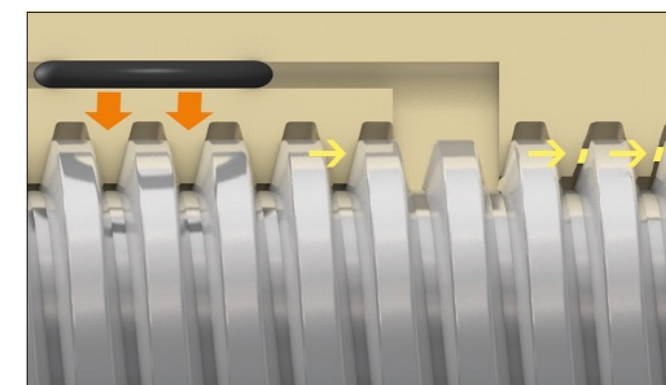
the lead screw nut in the axial direction without movement of the lead screw. Lead screw units require a minimum clearance to maintain their function. If the axial clearance is too small, the torque required to move the lead screw nut will also increase. Application-specific parameters must be observed in addition to the lead screw drive clearance caused by manufacturing tolerances. In addition to thermal and hygroscopic environmental influences, the minimum clearance to be considered in the application must also take into account the friction heat generated by the application. This plays a decisive role in connection with the expansion behaviour of the polymer material used. As the axial clearance in the system can change with temperature fluctuations. For lubrication-free lead screw drives, the basic clearance is approx. from 30µ to 50µ. An effective measure for reducing unwanted clearance, in addition to the correct material choice, is a pretensioning mechanism. The use of lead screw drives is therefore not recommended for precision drives without conducting practical tests. In addition to the solutions from our standard product range, our technical support team will be pleased to discuss other options.

Levels of efficiency

Efficiency is the ratio between the output and input power rating. In the calculation, the efficiency is abbreviated with a small eta (η). dryspin® lead screw nuts are characterised by a low coefficient of friction, resulting in high efficiencies. Single start trapezoidal lead screw nuts achieve efficiencies between 14 and 48% in dry operation. High helix lead screw nuts achieve efficiencies up to 82% in dry operation. Even though dryspin® lead screw nuts were developed for completely dry operation, lubrication can help to additionally increase efficiency.

Self-locking

Single start trapezoidal screw drives are self-locking in most cases. This means that the flank angle and the sliding friction prevent movement of the nut or the lead screw without the application of outside forces. As soon as the static friction is exceeded, the components are no longer self-locking. Multi start trapezoidal screw systems have a "residual self-locking" feature; high helix screw drives have no self-locking feature. Since the self-locking depends both on the pitch angle and on the coefficient of friction of the sliding pair, a loss of self-locking can occur with very low coefficients of friction even with single start trapezoidal threads.

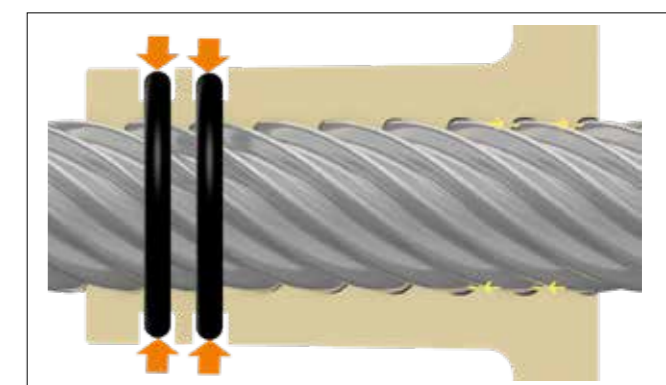


8 anti-backlash lead screw nuts (AB) - yellow = axial clearance, orange = pre-load

Anti-backlash lead screw nuts (AB)

Backlash is created on the lead screw drive by the axial clearance. By adding a small radial pre-load, vibrations are significantly reduced. Though a significant backlash reduction cannot be achieved.

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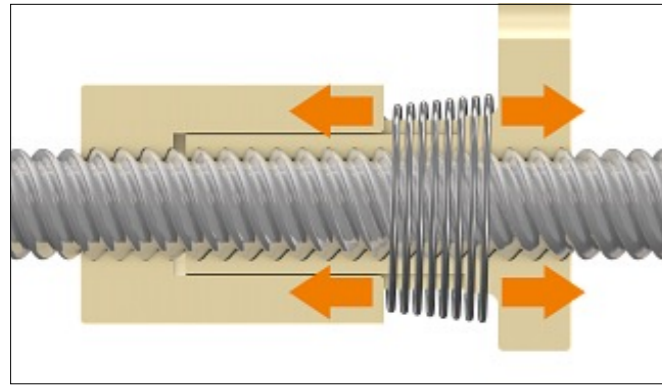


9 lead screw nuts with radial pre-load (low clearance, LC) - yellow = axial clearance, orange = pre-load

Lead screw nuts with radial pre-load (low clearance, LC)

LC lead screw nuts reduce backlash caused by axial clearance in a lead screw drive. The rear part of a slotted lead screw nut is radially pre-loaded around the lead screw by means of a strong, radial pretension using two elastomer rings (O-rings). The tooth flanks of the nuts are pressed far into the lead screw profile so that there is a pretension and thus a reduction in the axial clearance.

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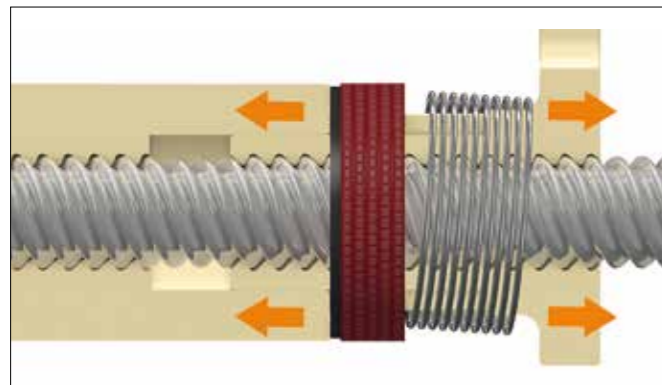


10 pre-load lead screw nuts (PL) - orange = pre-load direction

Pre-load lead screw nuts (PL)

PL lead screw nuts reduce the axial clearance in a lead screw drive by preloading two lead screw nut parts with a compression spring. The spring pushes the two halves of the lead screw nuts apart axially in the direction of the spindle flanks. As long as the axial load in the lead screw drive is lower than the spring pretension, the entire lead screw drive has a minimised backlash. This also permanently reduces clearance caused by wear.

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Self-adjusting zero-backlash principle, orange = pre-load direction

Zero-backlash lead screw nuts (ZB)

One of the most precise solutions is the ZB lead screw nut. It consists of several components and is self-adjusting. It is particularly suitable for lead screw drives with high helix threads for quick adjustment of small loads and ensures minimal clearance over the entire service life. Ideal for precise positioning and feed movements in medical, laboratory and printing technology as well as in the wide range of life sciences. The lead screw nut consists of a support nut, a fixing collar with a torsion spring, a friction disc and the axial element. As with the PL nut, it works

by means of axial spring pretension. In contrast to the PL nut, a torsion spring is used with the ZB lead screw nut. In conjunction with a friction disc and a fixing collar, it ensures that ZB lead screw nuts are load-independent and therefore also work with high axial loads and large thread pitches.

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Installation of lead screw nuts

dryspin® lead screw nuts must be secured against twisting and axial migration. However, the lead screw nuts are not designed for a press fit, since the oversize would have a negative effect on the thread clearance.

Lead screw nuts with flange

The maximum tightening torque for the flanged lead screw nut fastening screws is 2.5Nm. We recommend that assembly screws are secured with a semi-permanent thread locking glue. Metallic ferrules should be used for even higher tightening torques.

Cylindrical lead screw nuts

The outer diameter of cylindrical lead screw nuts is not designed for a press fit. We therefore recommend the use of spanner flats. In practice, a screw mount has proven to be effective with low forces. Gluing lead screw nuts is not recommended. If however, the securing of the lead screw nuts by adhesives is planned, individual tests and iglidur® material compatibility are necessary in each case.

Lead screw selection

The suitability and the operating behaviour of the system largely depend on the lead screws used with the nut. We recommend purchasing the nut and lead screw as a system from one source. Lead screws are inspected with DIN 103-compliant gauges. In principle, dryspin® lead screw drives can be used with lead screws made from steel, stainless steel or hard-anodised aluminium. Split and LH/RH lead screws (right and left-handed threads on one lead screw) are available in addition to right-hand and left-hand versions.

Custom lead screws

Take advantage of our machining service - we manufacture ready-to-fit lead screws based on your requirements. In addition to the standard sold by the metre option, we also offer the possibility to machine the lead screw directly, according to the specifications of the application, simply configured online with our free lead screw configurator. A CAD software or knowledge in handling CAD programmes is

not required. Thanks to the integrated design tool, all entries are automatically checked for plausibility. 2D dimensioned drawing and 3D step file, generated directly online. The live pricing also gives a good impression of the costs involved in the individual processing steps. If a desired configuration cannot be displayed via the online configurator, we would be pleased to receive your enquiry. We will check the manufacturability and issue you with a quotation.

Custom nuts

Take advantage of our machining service even for custom lead screw nuts - we manufacture ready-to-fit lead screw nuts based on your requirements. Please send us your drawing. We can then provide a quick quotation and recommend the right material.

Service life

dryspin® lead screw nuts are made from tribologically optimised materials. Already during the development phase, the focus is on optimising the friction properties of the dryspin® lead screw drives, with the objective of attaining the lowest possible coefficient of wear and friction. In order to make the most precise statements about service life and wear resistance, several hundred tests are conducted each year on the test equipment at the igus® test laboratory in Cologne. Our experts will gladly test your application as well. The results of these tests form the basis of our service life calculation tools, such as our lead screw drive expert.

Lubrication

Many people think that greasing some products is essential to ensure that they do not seize up and can continue a smooth movement. However, it is easy to forget that lubrication is not a prerequisite for all products. Our lead screw systems are developed for maintenance-free dry operation. Basically, you should not compare a lubricated lead screw system one-to-one with a dry-operating system. Due to the external lubrication, the coefficient of friction is lower compared to a dry-operating lead screw system. However, the lubricant also causes a high maintenance effort and additional costs that are often not accounted for. In an abrasive environment, lubricants can become an "emery paste" that damages the system. In justified cases, however, external lubrication of iglidur® lead screw nuts can be considered to reduce the coefficient of friction or to increase the speeds without noise generation. Please consult one of our experts to find out whether this really makes sense for your application.

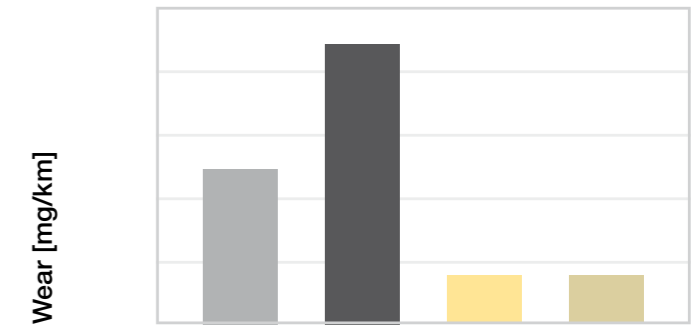


Diagram 01: Wear test on a rolled trapezoidal lead screw

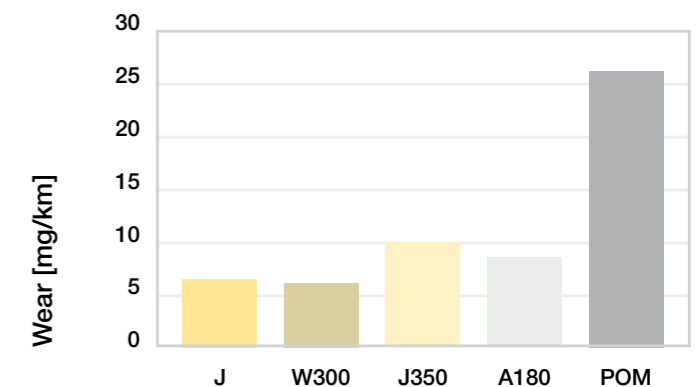


Diagram 02: Wear test on a C15 lead screw
Stroke 140mm, 50N, lead screw C15 rolled, 450rpm

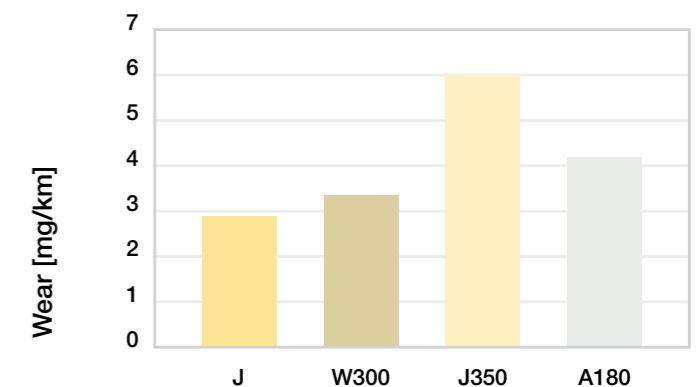


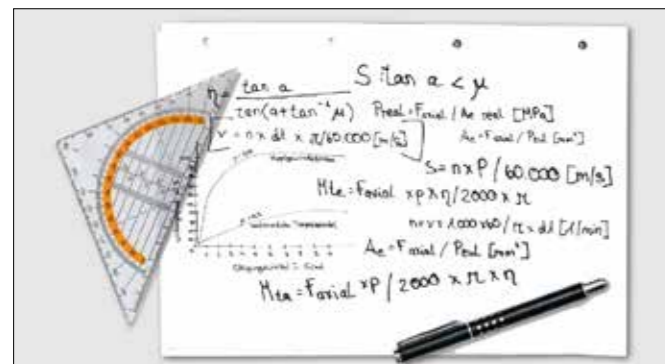
Diagram 03: Wear test on a VA lead screw
Stroke 140mm, 50N, lead screw VA rolled, 450rpm

The dryspin® lead screw technology patented in 2016 by the development team. Particular emphasis was placed on increasing service life and improving efficiency. The dryspin® product portfolio includes lead screws and high-helix lead screws with 0.1 mm outer diameter tolerance and are available in pitches from 1 mm to 100 mm.

dryspin® offers better efficiency thanks to the specifications and geometries tailored to the plastic nut and lead screw. Efficiencies of up to 82% and a longer service life are achieved compared to metal lead screw drives. In combination with an igus® lead screw nut, clean and dry operation is possible, without dust and dirt getting stuck. The dryspin® high helix threads are not self-locking. The lead screw nut and lead screw can be moved even without applying external force. This means that the lead screw nut and lead screw can be moved even without external drive or lead screw.

Higher efficiency due to optimised flank 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 linear motion. Compared with a steeper thread angle, this means a lower power loss.



You can find more information on our efficiency rates in the material overview or in our online blog on this topic.

Silent and vibration-dampening due to rounded tooth geometry

Due to the rounded tooth geometry, the contact surface between the lead screw nut and the lead screw is reduced. Thereby the dryspin® lead screw nuts move without vibration, 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 round teeth minimise this effect and the thread moves without lubrication or noise.



Reduction of the radial contact surfaces through rounded tooth geometry

Longer service life thanks to asymmetry

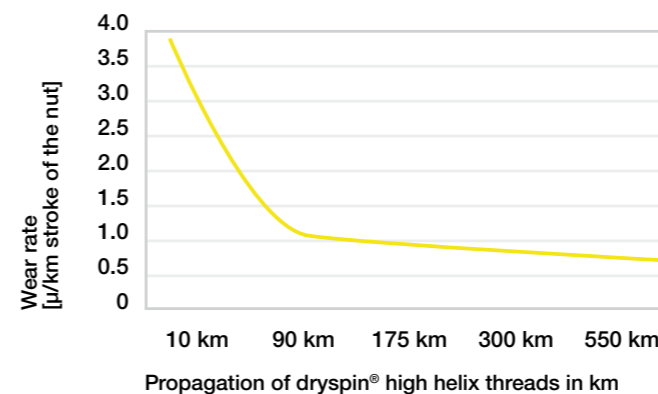
Due to larger distances between the individual dryspin® thread pitches, the thread ideally adapts to the specifications of the lubrication-free igus® high-performance polymers. The proportion of the tribologically optimised polymer content in the thread pitches can be increased by a factor of 1.3 for all sizes. More wear-resistant material and higher efficiency are decisive for a service life that is up to five times longer than standard geometries. The larger the lead screw diameter, the stronger is this effect. Backlash can be minimised for life by using dryspin® zero backlash lead screw nuts with integrated spring pre-load.



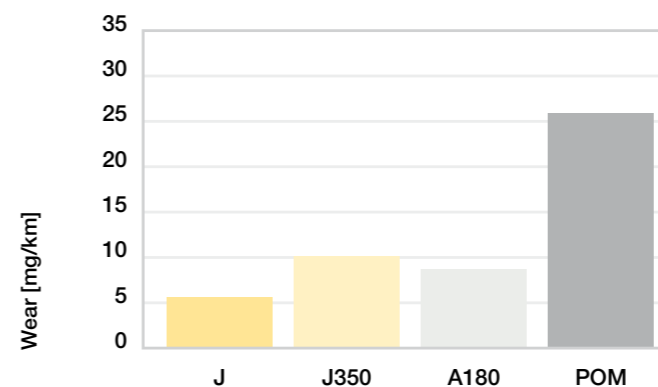
Asymmetry - increasing the proportion of wear material in the thread pitch

Lead screw length [mm]	Standard	Aligned
<300	0.3	0.1
<600	0.6	0.2
<900	0.9	0.3
<1,200	1.2	0.4
<1,500	1.5	0.5
<1,800	1.8	0.6
<2,100	2.1	0.7

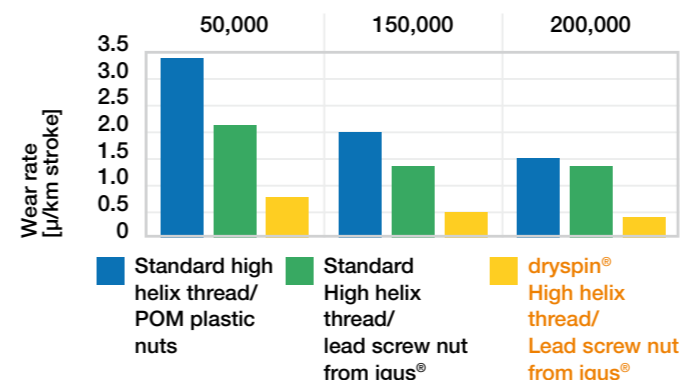
Overview table of specified lead screw straightness



Wear test dryspin® high helix thread DST 10x25, load 175N, 540mm stroke, 125rpm



Wear test on C15 lead screw [mg/km] Stroke 140mm, 50N, lead screw C15 rolled, 450rpm



Wear-resistant high helix thread 10x50, dryspin® high helix thread / standard high helix thread, load 36N, 100rpm for 50,000/150,000/200,000 cycles

Lead screw straightness

The dryspin® lead screws are designed in the igus® standard for a straightness of 0.3 per 300mm or part thereof. For higher requirements, the dryspin® lead screws can be aligned to a straightness of 0.1 per 300mm or part thereof.

Tested: Lubrication-free iglidur® materials from igus®

Liners, sliding elements and lead screw nuts from dryspin® adapted for your application: lubrication-free, tested and predictable.

- 12,000 tribology tests per year
- More than 300 parallel test facilities
- 140 trillion test movements
- Continuous testing of dryspin® products

► www.igus.eu/tests

dry-tech® tribo-plastics

In all dryspin® linear and drive units as well as screw drives, igus® high-performance polymers are used. Due to the homogeneously incorporated solid lubricants, the bearing materials are designed for continuous dry operation, i.e. maintenance-free over the complete service life.

Material selection

dryspin® lead screw nuts are made from tribologically optimised materials. Already during the development phase, the focus is on optimising the friction properties of the dryspin® lead screw drives, with the objective of attaining the lowest possible coefficient of wear and friction.

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 easily accessible online tools, where the service life and the required torque can be determined.

► www.igus.eu/leadscrew-expert



Stainless steel, rolled, AISI 304

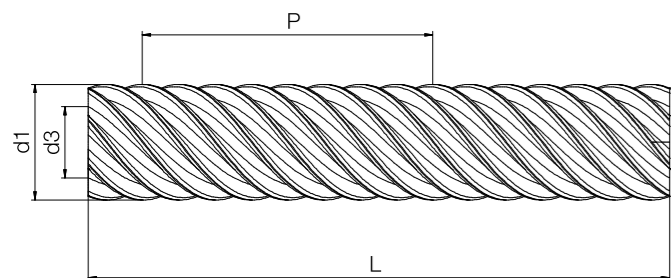


Aluminium, rolled (EN AW 6082)

Technical data

Pitch variation	0.1mm / 300mm
Straightness (standard)	0.3mm / 300mm
Aligned	<0.1mm / 300mm

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa (elongation limit 0.2mm).



Technical data

Thread	Direction of rotation		Material		Pitch P [mm]	Number of thread pitches	Pitch angle α [°]	Weight	
	Right	Left	Stainless steel	Aluminium				Stainless steel	Aluminium
			AISI 304	EN AW 6082				[kg/m]	[kg/m]
Ds5x5	●	–	●	–	5	2	17.66	0.16	–
Ds5x10	●	–	●	–	10	4	32.48	0.16	–
Ds6.35x6.35	●	–	●	–	6.35	3	17.66	0.25	–
Ds6.35x12.7	●	–	●	–	12.7	4	32.48	0.25	–
Ds6.35x25.4	●	–	●	–	25.4	8	51.85	0.25	–
Ds8x8	●	–	●	–	8	4	17.66	0.40	–
Ds8x10	●	●	●	●	10	4	21.70	0.40	0.14
Ds8x15	●	●	●	●	15	6	30.83	0.40	0.14
Ds8x24	●	–	●	–	24	8	43.78	0.40	–
Ds8x40	●	–	●	–	40	8	57.86	0.40	–
Ds10x12	●	●	●	●	12	4	21.54	0.62	0.21
Ds10x25	●	●	●	●	25	8	38.51	0.62	0.21
Ds10x50	●	●	●	●	50	10	57.86	0.62	0.21
Ds12.7x12.7	●	–	●	–	12.7	4	17.66	1.00	–
Ds12x15	●	–	●	–	15	5	21.69	0.89	–
Ds12x25	●	●	●	●	25	8	33.55	0.89	0.31
Ds14x25	●	●	●	●	25	5	29.61	1.22	0.42
Ds14x30	●	–	●	●	30	6	34.30	1.22	0.42
Ds14x40.6	●	–	●	–	40.6	8	42.71	1.22	–
Ds14x70	●	–	●	–	70	8	57.86	1.22	–
Ds16x35	●	–	●	●	35	7	34.85	1.59	0.54
Ds18x24	●	●	●	●	24	6	22.99	2.01	0.69
Ds18x40	●	●	●	●	40	8	35.55	2.01	0.69

Available from stock
On request

Order key

Part number	Thread	Options
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DST-LS-10X50-R-1000-ES



Options:
 Direction of rotation
 R: Right-hand thread
 L: Left-hand thread
 Length in mm: Freely selectable (see table)
 Lead screw material
 ES: Stainless steel, rolled
 AL: Aluminium, rolled

Please contact us!

All dryspin® leads screws can be custom machined. Please configure this online or send us your drawing. We can then provide a quick quotation.

► www.igus.eu/lead-screw-configurator

Dimensions [mm]

Outer Ø d1 -0.1	Core Ø d3 -0.1	Max. total length L		Part No.
		ES	AL	
5.0 -0.05	3.30 -0.05	1,000	–	DST-LS-5X5-R-□-ES
5.0 -0.05	3.80 -0.05	1,000	–	DST-LS-5X10-R-□-ES New
6.35 -0.05	4.33 -0.05	1,000	–	DST-LS-6.35X6.35-R-□-ES New
6.35 -0.05	4.35 -0.05	1,000	–	DST-LS-6.35X12.7-R-□-ES
6.35 -0.05	4.10 -0.05	1,000	–	DST-LS-6.35X25.4-R-□-ES
8.0	5.78	1,500	–	DST-LS-8X8-R-□-ES New
8.0	5.63	1,500	1,000	DST-LS-8X10-□-□-ES
8.0	5.63	1,500	1,000	DST-LS-8X15-□-□-ES
8.0	5.55	1,500	–	DST-LS-8X24-R-□-ES
8.0	5.80	1,500	–	DST-LS-8X40-R-□-ES New
10.0	6.90	3,000	1,000	DST-LS-10X12-□-□-ES
10.0	7.10	3,000	1,000	DST-LS-10X25-□-□-ES
10.0	7.35	3,000	1,000	DST-LS-10X50-□-□-ES
12.7	9.60	3,000	–	DST-LS-12.7X12.7-R-□-ES
12.0	9.10	3,000	–	DST-LS-12X15-R-□-ES
12.0	8.97	3,000	1,500	DST-LS-12X25-R-□-ES New
14.0	9.60	3,000	1,500	DST-LS-14X25-□-□-ES
14.0	9.60	3,000	1,500	DST-LS-14X30-R-□-ES
14.0	9.65	3,000	–	DST-LS-14X40.6-R-□-ES
14.0	9.95	3,000	–	DST-LS-14X70-R-□-ES New
16.0	11.60	3,000	1,500	DST-LS-16X35-R-□-ES
18.0	14.33	3,000	1,500	DST-LS-18X24-□-□-ES
18.0	13.60	3,000	1,500	DST-LS-18X40-□-□-ES

Technical data

Thread	Direction of rotation		Material		Pitch P [mm]	Number of thread pitches	Pitch angle α [°]	Weight	
	Right	Left	Stainless	Aluminium				Stainless steel	Aluminium
			steel AISI 304	EN AW 6082					
Ds18x80	●	●	●	●	80	12	54.74	2.01	0.69
Ds18x100	●	●	●	●	100	12	60.51	2.01	0.69
Ds20x20	●	●	●	●	20	4	17.66	2.48	0.85
Ds20x50	●	–	●	●	50	8	38.51	2.48	0.85
Ds20x60	●	●	●	●	60	8	43.68	2.48	0.85
Ds20x80	●	●	●	●	80	12	51.85	2.48	0.85
Dx20x90	●	●	●	●	90	12	55.08	2.48	0.85

Dimensions [mm]

Outer Ø d1 -0.1	Core Ø d3 -0.1	Max. total length L		Part No.
		ES	AL	
		18.0	14.00	
18.0	13.55	3,000	1,500	DST-LS-18X100-□-□-ES
20.0	15.20	3,000	1,500	DST-LS-20X20-□-□-ES
20.0	15.58	3,000	1,500	DST-LS-20X50-□-□-ES
20.0	15.55	3,000	1,500	DST-LS-20X60-□-□-ES
20.0	15.98	3,000	1,500	DST-LS-20X80-□-□-ES
20.0	15.55	3,000	1,500	DST-LS-20X90-□-□-ES



Available from stock
On request

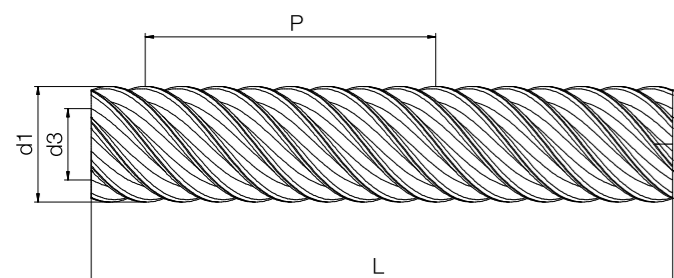


Technical data

Pitch variation	0.1mm / 300mm
Straightness (standard)	0.3mm / 300mm
Aligned	<0.1mm / 300mm

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa (elongation limit 0.2mm).

Stainless steel, rolled, AISI 304



Technical data

Thread	Direction of rotation		Material		Pitch P [mm]	Number of thread pitches	Pitch angle α [°]	Weight	
	Right	Left	Stainless steel	Aluminium				Stainless steel	Aluminium
			AISI 304	EN AW 6082				[kg/m]	[kg/m]
Ds4x2.4	●	–	●	–	2.4	2	10.81	0.10	–
Ds6.35x1	●	–	●	–	1	1	2.87	0.25	–
Ds6.35x2.54	●	●	●	–	2.54	2	7.26	0.25	–
Ds6.35x5.08	●	–	●	–	5.08	4	14.29	0.25	–
Ds10x2	●	●	●	–	2	1	3.64	0.62	–
Ds10x3	●	●	●	–	3	2	5.45	0.62	–
Ds12x3	●	–	●	–	3	1	4.55	0.89	–
Ds12x5	●	–	●	●	5	2	7.55	0.89	0.31
Ds14x4	●	●	●	–	4	1	5.20	1.22	–
Ds16x5	●	–	●	–	5	1	5.68	1.59	–
Ds16x10	●	–	●	–	10	2	11.25	1.59	–
Ds18x4	●	●	●	–	4	1	4.04	2.01	–
Ds20x5	●	–	●	–	5	1	4.55	2.48	–
Ds20x10	●	–	●	–	10	2	9.04	2.48	–

Order key

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

DST-LS- 4X2.4 - R -1000-ES

dryspin®
technology

Lead screw

Diameter

Pitch

Direction of rotation

Length [mm]

Lead screw material

Options:
 Direction of rotation
 R: Right-hand thread
 L: Left-hand thread
 Length in mm: Freely selectable (see table)
 Lead screw material
 ES: Stainless steel, rolled
 AL: Aluminium, rolled

Please contact us!

All dryspin® leads screws can be custom machined. Please configure this online or send us your drawing. We can then provide a quick quotation.

► www.igus.eu/lead-screw-configurator

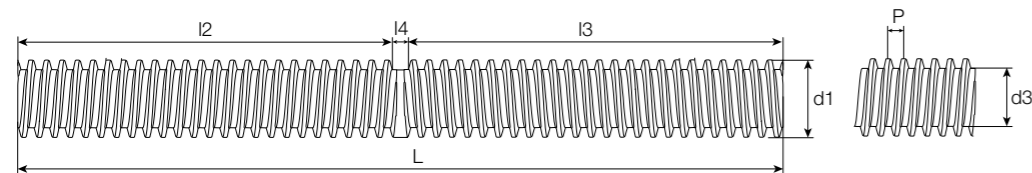
Dimensions [mm]

Outer Ø d1 -0.1	Core Ø d3 -0.1	Max. total length L		Part No.
		ES	AL	
4.0 -0.05	3.05 -0.05	1,000	–	DST-LS-4X2.4-R-□-ES
6.35 -0.05	5.35 -0.05	1,000	–	DST-LS-6.35X1-R-□-ES New
6.35 -0.05	4.35 -0.05	1,000	–	DST-LS-6.35X2.54-□-□-ES
6.35 -0.05	4.85 -0.05	1,000	–	DST-LS-6.35X5.08-R-□-ES
10.0	7.77	3,000	–	DST-LS-10X2-□-□-ES New
10.0	7.85	3,000	–	DST-LS-10X3-□-□-ES New
12.0	8.77	3,000	–	DST-LS-12X3-R-□-ES New
12.0	9.60	3,000	1,500	DST-LS-12X5-R-□-ES
14.0	9.95	3,000	–	DST-LS-14X4-□-□-ES New
16.0	11.15	3,000	–	DST-LS-16X5-R-□-ES New
16.0	11.55	3,000	–	DST-LS-16X10-R-□-ES New
18.0	13.95	3,000	–	DST-LS-18X4-□-□-ES New
20.0	15.20	3,000	–	DST-LS-20X5-R-□-ES New
20.0	15.60	3,000	–	DST-LS-20X10-R-□-ES New

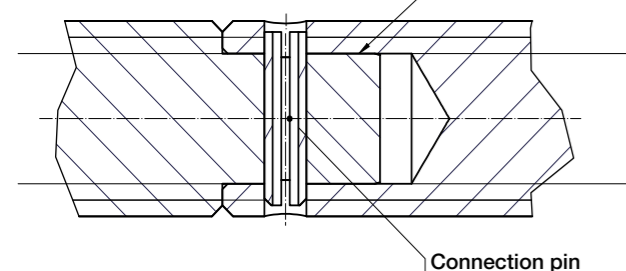
Available from stock
 On request



Stainless steel, rolled, AISI 304



Connection glued with Loctite 648



Our reverse lead screws with dryspin® thread geometry are mechanically connected in a non-positive and positive manner using metal adhesive and dowel pins.

Technical data - dryspin® high helix lead screws

Thread	Max. transferable torque [Nm]	Max. tensile strength [N]	Material Stainless steel AISI 304	Pitch P [mm]	Number of thread pitches	Pitch angle α [°]
Ds10x12	2.0	450	●	12	4	21.54
Ds10x25	2.0	450	●	25	8	38.51
Ds10x50	2.0	450	●	50	10	57.86
Ds14x25	4.0	1,000	●	25	5	29.61
Ds14x30	4.0	1,000	●	30	6	34.30
Ds14x40.6	4.0	1,000	●	40.6	8	42.71
Ds18x24	7.5	1,600	●	24	6	22.99
Ds18x40	7.5	1,600	●	40	8	35.55
Ds18x80	7.5	1,600	●	80	12	54.74
Ds18x100	7.5	1,600	●	100	12	60.51
Ds20x20	11.0	2,500	●	20	4	17.66
Ds20x50	11.0	2,500	●	50	8	38.51
Ds20x60	11.0	2,500	●	60	8	43.68
Ds20x80	11.0	2,500	●	80	12	51.85
Ds20x90	11.0	2,500	●	90	12	55.08
dryspin® lead screws						
Ds14x4	4.0	1,000	●	4	1	5.2
Ds18x4	7.5	1,600	●	4	1	4.04
Ds20x5	11.0	2,500	●	5	1	4.55
Ds20x10	11.0	2,500	●	10	2	9.04

⁴⁶⁾ Non-usable thread transition

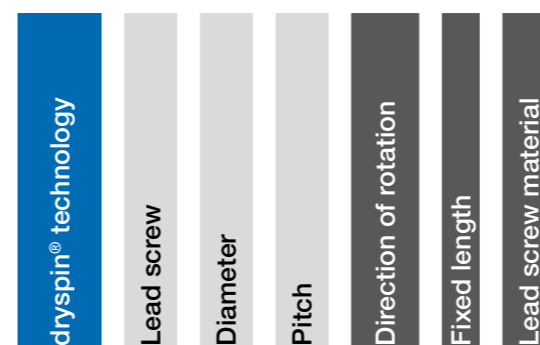
⁴⁷⁾ Fixed length (L)

⁴⁸⁾ Lead screw material

Order key

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

DST-LS-10X50-R/L-□-ES



Options:
Length in mm
Lead screw material
ES: Stainless steel, rolled

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Do you need an individual cut length instead of a fixed length? Configure your personal length easily and quickly using our dryspin® lead screw configurator.
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1,000mm standard length and 2,000mm total length incl. thread transition - available from stock for individual further processing

Dimensions [mm]

Outer Ø d1	Core Ø d3	Thread transition l ⁴⁶⁾	Max. thread length l ²⁴⁸⁾	Max. thread length l ³⁴⁷⁾	Max. total length L	Part No.
10	6.95	25	487	487	1,000	DST-LS-10X12-R/L-□-ES
10	7.10	25	487	487	1,000	DST-LS-10X25-R/L-□-ES
10	7.35	25	487	487	1,000	DST-LS-10X50-R/L-□-ES
14	9.60	25	987	987	2,000	DST-LS-14X25-R/L-□-ES
14	9.60	25	987	987	2,000	DST-LS-14X30-R/L-□-ES New
14	9.65	25	987	987	2,000	DST-LS-14X40.6-R/L-□-ES New
18	14.40	25	987	987	2,000	DST-LS-18X24-R/L-□-ES
18	1360	25	987	987	2,000	DST-LS-18X40-R/L-□-ES
18	14.00	25	987	987	2,000	DST-LS-18X80-R/L-□-ES
18	13.55	25	987	987	2,000	DST-LS-18X100-R/L-□-ES
20	15.20	25	987	987	2,000	DST-LS-20X20-R/L-□-ES New
20	15.58	25	987	987	2,000	DST-LS-20X50-R/L-□-ES New
20	15.55	25	987	987	2,000	DST-LS-20X60-R/L-□-ES New
20	15.98	25	987	987	2,000	DST-LS-20X80-R/L-□-ES New
20	15.55	25	987	987	2,000	DST-LS-20X90-R/L-□-ES New
14	9.95	25	987	987	2,000	DST-LS-14X4-R/L-□-ES New
18	13.95	25	987	987	2,000	DST-LS-18X4-R/L-□-ES New
20	15.20	25	987	987	2,000	DST-LS-20X5-R/L-□-ES New
20	15.60	25	987	987	2,000	DST-LS-20X10-R/L-□-ES New



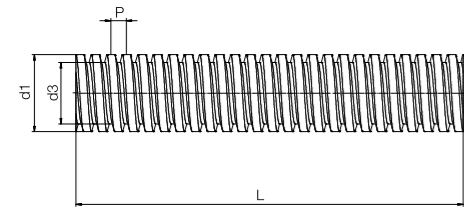
CF15, rolled, AISI 1015



Stainless steel, rolled



Aluminium, rolled (EN AW 6082)



Technical data

Pitch variation	0.1mm / 300mm
Straightness (standard)	0.3mm / 300mm
Aligned (optional)	<0.1mm / 300mm
Tolerance (according to DIN 103)	7e

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa (elongation limit 0.2mm).

Technical data

Thread	Direction of rotation		Material						Pitch P [mm]	Pitch angle α [°]
	Right	Left	C15	Stainless steel				Aluminium EN AW 6082		
				AISI 304	AISI 303	AISI 316L	AISI 321			
Tr8x1.5	●	●	●	●	-	-	-	-	1.5	3.42
Tr10x2	●	●	●	●	-	-	-	●	2	3.64
Tr10x3	●	●	●	-	-	●	-	-	3	5.45
Tr12x2	●	-	-	●	-	-	-	-	2	3.04
Tr12x3	●	●	●	●	-	-	-	●	3	4.55
Tr14x3	●	●	●	●	-	-	-	-	3	3.90
Tr14x4	●	●	●	-	-	-	●	-	4	5.20
Tr16x2	●	●	●	-	●	-	-	-	2	2,28
Tr16x4	●	●	●	●	-	-	-	●	4	4.55
Tr18x2	●	-	-	●	-	-	-	-	2	2.03
Tr18x4	●	●	●	●	-	-	-	●	4	4.05
Tr20x4	●	●	●	●	-	-	-	●	4	3.64
Tr22x2	●	●	-	●	-	-	-	-	2	1.66
Tr24x5	●	●	●	●	-	-	-	-	5	3.79
Tr26x5	●	●	●	●	-	-	-	-	5	3.50
Tr28x5	●	●	●	●	-	-	-	-	5	3.25
Tr30x6	●	●	●	●	-	-	-	-	6	3.64
Tr32x6	●	●	●	-	●	-	-	-	6	3.42
Tr36x6	●	●	●	-	●	-	-	-	6	3.04
Tr40x7	●	●	●	●	-	-	-	-	7	3.19
Tr50x8	●	●	●	-	●	-	-	-	8	2.92



Please contact us!

All dryspin® leads screws can be custom machined. Please configure this online or send us your drawing. We can then provide a quick quotation.

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Order key

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

PTGSG-10X2-01-R-1000-ES



Options:
 Direction of rotation
R: Right-hand thread
L: Left-hand thread
Length in mm: Freely selectable (see table)
 Lead screw material
Blank: C15, rolled
ES: Stainless steel, rolled
AL: Aluminium, rolled



ACME thread (US standard)

► Page 390

Dimensions [mm]

C15	Weight		Outer Ø		Core Ø		Max. total length		Part No.
	C15 [kg/m]	Stainless steel [kg/m]	Aluminium [kg/m]	d1		d3		L	
				min.	max.	min.	max.		
0.39	0.40	0.14	7.8	8	5.4	6.2	1,500	-	PTGSG-8X1.5-01-□-□-□
0.62	0.62	0.21	9.8	10	7.2	7.5	3,000	1,000	PTGSG-10X2-01-□-□-□
0.62	0.62	0.21	9.8	10	6.2	6.5	3,000	-	PTGSG-10X3-01-□-□-□
-	0.89	-	11.8	12	9.2	9.5	3,000	-	PTGSG-12X2-01-□-□-□ New
0.89	0.89	0.31	11.8	12	7.7	8.5	3,000	1,000	PTGSG-12X3-01-□-□-□
1.21	1.22	0.42	13.8	14	9.7	10.5	3,000	-	PTGSG-14X3-01-□-□-□
1.21	1.22	0.42	13.7	14	9.1	9.5	3,000	-	PTGSG-14X4-01-□-□-□
1.58	1.59	0.54	15.8	16	11.8	12.8	3,000	-	PTGSG-16X2-01-□-□-□
1.58	1.59	0.54	15.7	16	10.5	11.5	3,000	1,000	PTGSG-16X4-01-□-□-□
-	2.01	-	17.8	18	15.2	15.5	3,000	-	PTGSG-18X2-01-□-□-□ New
2.00	2.01	0.69	17.7	18	12.5	13.5	3,000	2,000	PTGSG-18X4-01-□-□-□
2.47	2.48	0.85	19.7	20	14.5	15.5	3,000	2,000	PTGSG-20X4-01-□-□-□
-	3.00	-	21.8	22	18.1	18.5	3,000	-	PTGSG-22X2-01-□-□-□ New
3.55	3.57	1.22	23.7	24	17.3	18.5	3,000	-	PTGSG-24X5-01-□-□-□
4.17	4.19	1.43	25.7	26	19.3	20.5	3,000	-	PTGSG-26X5-01-□-□-□
4.83	4.86	1.66	27.7	28	21.3	22.5	3,000	-	PTGSG-28X5-01-□-□-□
5.55	5.58	1.91	29.6	30	21.6	23.0	3,000	-	PTGSG-30X6-01-□-□-□
6.31	6.35	2.17	31.6	32	24.5	25.0	3,000	-	PTGSG-32X6-01-□-□-□
7.99	8.04	2.75	35.6	36	27.6	29.0	3,000	-	PTGSG-36X6-01-□-□-□
9.86	9.93	3.39	39.6	40	30.4	32.0	3,000	-	PTGSG-40X7-01-□-□-□
15.41	15.51	5.30	49.6	50	39.2	41.0	3,000	-	PTGSG-50X8-01-□-□-□



The biggest lead screw shop
online

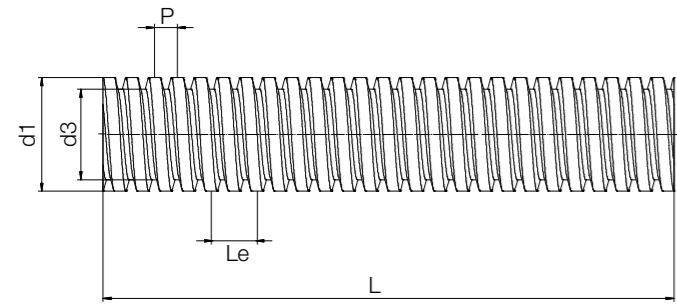
► www.igus.eu/leadscrowshop



CF15, rolled, AISI 1015



Stainless steel, rolled, AISI 304



Technical data

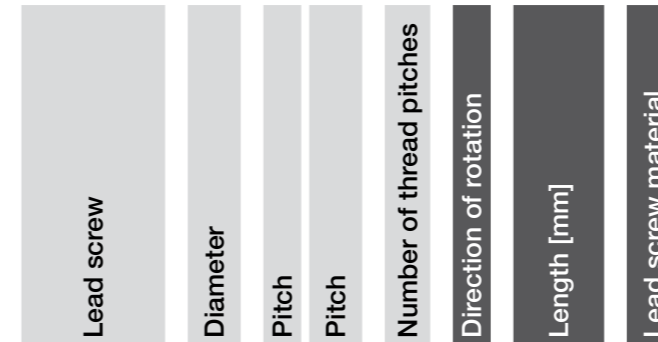
Pitch variation	0.1mm / 300mm
Straightness (standard)	0.3mm / 300mm
Aligned (optional)	<0.1mm / 300mm
Tolerance (according to DIN 103)	7e

P = Pitch
Le = Lead/pitch

Order key

Part number	Threads	Options
-------------	---------	---------

PTGSG-10X4 P2-02-R-1000-ES



Options:
 Direction of rotation
R: Right-hand thread
L: Left-hand thread
Length in mm: Freely selectable (see table)
 Lead screw material
Blank: C15, rolled, AISI 1015
ES: Stainless steel, rolled, AISI 304
AL: Aluminium, rolled

Please contact us!

Do you need an individual configuration and/or machined end for your lead screw? This is not a problem with the help of the dryspin® lead screw configurator: configure lead screw at

► www.igus.eu/lead-screw-configurator

Technical data

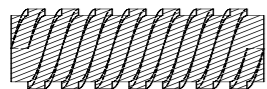
Thread	Direction of rotation		Material		Total pitch Le [mm]	Pitch P [mm]	Pitch angle α [°]	Weight	
	Right	Left	C15	Stainless steel AISI 304				C15 [kg/m]	Stainless steel [kg/m]
Tr06x2P1	●	–	–	●	2	1	6,06	0.22	0.22
Tr10x4P2	●	–	–	●	4	2	7.26	0.62	0.62
Tr12x6P3	●	●	●	●	6	3	9.04	0.89	0.89
Tr16x8P4	●	●	●	●	8	4	9.04	1.58	1.59
Tr18x8P4	●	●	●	●	8	4	8.05	2.00	2.01
Tr20x8P4	●	●	●	●	8	4	7.26	2.47	2.48

Dimensions [mm]

Outer Ø d1		Core Ø d3		Max. Total length L	Part No.
min.	max.	min.	max.		
5.9	6	3.4	3.5	1,000	PTGSG-06X2P1-02-□-□-□
9.8	10	7.2	7.5	3,000	PTGSG-10X4P2-02-□-□-□
11.8	12	7.7	8.5	3,000	PTGSG-12X6P3-02-□-□-□
15.7	16	10.5	11.5	3,000	PTGSG-16X8P4-02-□-□-□
17.7	18	12.5	13.5	3,000	PTGSG-18X8P4-02-□-□-□
19.7	20	14.5	15.5	3,000	PTGSG-20X8P4-02-□-□-□

Definition: Multi start trapezoidal lead screw

Example 8P4 pitch

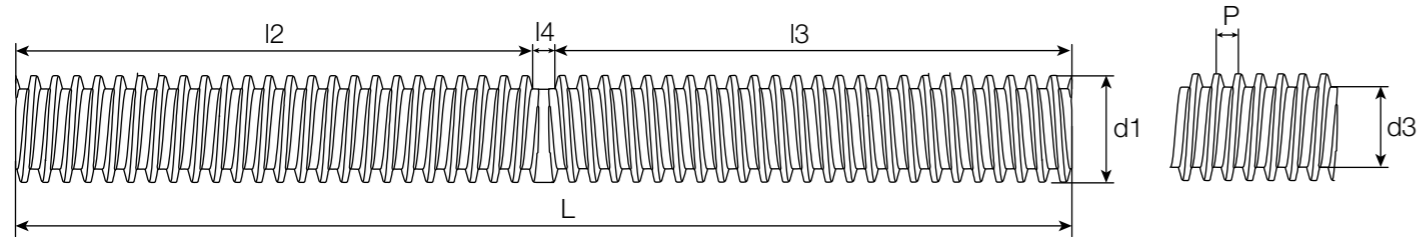


Pitch [P] = Pitch: distance to the next thread pitch, e.g. P4 = 4mm
 Lead [Le] = Pitch: distance between threads flanks per thread pitch, e.g. Pitch 8 = Distance of 8mm



Technical data

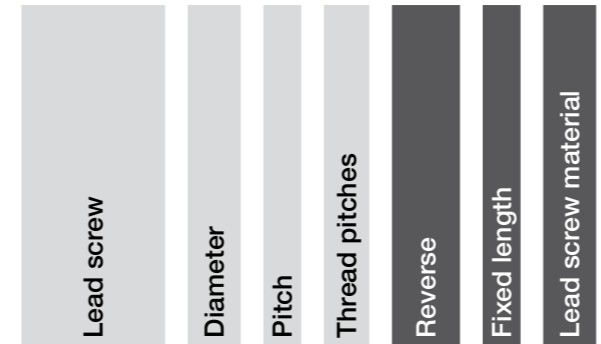
Pitch variation	0.1mm / 300mm
Straightness (standard)	0.3mm / 300mm
Aligned (optional)	<0.1mm / 300mm
Tolerance (according to DIN 103)	7e



Order key

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

PTGSG-10X2-01-R/L-□-ES



Options:
Length in mm
Blank: C15, rolled, AISI 1015
ES: Stainless steel, rolled, AISI 304



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Do you need an individual cut length instead of a fixed length? Configure your personal length easily and quickly using our dryspin® lead screw configurator.

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1,000mm fixed length and 2,000mm total length incl. thread transition - available from stock for individual further processing.

Technical data

Thread	Material		Pitch P [mm]	Pitch angle α [°]	Weight	
	C15	Stainless steel			C15	Stainless steel
		AISI 304			[kg/m]	[kg/m]
Tr8x1.5	●	●	1.5	3.42	0.40	0.40
Tr10x2	●	●	2	3.64	0.62	0.62
Tr10x3	●	●	3	5.45	0.62	0.62
Tr12x3	●	●	3	4.55	0.89	0.89
Tr14x4	●	●	4	5.20	1.21	1.22
Tr16x3	●	●	3	3.42	1.58	1.59
Tr16x4	●	●	4	4.55	1.58	1.58
Tr18x4	●	●	4	4.05	2.00	2.01
Tr20x4	●	●	4	3.64	2.47	2.48
Tr24x5	●	●	5	3.79	3.55	3.57

⁴⁶⁾ Non-usable thread transition - the thread is not fully formed in this area

⁴⁷⁾ Fixed length (L)

⁴⁸⁾ Lead screw material

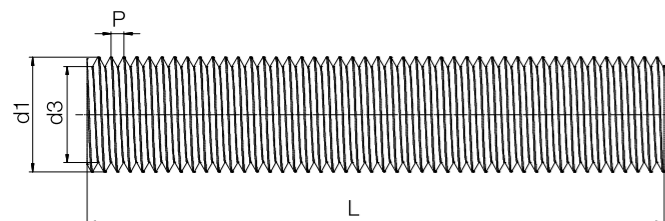
Dimensions [mm]

Outer Ø d1		Core Ø d3		Thread transition l4 ⁴⁶⁾	Max. total length L	Part No.
min.	max.	min.	max.			
7.0	8	5.4	6.2	25	1,000	PTGSG-8X1.5-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾ New
9.8	10	7.2	7.5	20	1,000	PTGSG-10X2-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
9.8	10	6.2	6.5	45	1,000	PTGSG-10X3-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾ New
11.8	12	7.7	8.5	45	1,000	PTGSG-12X3-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
13.7	14	9.1	9.5	60	1,000	PTGSG-14X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
15.8	16	11.8	12.8	60	1,000	PTGSG-16X3-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾ New
15.7	16	10.5	11.5	60	1,000	PTGSG-16X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
17.7	18	12.5	13.5	80	2,000	PTGSG-18X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
19.7	20	14.5	15.5	80	2,000	PTGSG-20X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾
23.7	24	17.3	18.5	90	2,000	PTGSG-24X5-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾



Technical data

Pitch variation	0.1mm / 300mm
Tolerance (according to DIN 976)	6g



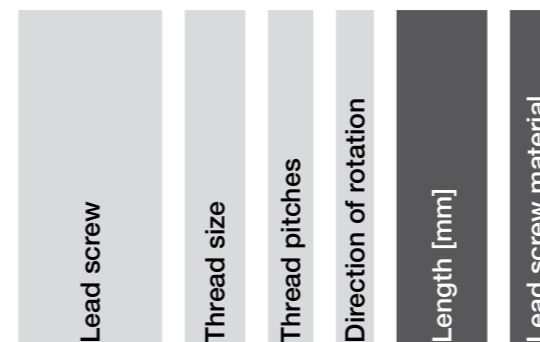
Technical data

Thread	Direction of rotation Right	Material Stainless steel AISI 304	Pitch P [mm]	Pitch angle α [°]	Weight [kg/m]
M3	●	●	0.5	3.04	0.06
M4	●	●	0.7	3.19	0.10
M5	●	●	0.8	2.92	0.16
M6	●	●	1.0	3.04	0.22
M8	●	●	1.25	2.85	0.40
M10	●	●	1.5	2.73	0.62

Order key

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

PTGSG-M3-01-R-1000-ES



Options:
Length in mm: Freely selectable (see table)
 Lead screw material
ES: Stainless steel, rolled, AISI 304

Please contact us!

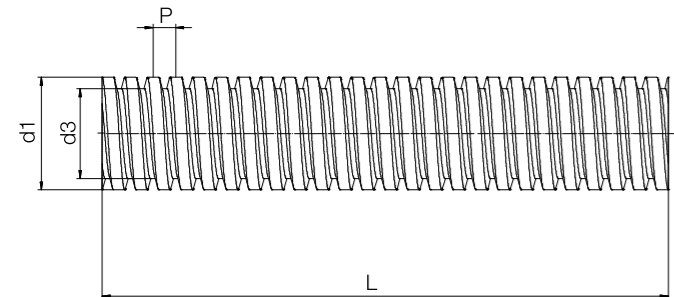
Do you need an individual configuration and/or machined end for your lead screw? This is not a problem with the help of the dryspin® lead screw configurator: configure lead screw at
 ► www.igus.eu/lead-screw-configurator

Dimensions [mm]

Outer Ø d1		Core Ø d3		Max. Total length L	Part No.
min.	max.	min.	max.		
2.8	3.0	2.2	2.3	1,000	PTGSG-M3-01-R-□-ES
3.8	4.0	2.9	3.1	1,000	PTGSG-M4-01-R-□-ES
4.8	4.9	3.8	4.0	1,000	PTGSG-M5-01-R-□-ES
5.7	5.9	4.5	4.7	1,000	PTGSG-M6-01-R-□-ES
7.8	8.0	6.47	6.65	1,000	PTGSG-M8-01-R-□-ES
9.8	10.0	8.16	8.38	1,000	PTGSG-M10-01-R-□-ES



Stainless steel, rolled, AISI 304



Technical data

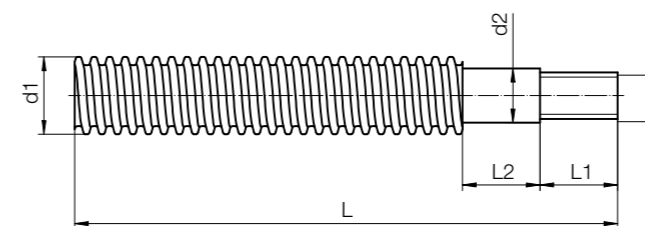
Pitch variation	0.25mm / 300mm
Straightness (standard)	0.625mm / 300mm
Aligned	<0.1mm / 300mm
Tolerance (ANSI/ASME B1.5)	Class 2C

Technical data

Thread	Hand of rotation	Pitch P [mm]	Number of thread pitches per inch	Pitch angle	Weight [lb]	Part No.
1/4-16	●	1,59	16	4,56°	0.25	ACME-1/4-16-R-ES
3/8-20	●	1,27	20	2,43°	0.56	ACME-3/8-20-R-ES
3/8-12	●	2,12	12	4,03°	0.56	ACME-3/8-12-R-ES
3/8-10	●	2,54	10	4,85°	0.56	ACME-3/8-10-R-ES
1/2-10	●	2,54	10	3,64°	1.00	ACME-1/2-10-R-ES
5/8-8	●	3,18	8	3,65°	1.60	ACME-5/8-8-R-ES
3/4-10	●	2,54	10	4,04°	2.25	ACME-3/4-10-R-ES
3/4-6	●	4,23	6	2,43°	2.25	ACME-3/4-6-R-ES
1-10	●	2,54	10	3,64°	4.00	ACME-1-10-R-ES
1-5	●	3,08	5	1,82°	4.00	ACME-1-5-R-ES

Dimensions

Outer Ø		Core Ø		Max. length	Part No.
d1 [mm]	d1 [inch]	d3 [mm]	d3 [inch]	[mm]	
6.35	0.250	4.76	0.187	1,829	ACME-1/4-16-R-ES
9.52	0.375	8.26	0.325	1,829	ACME-3/8-20-R-ES
9.52	0.375	7.40	0.292	1,829	ACME-3/8-12-R-ES
9.52	0.375	7.00	0.275	1,829	ACME-3/8-10-R-ES
12.70	0.500	10.16	0.400	1,829	ACME-1/2-10-R-ES
15.88	0.625	12.70	0.500	1,829	ACME-5/8-8-R-ES
19.05	0.750	14.87	0.585	1,829	ACME-3/4-10-R-ES
19.05	0.750	16.50	0.650	1,829	ACME-3/4-6-R-ES
25.40	1.000	20.30	0.800	1,829	ACME-1-10-R-ES
25.40	1.000	22.86	0.900	1,829	ACME-1-5-R-ES



Order key

Order example

DST-LS-MOT - 5X5 - R - □ - ES

dryspin® technology	Lead screws with precision machining	Diameter	Pitch	Direction of rotation	Total length	Stainless steel
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ES: Stainless steel, rolled, AISI 304

Lead screw motor expert:
Assemble a complete system.
► www.igus.eu/DSE

Suitable motor size

Male thread	Motor size	Distance over hubs
M3	NEMA11/NEMA17S	28/42
M6	NEMA17M/NEMA23	42/56

Technical data and dimensions [mm]

Thread	d1	d2	d3	Pitch	Number of	Pitch	Part No.	
	[mm]	[mm]		P	gears	angle		
				[mm]		[°]		
DS5x5	5.0	4	M3	5.0	2	17.66	DST-LS-MOT-5X5-R-□-ES	New
DS5x10	5.0	4	M3	10.0	4	32.48	DST-LS-MOT-5X10-R-□-ES	New
TR06x2P1	6.0	4	M3	2.0	1	6.06	PTGSG-MOT-06X2P1-R-01-□-ES	New
DS6.35x1	6.35	4	M3	1.0	1	2.87	DST-LS-MOT-6.35X1-R-□-ES	New
DS6.35x2.54	6.35	4	M3	2.54	2	7.26	DST-LS-MOT-6.35X2.54-R-□-ES	New
DS6.35x5.08	6.35	4	M3	5.08	4	14.29	DST-LS-MOT-6.35X5.08-R-□-ES	New
DS6.35x6.35	6.35	4	M3	6.35	3	17.66	DST-LS-MOT-6.35X6.35-R-□-ES	New
DS6.35x12.7	6.35	4	M3	12.7	4	32.48	DST-LS-MOT-6.35X12.7-R-□-ES	New
DS6.35x25.4	6.35	4	M3	25.4	8	51.85	DST-LS-MOT-6.35X25.4-R-□-ES	New
TR08x1.5	8.0	7	M6	1.5	1	3.42	PTGSG-MOT-08X1.5-R-01-□-ES	New
DS8x10	8.0	7	M6	10.0	4	21.70	DST-LS-MOT-8X10-R-□-ES	New
DS8x15	8.0	7	M6	15.0	6	30.83	DST-LS-MOT-8X15-R-□-ES	New
DS8x24	8.0	7	M6	24.0	8	43.70	DST-LS-MOT-8X24-R-□-ES	New
DS8x40	8.0	7	M6	40.0	8	57.86	DST-LS-MOT-8X40-R-□-ES	New
DS10x2	10.0	4	M3	2.0	1	3.64	DST-LS-MOT4-10X2-R-□-ES	New
DS10x2	10.0	7	M6	2.0	1	3.64	DST-LS-MOT-10X2-R-□-ES	New
DS10x3	10.0	4	M3	3.0	2	5.45	DST-LS-MOT4-10X3-R-□-ES	New
DS10x3	10.0	7	M6	3.0	2	5.45	DST-LS-MOT-10X3-R-□-ES	New
DS10x12	10.0	4	M3	12.0	4	21.54	DST-LS-MOT4-10X12-R-□-ES	New
DS10x12	10.0	7	M6	12.0	4	21.54	DST-LS-MOT-10X12-R-□-ES	New
DS10x25	10.0	7	M6	25.0	8	38.51	DST-LS-MOT-10X25-R-□-ES	New
DS10x50	10.0	7	M6	50.0	10	57.86	DST-LS-MOT-10X50-R-□-ES	New
DS12x5	12.0	7	M6	5.0	2	21.69	DST-LS-MOT-12X5-R-□-ES	New
DS12x15	12.0	7	M6	15.0	8	33.55	DST-LS-MOT-12X15-R-□-ES	New

310mm fixed length and 490mm total length incl. machined end length - available from stock for individual further processing or assembly. A suitable force-diverting lead screw support must be ensured.



Order key

Order example

DST-LS-MOTK - 10X2 - R - 1000-ES

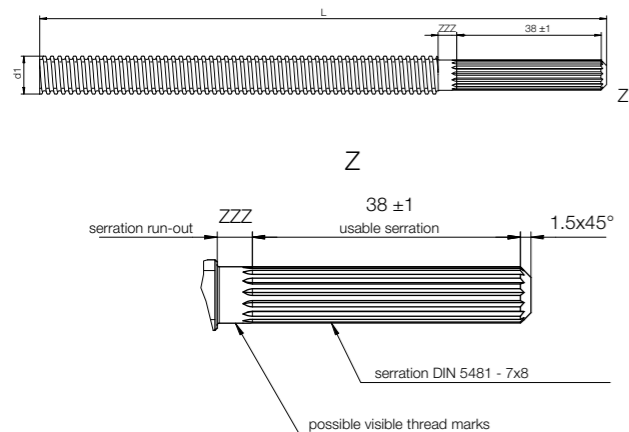
dryspin® technology	Lead screws with spline	Diameter	Pitch	Direction of rotation	Total length	Stainless steel
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ES: Stainless steel, rolled, AISI 304

Please contact us!

Do you need an custom machined end or length of your lead screw?

► www.igus.eu/lead-screw-configurator



Technical data and dimensions

Thread	d1	Pitch P	Number of gears	Pitch angle	ZZZ	Weight	Part No.	
	[mm]	[mm]		[°]	[mm]	[kg]		
DS10x2	10	2	1	3.64	5.0	0.62	DST-LS-MOTK-10X2-R-1000-ES	New
DS10x3	10	3	2	5.45	5.0	0.62	DST-LS-MOTK-10X3-R-1000-ES	New
DS10x12	10	12	4	21.54	5.0	0.62	DST-LS-MOTK-10X12-R-1000-ES	New
DS10x25	10	25	8	38.51	5.0	0.62	DST-LS-MOTK-10X25-R-1000-ES	New
DS10x50	10	50	10	57.86	5.0	0.62	DST-LS-MOTK-10X50-R-1000-ES	New
DS12x5	12	5	2	7.55	6.5	0.89	DST-LS-MOTK-12X5-R-1000-ES	New
DS12x15	12	15	5	21.20	6.5	0.89	DST-LS-MOTK-12X15-R-1000-ES	New
DS12x25	12	25	8	33.55	6.5	0.89	DST-LS-MOTK-12X25-R-1000-ES	New
DS14x4	14	4	1	5.20	7.0	1.22	DST-LS-MOTK-14X4-R-1000-ES	New
DS14x25	14	25	5	29.61	7.0	1.22	DST-LS-MOTK-14X25-R-1000-ES	New
DS18x4	18	4	1	4.04	8.0	2.01	DST-LS-MOTK-18X4-R-1000-ES	New
DS18x24	18	24	6	22.99	8.0	2.01	DST-LS-MOTK-18X24-R-1000-ES	New

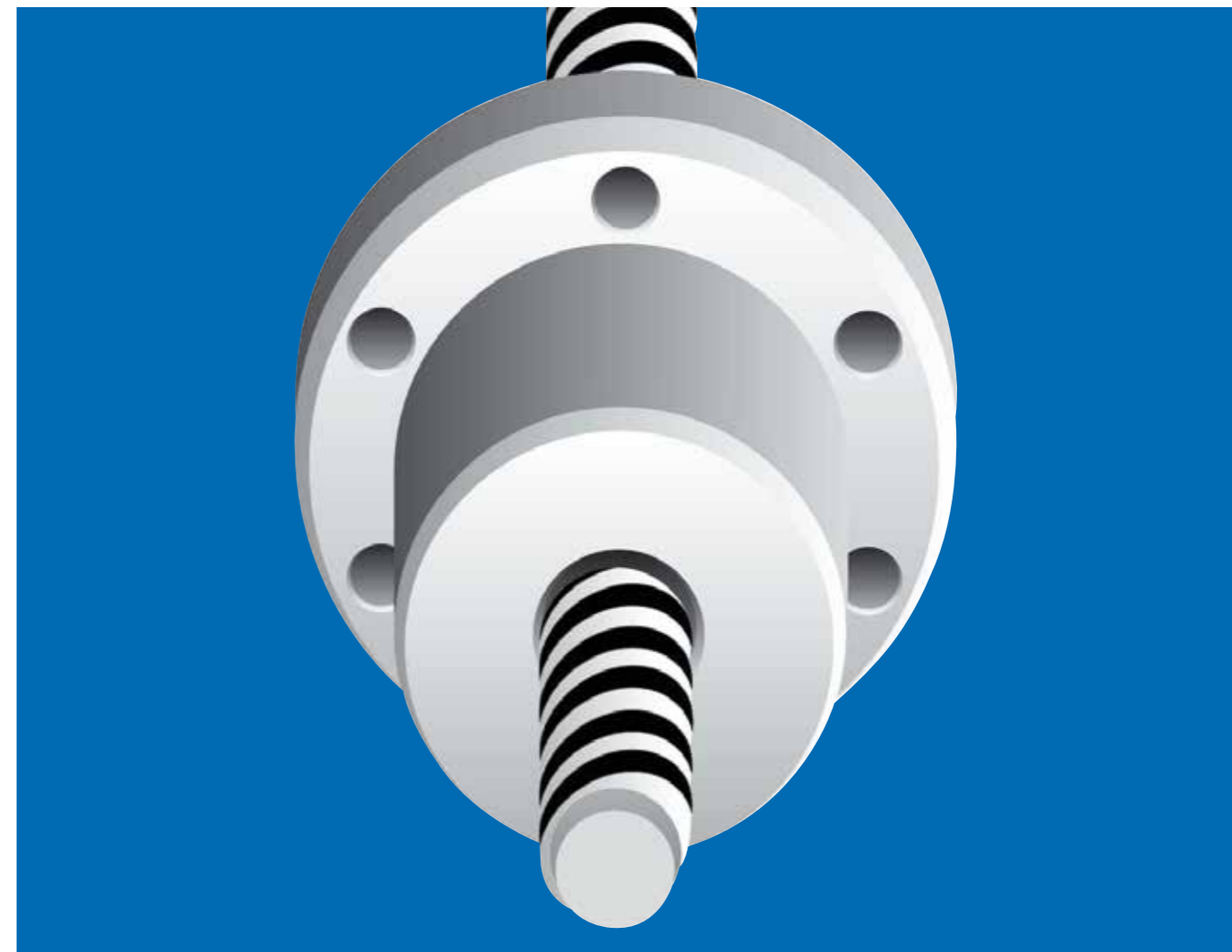
Left-hand thread upon request



Lead screw motor expert:
Assemble a complete system.
► www.igus.eu/DSE



1,000mm fixed total length incl. machined end length - available from stock for individual further processing or assembly. A suitable force-diverting lead screw support must be ensured.



dryspin® lead screw technology - lead screw nuts

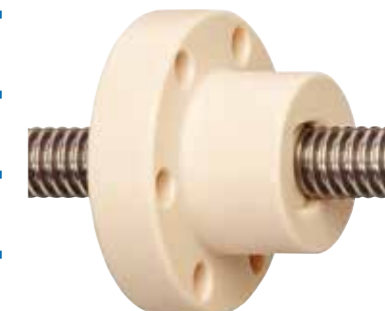
dryspin® lead screw technology

Trapezoidal and metric threads

ACME thread

Maintenance-free dry operation

Resistant to dirt and long service life





Highly efficient at all speeds:
iglidur® J



For temperatures up to +150°C:
iglidur® J350



For medium to high speeds:
iglidur® R



FDA-compliant for the food/
pharmaceutical industry:
iglidur® A180

Thread	Efficiency	Coefficient of friction
	η	μ
Ds4x2.4	41 - 64	0.1 - 0.25
Ds5x5	52 - 74	0.1 - 0.25
Ds5x10	60 - 81	0.1 - 0.25
Ds6.35x2.54	33 - 55	0.1 - 0.25
Ds6.35x5.08	47 - 70	0.1 - 0.25
Ds6.35x6.35	52 - 74	0.1 - 0.25
Ds6.35x12.7	60 - 81	0.1 - 0.25
Ds6.35x25.4	57 - 81	0.1 - 0.25
Ds8x10	55 - 77	0.1 - 0.25
Ds8x15	60 - 81	0.1 - 0.25
Ds8x24	60 - 82	0.1 - 0.25
Ds8x40	52 - 79	0.1 - 0.25
Ds10x3	27 - 48	0.1 - 0.25
Ds10x12	55 - 76	0.1 - 0.25
Ds10x25	61 - 82	0.1 - 0.25
Ds10x50	52 - 79	0.1 - 0.25
Ds12x5	34 - 56	0.1 - 0.25
Ds12.7x12.7	52 - 74	0.1 - 0.25
Ds12x15	55 - 77	0.1 - 0.25
Ds12x25	61 - 81	0.1 - 0.25
Ds14x4	26 - 47	0.1 - 0.25
Ds14x25	60 - 80	0.1 - 0.25
Ds14x30	61 - 81	0.1 - 0.25
Ds14x40.6	61 - 82	0.1 - 0.25
Ds14x70	52 - 79	0.1 - 0.25
Ds16x5	28 - 49	0.1 - 0.25
Ds16x10	42 - 65	0.1 - 0.25
Ds16x35	61 - 81	0.1 - 0.25
Ds18x4	22 - 41	0.1 - 0.25
Ds18x24	56 - 77	0.1 - 0.25
Ds18x40	61 - 81	0.1 - 0.25
Ds18x80	55 - 80	0.1 - 0.25
Ds18x100	49 - 78	0.1 - 0.25
Ds20x5	24 - 44	0.1 - 0.25
Ds20x10	37 - 60	0.1 - 0.25
Ds20x20	52 - 74	0.1 - 0.25
Ds20x50	61 - 82	0.1 - 0.25
Ds20x60	60 - 82	0.1 - 0.25
Ds20x80	57 - 81	0.1 - 0.25
Ds20x90	55 - 80	0.1 - 0.25

Thread	Efficiency	Coefficient of friction
	η	μ
Ds4x2.4	41 - 51	0.17 - 0.25
Ds5x5	52 - 62	0.17 - 0.25
Ds5x10	60 - 70	0.17 - 0.25
Ds6.35x2.54	33 - 42	0.17 - 0.25
Ds6.35x5.08	47 - 57	0.17 - 0.25
Ds6.35x6.35	62 - 74	0.17 - 0.25
Ds6.35x12.7	60 - 70	0.17 - 0.25
Ds6.35x25.4	57 - 69	0.17 - 0.25
Ds8x10	55 - 65	0.17 - 0.25
Ds8x15	60 - 70	0.17 - 0.25
Ds8x24	60 - 71	0.17 - 0.25
Ds8x40	66 - 70	0.17 - 0.25
Ds10x3	27 - 35	0.17 - 0.25
Ds10x12	55 - 65	0.17 - 0.25
Ds10x25	61 - 71	0.17 - 0.25
Ds10x50	52 - 66	0.17 - 0.25
Ds12x5	34 - 43	0.17 - 0.25
Ds12.7x12.7	52 - 62	0.17 - 0.25
Ds12x15	55 - 65	0.17 - 0.25
Ds12x25	61 - 71	0.17 - 0.25
Ds14x4	26 - 34	0.17 - 0.25
Ds14x25	60 - 70	0.17 - 0.25
Ds14x30	61 - 71	0.17 - 0.25
Ds14x40.6	61 - 71	0.17 - 0.25
Ds14x70	52 - 66	0.17 - 0.25
Ds16x5	28 - 36	0.17 - 0.25
Ds16x10	42 - 52	0.17 - 0.25
Ds16x35	61 - 71	0.17 - 0.25
Ds18x4	22 - 29	0.17 - 0.25
Ds18x24	56 - 66	0.17 - 0.25
Ds18x40	61 - 71	0.17 - 0.25
Ds18x80	55 - 68	0.17 - 0.25
Ds18x100	49 - 64	0.17 - 0.25
Ds20x5	24 - 31	0.17 - 0.25
Ds20x10	37 - 47	0.17 - 0.25
Ds20x20	52 - 62	0.17 - 0.25
Ds20x50	61 - 71	0.17 - 0.25
Ds20x60	60 - 71	0.17 - 0.25
Ds20x80	57 - 69	0.17 - 0.25
Ds20x90	55 - 68	0.17 - 0.25

Thread	Efficiency	Coefficient of friction
	η	μ
Ds4x2.4	37 - 47	0.2 - 0.3
Ds5x5	47 - 58	0.2 - 0.3
Ds5x10	55 - 66	0.2 - 0.3
Ds6.35x2.54	29 - 38	0.2 - 0.3
Ds6.35x5.08	42 - 53	0.2 - 0.3
Ds6.35x6.35	47 - 58	0.2 - 0.3
Ds6.35x12.7	55 - 66	0.2 - 0.3
Ds6.35x25.4	50 - 64	0.2 - 0.3
Ds8x10	55 - 61	0.2 - 0.3
Ds8x15	55 - 66	0.2 - 0.3
Ds8x24	54 - 67	0.2 - 0.3
Ds8x40	44 - 61	0.2 - 0.3
Ds10x3	23 - 32	0.2 - 0.3
Ds10x12	55 - 61	0.2 - 0.3
Ds10x25	55 - 67	0.2 - 0.3
Ds10x50	44 - 61	0.2 - 0.3
Ds12x5	29 - 39	0.2 - 0.3
Ds12.7x12.7	47 - 58	0.2 - 0.3
Ds12x15	55 - 61	0.2 - 0.3
Ds12x25	55 - 67	0.2 - 0.3
Ds14x4	23 - 31	0.2 - 0.3
Ds14x25	60 - 72	0.2 - 0.3
Ds14x30	61 - 74	0.2 - 0.3
Ds14x40.6	61 - 75	0.2 - 0.3
Ds14x70	44 - 61	0.2 - 0.3
Ds16x5	22 - 33	0.2 - 0.3
Ds16x10	37 - 48	0.2 - 0.3
Ds16x35	61 - 74	0.2 - 0.3
Ds18x4	19 - 26	0.2 - 0.3
Ds18x24	51 - 62	0.2 - 0.3
Ds18x40	61 - 74	0.2 - 0.3
Ds18x80	55 - 71	0.2 - 0.3
Ds18x100	40 - 58	0.2 - 0.3
Ds20x5	20 - 28	0.2 - 0.3
Ds20x10	33 - 43	0.2 - 0.3
Ds20x20	52 - 65	0.2 - 0.3
Ds20x50	55 - 67	0.2 - 0.3
Ds20x60	60 - 74	0.2 - 0.3
Ds20x80	50 - 64	0.2 - 0.3
Ds20x90	55 - 71	0.2 - 0.3

Thread	Efficiency	Coefficient of friction
	η	μ
Ds4x2.4	41 - 54	0.15 - 0.25
Ds5x5	52 - 65	0.15 - 0.25
Ds5x10	60 - 73	0.15 - 0.25
Ds6.35x2.54	33 - 45	0.15 - 0.25
Ds6.35x5.08	47 - 61	0.15 - 0.25
Ds6.35x6.35	65 - 74	0.15 - 0.25
Ds6.35x12.7	60 - 73	0.15 - 0.25
Ds6.35x25.4	57 - 72	0.15 - 0.25
Ds8x10	55 - 68	0.15 - 0.25
Ds8x15	60 - 73	0.15 - 0.25
Ds8x24	60 - 74	0.15 - 0.25
Ds8x40	52 - 70	0.15 - 0.25
Ds10x3	27 - 38	0.15 - 0.25
Ds10x12	55 - 68	0.15 - 0.25
Ds10x25	61 - 74	0.15 - 0.25
Ds10x50	52 - 70	0.15 - 0.25
Ds12x5	34 - 46	0.15 - 0.25
Ds12.7x12.7	52 - 65	0.15 - 0.25
Ds12x15	55 - 68	0.15 - 0.25
Ds12x25	61 - 81	0.15 - 0.25
Ds14x4	26 - 37	0.15 - 0.25
Ds14x25	60 - 72	0.15 - 0.25
Ds14x30	61 - 74	0.15 - 0.25
Ds14x40.6	61 - 75	0.15 - 0.25
Ds14x70	52 - 70	0.15 - 0.25
Ds16x5	28 - 39	0.15 - 0.25
Ds16x10	42 - 55	0.15 - 0.25
Ds16x35	61 - 74	0.15 - 0.25
Ds18x4	22 - 32	0.15 - 0.25
Ds18x24	56 - 69	0.15 - 0.25
Ds18x40	61 - 74	0.15 - 0.25
Ds18x80	55 - 71	0.15 - 0.25
Ds18x100	49 - 68	0.15 - 0.25
Ds20x5	24 - 34	0.15 - 0.25
Ds20x10	37 - 50	0.15 - 0.25
Ds20x20	52 - 65	0.15 - 0.25
Ds20x50	61 - 74	0.15 - 0.25
Ds20x60	60 - 74	0.15 - 0.25
Ds20x80	57 - 72	0.15 - 0.25
Ds20x90	55 - 71	0.15 - 0.25



For high speeds:
iglidur® E7



The specialist on hard anodised
aluminium:
iglidur® J200

Thread	Efficiency η	Coefficient of friction μ
Ds4x2.4	37 - 47	0.2 - 0.3
Ds5x5	47 - 58	0.2 - 0.3
Ds5x10	55 - 66	0.2 - 0.3
Ds6.35x2.54	29 - 38	0.2 - 0.3
Ds6.35x5.08	42 - 53	0.2 - 0.3
Ds6.35x6.35	47 - 58	0.2 - 0.3
Ds6.35x12.7	55 - 66	0.2 - 0.3
Ds6.35x25.4	50 - 64	0.2 - 0.3
Ds8x10	55 - 61	0.2 - 0.3
Ds8x15	50 - 66	0.2 - 0.3
Ds8x24	54 - 67	0.2 - 0.3
Ds8x40	44 - 61	0.2 - 0.3
Ds10x3	23 - 32	0.2 - 0.3
Ds10x12	55 - 61	0.2 - 0.3
Ds10x25	55 - 67	0.2 - 0.3
Ds10x50	44 - 61	0.2 - 0.3
Ds12x5	29 - 39	0.2 - 0.3
Ds12.7x12.7	47 - 58	0.2 - 0.3
Ds12x15	55 - 61	0.2 - 0.3
Ds12x25	55 - 67	0.2 - 0.3
Ds14x4	23 - 31	0.2 - 0.3
Ds14x25	60 - 72	0.2 - 0.3
Ds14x30	61 - 74	0.2 - 0.3
Ds14x40.6	61 - 75	0.2 - 0.3
Ds14x70	44 - 61	0.2 - 0.3
Ds16x5	-	-
Ds16x10	-	-
Ds16x35	-	-
Ds18x4	-	-
Ds18x24	-	-
Ds18x40	-	-
Ds18x80	-	-
Ds18x100	-	-
Ds20x5	-	-
Ds20x10	-	-
Ds20x20	-	-
Ds20x50	-	-
Ds20x60	-	-
Ds20x80	-	-
Ds20x90	-	-

Thread	Efficiency η	Coefficient of friction μ
Ds4x2.4	-	-
Ds5x5	-	-
Ds5x10	-	-
Ds6.35x2.54	-	-
Ds6.35x5.08	-	-
Ds6.35x6.35	-	-
Ds6.35x12.7	-	-
Ds6.35x25.4	-	-
Ds8x10	-	-
Ds8x15	-	-
Ds8x24	-	-
Ds8x40	-	-
Ds10x3	-	-
Ds10x12	-	-
Ds10x25	-	-
Ds10x50	-	-
Ds12x5	-	-
Ds12.7x12.7	-	-
Ds12x15	-	-
Ds12x25	-	-
Ds14x4	-	-
Ds14x25	-	-
Ds14x30	-	-
Ds14x40.6	-	-
Ds14x70	-	-
Ds16x5	28 - 49	0.1 - 0.25
Ds16x10	42 - 65	0.1 - 0.25
Ds16x35	61 - 81	0.1 - 0.25
Ds18x4	22 - 41	0.1 - 0.25
Ds18x24	56 - 77	0.1 - 0.25
Ds18x40	61 - 81	0.1 - 0.25
Ds18x80	55 - 80	0.1 - 0.25
Ds18x100	49 - 78	0.1 - 0.25
Ds20x5	24 - 44	0.1 - 0.25
Ds20x10	37 - 60	0.1 - 0.25
Ds20x20	52 - 74	0.1 - 0.25
Ds20x50	61 - 82	0.1 - 0.25
Ds20x60	60 - 82	0.1 - 0.25
Ds20x80	57 - 81	0.1 - 0.25
Ds20x90	55 - 80	0.1 - 0.25

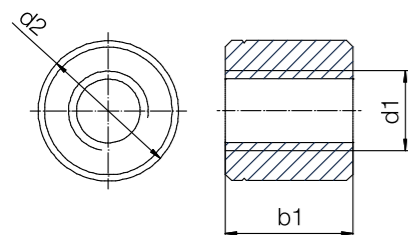
Lead screw nuts - "ACME" USA standard, iglidur® J (standard)

Technical data - iglidur® J

Thread	Efficiency η	Idling torque ¹¹⁸⁾ [Nm]	Coefficient of friction μ
1/4-16	24 - 44	0.0029	0.1 - 0.25
3/8-20	14 - 30	0.0034	0.1 - 0.25
3/8-12	22 - 41	0.0041	0.1 - 0.25
3/8-10	25 - 46	0.0044	0.1 - 0.25
1/2-10	20 - 39	0.0052	0.1 - 0.25
5/8-8	20 - 39	0.0065	0.1 - 0.25
3/4-6	22 - 41	0.0082	0.1 - 0.25
3/4-10	14 - 30	0.0068	0.1 - 0.25
1-5	20 - 39	0.0105	0.1 - 0.25
1-10	11 - 24	0.0084	0.1 - 0.25

¹¹⁸⁾ Theoretical idling torque assuming the best coefficient of friction at a 5N load

Lead screw nuts, cylindrical (form S)



Order key

Type d2 b1 Thread

DST-□ S R M-1413DS10X12

dryspin® technology	igidur® material	Form S	Direction of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch	Options:
										Direction of rotation
										R: Right-hand thread
										L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
J200	The specialist on hard anodised aluminium	Optional

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
Ds4x2.4	●	–	57	2.4	142	142	114	142	–
Ds5x5	●	–	58	5	144	144	115	144	–
Ds5x10	●	–	43	10	108	108	86	108	–
Ds6.35x1	●	–	119	1	299	299	239	299	–
Ds6.35x2.54	●	●	172	2.54	430	430	344	430	–
Ds6.35x5.08	●	–	135	5.08	338	338	270	338	–
Ds6.35x6.35	●	–	104	6.35	260	260	208	260	–
Ds6.35x12.7	●	–	69	12.7	172	172	138	172	–
Ds6.35x25.4	●	–	76	25.4	189	189	151	189	–
Ds8x8	●	–	144	8	360	360	288	360	–
Ds8x10	●	●	122	10	304	304	244	304	–
Ds8x15	●	●	122	15	304	304	244	304	–
Ds8x24	●	–	103	24	258	258	206	258	–
Ds8x40	●	–	57	40	143	143	114	143	–
Ds10x2	●	●	299	2	1,196	897	598	1,046	–
Ds10x3	●	●	402	3	1,608	1,206	804	1,407	–
Ds10x12	●	●	274	12	685	685	549	685	–
Ds10x25	●	●	249	25	623	623	499	623	–
Ds10x50	●	●	144	50	361	361	289	361	–
Ds12x3	●	–	422	3	1,686	1,265	843	1,475	–

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g] iglidur®					Part No.
			J	J350	R	A180	J200	
4	14	13	2.74	2.65	2.55	2.68	–	DST- □ SRM-131315DS4X2.4
5	14	13	2.6	2.5	2.4	2.6	–	DST- □ SRM-1413DS5X5
5	14	13	2.6	2.5	2.4	2.6	–	DST- □ SRM-1413DS5X10 New
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ SRM-1413DS6.35X1 New
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ S □ M-1413DS6.35X2.54
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ SRM-1413DS6.35X5.08
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ SRM-1413DS6.35X6.35 New
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ SRM-1413DS6.35X12.7
6.35	14	13	2.4	2.3	2.2	2.3	–	DST- □ SRM-1413DS6.35X25.4
8	18	12	3.7	3.5	3.4	3.6	–	DST- □ SRM-1812DS8X8 New
8	18	12	3.7	3.5	3.4	3.6	–	DST- □ S □ M-1812DS8X10
8	18	12	3.7	3.5	3.4	3.6	–	DST- □ S □ M-1812DS8X15
8	18	12	3.7	3.5	3.4	3.6	–	DST- □ SRM-1812DS8X24
8	18	12	3.7	3.5	3.4	3.6	–	DST- □ SRM-1812DS8X40 New
10	22	20	9.0	8.7	8.4	8.8	–	DST- □ S □ M-2220DS10X2 New
10	22	20	9.0	8.7	8.4	8.8	–	DST- □ S □ M-2220DS10X3 New
10	22	20	9.0	8.7	8.4	8.8	–	DST- □ S □ M-2220DS10X12
10	22	20	9.0	8.7	8.4	8.8	–	DST- □ S □ M-2220DS10X25
10	22	20	9.0	8.7	8.4	8.8	–	DST- □ S □ M-2220DS10X50
12	26	24	14.9	14.4	13.9	14.6	–	DST- □ SRM-2624DS12X3

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

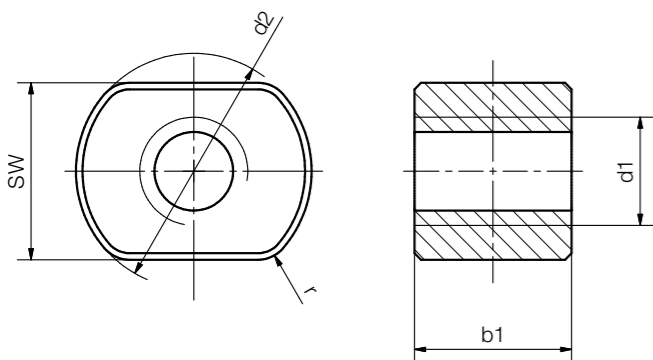
Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
	●	–							
Ds12x5	●	–	391	5	1,563	1,173	782	1,368	–
Ds12.7x12.7	●	–	410	12.7	1,026	1,026	821	1,026	–
Ds12x15	●	–	384	15	961	961	769	961	–
Ds12x25	●	●	383	25	958	958	767	958	–
Ds14x4	●	●	514	4	2,057	1,543	1,028	1,800	–
Ds14x25	●	●	440	25	1,101	1,101	881	1,101	–
Ds14x30	●	–	440	30	1,101	1,101	881	1,101	–
Ds14x40.6	●	–	430	40.6	1,075	1,075	860	1,075	–
Ds14x70	●	–	235	70	588	588	470	588	–
Ds16x5	●	–	662	5	2,648	1,986	1,324	2,317	1,324
Ds16x10	●	–	616	10	2,465	1,849	1,232	2,157	1,232
Ds16x35	●	–	610	35	1,526	1,526	1,221	1,526	1,221
Ds18x4	●	●	915	4	3,659	2,744	1,829	3,201	1,829
Ds18x24	●	●	839	24	2,097	2,097	1,677	2,097	1,677
Ds18x40	●	●	786	40	1,966	1,966	1,573	1,966	1,573
Ds18x80	●	●	543	80	1,357	1,357	1,086	1,357	1,086
Ds18x100	●	●	476	100	1,191	1,191	953	1,191	953
Ds20x5	●	–	1,062	5	4,246	3,185	2,123	3,716	2,123
Ds20x10	●	–	994	10	3,976	2,982	1,988	3,479	1,988
Ds20x20	●	●	984	20	2,460	2,460	1,968	2,460	1,968
Ds20x50	●	–	790	50	1,976	1,976	1,581	1,976	1,581
Ds20x60	●	●	663	60	1,657	1,657	1,325	1,657	1,325
Ds20x80	●	●	682	80	1,704	1,704	1,363	1,704	1,363
Ds20x90	●	●	663	90	1,657	1,657	1,325	1,657	1,325

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g] iglidur®					Part No.		
			J	J350	R	A180	J200	J	J350	J200
12	26	24	14.9	14.4	13.9	14.6	–	DST-□SRM-2624DS12X5		
12.7	26	24	14.5	14.0	13.5	14.2	–	DST-□SRM-2624DS12.7X12.7		
12	26	24	14.9	14.4	13.9	14.6	–	DST-□SRM-2624DS12X15		
12	26	24	14.9	14.4	13.9	14.6	–	DST-□S□M-2624DS12X25 New		
14	30	27	22.2	21.5	20.8	21.8	–	DST-□S□M-3027DS14X4 New		
14	30	27	22.2	21.5	20.8	21.8	–	DST-□S□M-3027DS14X25		
14	30	27	22.2	21.5	20.8	21.8	–	DST-□SRM-3027DS14X30		
14	30	27	22.2	21.5	20.8	21.8	–	DST-□SRM-3027DS14X40.6		
14	30	27	22.2	21.5	20.8	21.8	–	DST-□SRM-3027DS14X70 New		
16	36	32	39.0	37.6	36.3	38.2	45.0	DST-□SRM-3632DS16X5 New		
16	36	32	38.9	37.6	36.3	38.2	45.0	DST-□SRM-3632DS16X10 New		
16	36	32	38.9	37.6	36.3	38.2	45.0	DST-□SRM-3632DS16X35		
18	40	36	53.8	52.0	50.2	52.7	62.1	DST-□SRM-4036DS18X4 New		
18	40	36	53.8	52.0	50.2	52.7	62.1	DST-□S□M-4036DS18X24		
18	40	36	53.8	52.0	50.2	52.7	62.1	DST-□S□M-4036DS18X40		
18	40	36	53.8	52.0	50.2	52.7	62.1	DST-□S□M-4036DS18X80		
18	40	36	53.8	52.0	50.2	52.7	62.1	DST-□S□M-4036DS18X100		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-JSRM-4540DS20X5 New		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□SRM-4540DS20X10 New		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□S□M-4540DS20X20		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□SRM-4540DS20X50		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□S□M-4540DS20X60		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□S□M-4540DS20X80		
20	45	40	76.1	73.5	71.0	74.5	87.8	DST-□S□M-4540DS20X90		

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type SW d2 b1 Thread

DST-□ S R M-17 22 20 DS 10X12

dryspin® technology	igidur® material	Form S	Direction of rotation	Metric	Spanner flat [mm]	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch	Options:
											Direction of rotation
											R: Right-hand thread
											L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
J200	The specialist on hard anodised aluminium	Optional

Technical data

Thread	Direction of rotation		Effective support surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
DS10x2	●	●	299	2	1,196	897	598	1,046	-
DS10x3	●	●	402	3	1,608	1,206	804	1,407	-
DS10x12	●	●	274	12	686	686	549	686	-
DS10x25	●	●	249	25	623	623	499	623	-
DS10x50	●	●	144	50	361	361	289	361	-
DS12x3	●	-	422	3	1,686	1,265	843	1,475	-
DS12x5	●	-	391	5	1,563	1,173	782	1,368	-
DS12.7x12.7	●	-	410	12.7	1,026	1,026	821	1,026	-
DS12x15	●	●	384	15	961	961	769	961	-
DS12x25	●	-	383	25	958	958	767	958	-
DS14x4	●	-	514	4	2,057	1,543	1,028	1,800	-
DS14x25	●	●	440	25	1,101	1,101	881	1,101	-
DS14x30	●	-	440	30	1,101	1,101	881	1,101	-
DS14x40.6	●	-	430	40.6	1,075	1,075	860	1,075	-
DS14x70	●	-	235	70	588	588	470	588	-
DS16x5	●	-	662	5	2,648	1,986	1,324	2,317	1,324
DS16x10	●	-	616	10	2,465	1,849	1,232	2,157	1,232
DS16x35	●	-	610	35	1,526	1,526	1,221	1,526	1,221
DS18x4	●	-	915	4	3,659	2,744	1,829	3,201	1,829
DS18x24	●	●	839	24	2,097	2,097	1,677	2,097	1,677

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	SW	Weight [g] iglidur®					Part No.	
				J	J350	R	A180	J200		
10	22	20	17	6.65	6.42	6.20	6.51	-	DST-□S□M-172220DS10X2	New
10	22	20	17	6.65	6.42	6.20	6.51	-	DST-□S□M-172220DS10X3	New
10	22	20	17	6.65	6.42	6.20	6.51	-	DST-□S□M-172220DS10X12	
10	22	20	17	6.65	6.42	6.20	6.51	-	DST-□S□M-172220DS10X25	
10	22	20	17	6.65	6.42	6.20	6.51	-	DST-□S□M-172220DS10X50	
12	26	24	19	10.90	10.53	10.17	10.68	-	DST-□SRM-192624DS12X3	New
12	26	24	19	10.90	10.53	10.17	10.68	-	DST-□SRM-192624DS12X5	
12.7	26	24	19	9.93	9.59	9.26	9.73	-	DST-□SRM-192624DS12.7X12.7	New
12	26	24	19	10.90	10.53	10.17	10.68	-	DST-□S□M-192624DS12X15	
12	26	24	19	10.90	10.53	10.17	10.68	-	DST-□SRM-192624DS12X25	
14	30	27	25	16.05	15.51	14.97	15.73	-	DST-□SRM-253027DS14X4	New
14	30	27	25	16.05	15.51	14.97	15.73	-	DST-□S□M-253027DS14X25	
14	30	27	25	16.05	15.51	14.97	15.73	-	DST-□SRM-253027DS14X30	
14	30	32	25	19.02	18.39	17.75	18.64	-	DST-□SRM-253027DS14X40.6	
14	30	32	25	19.02	18.39	17.75	18.64	-	DST-□SRM-253027DS14X70	New
16	36	36	27	33.03	31.92	30.81	32.36	-	DST-□SRM-273632DS16X5	New
16	36	36	27	33.03	31.92	30.81	32.36	-	DST-JSRM-273632DS16X10	New
16	36	36	27	33.03	31.92	30.81	32.36	-	DST-□SRM-273632DS16X35	
18	40	36	27	40.11	38.76	37.41	39.30	46.30	DST-□SRM-274036DS18X4	New
18	40	36	27	40.11	38.76	37.41	39.30	46.30	DST-□S□M-274036DS18X24	

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Technical data

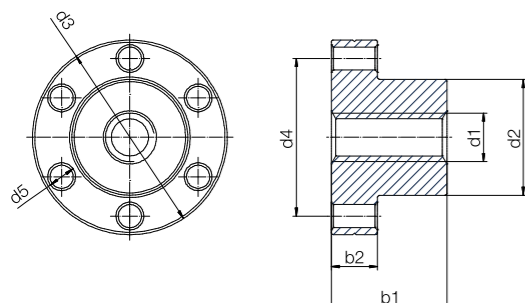
Thread	Direction of rotation		Effective support surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
	●	●							
DS18x40	●	●	786	40	1,966	1,966	1,573	1,966	1,573
DS18x80	●	●	543	80	1,357	1,357	1,086	1,357	1,086
DS18x100	●	●	476	100	1.191	1.191	953	1.191	953
DS20x5	●	–	1.062	5	4,246	3,185	2,123	3,716	2,123
DS20x10	●	–	994	10	3.976	2,982	1,988	3,479	1,988
DS20x20	●	●	984	20	2,460	2,460	1,968	2,460	1,968
DS20x50	●	–	790	50	1,976	1,976	1,581	1,976	1,581
DS20x60	●	●	663	60	1,657	1,657	1,325	1,657	1,325
DS20x80	●	●	382	80	1,704	1,704	1,363	1,704	1,363
DS20x90	●	●	663	90	1,657	1,657	1,325	1,657	1,325

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	SW	Weight [g] iglidur®					Part No.
				J	J350	R	A180	J200	
18	40	36	27	40.11	38.76	37.41	39.30	46.30	DST-□S□M-274036DS18X40
18	40	36	27	40.11	38.76	37.41	39.30	46.30	DST-□S□M-274036DS18X80
18	40	36	27	44.56	43.07	41.57	43.67	51.44	DST-□S□M-274036DS18X100
20	45	40	27	57.34	55.42	53.49	56.19	66.19	DST-JSRM-304540DS20X5 New
20	45	40	27	57.34	55.42	53.49	56.19	66.19	DST-□SRM-304540DS20X10 New
20	45	40	30	57.34	55.42	53.49	56.19	66.19	DST-□S□M-304540DS20X20
20	45	40	30	57.34	55.42	53.49	56.19	66.19	DST-□S□M-304540DS20X50
20	45	40	30	57.34	55.42	53.49	56.19	66.19	DST-□S□M-304540DS20X60
20	45	40	30	57.34	55.42	53.49	56.19	66.19	DST-□S□M-304540DS20X80
20	45	40	30	57.34	55.42	53.49	56.19	66.19	DST-□S□M-304540DS20X90

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Lead screw nuts with flange (form F)



Order key

Type	d2	b1	Thread
DST-□ F R M-25 25DS 10X12			
dryspin® technology	igidur® material	Form F	Direction of rotation
		Metric	Outer Ø [mm]
			Length [mm]
			Thread type
			Diameter [mm]
			Pitch

Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard 24hrs
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
J200	The specialist on hard anodised aluminium	Optional

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
Ds4x2.4	●	–	69	2.4	164	164	132	164	–
Ds5x5	●	–	66	5	166	166	133	166	–
Ds5x10	●	–	50	10	124	124	100	124	–
Ds6.35x1	●	–	138	1	345	345	276	345	–
Ds6.35x2.54	●	●	199	2.54	496	496	397	496	–
Ds6.35x5.08	●	–	156	5.08	390	390	312	390	–
Ds6.35x6.35	●	–	120	6.35	300	300	240	300	–
Ds6.35x12.7	●	–	79	12.7	199	199	159	199	–
Ds6.35x25.4	●	–	87	25.4	218	218	174	218	–
Ds8x8	●	–	240	8	601	601	481	601	–
Ds8x10	●	●	203	10	507	507	406	507	–
Ds8x15	●	●	203	15	507	507	406	507	–
Ds8x24	●	–	172	24	430	430	344	430	–
Ds8x40	●	–	95	40	238	238	191	238	–
Ds10x2	●	●	374	2	1,495	1,121	747	1,308	–
Ds10x3	●	●	502	3	2,009	1,507	1,005	1,758	–
Ds10x12	●	●	343	12	857	857	686	857	–
Ds10x25	●	●	312	25	779	779	623	779	–
Ds10x50	●	●	181	50	451	451	361	451	–
Ds12x3	●	–	570	3	2,459	1,844	1,229	2,152	–
Ds12x5	●	–	570	5	2,280	1,710	1,140	1,995	–

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®					Part No.
							J	J350	R	A180	J200	
4.0	13	25	19	3.2	15	5	5.4	5.2	5.0	5.3	–	DST-□FRM-1315DS4X2.4
5.0	13	25	19	3.2	15	5	5.2	5.0	4.9	5.1	–	DST-□FRM-1315DS5X5
5.0	13	25	19	3.2	15	5	5.2	5.0	4.9	5.1	–	DST-□FRM-1315DS5X10 New
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□F□M-1315DS6.35X1 New
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□F□M-1315DS6.35X2.54
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X5.08
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□F□M-1315DS6.35X6.35 New
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X12.7
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X25.4
8	20	34	28	4	20	5	12.3	11.9	11.5	12.0	–	DST-□F□M-2020DS8X8 New
8	20	34	28	4	20	5	12.3	11.9	11.5	12.0	–	DST-□F□M-2020DS8X10
8	20	34	28	4	20	5	12.3	11.9	11.5	12.0	–	DST-□F□M-2020DS8X15
8	20	34	28	4	20	5	12.3	11.9	11.5	12.0	–	DST-□FRM-2020DS8X24
8	20	34	28	4	20	5	12.3	11.9	11.5	12.0	–	DST-□FRM-2020DS8X40 New
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X2 New
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X3 New
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X12
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X25
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X50
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X3 New
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X5

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Lead screw nuts with flange (form F)

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®				
	Right	Left			J	J350	R	A180	J200
	●	–							
Ds12.7x12.7	●	–	599	12.7	1,496	1,496	1,197	1,496	–
Ds12x15	●	●	561	15	1,402	1,402	1,121	1,402	–
Ds12x25	●	●	559	25	1,397	1,397	1,118	1,397	–
Ds14x4	●	–	677	4	2,666	2,000	1,333	2,333	–
Ds14x25	●	●	571	25	1,427	1,427	1,142	1,427	–
Ds14x30	●	–	571	30	1,427	1,427	1,142	1,427	–
Ds14x40.6	●	–	557	40.6	1,393	1,393	1,114	1,393	–
Ds14x70	●	–	305	70	762	762	609	762	–
Ds16x5	●	–	724	5	2,896	2,172	1,448	2,534	1,448
Ds16x10	●	–	674	10	2,696	2,022	1,348	2,359	1,348
Ds16x35	●	–	668	35	1,669	1,669	1,335	1,669	1,335
Ds18x4	●	–	889	4	3,557	2,668	1,778	3,112	1,778
Ds18x24	●	●	815	24	2,038	2,038	1,631	2,038	1,631
Ds18x40	●	●	764	40	1,911	1,911	1,529	1,911	1,529
Ds18x80	●	●	528	80	1,319	1,319	1,056	1,319	1,056
Ds18x100	●	●	463	100	1,158	1,158	926	1,158	926
Ds20x5	●	–	1,168	5	4,671	3,503	2,336	4,087	2,336
Ds20x10	●	–	1,093	10	4,374	3,280	2,187	3,827	2,187
Ds20x20	●	●	1,083	20	2,707	2,707	2,165	2,707	2,165
Ds20x50	●	–	870	50	2,174	2,174	1,739	2,174	1,739
Ds20x60	●	●	729	60	1,822	1,822	1,458	1,822	1,458
Ds20x80	●	●	750	80	1,874	1,874	1,500	1,874	1,500
Ds20x90	●	●	729	90	1,822	1,822	1,458	1,822	1,342

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®					Part No.
							J	J350	R	A180	J200	
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12.7X12.7
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X15
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□F□M-2835DS12X25 New
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X4 New
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□F□M-2835DS14X25
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X30
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X40.6
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X70 New
16	28	48	38	6	35	12	43.0	41.5	40.1	42.1	–	DST-□FRM-2835DS16X5 New
16	28	48	38	6	35	12	43.0	41.5	40.1	42.1	49.6	DST-□FRM-2835DS16X10 New
16	28	48	38	6	35	12	43.0	41.5	40.1	42.1	49.6	DST-□FRM-2835DS16X35
18	28	48	38	6	35	12	40.2	38.4	37.5	39.4	46.4	DST-□FRM-2835DS18X4 New
18	28	48	38	6	35	12	40.2	38.4	37.5	39.4	46.4	DST-□F□M-2835DS18X24
18	28	48	38	6	35	12	50.9	49.2	47.5	49.8	46.4	DST-□F□M-2835DS18X40
18	28	48	38	6	35	12	50.9	49.2	47.5	49.8	46.4	DST-□F□M-2835DS18X80
18	28	48	38	6	35	12	50.9	49.2	47.5	49.8	46.4	DST-□F□M-2835DS18X100
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□FRM-3244DS20X5 New
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□FRM-3244DS20X10 New
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□F□M-3244DS20X20
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□F□M-3244DS20X50
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□F□M-3244DS20X60
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□F□M-3244DS20X80
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	69.5	DST-□F□M-3244DS20X90

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

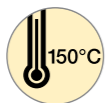
Lead screw nuts with spanner flat and flange



igidur® J



igidur® J350



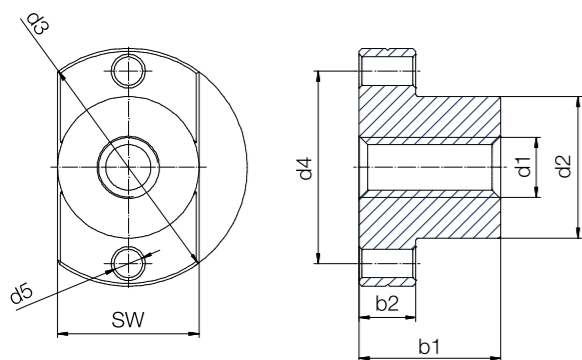
igidur® R



igidur® A180



igidur® J200



Order key

Type	SW	d2	b1	Thread
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DST-□ F R M-25 25 25 DS 10X12

dryspin® technology	igidur® material	Form F	Direction of rotation	Metric	Spanner flat [mm]	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch	
	J										Options: Direction of rotation R: Right-hand thread L: Left-hand thread
	J350										Standard
	R										Optional
	A180										Optional
	J200										Optional

Technical data and dimensions [mm]

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®					d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3
	Right	Left			J	J350	R	A180	J200			
Ds4x2.4	●	–	66	2.4	164	164	132	164	–	4.0	13	25
Ds5x5	●	–	66	5	166	166	133	166	–	5.0	13	25
Ds5x10	●	–	50	10	124	124	100	124	–	5.0	13	25
Ds6.35x1	●	–	138	1	345	345	276	345	–	6.35	13	25
Ds6.35x2.54	●	●	199	2.54	496	496	397	496	–	6.35	13	25
Ds6.35x5.08	●	–	156	5.08	390	390	312	390	–	6.35	13	25
Ds6.35x6.35	●	–	120	6.35	300	300	240	300	–	6.35	13	25
Ds6.35x12.7	●	–	79	12.7	199	199	159	199	–	6.35	13	25
Ds6.35x25.4	●	–	87	25.4	218	218	174	218	–	6.35	13	25
Ds8x8	●	–	240	8	601	601	481	601	–	8	20	34
Ds8x10	●	●	203	10	507	507	406	507	–	8	20	36
Ds8x15	●	●	203	15	507	507	406	507	–	8	20	36
Ds8x24	●	●	172	24	430	430	344	430	–	8	20	36
Ds8x40	●	–	95	40	238	238	191	238	–	8	20	36
Ds10x2	●	●	374	2	1,495	1,121	747	1,308	–	10	25	42
Ds10x3	●	●	502	3	2,009	1,507	1,005	1,758	–	10	25	42
Ds10x12	●	●	343	12	857	857	686	857	–	10	25	42
Ds10x25	●	●	312	25	779	779	623	779	–	10	25	42
Ds10x50	●	●	181	50	451	451	361	451	–	10	25	42
Ds12x3	●	–	570	3	2,459	1,844	1,229	2,152	–	12	28	48
Ds12x5	●	–	570	5	2,280	1,710	1,140	1,995	–	12	28	48

Dimensions [mm]

d4	d5	b1 ¹⁵⁶⁾	b2	SW	Weight [g] iglidur®					Part No.
					J	J350	R	A180	J200	
19	3.2	15	5	13	4.1	3.98	3.84	4.04	–	DST-□FRM-131315DS4X2.4
19	3.2	15	5	13	4.0	3.8	3.7	3.9	–	DST-□FRM-131315DS5X5
19	3.2	15	5	13	4.0	3.8	3.7	3.9	–	DST-□FRM-131315DS5X10 New
19	3.2	15	5	13	4.9	4.8	4.6	4.8	–	DST-□FRM-131315DS6.35X1 New
19	3.2	15	5	13	3.7	3.6	3.4	3.6	–	DST-□F□M-131315DS6.35X2.54
19	3.2	15	5	13	3.7	3.6	3.4	3.6	–	DST-□FRM-131315DS6.35X5.08
19	3.2	15	5	13	3.7	3.6	3.4	3.6	–	DST-□FRM-131315DS6.35X6.35 New
19	3.2	15	5	13	3.7	3.6	3.4	3.6	–	DST-□FRM-131315DS6.35X12.7
19	3.2	15	5	13	3.7	3.6	3.4	3.6	–	DST-□FRM-131315DS6.35X25.4
28	4	20	5	20	12.3	11.9	11.5	12.0	–	DST-□FRM-202020DS8X8 New
28	4	20	8	20	12.7	12.3	11.8	12.4	–	DST-□F□M-202020DS8X10
28	4	20	8	20	12.7	12.3	11.8	12.4	–	DST-□F□M-202020DS8X15
28	4	20	8	20	12.7	12.3	11.8	12.4	–	DST-□F□M-202020DS8X24
28	4	20	8	20	12.7	12.3	11.9	12.5	–	DST-□FRM-202020DS8X40 New
34	5	25	10	25	28.7	27.7	26.8	28.1	–	DST-□F□M-252525DS10X2 New
34	5	25	10	25	23.7	22.9	22.1	23.2	–	DST-□F□M-252525DS10X3 New
34	5	25	10	25	23.7	22.9	22.1	23.2	–	DST-□F□M-252525DS10X12
34	5	25	10	25	23.7	22.9	22.1	23.2	–	DST-□F□M-252525DS10X25
34	5	25	10	25	23.7	22.9	22.1	23.2	–	DST-□F□M-252525DS10X50
38	6	35	12	28	47.6	46.0	44.4	46.6	–	DST-□FRM-282835DS12X3 New
38	6	35	12	28	39.2	37.9	36.6	38.4	–	DST-□FRM-282835DS12X5

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Lead screw nuts with spanner flat and flange

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N]					d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3
	Right	Left			iglidur®							
					J	J350	R	A180	J200			
Ds12.7x12.7	●	–	599	12.7	1,496	1,496	1,197	1,496	–	12.7	28	48
Ds12x15	●	●	561	15	1,402	1,402	1,121	1,402	–	12	28	48
Ds12x25	●	–	559	25	1,397	1,397	1,118	1,397	–	12	28	48
Ds14x4	●	–	667	4	2,666	2,000	1,333	2,333	–	14	28	48
Ds14x25	●	●	571	25	1,427	1,427	1,142	1,427	–	14	28	48
Ds14x30	●	–	571	30	1,427	1,427	1,142	1,427	–	14	28	48
Ds14x40.6	●	–	557	40.6	1,393	1,393	1,114	1,393	–	14	28	48
Ds14x70	●	–	305	70	762	762	609	762	–	14	28	48
Ds16x5	●	–	724	5	2,896	2,172	1,448	2,534	1,448	16	28	48
Ds16x10	●	–	674	10	2,696	2,022	1,348	2,359	1,348	16	28	48
Ds16x35	●	–	668	35	1,669	1,669	1,335	1,669	1,335	16	28	48
Ds18x4	●	–	889	4	3,557	2,668	1,778	3,112	1,778	18	28	48
Ds18x24	●	●	815	24	2,038	2,038	1,631	2,038	1,631	18	28	48
Ds18x40	●	●	764	40	1,911	1,911	1,529	1,911	1,529	18	28	48
Ds18x80	●	●	528	80	1,319	1,319	1,056	1,319	1,056	18	28	48
Ds18x100	●	●	463	100	1,158	1,158	926	1,158	926	18	28	48
Ds20x5	●	–	1,168	5	4,671	3,503	2,336	4,087	2,336	20	32	55
Ds20x10	●	–	1,093	10	4,374	3,280	2,187	3,827	2,187	20	32	55
Ds20x20	●	●	1,083	20	2,707	2,707	2,165	2,707	2,165	20	32	55
Ds20x50	●	–	870	50	2,174	2,174	1,739	2,174	1,739	20	32	55
Ds20x60	●	●	729	60	1,822	1,822	1,458	1,822	1,458	20	32	55
Ds20x80	●	●	750	80	1,874	1,874	1,500	1,874	1,500	20	32	55
Ds20x90	●	●	729	90	1,822	1,822	1,458	1,822	1,458	20	32	55

Dimensions [mm]

d4	d5	b1 ¹⁵⁶⁾	b2	SW	Weight [g]					Part No.	
					iglidur®						
					J	J350	R	A180	J200		
38	6	35	12	28	38.5	37.2	35.9	37.8	–	DST-□FRM-282835DS12.7X12.7	New
38	6	35	12	28	47.5	45.9	44.3	46.5	–	DST-□F□M-282835DS12X15	
38	6	35	12	28	39.2	37.9	36.6	38.4	–	DST-□FRM-282835DS12X25	
38	6	35	12	28	37.1	35.9	34.6	36.4	–	DST-□FRM-282835DS14X4	New
38	6	35	12	28	37.1	35.9	34.6	36.4	–	DST-□F□M-282835DS14X25	
38	6	35	12	28	37.1	35.9	34.6	36.4	–	DST-□FRM-282835DS14X30	
38	6	35	12	28	37.1	35.9	34.6	36.4	–	DST-□FRM-282835DS14X40.6	
38	6	35	12	28	37.1	35.9	34.6	36.4	–	DST-□FRM-282835DS14X70	New
38	6	35	12	28	34.7	33.5	32.3	34.0	40.0	DST-□FRM-282835DS16X5	New
38	6	35	12	28	34.7	33.5	32.3	34.0	40.0	DST-□FRM-282835DS16X10	New
38	6	35	12	28	34.7	33.5	32.3	34.0	40.0	DST-□FRM-282835DS16X35	
38	6	35	12	28	34.7	33.5	32.3	34.0	36.8	DST-□FRM-282835DS18X4	New
38	6	35	12	28	31.9	30.8	29.7	31.2	36.8	DST-□F□M-282835DS18X24	
38	6	35	12	28	31.9	30.8	29.7	31.2	36.8	DST-□F□M-282835DS18X40	
38	6	35	12	28	31.9	30.8	29.7	31.2	36.8	DST-□F□M-282835DS18X80	
38	6	35	12	28	31.9	30.8	29.7	31.2	36.8	DST-□F□M-282835DS18X100	
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□FRM-323244DS20X5	New
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□FRM-323244DS20X10	New
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□F□M-323244DS20X20	
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□F□M-323244DS20X50	
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□F□M-323244DS20X60	
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□F□M-323244DS20X80	
45	7	44	12	32	49.2	47.6	45.9	48.2	56.8	DST-□F□M-323244DS20X90	

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

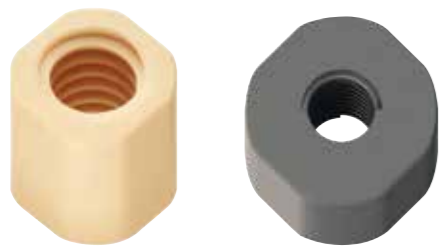
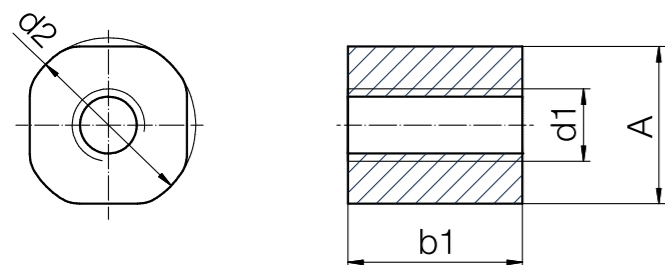


Image exemplary



Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	E7
Ds4x2.4	●	–	53	2.4	132	26
Ds5x5	●	–	53	5	133	27
Ds5x10	●	–	40	10	100	20
Ds6.35x1	●	–	110	1	276	55
Ds6.35x2.54	●	●	159	2.54	397	79
Ds6.35x5.08	●	–	125	5.08	312	62
Ds6.35x6.35	●	–	96	6.35	240	48
Ds6.35x12.7	●	–	64	12.7	159	32
Ds6.35x25.4	●	–	70	25.4	174	35
Ds8x8	●	–	240	8	601	120
Ds8x10	●	●	203	10	507	101
Ds8x15	●	●	203	15	507	101
Ds8x24	●	–	173	24	430	86
Ds8x40	●	–	95	40	238	48
Ds10x2	●	●	299	2	1,196	149
Ds10x3	●	●	402	3	1,608	201
Ds10x12	●	●	274	12	686	137
Ds10x25	●	●	249	25	623	125
Ds10x50	●	●	144	50	361	72
Ds12x3	●	–	439	3	1,756	220
Ds12x5	●	–	407	5	1,629	204
Ds12.7x12.7	●	–	428	12.7	1,069	214
Ds12x15	●	–	400	15	998	200
Ds12x25	●	●	399	25	1,069	200
Ds14x4	●	–	476	4	1,905	238

Order key

Type d2 b1 Thread

DST- S M- C -01-DS 10X12

dryspin® technology	igidur® material	Form S	Direction of rotation	Metric	Thread: cut	Type	Thread type	Diameter [mm]	Pitch
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Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard 24hrs
E7	For high speeds and low loads	Optional

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g] iglidur®		Part No.
				J	E7	
4	12	11.0	12	1.80	1.27	DST- <input type="checkbox"/> SRM-C-01-DS4X2.4
5	12	11.0	12	1.67	1.18	DST- <input type="checkbox"/> SRM-C-01-DS5X5
5	12	11.0	12	1.67	1.18	DST- <input type="checkbox"/> SRM-C-01-DS5X10 New
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> SRM-C-01-DS6.35X1 New
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS6.35X2.54
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> SRM-C-01-DS6.35X5.08
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> SRM-C-01-DS6.35X6.35 New
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> SRM-C-01-DS6.35X12.7
6.35	12	11.0	12	1.46	1.03	DST- <input type="checkbox"/> SRM-C-01-DS6.35X25.4
8	20	18.0	20	7.86	5.54	DST- <input type="checkbox"/> SRM-C-01-DS8X8 New
8	20	18.0	20	7.86	5.54	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS8X10
8	20	18.0	20	7.86	5.54	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS8X15
8	20	18.0	20	7.86	5.54	DST- <input type="checkbox"/> SRM-C-01-DS8X24
8	20	18.0	20	7.86	5.54	DST- <input type="checkbox"/> SRM-C-01-DS8X40 New
10	20	18.0	20	7.02	4.95	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS10X2 New
10	20	18.0	20	7.02	4.95	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS10X3 New
10	20	18.0	20	7.02	4.95	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS10X12
10	20	18.0	20	7.02	4.95	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS10X25
10	20	18.0	20	7.02	4.95	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS10X50
12	24	22.6	25	12.64	8.91	DST- <input type="checkbox"/> SRM-C-01-DS12X3 New
12	24	22.6	25	12.64	8.91	DST- <input type="checkbox"/> SRM-C-01-DS12X5
12.7	24	22.6	25	12.13	8.55	DST- <input type="checkbox"/> SRM-C-01-DS12.7X12.7
12	24	22.6	25	12.64	8.91	DST- <input type="checkbox"/> SRM-C-01-DS12X15
12	26	22.6	25	12.64	8.91	DST- <input type="checkbox"/> S <input type="checkbox"/> M-C-01-DS12X25 New
14	24	22.6	25	11.00	12.12	DST- <input type="checkbox"/> SRM-C-01-DS14X4 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Technical data

Thread	Direction of rotation		Effective supporting surface [mm ²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	E7
Ds14x25	●	●	408	25	1,019	204
Ds14x30	●	–	408	30	1,019	204
Ds14x40.6	●	–	398	40.6	995	199
Ds14x70	●	–	218	70	544	109
Ds16x5	●	–	517	5	2,068	–
Ds16x10	●	–	481	10	1,926	–
Ds16x35	●	–	477	35	1.192	–
Ds18x4	●	–	635	4	2,541	–
Ds18x24	●	●	582	24	1,456	–
Ds18x40	●	●	546	40	1,365	–
Ds18x80	●	●	377	80	942	–
Ds18x100	●	●	331	100	827	–
Ds20x5	●	–	1.062	5	4,246	–
Ds20x10	●	–	994	10	3.976	–
Ds20x20	●	●	984	20	2,460	–
Ds20x50	●	–	790	50	1,976	–
Ds20x60	●	●	663	60	1,657	–
Ds20x80	●	●	682	80	1,704	–
Ds20x90	●	●	663	90	1,657	–

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g] iglidur®		Part No.
				J	E7	
14	24	22.6	25	11.12	12.12	DST-□S□M-C-01-DS14X25
14	24	22.6	25	11.12	12.12	DST-□SRM-C-01-DS14X30
14	28	22.6	25	17.20	12.12	DST-□SRM-C-01-DS14X40.6 New
14	28	22.6	25	17.20	12.12	DST-□SRM-C-01-DS14X70 New
16	28	26.2	25	15.00	–	DST-JSRM-C-01-DS16X5 New
16	28	26.2	25	15.45	–	DST-JSRM-C-01-DS16X10 New
16	28	26.2	25	15.45	–	DST-JSRM-C-01-DS16X35
18	28	26.2	25	13.00	–	DST-JSRM-C-01-DS18X4 New
18	28	26.2	25	13.46	–	DST-JS□M-C-01-DS18X24
18	28	26.2	25	13.46	–	DST-JS□M-C-01-DS18X40
18	28	26.2	25	13.46	–	DST-JS□M-C-01-DS18X80 New
18	28	26.2	25	13.46	–	DST-JS□M-C-01-DS18X100 New
20	32	26.2	40	47.53	–	DST-JSRM-C-01-DS20X5 New
20	32	29.0	40	47.53	–	DST-JSRM-C-01-DS20X10 New
20	32	29.0	40	47.54	–	DST-JS□M-C-01-DS20X20 New
20	32	29.0	40	47.54	–	DST-JSRM-C-01-DS20X50 New
20	32	29.0	40	47.54	–	DST-JS□M-C-01-DS20X60 New
20	32	29.0	40	47.54	–	DST-JS□M-C-01-DS20X80 New
20	32	29.0	40	47.54	–	DST-JS□M-C-01-DS20X90 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

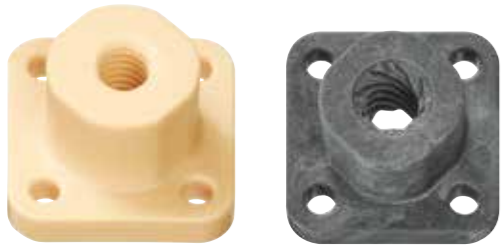
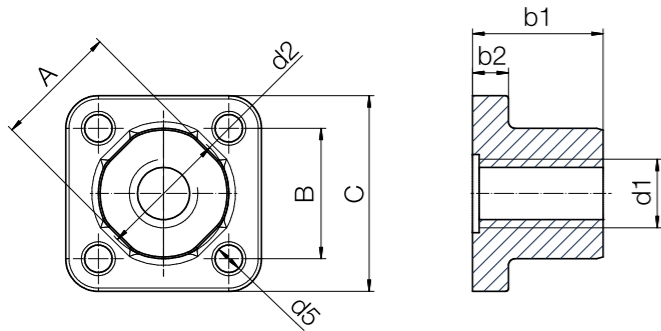


Image exemplary



Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	E7
Ds5x5	●	–	53	5	133	27
Ds5x10	●	–	40	10	100	20
Ds6.35x1	●	–	110	1	276	55
Ds6.35x2.54	●	●	159	2.54	397	79
Ds6.35x5.08	●	–	125	5.08	312	62
Ds6.35x6.35	●	–	96	6.35	240	48
Ds6.35x12.7	●	–	64	12.7	159	32
Ds6.35x25.4	●	–	70	25.4	174	35
Ds8x8	●	–	240	8	601	120
Ds8x10	●	●	203	10	507	101
Ds8x15	●	●	203	15	507	101
Ds8x24	●	–	172	24	430	86
Ds8x40	●	●	95	40	238	48
Ds10x2	●	●	299	2	1,196	149
Ds10x3	●	●	402	3	1,608	201
Ds10x12	●	●	274	12	686	137
Ds10x25	●	●	249	25	623	125
Ds10x50	●	●	144	50	361	72
Ds12x3	●	–	439	3	1,756	220
Ds12x5	●	–	407	5	1,629	204
Ds12.7x12.7	●	–	428	12.7	1,069	214

Order key

Type	d2	b1	Thread
DST-□ F □ M- C -01-DS 10X12			
dryspin® technology	igidur® material	Form F	Direction of rotation
			Metric
			Thread: cut
			Type
			Thread type
			Diameter [mm]
			Pitch
Options:			
Direction of rotation			
R: Right-hand thread			
L: Left-hand thread			
	J	High efficiency at all speeds	
	E7	For high speeds and low loads	
		Standard 24hrs	
		Optional	

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	B	C	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®		Part No.
								J	E7	
5.0	12	11.0	12	18	3.2	12	4.0	2,28	1.61	DST-□FRM-C-01-DS5X5
5.0	12	11.0	12	18	3.2	12	4.0	2,28	1.61	DST-□FRM-C-01-DS5X10 New
6.35	12	11.0	18	12	3.2	12	4.0	2.07	1.46	DST-□FRM-C-01-DS6.35X1 New
6.35	12	11.0	12	18	3.2	12	4.0	2.07	1.46	DST-□F□M-C-01-DS6.35X2.54
6.35	12	11.0	12	18	3.2	12	4.0	2.07	1.46	DST-□FRM-C-01-DS6.35X5.08
6.35	12	11.0	12	18	3.2	12	4.0	2.07	1.46	DST-□FRM-C-01-DS6.35X6.35 New
6.35	12	11.0	12	18	3.2	12	4.0	2.07	1.46	DST-□FRM-C-01-DS6.35X12.7
6.35	12	11.0	12	18	3.2	12	4.0	2.07	1.46	DST-□FRM-C-01-DS6.35X25.4
8	20	19.0	20	30	4.2	20	5.5	10.21	7.19	DST-□FRM-C-01-DS8X8 New
8	20	19.0	20	30	4.2	20	5.5	8.24	7.19	DST-□F□M-C-01-DS8X10
8	20	19.0	20	30	4.2	20	5.5	8.24	7.19	DST-□FRM-C-01-DS8X15
8	20	19.0	20	30	4.2	20	5.5	8.24	7.19	DST-□FRM-C-01-DS8X24
8	20	19.0	20	30	4.2	20	5.5	8.24	7.19	DST-□F□M-C-01-DS8X40 New
10	20	19.0	20	30	4.2	20	5.5	9.36	6.60	DST-□F□M-C-01-DS10X2 New
10	20	19.0	20	30	4.2	20	5.5	9.36	6.60	DST-□F□M-C-01-DS10X3 New
10	20	19.0	20	30	4.2	20	5.5	9.36	6.60	DST-□F□M-C-01-DS10X12
10	20	19.0	20	30	4.2	20	5.5	9.36	6.60	DST-□F□M-C-01-DS10X25
10	20	19.0	20	30	4.2	20	5.5	9.36	6.60	DST-□F□M-C-01-DS10X50
12	24	22.6	24	34	5.0	25	6.0	15.89	11.20	DST-□FRM-C-01-DS12X3 New
12	24	22.6	24	34	5.0	25	6.0	15.89	11.20	DST-□FRM-C-01-DS12X5
12	24	22.6	24	34	5.0	25	6.0	15.89	11.20	DST-□FRM-C-01-DS12.7X12.7

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

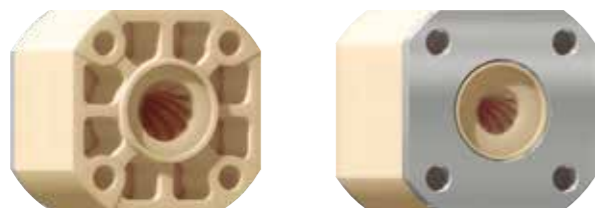
Technical data

Thread	Direction of rotation		Effective supporting surface [mm ²]	Pitch P [mm]	Max. stat. axial F [N]	
	Right	Left			iglidur®	
					J	E7
Ds12x15	●	●	400	15	1,001	200
Ds12x25	●	–	399	25	998	200
Ds14x4	●	–	476	4	1,905	238
Ds14x25	●	●	408	25	1,019	109
Ds14x30	●	–	408	30	1,019	204
Ds14x40.6	●	–	398	40.6	995	199
Ds14x70	●	–	218	70	544	109
Ds16x5	●	–	517	5	2,068	–
Ds16x10	●	–	481	10	1,926	–
Ds16x35	●	–	477	35	1.192	–
Ds18x4	●	–	635	4	2,541	–
Ds18x24	●	●	582	24	1,456	–
Ds18x40	●	●	546	40	1,365	–
Ds18x80	●	●	377	80	942	–
Ds18x100	●	●	331	100	827	–
Ds20x5	●	–	664	5	2,654	–
Ds20x10	●	–	615	10	2,460	–
Ds20x20	●	–	615	20	1,538	–
Ds20x50	●	●	494	50	1,235	–
Ds20x60	●	●	414	60	1,035	–
Ds20x80	●	●	426	80	1,065	–
Ds20x90	●	●	414	90	1,035	–

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	B	C	d5	b1 ¹⁵⁶⁾	b2	Weight [g]		Part No.	
								iglidur®			
								J	E7		
12	24	22.6	24	34	5.0	25	6.0	15.89	11.20	DST-□F□M-C-01-DS12X15	
12	24	22.6	24	34	5.0	25	6.0	15.89	11.20	DST-□FRM-C-01-DS12X25	New
14	24	22.6	24	34	5.0	25	6.0	14.37	10.13	DST-□FRM-C-01-DS14X4	New
14	24	22.6	24	34	5.0	25	6.0	14.37	10.13	DST-□F□M-C-01-DS14X25	
14	24	22.6	24	34	5.0	25	6.0	14.37	10.13	DST-□FRM-C-01-DS14X30	
14	24	22.6	24	34	5.0	25	6.0	14.37	10.13	DST-□FRM-C-01-DS14X40.6	New
14	24	22.6	24	34	5.0	25	6.0	14.37	10.13	DST-□FRM-C-01-DS14X70	New
16	28	25.5	27	38	6.0	25	6.5	19.42	–	DST-JFRM-C-01-DS16X5	New
16	28	25.5	27	38	6.0	25	6.5	27.15	–	DST-JFRM-C-01-DS16X10	New
16	28	25.5	27	38	6.0	25	6.5	37.01	–	DST-JFRM-C-01-DS16X35	
18	28	25.5	27	38	6.0	25	6.5	47.01	–	DST-JFRM-C-01-DS18X4	New
18	28	25.5	27	38	6.0	25	6.5	61.13	–	DST-JF□M-C-01-DS18X24	
18	28	25.5	27	38	6.0	25	6.5	77.38	–	DST-JF□M-C-01-DS18X40	
18	28	25.5	27	38	6.0	25	6.5	95.76	–	DST-JF□M-C-01-DS18X80	New
18	28	25.5	27	38	6.0	25	6.5	116.28	–	DST-JF□M-C-01-DS18X100	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JFRM-C-01-DS20X5	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JFRM-C-01-DS20X10	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JFRM-C-01-DS20X20	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JF□M-C-01-DS20X50	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JF□M-C-01-DS20X60	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JF□M-C-01-DS20X80	New
20	32	29.0	30	42	6.0	25	8.0	23.69	–	DST-JF□M-C-01-DS20X90	New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Robust and with conventional connection sizes

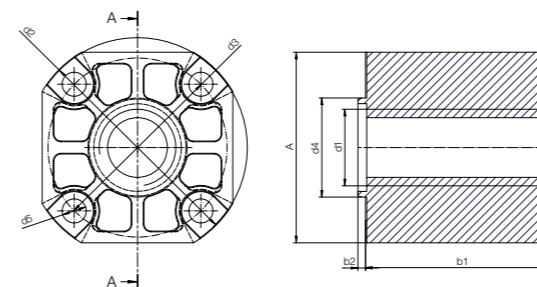
The new type of the DST-JGRM series with optimised injection-moulded design is the robust alternative to a flange lead screw nut. It is characterised by connection sizes and pitches that are identical to those of standard ball screw nuts. The special design enables easy installation and is especially suitable for radial loads. Also available as "heavy duty" version with stainless steel plate

- Connecting dimensions and pitches identical to conventional ball screws
- Lubrication- and maintenance-free with high-performance polymers iglidur® J
- Cost-effective through plastic injection moulding
- Robust and strong design
- Available in 2 installation sizes for threads in Ø 14/16 and 18/20
- Heavy-duty version with 30% higher max. static axial loads

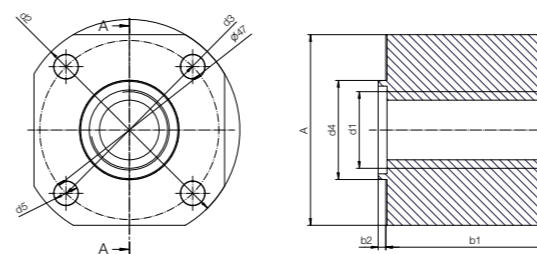
i Injection moulded lead screw nut blank incl. machined cut thread

You can find more information at:

► www.igus.eu/ball-crews-vs-dryspin



Design C-01



Design HD-02

Order key

Type	Option	Thread
DST- J G R M- □ -DS 14X25		
dryspin® technology	igidur® material	Lead screw drive
	Direction of rotation	Metric
	Design	Thread type
		Diameter [mm]
		Pitch

Options:

C-01 : Standard

HD-02 : Heavy duty

Technical data and dimensions [mm]

Thread	d1	d2	d3	d4	d5	b1		b2	A □
						Form	Form		
d1 x P						□ C-01	□ HD-02		
Ds14x25	14	48	38	20	5.3	45	42	2	40
Ds14x30	14	48	38	20	5.3	45	42	2	40
Ds14x70	14	48	38	20	5.3	45	42	2	40
Ds16x5	16	48	38	20	5.3	45	42	2	40
Ds16x10	16	48	38	20	5.3	45	42	2	40
Ds16x35	16	48	38	20	5.3	45	42	2	40
Ds18x24	18	58	47	26	6.3	50	46	2	50
Ds18x40	18	58	47	26	6.3	50	46	2	50
Ds18x80	18	58	47	26	6.3	50	46	2	50
Ds18x100	18	58	47	26	6.3	50	46	2	50
Ds20x5	20	58	47	26	6.3	50	46	2	50
Ds20x10	20	58	47	26	6.3	50	46	2	50
Ds20x20	20	58	47	26	6.3	50	46	2	50
Ds20x50	20	58	47	26	6.3	50	46	2	50
Ds20x60	20	58	47	26	6.3	50	46	2	50
Ds20x80	20	58	47	26	6.3	50	46	2	50
Ds20x90	20	58	47	26	6.3	50	46	2	50

□ = C-01/HD-02

Order example: DST-JGRM-C-01-DS14x25: C-01 lead screw nut made of iglidur® J, with 14x25 right-hand thread

Effective support surface [mm²]	Max. static load axial [N]		Part No.
	□ C-01	□ HD-02	
734	685	2,936	DST-JGRM-□-DS14X25 New
734	685	2,936	DST-JGRM-□-DS14X30 New
392	366	1,567	DST-JGRM-□-DS14X70 New
867	809	3,466	DST-JGRM-□-DS16X5 New
867	809	3,466	DST-JGRM-□-DS16X10 New
858	801	3,434	DST-JGRM-□-DS16X35 New
1,179	1,085	4,716	DST-JGRM-□-DS18X24 New
1,092	1,005	4,368	DST-JGRM-□-DS18X40 New
754	694	3,016	DST-JGRM-□-DS18X80 New
662	609	2,646	DST-JGRM-□-DS18X100 New
1,255	1,154	5,019	DST-JGRM-□-DS20X5 New
1,255	1,154	5,019	DST-JGRM-□-DS20X10 New
1,230	1,132	4,921	DST-JGRM-□-DS20X20 New
1,008	927	4,031	DST-JGRM-□-DS20X50 New
828	762	3,313	DST-JGRM-□-DS20X60 New
852	784	3,408	DST-JGRM-□-DS20X80 New
828	762	3,313	DST-JGRM-□-DS20X90 New



Highly efficient at all speeds: iglidur® J



Highly resilient and wear-resistant: iglidur® W300



For temperatures up to +150°C: iglidur® J350



For medium to high speeds: iglidur® R

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
	η	μ		η
Single start				
Tr8x1.5	19 - 37	0.1 - 0.25	19 - 33	0.12 - 0.25
Tr10x2	20 - 39	0.1 - 0.25	20 - 34	0.12 - 0.25
Tr10x3	27 - 48	0.1 - 0.25	27 - 44	0.12 - 0.25
Tr12x3	24 - 44	0.1 - 0.25	24 - 39	0.12 - 0.25
Tr14x3	24 - 40	0.1 - 0.25	21 - 36	0.12 - 0.25
Tr14x4	26 - 47	0.1 - 0.25	26 - 43	0.12 - 0.25
Tr16x2	14 - 28	0.1 - 0.25	14 - 25	0.12 - 0.25
Tr16x4	24 - 44	0.1 - 0.25	24 - 39	0.12 - 0.25
Tr18x4	22 - 41	0.1 - 0.25	22 - 37	0.12 - 0.25
Tr20x4	20 - 39	0.1 - 0.25	20 - 34	0.12 - 0.25
Tr24x5	21 - 40	0.1 - 0.25	21 - 35	0.12 - 0.25
Tr26x5	19 - 38	0.1 - 0.25	19 - 34	0.12 - 0.25
Tr28x5	18 - 36	0.1 - 0.25	18 - 32	0.12 - 0.25
Tr30x6	20 - 39	0.1 - 0.25	20 - 34	0.12 - 0.25
Tr32x6	19 - 37	0.1 - 0.25	19 - 33	0.12 - 0.25
Tr36x6	17 - 34	0.1 - 0.25	17 - 30	0.12 - 0.25
Tr40x7	18 - 36	0.1 - 0.25	18 - 31	0.12 - 0.25
Tr50x8	17 - 34	0.1 - 0.25	17 - 30	0.12 - 0.25
Multi start				
Tr06x2P1	29 - 51	0.1 - 0.25	29 - 46	0.12 - 0.25
Tr10x4P2	33 - 55	0.1 - 0.25	33 - 51	0.12 - 0.25
Tr12x6P3	37 - 60	0.1 - 0.25	37 - 56	0.12 - 0.25
Tr16x8P4	37 - 60	0.1 - 0.25	37 - 56	0.12 - 0.25
Tr18x8P4	35 - 58	0.1 - 0.25	35 - 53	0.12 - 0.25
Tr20x8P4	33 - 55	0.1 - 0.25	33 - 51	0.12 - 0.25
Metric				
M3	17 - 34	0.1 - 0.25	17 - 30	0.12 - 0.25
M4	18 - 36	0.1 - 0.25	18 - 31	0.12 - 0.25
M5	17 - 34	0.1 - 0.25	17 - 30	0.12 - 0.25
M6	17 - 34	0.1 - 0.25	17 - 30	0.12 - 0.25
M8	16 - 33	0.1 - 0.25	16 - 29	0.12 - 0.25
M10	16 - 32	0.1 - 0.25	16 - 28	0.12 - 0.25

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
	η	μ		η
Single start				
Tr8x1.5	19 - 26	0.17 - 0.25	16 - 23	0.2 - 0.3
Tr10x2	20 - 27	0.17 - 0.25	17 - 24	0.2 - 0.3
Tr10x3	27 - 35	0.17 - 0.25	23 - 32	0.2 - 0.3
Tr12x3	24 - 34	0.17 - 0.25	20 - 28	0.2 - 0.3
Tr14x3	21 - 28	0.17 - 0.25	18 - 25	0.2 - 0.3
Tr14x4	26 - 34	0.17 - 0.25	23 - 31	0.2 - 0.3
Tr16x2	14 - 19	0.17 - 0.25	12 - 16	0.2 - 0.3
Tr16x4	24 - 31	0.17 - 0.25	20 - 28	0.2 - 0.3
Tr18x4	22 - 29	0.17 - 0.25	19 - 26	0.2 - 0.3
Tr20x4	20 - 27	0.17 - 0.25	17 - 24	0.2 - 0.3
Tr24x5	21 - 28	0.17 - 0.25	18 - 25	0.2 - 0.3
Tr26x5	19 - 26	0.17 - 0.25	17 - 23	0.2 - 0.3
Tr28x5	18 - 25	0.17 - 0.25	16 - 22	0.2 - 0.3
Tr30x6	20 - 27	0.17 - 0.25	17 - 24	0.2 - 0.3
Tr32x6	19 - 26	0.17 - 0.25	16 - 23	0.2 - 0.3
Tr36x6	17 - 24	0.17 - 0.25	-	-
Tr40x7	18 - 24	0.17 - 0.25	-	-
Tr50x8	-	-	-	-
Multi start				
Tr06x2P1	29 - 38	0.17 - 0.25	25 - 34	0.2 - 0.3
Tr10x4P2	33 - 42	0.17 - 0.25	29 - 38	0.2 - 0.3
Tr12x6P3	37 - 47	0.17 - 0.25	33 - 43	0.2 - 0.3
Tr16x8P4	37 - 47	0.17 - 0.25	33 - 43	0.2 - 0.3
Tr18x8P4	35 - 44	0.17 - 0.25	31 - 40	0.2 - 0.3
Tr20x8P4	33 - 42	0.17 - 0.25	29 - 38	0.2 - 0.3
Metric				
M3	17 - 24	0.17 - 0.25	15 - 21	0.2 - 0.3
M4	18 - 24	0.17 - 0.25	15 - 22	0.2 - 0.3
M5	17 - 23	0.17 - 0.25	14 - 20	0.2 - 0.3
M6	17 - 24	0.17 - 0.25	15 - 21	0.2 - 0.3
M8	16 - 22	0.17 - 0.25	14 - 20	0.17 - 0.25
M10	16 - 22	0.17 - 0.25	14 - 19	0.17 - 0.25



FDA-compliant for the food/
pharmaceutical industry:
iglidur® A180



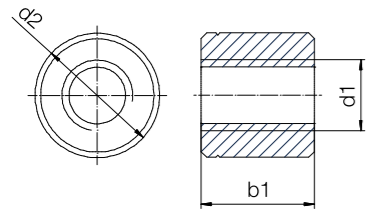
For high speeds:
iglidur® E7

Thread	Efficiency η	Coefficient of friction μ	Efficiency η	Coefficient of friction μ
Single start				
Tr8x1.5	19 - 28	0.15 - 0.25	16 - 23	0.2 - 0.3
Tr10x2	20 - 30	0.15 - 0.25	17 - 24	0.2 - 0.3
Tr10x3	27 - 38	0.15 - 0.25	23 - 32	0.2 - 0.3
Tr12x3	24 - 44	0.15 - 0.25	20 - 28	0.2 - 0.3
Tr14x3	21 - 31	0.15 - 0.25	18 - 25	0.2 - 0.3
Tr14x4	26 - 47	0.15 - 0.25	23 - 31	0.2 - 0.3
Tr16x2	14 - 21	0.15 - 0.25	-	-
Tr16x4	24 - 34	0.15 - 0.25	-	-
Tr18x4	22 - 32	0.15 - 0.25	-	-
Tr20x4	20 - 30	0.15 - 0.25	-	-
Tr24x5	21 - 30	0.15 - 0.25	-	-
Tr26x5	19 - 29	0.15 - 0.25	-	-
Tr28x5	18 - 27	0.15 - 0.25	-	-
Tr30x6	20 - 30	0.15 - 0.25	-	-
Tr32x6	19 - 28	0.15 - 0.25	-	-
Tr36x6	17 - 26	0.15 - 0.25	-	-
Tr40x7	18 - 27	0.15 - 0.25	-	-
Tr50x8	-	-	-	-
Multi start				
Tr06x2P1	29 - 41	0.15 - 0.25	25 - 34	0.2 - 0.3
Tr10x4P2	33 - 45	0.15 - 0.25	29 - 38	0.2 - 0.3
Tr12x6P3	37 - 50	0.15 - 0.25	33 - 43	0.2 - 0.3
Tr16x8P4	37 - 50	0.15 - 0.25	-	-
Tr18x8P4	35 - 48	0.15 - 0.25	-	-
Tr20x8P4	33 - 45	0.15 - 0.25	-	-
Metric				
M3	17 - 26	0.15 - 0.25	15 - 21	0.2 - 0.3
M4	18 - 27	0.15 - 0.25	15 - 22	0.2 - 0.3
M5	17 - 25	0.15 - 0.25	14 - 20	0.2 - 0.3
M6	17 - 26	0.15 - 0.25	15 - 21	0.2 - 0.3
M8	16 - 25	0.15 - 0.25	14 - 20	0.2 - 0.3
M10	16 - 24	0.15 - 0.25	14 - 19	0.2 - 0.3



The specialist on hard anodised
aluminium:
iglidur® J200

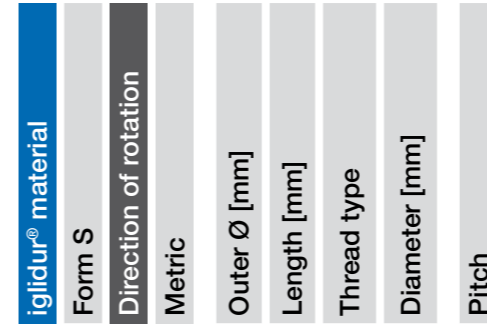
Thread	Efficiency η	Coefficient of friction μ
Single start		
Tr8x1.5	-	-
Tr10x2	-	-
Tr10x3	-	-
Tr12x3	-	-
Tr14x3	-	-
Tr14x4	-	-
Tr16x2	-	-
Tr16x4	24 - 44	0.1 - 0.25
Tr18x4	22 - 41	0.1 - 0.25
Tr20x4	20 - 39	0.1 - 0.25
Tr24x5	21 - 40	0.1 - 0.25
Tr26x5	19 - 38	0.1 - 0.25
Tr28x5	18 - 36	0.1 - 0.25
Tr30x6	20 - 39	0.1 - 0.25
Tr32x6	19 - 37	0.1 - 0.25
Tr36x6	17 - 34	0.1 - 0.25
Tr40x7	18 - 36	0.1 - 0.25
Tr50x8	17 - 34	0.1 - 0.25
Multi start		
Tr06x2P1	29 - 51	0.1 - 0.25
Tr10x4P2	33 - 55	0.1 - 0.25
Tr12x6P3	37 - 60	0.1 - 0.25
Tr16x8P4	37 - 60	0.1 - 0.25
Tr18x8P4	35 - 58	0.1 - 0.25
Tr20x8P4	33 - 55	0.1 - 0.25
Metric		
M3	17 - 34	0.1 - 0.25
M4	18 - 36	0.1 - 0.25
M5	17 - 34	0.1 - 0.25
M6	17 - 34	0.1 - 0.25
M8	16 - 33	0.1 - 0.25
M10	-	-



Order key

Type d2 b1 Thread

S R M-2215TR10X2



Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

Material	Options	Availability
J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

Technical data

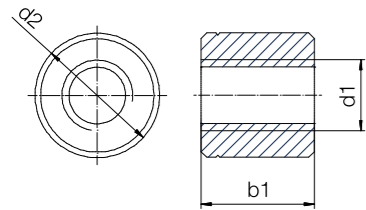
Thread	Direction of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]				
	Right	Left		igidur®				
				J	W300	J350	R	A180
Tr8x1.5	●	●	205	500 ⁴³⁾	500 ⁴³⁾	500 ⁴³⁾	500 ⁴³⁾	500 ⁴³⁾
Tr8x1.5	●	●	137	547	683	410	273	478
Tr10x2	●	●	212	848	1,060	636	424	742
Tr10x2	●	●	283	1,131	1,414	848	565	990
Tr10x3	●	●	200	801	1,001	601	401	701
Tr10x3	●	●	267	1,068	1,335	801	534	935
Tr12x3	●	●	297	1,188	1,484	891	594	1,039
Tr12x3	●	●	396	1,583	1,979	1,188	792	1,385
Tr14x3	●	●	550	2,199	2,749	1,649	1,100	1,924
Tr14x4	●	●	396	1,583	1,979	1,188	792	1,385
Tr14x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x2	●	●	565	2,262	2,827	1,696	1,131	1,979
Tr16x2	●	●	754	3,016	3,770	2,262	1,508	2,639
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x4	●	●	704	2,815	3,519	2,111	1,407	2,463
Tr18x4	●	●	679	2,362 ⁴³⁾	2,362 ⁴³⁾	2,362 ⁴³⁾	2,362 ⁴³⁾	2,362 ⁴³⁾
Tr18x4	●	●	679	2,714	3,393	2,036	1,357	2,375
Tr18x4	●	●	905	3,619	4,524	2,714	1,810	3,167

⁴³⁾ Reduced axial load due to nut geometry

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g]					Part No.
			igidur®					
			J	W300	J350	R	A180	
8	14	18	2.8	2.9	2.7	2.6	2.7	<input type="checkbox"/> S <input type="checkbox"/> M-1418TR8X1.5
8	18	12	3.7	3.8	3.5	3.4	3.6	<input type="checkbox"/> S <input type="checkbox"/> M-1812TR8X1.5
10	22	15	6.7	7.0	6.5	6.3	6.6	<input type="checkbox"/> S <input type="checkbox"/> M-2215TR10X2
10	22	20	9.0	9.3	8.7	8.4	8.8	<input type="checkbox"/> S <input type="checkbox"/> M-2220TR10X2
10	22	15	6.7	7.0	6.5	6.3	6.6	<input type="checkbox"/> S <input type="checkbox"/> M-2215TR10X3
10	22	20	9.0	9.3	8.7	8.4	8.8	<input type="checkbox"/> S <input type="checkbox"/> M-2220TR10X3
12	26	18	11.2	11.6	10.8	10.5	11.0	<input type="checkbox"/> S <input type="checkbox"/> M-2618TR12X3
12	26	24	14.9	15.4	14.4	13.9	14.6	<input type="checkbox"/> S <input type="checkbox"/> M-2624TR12X3
14	30	28	23.1	23.8	22.3	21.5	22.6	<input type="checkbox"/> S <input type="checkbox"/> M-3028TR14X3
14	30	21	17.3	17.9	16.7	16.1	17.0	<input type="checkbox"/> S <input type="checkbox"/> M-3021TR14X4
14	30	28	23.1	23.8	22.3	21.5	22.6	<input type="checkbox"/> S <input type="checkbox"/> M-3028TR14X4
16	36	24	29.2	30.1	28.2	27.2	28.6	<input type="checkbox"/> S <input type="checkbox"/> M-3624TR16X2
16	36	32	38.9	40.2	37.6	36.3	38.2	<input type="checkbox"/> S <input type="checkbox"/> M-3632TR16X2
16	30	24	18.1	18.7	17.5	16.9	17.7	<input type="checkbox"/> S <input type="checkbox"/> M-3024TR16X4
16	36	24	29.2	30.1	28.2	27.2	28.6	<input type="checkbox"/> S <input type="checkbox"/> M-3624TR16X4
16	36	32	38.9	40.2	37.6	36.3	38.2	<input type="checkbox"/> S <input type="checkbox"/> M-3632TR16X4
18	30	27	18.2	18.8	17.6	17.0	17.8	<input type="checkbox"/> S <input type="checkbox"/> M-3027TR18X4
18	40	27	40.3	41.6	39.0	37.6	39.5	<input type="checkbox"/> S <input type="checkbox"/> M-4027TR18X4
18	40	36	53.8	55.5	52.0	50.1	52.7	<input type="checkbox"/> S <input type="checkbox"/> M-4036TR18X4

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type	d2	b1	Thread
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S R M-30 25 TR 20X4

iglidur® material	Form S	Direction of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch
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Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

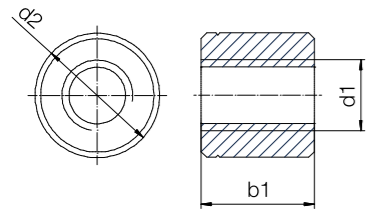
Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]				
	Right	Left		iglidur®				
				J	W300	J350	R	A180
Tr20x4	●	●	707	2,827	3,534	2,121	1,414	2,474
Tr20x4	●	●	848	3,393	4,241	2,545	1,696	2,969
Tr20x4	●	●	1,131	4,524	5,655	3,393	2,262	3,958
Tr24x5	●	●	1,216	4,863	6,079	3,647	2,432	4,255
Tr24x5	●	●	1,621	6,484	8,105	4,863	3,242	5,674
Tr26x5	●	●	1,440	5,759	7,198	4,319	2,879	5,039
Tr26x5	●	●	1,920	7,678	9,598	5,759	3,839	6,718
Tr28x5	●	●	1,682	6,729	8,412	5,047	3,365	5,888
Tr28x5	●	●	2,243	8,972	11,215	6,729	4,486	7,851
Tr30x6	●	●	1,909	7,634	9,543	5,726	3,817	6,680
Tr30x6	●	●	2,545	10,179	12,723	7,634	5,089	8,906
Tr32x6	●	●	2,733	10,933	13,666	8,200	5,466	9,566
Tr36x6	●	●	3,732	14,929	18,661	-	-	13,063
Tr40x7	●	●	4,587	18,347	22,934	-	-	16,054
Tr50x8	●	●	7,226	28,903	-	-	-	-

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g]					Part No.
			iglidur®					
			J	W300	J350	R	A180	
20	30	25	14.6	15.1	14.1	13.6	14.3	<input type="checkbox"/> S <input type="checkbox"/> M-3025TR20X4
20	45	30	57.0	58.9	55.1	53.2	55.9	<input type="checkbox"/> S <input type="checkbox"/> M-4530TR20X4
20	45	40	76.1	78.5	73.5	71.0	74.5	<input type="checkbox"/> S <input type="checkbox"/> M-4540TR20X4
24	50	36	81.1	83.6	78.3	75.6	79.4	<input type="checkbox"/> S <input type="checkbox"/> M-5036TR24X5
24	50	48	108.1	111.5	104.4	100.8	105.9	<input type="checkbox"/> S <input type="checkbox"/> M-5048TR24X5
26	50	39	83.2	85.9	80.5	77.7	81.6	<input type="checkbox"/> S <input type="checkbox"/> M-5039TR26X5
26	50	52	111.0	114.5	107.3	103.5	108.8	<input type="checkbox"/> S <input type="checkbox"/> M-5052TR26X5
28	60	42	138.4	142.8	133.8	129.1	135.6	<input type="checkbox"/> S <input type="checkbox"/> M-6042TR28X5
28	60	56	184.5	190.4	178.3	172.2	180.8	<input type="checkbox"/> S <input type="checkbox"/> M-6056TR28X5
30	60	45	142.2	146.7	137.4	132.6	139.3	<input type="checkbox"/> S <input type="checkbox"/> M-6045TR30X6
30	60	60	189.6	195.6	183.2	176.9	185.8	<input type="checkbox"/> S <input type="checkbox"/> M-6060TR30X6
32	60	60	180.9	186.7	174.8	168.7	177.2	<input type="checkbox"/> S <input type="checkbox"/> M-6060TR32X6
36	75	72	364.8	376.4	-	-	357.4	<input type="checkbox"/> S <input type="checkbox"/> M-7572TR36X6
40	76	80	391.0	403.4	-	-	383.1	<input type="checkbox"/> S <input type="checkbox"/> M-7680TR40X7
50	90	100	655.3	-	-	-	-	<input type="checkbox"/> S <input type="checkbox"/> M-90100TR50X8

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type d2 b1 Thread

S R M-28 35 TR 12X6P3

iglidur® material	Form S
	Direction of rotation
	Metric
	Outer Ø [mm]
	Length [mm]
	Thread type
	Diameter [mm]
Pitch	

Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]				
	Right	Left		iglidur®				
				J	W300	J350	R	A180
Tr06x2P1	●	–	112	382	477	286	191	334
Tr10x4P2	●	●	283	961	1,202	721	481	841
Tr12x6P3	●	●	396	1,346	1,682	1,009	673	1,178
Tr16x8P4	●	●	528	1,794	2,243	1,346	897	1,570
Tr16x8P4	●	●	704	2,393	2,991	1,794	1,196	2,094
Tr18x8P4	●	–	905	3,076	3,845	2,307	1,538	2,692
Tr20x8P4	●	–	1,131	3,845	4,807	2,884	1,923	3,365

Reduced axial load compared to single start threads due to nut geometry.

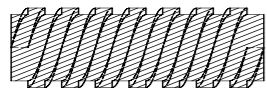
Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g]					Part No.
			iglidur®					
			J	W300	J350	R	A180	
6	14	13	2.4	2.5	2.4	2.3	2.4	<input type="checkbox"/> SRM-1413TR06X2P1
10	26	24	14.9	12.4	14.4	13.9	14.6	<input type="checkbox"/> SM-2624TR10X4P2
12	30	24	21.2	17.7	20.5	19.8	20.8	<input type="checkbox"/> SM-3024TR12X6P3
16	30	24	18.1	15.1	17.5	16.9	17.7	<input type="checkbox"/> SM-3024TR16X8P4
16	36	32	38.9	32.4	37.6	36.3	38.2	<input type="checkbox"/> SM-3632TR16X8P4
18	40	36	53.8	44.7	52.0	50.1	52.7	<input type="checkbox"/> SRM-4036TR18X8P4
20	45	40	76.1	63.3	73.5	71.0	74.5	<input type="checkbox"/> SRM-4540TR20X8P4

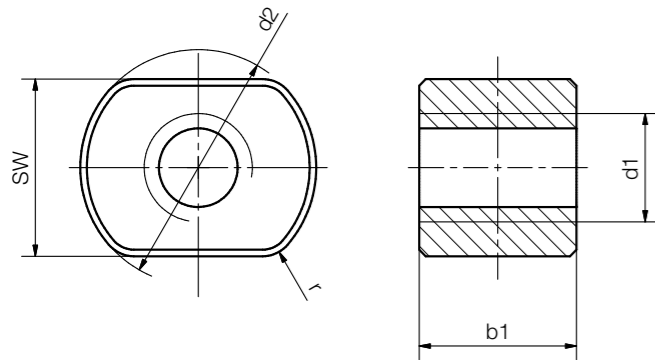
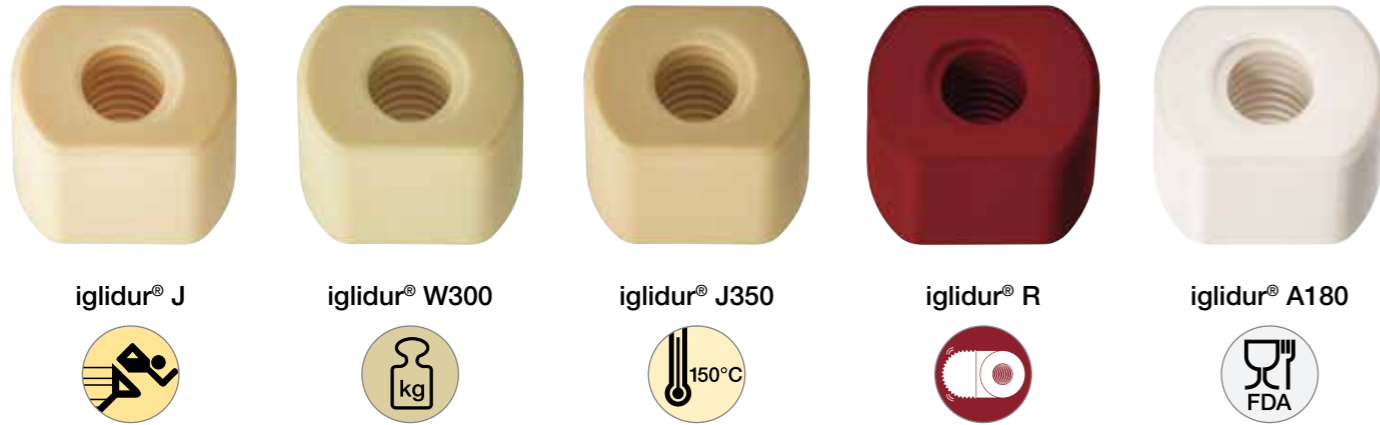
¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

i Definition: Multi start trapezoidal lead screw

Example 8P4 pitch



P4 pitch: Distance to the next thread pitch 4mm
Pitch 8: Pitch 8mm



Technical data

Thread	Direction of rotation		Effective support surface [mm²]	Pitch P [mm]	Max. stat. axial F [N]				
	Right	Left			igidur®				
Tr08x1.5	●	●	228	1.5	J	W300	J350	R	A180
Tr10x2	●	●	283	2	911	1,139	683	456	797
Tr10x3	●	●	267	3	1,131	1,414	848	565	990
Tr12x3	●	●	396	3	1,068	1,335	801	534	935
Tr16x2	●	●	528	2	1,583	1,979	1,188	792	1,385
Tr16x4	●	●	528	4	2,262	2,827	1,696	1,131	1,979
Tr18x4	●	●	603	4	2,111	2,639	1,583	1,056	1,847
Tr20x4	●	●	1,131	4	2,413	3,016	1,810	1,206	2,111
Tr24x5	●	●	1,621	5	4,524	5,655	3,393	2,262	3,958
Tr28x5	●	●	1,682	5	6,484	8,105	4,863	3,242	5,674
Tr30x6	●	●	2,545	6	6,729	8,412	5,047	3,365	5,888
					10,179	12,723	7,634	5,089	8,906

Order key

Type SW d2 b1 Thread

□ S R M-17 22 20 TR 10X2

igidur® material	Form S	Direction of rotation	Metric	Width across flats	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter [mm]	Pitch
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Options:

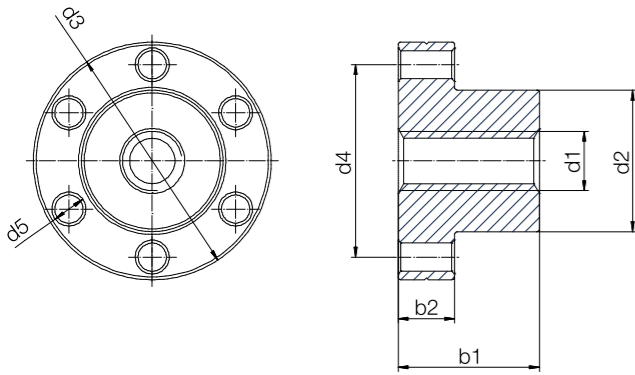
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	SW	Weight [g]					Part No.
				igidur®					
				J	W300	J350	R	A180	
8	22	20	17	8.9	7.4	8.6	8.3	8.7	□S□M-172220TR8X1.5 New
10	22	20	17	4.7	3.9	4.5	4.4	4.6	□S□M-172220TR10X2
10	22	20	17	8.4	7.0	8.1	7.8	8.2	□S□M-172220TR10X3 New
12	26	24	19	10.9	9.1	10.5	10.2	10.7	□S□M-192624TR12X3
16	36	24	27	27.0	22.5	26.1	25.2	26.4	□S□M-273624TR16X2 New
16	36	24	27	22.0	18.3	21.3	20.5	21.6	□S□M-273624TR16X4
18	36	24	27	27.0	22.5	26.1	25.2	26.4	□S□M-273624TR18X4 New
20	45	40	30	57.3	47.7	55.4	53.5	56.2	□S□M-304540TR20X4
24	50	48	36	75.7	63.0	73.2	70.6	74.2	□S□M-365048TR24X5
28	60	42	45	123.2	102.5	119.1	115.0	120.7	□S□M-456042TR28X5 New
30	60	60	45	126.4	105.2	123.8	122.1	117.9	□S□M-456060TR30X6

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type	d2	b1	Thread
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F R M-22 20 TR 10X2

iglidur® material	Form F	Direction of rotation	Metric	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter [mm]	Pitch
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Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard 24hrs
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional
J200	The specialist on hard anodised aluminium	Optional

Technical data

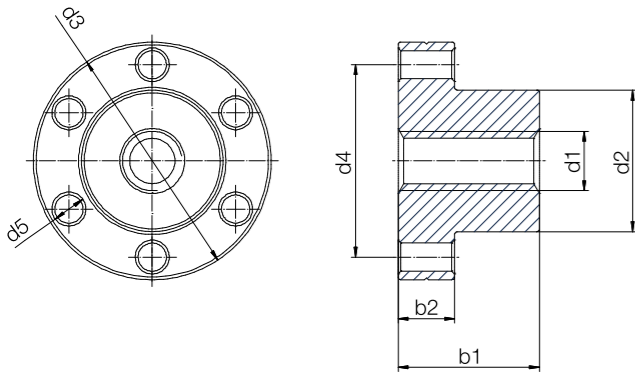
Thread	Direction of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur®					
	Right	Left		J	W300	J350	R	A180	J200
Tr8x1.5	●	●	228	911	1,139	683	456	797	-
Tr10x2	●	●	353	1,414	1,767	1,060	707	1,237	-
Tr10x3	●	●	334	1,335	1,669	1,001	668	1,168	-
Tr12x3	●	●	577	2,309	2,886	1,732	1,155	2,020	-
Tr14x3	●	●	687	2,749	3,436	2,062	1,374	2,405	-
Tr14x4	●	●	660	2,639	3,299	1,979	1,319	2,309	-
Tr16x2	●	●	825	3,299	4,123	2,474	1,649	2,886	1,650
Tr16x4	●	●	770	3,079	3,848	2,309	1,539	2,694	1,540
Tr18x4	●	●	880	3,519	4,398	2,639	1,759	3,079	1,760
Tr20x4	●	●	1,244	4,976	6,220	3,732	2,488	4,354	2,488
Tr24x5	●	●	1,486	5,944	7,430	4,458	2,972	5,201	2,972
Tr26x5	●	●	1,698	6,320 ⁴³⁾	6,320 ⁴³⁾	6,320 ⁴³⁾	6,320 ⁴³⁾	6,320 ⁴³⁾	-
Tr28x5	●	●	1,843	4,560 ⁴³⁾	4,560 ⁴³⁾	4,560 ⁴³⁾	4,560 ⁴³⁾	4,560 ⁴³⁾	-
Tr30x6	●	●	1,951	3,576 ⁴³⁾	3,576 ⁴³⁾	3,576 ⁴³⁾	3,576 ⁴³⁾	3,576 ⁴³⁾	-
Tr30x6	●	●	1,951	7,804	9,755	-	-	6,828	-
Tr32x6	●	●	2,095	8,382	10,477	-	-	-	-
Tr36x6	●	●	3,629	14,514	-	-	-	-	-
Tr40x7	●	●	4,013	16,054	-	-	-	-	-

⁴³⁾ Reduced load due to nut geometry

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®						Part No.
							J	W300	J350	R	A180	J200	
8	20	36	28	4	20	8	16.3	13.5	15.7	15.2	15.9	-	□F□M-2020TR8X1.5
10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	-	□F□M-2525TR10X2
10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	-	□F□M-2525TR10X3
12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	-	□F□M-2835TR12X3
14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	-	□F□M-2835TR14X3
14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	-	□F□M-2835TR14X4
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	□F□M-2835TR16X2
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	□F□M-2835TR16X4
18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48	□F□M-2835TR18X4
20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73	□F□M-3244TR20X4
24	32	55	45	7	44	12	51.2	42.6	49.5	47.7	50.1	66	□F□M-3244TR24X5
26	38	62	50	7	46	14	80.7	67.1	78.0	75.2	79.0	-	□F□M-3846TR26X5
28	38	62	50	7	46	14	74.8	62.3	72.3	69.8	73.3	-	□F□M-3846TR28X5
30	38	62	50	7	46	14	68.6	57.1	66.3	64.0	67.2	-	□F□M-3846TR30X6
30	45	70	58	7	46	16	114.4	95.2	-	-	112.1	-	□F□M-4546TR30X6
32	45	70	58	7	46	16	72.6	60.4	-	-	-	-	□F□M-4546TR32X6
36	67	95	81	7	70	25	394.3	-	-	-	-	-	□F□M-6770TR36X6
40	67	95	81	7	70	25	369.4	-	-	-	-	-	□F□M-6770TR40X7

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



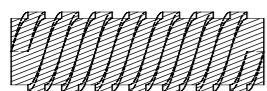
Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur®					
	Right	Left		J	W300	J350	R	A180	J200
Tr06x2P1	●	–	130	441	551	1,124	936	386	–
Tr10x4P2	●	–	353	1,202	1,502	1,051	3,064	2,552	–
Tr12x6P3	●	●	577	1,963	2,453	5,005	4,171	1,717	–
Tr16x8P4	●	●	770	2,617	3,271	6,673	5,561	2,290	1,540
Tr18x8P4	●	–	880	2,991	3,738	7,627	6,355	2,617	1,760
Tr20x8P4	●	–	1,244	4,230	5,287	10,786	8,988	3,701	2,488

Reduced axial load compared to single start threads due to nut geometry.

i Definition: Multi start trapezoidal lead screw

Example 8P4 pitch



P4 pitch: Distance to the next thread pitch 4mm

Pitch 8: Pitch 8mm

Order key

Type d2 b1 Thread

F R M-28 35 TR 12X6P3

igidur® material	Form F	Direction of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch
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Options:

Direction of rotation

R: Right-hand thread

L: Left-hand thread

J	High efficiency at all speeds	Standard 24hrs
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional
J200	The specialist on hard anodised aluminium	Optional

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®						Part No.
							J	W300	J350	R	A180	J200	
6	13	25	19	3.2	15	5	5.0	4.2	4.8	4.7	4.9	–	□FRM-1315TR06X2P1
10	25	42	34	5	25	10	25.6	21.3	25.1	24.8	23.9	–	□FRM-2525TR10X4P2
12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	–	□FRM-2835TR12X6P3
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	□FRM-2835TR16X8P4
18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48	□FRM-2835TR18X8P4
20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73	□FRM-3244TR20X8P4

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



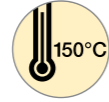
igidur® J



igidur® W300



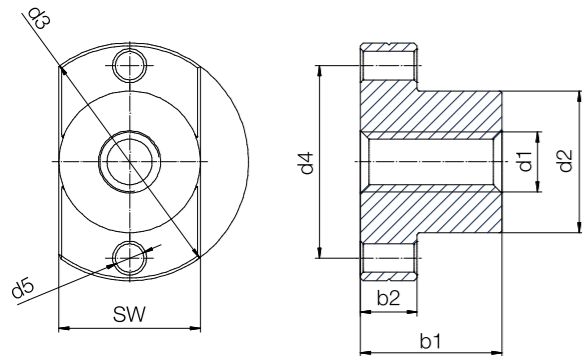
igidur® J350



igidur® R



igidur® A180



Order key

Type	SW	d2	b1	Thread
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F R M-131313TR6X2P1

igidur® material	Form F	Direction of rotation	Metric	Width across flats	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter [mm]	Pitch
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Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

Technical data

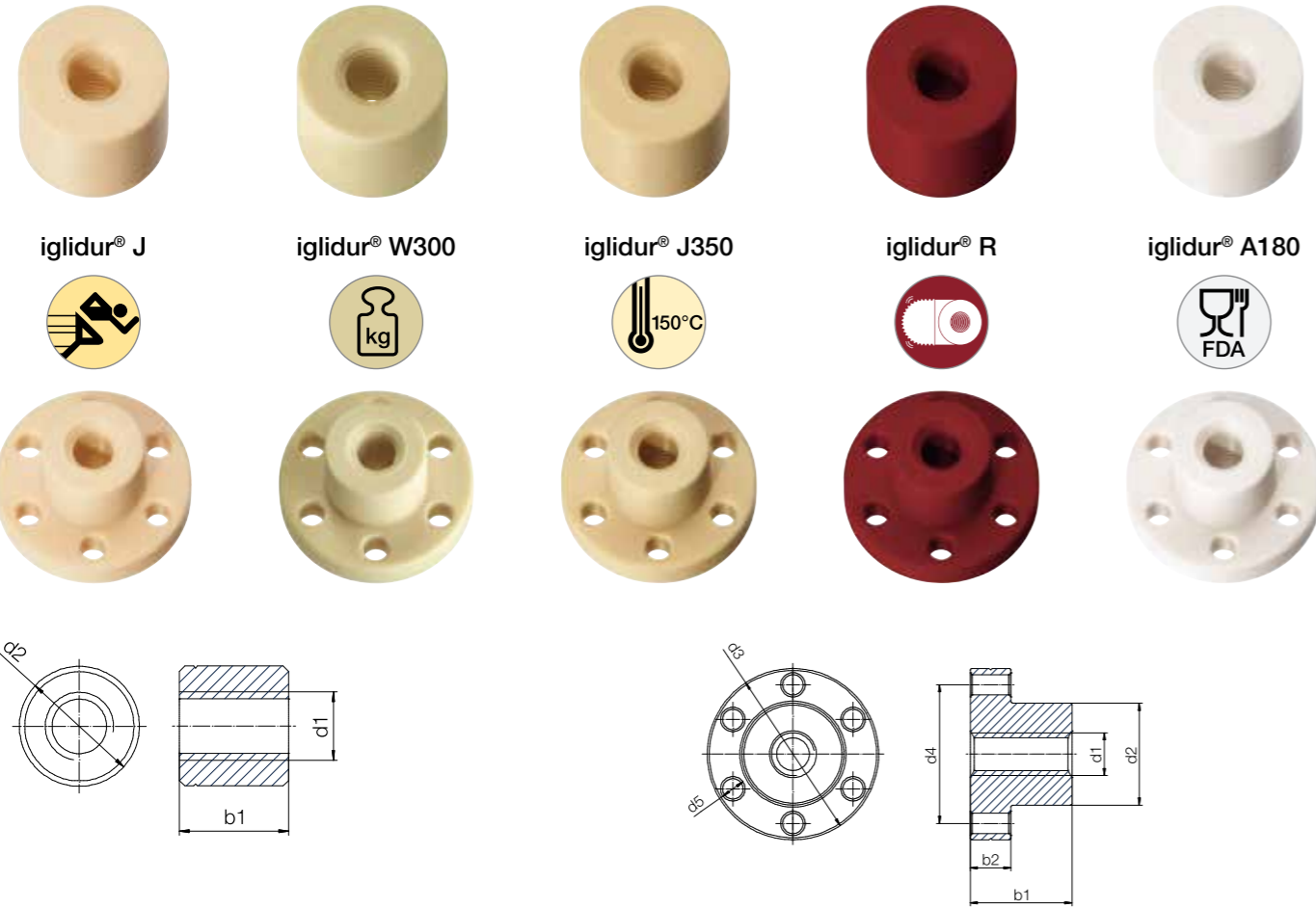
Thread	Direction of rotation		Effective support surface [mm²]	Pitch P [mm]	Max. stat. axial F [N]				
	Right	Left			igidur®				
Single start					J	W300	J350	R	A180
Tr8x1.5	●	●	228	1.5	911	1,139	683	456	797
Tr10x2	●	●	353	2	1,414	1,767	1,060	707	1,237
Tr10x3	●	●	334	3	1,335	1,669	1,001	668	1,168
Tr12x3	●	●	577	3	2,309	2,886	1,732	1,155	2,020
Tr14x4	●	●	660	4	2,639	3,299	1,979	1,319	2,309
Tr16x2	●	●	825	2	3,299	4,213	2,474	1,649	2,886
Tr16x4	●	●	770	4	3,079	3,848	2,309	1,539	2,694
Tr18x4	●	●	880	4	3,519	4,398	2,639	1,759	3,079
Multi start									
Tr06x2P1	●	–	130	6	441	551	330	220	386
Tr12x6P3	●	●	577	6	1,963	2,453	5,005	4,171	1,717
Metric									
M5	●	–	101	0.8	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾
M8	●	–	249	1.25	994	1,243	746	497	870
M10	●	–	390	1.5	1,559	1,949	1,169	780	1,364

⁴³⁾ Reduced load due to nut geometry

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	SW	Weight [g]					Part No.
								igidur®					
								J	W300	J350	R	A180	
8	20	36	28	4	20	8	20	12.7	10.6	–	–	12.4	□F□M-202020TR8X1.5
10	25	42	34	5	25	10	25	23.7	19.7	12.28	22.10	23.2	□F□M-252525TR10X2
10	25	42	34	5	25	10	25	23.7	19.7	12.28	22.10	23.2	□F□M-252525TR10X3 New
12	28	48	38	6	35	12	28	39.2	32.7	37.92	36.60	38.4	□F□M-282835TR12X3
14	28	48	38	6	35	12	28	37.1	30.9	35.86	34.61	36.4	□F□M-282835TR14X4
16	28	48	38	6	35	12	28	34.6	28.8	33.48	32.32	33.9	□F□M-282835TR16X2 New
16	28	48	38	6	35	12	28	34.6	28.8	33.48	32.32	33.9	□F□M-282835TR16X4
18	28	48	38	6	35	12	28	31.9	26.5	30.79	29.72	31.2	□F□M-282835TR18X4
6	13	25	19	3.2	15	5	13	3.8	3.1	3.5	–	3.7	□FRM-131315TR06X2P1
12	28	48	38	6.0	35	12	28	39.2	32.7	37.92	36.30	38.4	□F□M-282835TR12X6P3 New
5	9	18	15.2	3.2	13	3	9	1.3	1.1	1.2	–	1.3	□FRM-090913M5
8	20	36	28	4	20	8	20	12.7	10.57	12.28	11.85	12.45	□FRM-202020M8
10	25	42	34	5	25	10	25	23.7	19.70	22.90	22.10	23.20	□FRM-252525M10

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type d2 b1 Thread

S R M-1413M3

iglidur® material	Form S	Direction of rotation	Metric	Outer Ø [mm]	Length [mm]	Diameter
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Options:
Form S: Cylindrical
Form F: With flange

J	High efficiency at all speeds	Standard
J350	For temperatures up to +150°C	Optional
R	Vibration-dampening and vibration-inhibiting	Optional
A180	FDA-compliant for the food and pharmaceutical industries	Optional
W(300)	Extremely strong and wear-resistant	Optional

i Also available as flanged nut and spanner flats
▶ Page 440

Technical data

Thread	Effective supporting surface [mm²]	Max. stat. axial F [N]				
		iglidur®				
		J	W300	J350	R	A180
Cylindrical (form S)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	112	449	562	337	225	393
M8	151	602	753	452	301	527
M10	189	756	944	567	378	661
With flange (form F)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	130	518	648	389	259	454
M8	228	911	1,139	683	456	797
M10	253	1,414	1,767	1,060	707	1,237

Dimensions [mm]

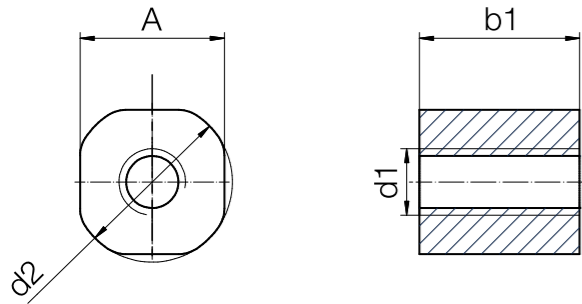
d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g]					Part No.
			iglidur®					
			J	W300	J350	R	A180	
3	14	13	2.8	2.4	2.7	2.7	2.8	<input type="checkbox"/> SRM-1413M3
4	14	13	2.7	2.3	2.6	2.6	2.7	<input type="checkbox"/> SRM-1413M4
5	14	13	2.6	2.2	2.5	2.4	2.5	<input type="checkbox"/> SRM-1413M5
6	14	13	2.4	2.0	2.4	2.3	2.4	<input type="checkbox"/> SRM-1413M6
8	20	18	7.08	5.89	6.69	6.60	6.94	<input type="checkbox"/> SRM-2018M8
10	22	20	8.99	7.48	8.69	8.38	8.81	<input type="checkbox"/> SRM-2220M10

d1	d2	d3	d4	d5	b1	b2						
3	9	18	15.2	3.2	13	3	1.9	1.6	1.9	1.8	1.9	<input type="checkbox"/> FRM-0913M3
4	9	18	15.2	3.2	13	3	1.8	1.5	1.8	1.7	1.8	<input type="checkbox"/> FRM-0913M4
5	9	18	15.2	3.2	13	3	1.7	1.4	1.6	1.6	1.7	<input type="checkbox"/> FRM-0913M5
6	13	25	19.0	3.2	15	5	4.7	3.9	4.5	4.4	4.6	<input type="checkbox"/> FRM-1315M6
8	20	36	28.0	4.0	20	8	16.25	13.53	15.93	15.71	15.17	<input type="checkbox"/> FRM-2020M8
10	25	42	34.0	5.0	25	10	28.69	23.88	28.11	27.73	26.76	<input type="checkbox"/> FRM-2525M10

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Image exemplary



Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	E7
single start						
Tr8x1.5	●	●	228	1.5	911	114
Tr10x2	●	●	283	2	1,131	141
Tr10x3	●	●	267	3	1,068	134
Tr12x3	●	●	412	3	1,649	206
Tr14x3	●	●	491	3	1,963	245
Tr14x4	●	●	471	4	1,885	236
Tr16x2	●	●	589	2	2,356	-
Tr16x4	●	●	550	4	2,199	-
Tr18x4	●	●	628	4	2,513	-
Tr20x4	●	●	1,131	4	4,524	-
multi start						
Tr6x2P1	●	-	104	2	352	52
Tr10x4P2	●	-	283	4	961	141
Tr12x6P3	●	●	412	6	1,402	206
Tr16x8P4	●	●	550	8	1,869	-
Tr18x8P4	●	●	628	8	3,845	-
Tr20x8P4	●	●	1,131	8	3,845	-

Order key

Type d2 b1 Thread

J S □ M - C - 01 - TR 10X12

iglidur® material	Form S	Direction of rotation	Metric	Thread: cut	Type	Thread type	Diameter [mm]	Pitch
J	High efficiency at all speeds	Standard 24hrs						
E7	For high speeds and low loads	Optional						

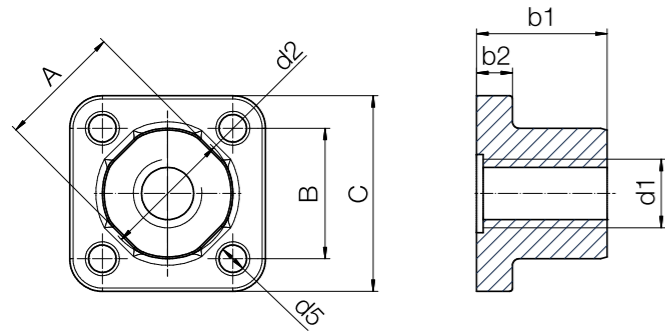
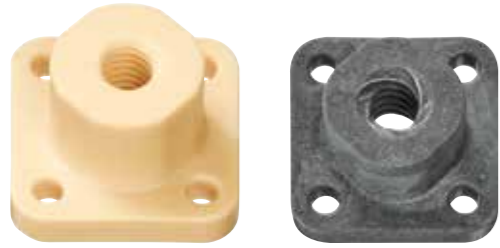
Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

i Injection moulded lead screw nut blank incl. machined cut thread

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g] iglidur®		Part No.
				J	E7	
8	20	18.0	20	7.6	5.4	□S□M-C-01-TR8X1.5
10	20	18.0	20	7.1	5.0	□S□M-C-01-TR10X2
10	20	18.0	20	7.1	5.0	□S□M-C-01-TR10X3
12	24	22.6	25	13.9	9.8	□S□M-C-01-TR12X3
14	24	22.6	25	12.7	9.8	□S□M-C-01-TR14X3
14	24	22.6	25	12.7	9.8	□S□M-C-01-TR14X4
16	28	26.2	25	16.2	-	JS□M-C-01-TR16X2
16	28	26.2	25	16.2	-	JS□M-C-01-TR16X4
18	28	26.2	25	16.2	-	JS□M-C-01-TR18X4
20	32	29.0	40	32.7	-	JS□M-C-01-TR20X4 New
6	12	11.0	12	1.5	1.0	□SRM-C-01-TR6X2P1 New
10	20	18.0	20	7.1	5.0	□SRM-C-01-TR10X4P2
12	24	22.6	25	13.9	9.8	□S□M-C-01-TR12X6P3
16	28	26.2	25	16.2	-	JS□M-C-01-TR16X8P4
18	28	26.2	25	16.2	-	JS□M-C-01-TR18X8P4
20	32	29.0	40	32.7	-	JS□M-C-01-TR20X8P4 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



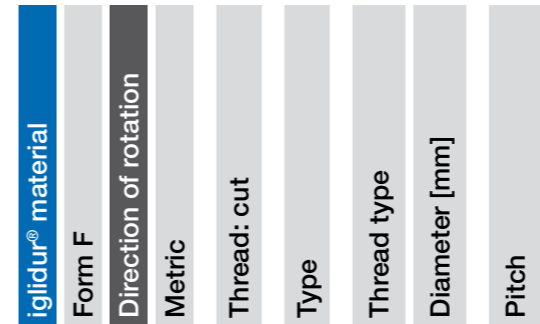
Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	E7
single start						
Tr8x1.5	●	●	228	1.5	911	114
Tr10x2	●	●	283	2	1,131	141
Tr10x3	●	●	267	3	1,068	134
Tr12x3	●	●	412	3	1,649	206
Tr14x3	●	●	491	3	1,963	245
Tr14x4	●	●	471	4	1,885	236
Tr16x2	●	●	589	2	2,356	-
Tr16x4	●	●	550	4	2,199	-
Tr18x4	●	●	628	4	2,513	-
Tr20x4	●	●	1,131	4	4,524	-
multi start						
Tr6x2P1	●	-	104	2	352	52
Tr10x4P2	●	-	283	4	961	141
Tr12x6P3	●	●	412	6	1,402	206
Tr16x8P4	●	●	550	8	1,869	-
Tr18x8P4	●	●	628	8	2,136	-
Tr20x8P4	●	●	1,131	8	3,845	-

Order key

Type d2 b1 Thread

J F □ M - C - 01 - TR 10X12



Options:
Direction of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds	Standard 24hrs
E7	For high speeds and low loads	Optional

i Injection moulded lead screw nut blank incl. machined cut thread

Dimensions [mm]

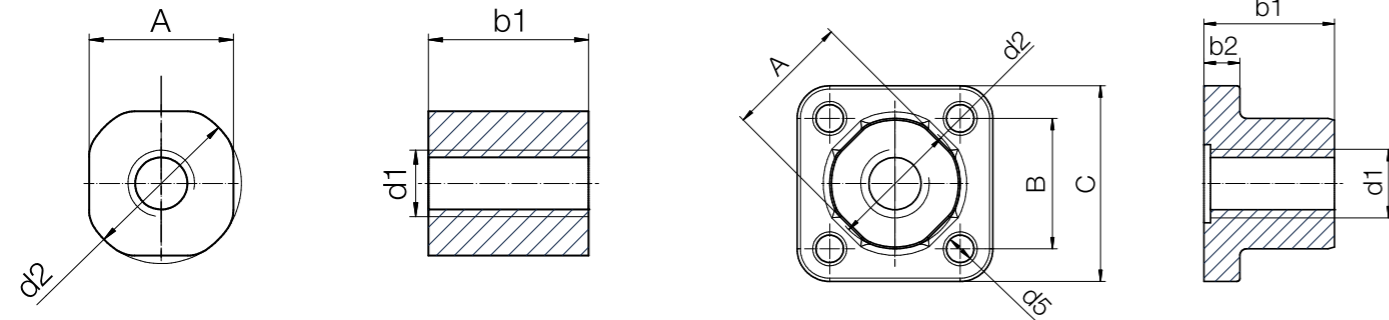
d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	B	C	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®		Part No.
								J	E7	
8	20	19.0	20	30	4.2	20	5.5	11.6	8.3	□F□M-C-01-TR8X1.5
10	20	19.0	20	30	4.2	20	5.5	11.8	8.3	□F□M-C-01-TR10X2
10	20	19.0	20	30	4.2	20	5.5	11.8	8.3	□F□M-C-01-TR10X3
12	24	22.6	24	34	5.0	25	6.0	19.3	13.6	□F□M-C-01-TR12X3
14	24	22.6	24	34	5.0	25	6.0	19.3	13.6	□F□M-C-01-TR14X3
14	24	22.6	24	34	5.0	25	6.0	19.3	13.6	□F□M-C-01-TR14X4
16	28	25.5	27	38	6.0	25	6.5	24.1	-	JF□M-C-01-TR16X2
16	28	25.5	27	38	6.0	25	6.5	24.1	-	JF□M-C-01-TR16X4
18	28	25.5	27	38	6.0	25	6.5	22.7	-	JF□M-C-01-TR18X4
20	32	29.0	30	42	6.0	25	8.0	30.4	-	JF□M-C-01-TR20X4 New
6	12	11.0	12	18	3.2	12	4.0	2.5	1.8	□FRM-C-01-TR6X2P1 New
10	20	19.0	20	30	4.2	20	5.5	11.8	8.3	□FRM-C-01-TR10X4P2
12	24	22.6	24	34	5.0	25	6.0	19.3	13.6	□FRM-C-01-TR12X6P3
16	28	25.5	27	38	6.0	25	6.5	24.1	-	JFRM-C-01-TR16X8P4
18	28	25.5	27	38	6.0	25	6.5	22.7	-	JFRM-C-01-TR18X8P4
20	32	29.0	30	42	6.0	25	8.0	30.7	-	JFRM-C-01-TR20X8P4 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Cylindrical (form S)



With flange (form F)



Order key

Type d2 b1 Thread

J S R M - C - 01 - M5

iglidur® material	Form S	Direction of rotation	Metric	Thread: cut	Type	Diameter
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Options:
Form S: Cylindrical
Form F: With flange

Injection moulded lead screw nut blank incl. machined cut thread

Technical data

Thread	Effective supporting surface [mm²]	Max. static axial F [N]
Cylindrical (form S)		
M5	94	376
M6	112	449
M8	151	602
With flange (form F)		
M5	90	358
M6	104	415
M8	232	927

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g]	Part No.
5	12	11	12	1.74	JSRM-C-01-M5
6	12	11	12	1.44	JSRM-C-01-M6
8	20	19	20	7.58	JSRM-C-01-M8

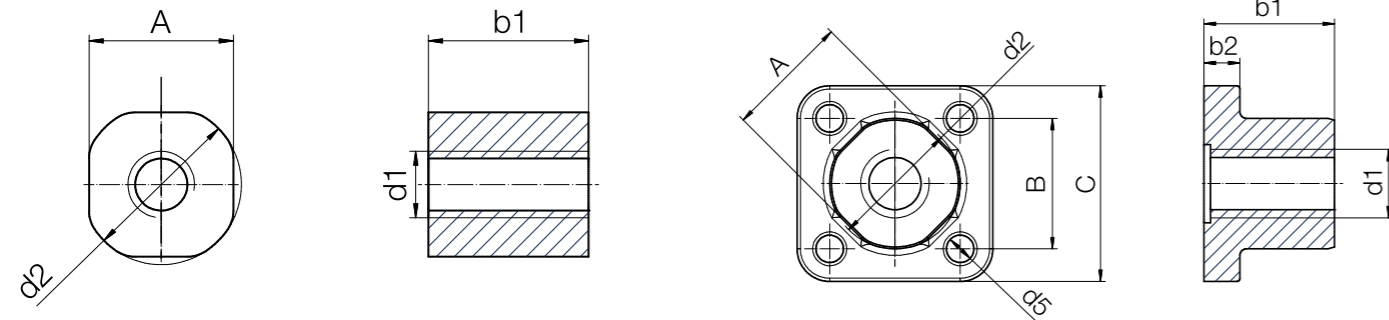
d1	d2	A	B	C	d5	b1	b2	[g]	
5	12	11	12	18	3.2	12	4	2.59	JFRM-C-01-M5
6	12	11	12	18	3.2	12	4	2.62	JFRM-C-01-M6
8	20	19	20	30	4.2	20	5.5	12.2	JFRM-C-01-M8

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Cylindrical (form S)



With flange (form F)



Order key

Type d2 b1 Thread

J F R M-M-01-TR 10X12

iglidur® material	Form F	Direction of rotation	Metric	Thread: injection moulding	Type	Thread type	Diameter [mm]	Pitch
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Options:
Form S: Cylindrical
Form F: With flange

i Completely injection-moulded lead screw nut (off-the-tool) incl. injection-moulded thread

Technical data

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. static axial F [N]
	Right	Left			
Cylindrical (form S)					
Tr8x1.5	●	–	228	1.5	500 ⁴³⁾
Tr10x2	●	–	283	2	1,131
Tr12x3	●	–	412	3	1,649
Tr16x2	●	–	589	2	2,356
Tr16x4	●	–	550	4	2,199
With flange (form F)					
Tr8x1.5	●	–	118	1.5	471
Tr10x2	●	–	228	2	911
Tr12x3	●	–	412	3	1,649
Tr16x2	●	–	589	2	2,356
Tr16x4	●	–	353	4	1,414

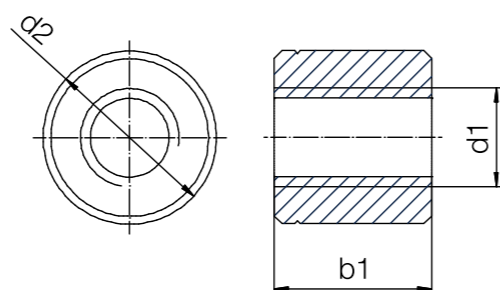
⁴³⁾ Reduced load due to nut geometry

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g]	Part No.
8	20	19	20	7.86	JSRM-M-01-TR8X1.5
10	20	19	20	7.02	JSRM-M-01-TR10X2
12	24	22.6	25	12.64	JSRM-M-01-TR12X3 New
16	28	26.2	25	15.45	JSRM-M-01-TR16X2 New
16	28	26.16	25	15.45	JSRM-M-01-TR16X4

d1	d2	A	B	C	d5	b1	b2	[g]	Part No.
8	20	19.0	20	30	4.2	20	5.5	7.38	JFRM-M-01-TR8X1.5
10	20	19.0	20	30	4.2	20	5.5	7.38	JFRM-M-01-TR10X2
12	24	22.6	24	34	5.0	25	6.0	10.3	JFRM-M-01-TR12X3 New
16	28	25.5	27	38	6.0	25	6.5	13.99	JFRM-M-01-TR16X2 New
16	28	25.5	27	38	6.0	25	6.5	13.99	JFRM-M-01-TR16X4

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)




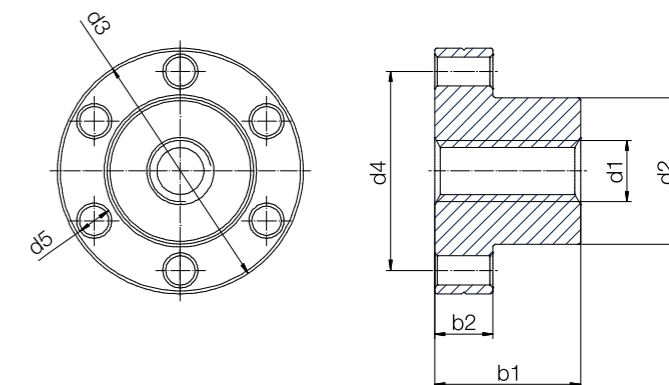
Technical data and dimensions - cylindrical lead screw nuts

Thread	Hand of rotation right	Effective support surface [mm²]	Max. static, axial F [N] J/W300/J350/A180/R	Part No.
1/4-16	●	111	200	JSRI-01-1/4-16
3/8-20	●	256	1,024	JSRI-01-3/8-20
3/8-12	●	254	1,018	JSRI-01-3/8-12
3/8-10	●	245	980	JSRI-01-3/8-10
1/2-10	●	449	1,796	JSRI-01-1/2-10
5/8-8	●	568	2,272	JSRI-01-5/8-8
3/4-10	●	913	3,652	JSRI-01-3/4-10
3/4-6	●	978	3,912	JSRI-01-3/4-6
1-10	●	1,830	7,320	JSRI-01-1-10
1-5	●	1,896	7,584	JSRI-01-1-5

Dimensions - cylindrical lead screw nuts

d1 [inch]	d2 [inch]	b1 [inch]	Weight [lb] J/A180/R/J350/W300	Part No.
0.250	0.625	0.500	0.006-0.007	JSRI-01-1/4-16
0.380	0.875	0.750	0.016-0.020	JSRI-01-3/8-20
0.380	0.875	0.750	0.016-0.020	JSRI-01-3/8-12
0.380	0.875	0.750	0.016-0.020	JSRI-01-3/8-10
0.500	1,000	1,000	0.026-0.032	JSRI-01-1/2-10
0.630	1.375	1,000	0.053-0.063	JSRI-01-5/8-8
0.750	1,500	1.375	0.080-0.096	JSRI-01-3/4-10
0.750	1,500	1.375	0.080-0.096	JSRI-01-3/4-6
1,000	2,000	2,000	0.212-0.255	JSRI-01-1-10
1,000	2,000	2,000	0.212-0.255	JSRI-01-1-5

 Full product range online
Split lead screw nuts made from
5 iglidur® materials
► www.igus.eu/ACME-thread

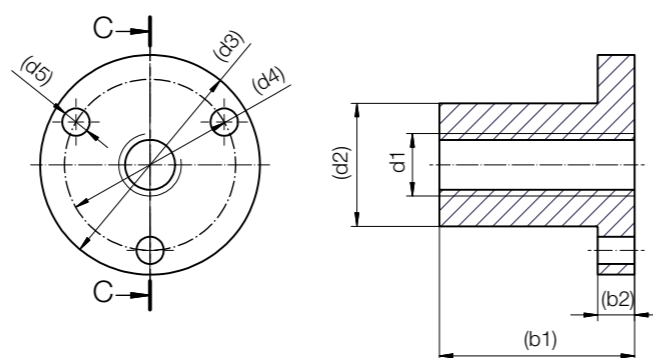


Technical data - with flange

Thread	Hand of rotation right	Effective support surface [mm²]	Max. static, axial F [N] J/A180/R/J350/W300	Part No.
1/4-16	●	111	111	JFRI-01-1/4-16
3/8-20	●	341	1,364	JFRI-01-3/8-20
3/8-12	●	327	1,320	JFRI-01-3/8-12
3/8-10	●	326	1,304	JFRI-01-3/8-10
1/2-10	●	618	2,472	JFRI-01-1/2-10
5/8-8	●	781	3,124	JFRI-01-5/8-8
3/4-10	●	913	3,652	JFRI-01-3/4-10
3/4-6	●	978	3,912	JFRI-01-3/4-6
1-10	●	1,601	6,404	JFRI-01-1-10
1-5	●	1,659	6,636	JFRI-01-1-5

Dimensions - with flange

d1 [inch]	d2 [inch]	d3 [inch]	d4 [inch]	d5 [inch]	b1 [inch]	b2 [inch]	Weight [lb] J/A180/R/J350/W300	Part No.
0.250	0.500	1,000	0.750	0.130	0.500	0.200	0.008-0.010	JFRI-01-1/4-16
0.380	1,000	1.630	1.310	1,200	1,000	0.380	0.052-0.062	JFRI-01-3/8-20
0.380	1,000	1.630	1.310	0.200	1,000	0.380	0.052-0.062	JFRI-01-3/8-12
0.380	1,000	1.630	1.310	0.200	1,000	0.380	0.052-0.062	JFRI-01-3/8-10
0.500	1,125	1.880	1,000	0.240	1.380	0.500	0.080-0.097	JFRI-01-1/2-10
0.630	1,125	1.880	1,000	0.240	1.380	0.500	0.082-0.098	JFRI-01-5/8-8
0.750	1,125	1.880	1,500	0.240	1.380	0.500	0.072-0.087	JFRI-01-3/4-10
0.750	1,125	1.880	1,500	0.240	1.380	0.500	0.072-0.087	JFRI-01-3/4-6
1,000	1,500	2,500	2,000	0.280	1,750	0.590	0.160-0.192	JFRI-01-1-10
1,000	1,500	2,500	2,000	0.280	1,750	0.590	0.160-0.192	JFRI-01-1-5



Material iglidur® J4:
Cost-effective and wear-resistant

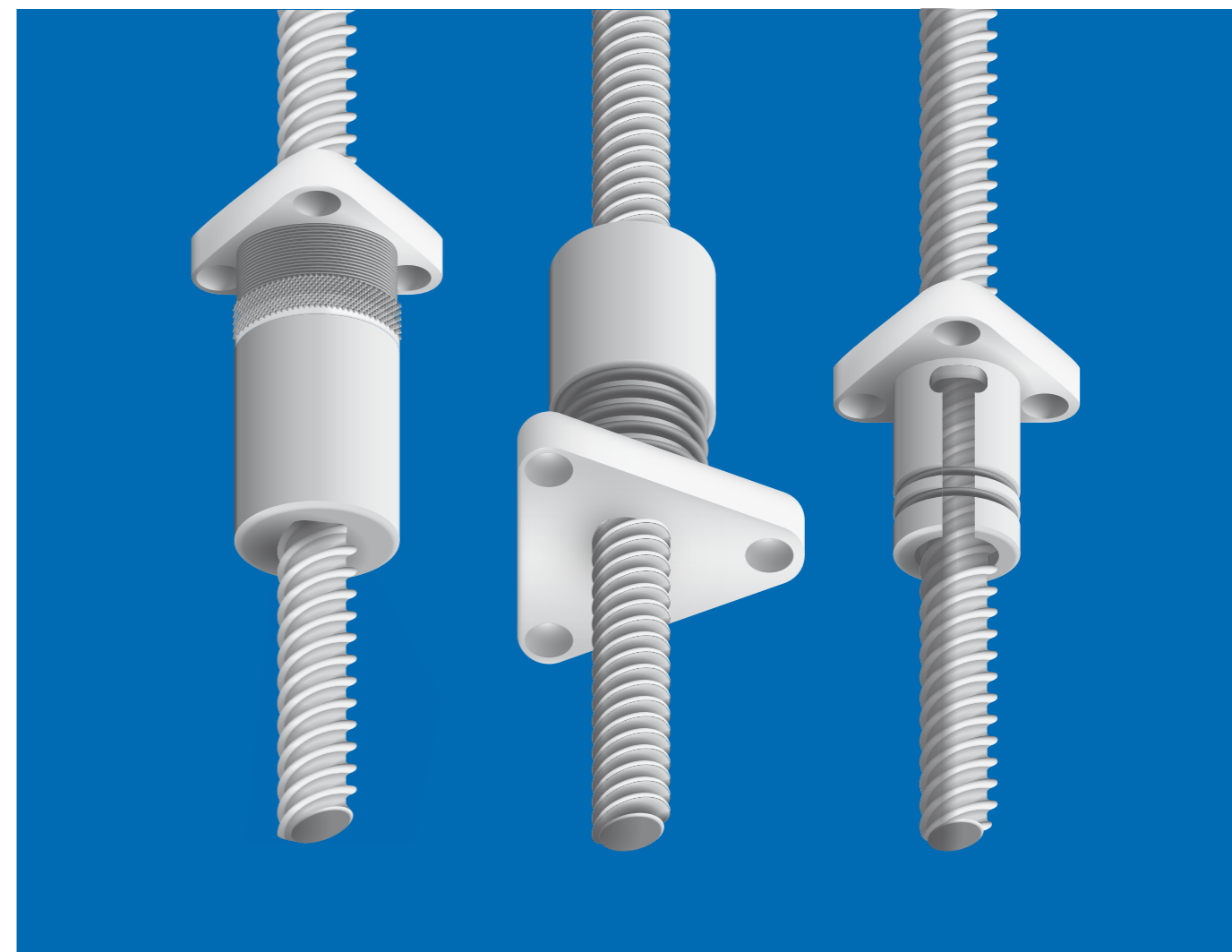
i Injection moulded lead screw nut blank incl. machined cut thread

Technical data - with flange

Thread	Hand of rotation right	Effective support surface [mm²]	Max. stat. axial F [N] J4	Part No.
1/4-16	●	111	175	J4FRI-C-01-1/4-16
3/8-10	●	341	1,352	J4FRI-C-01-3/8-10
3/8-12	●	327	1,318	J4FRI-C-01-3/8-12
3/8-20	●	326	1,320	J4FRI-C-01-3/8-20
1/2-10	●	674	3,136	J4FRI-C-01-1/2-10
5/8-8	●	852	3,902	J4FRI-C-01-5/8-8
3/4-6	●	1,328	6.739	J4FRI-C-01-3/4-6
3/4-10	●	1,423	6.385	J4FRI-C-01-3/4-10
1-5	●	1,830	6.385	J4FRI-C-01-1-5
1-10	●	1,896	6.385	J4FRI-C-01-1-10

Dimensions - with flange

d1 [inch]	d2 [mm²]	d3 [mm²]	d4 [mm²]	d5 [mm²]	b1 [mm²]	b2 [mm²]	Weight [lb]	Part No.
0.250	0.50	1.00	0.750	0.140	1.0	0,19	6.90	J4FRI-C-01-1/4-16
0.380	0.63	1,125	0.876	0.140	1.0	0,19	9.24	J4FRI-C-01-3/8-10
0.380	0.63	1,125	0.876	0.140	1.0	0,19	9.24	J4FRI-C-01-3/8-12
0.500	0.63	1,125	0.876	0.140	1.0	0,19	9.24	J4FRI-C-01-3/8-20
0.630	0.75	1.50	1.126	0.140	1.5	0,19	19.5	J4FRI-C-01-1/2-10
0.750	0.875	1.50	1.188	0.203	1.5	0.188	21.3	J4FRI-C-01-5/8-8
0.630	1,13	1.75	1.438	0.203	2.0	0.25	48.1	J4FRI-C-01-3/4-6
0.750	1,13	1.75	1.438	0.203	2.0	0.25	48.1	J4FRI-C-01-3/4-10
1,000	1/1.5	2.25	1.876	0.203	2.0	0.25	83.4	J4FRI-C-01-1-5
1,000	1/1.5	2.25	1.876	0.203	2.0	0.25	83.4	J4FRI-C-01-1-10



dryspin® lead screw technology - low-clearance lead screw nuts

Zero-backlash lead screw nuts

Pre-load lead screw nuts

Low-clearance lead screw nuts

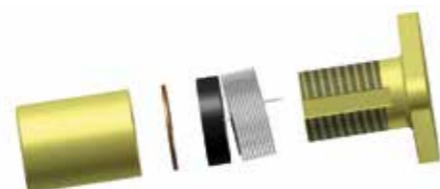
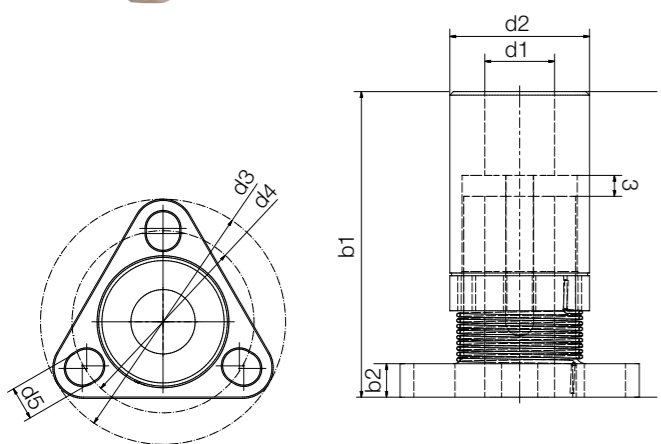
Anti-backlash lead screw nuts





i Backlash is created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.

i We recommend using our zero backlash lead screw nuts at constant temperatures. Large temperature differences can cause the lead screw nut develop unwanted adjustment, which can increase the required driving torque of the lead screw nut.



i Installation instructions and video tutorials
▶ www.igus.eu/zero-backlash-nut

Technical data

Thread	Max. stat. axial F [N]	Max. idling torque (with spring) ¹⁷⁰⁾ from [Nm]	Weight [g]
Ds5x5	75	0.02	6.5
Ds6.35x2.54	75	0.02	6.2
Ds6.35x5.08	75	0.02	6.2
Ds6.35x12.7	75	0.02	6.2
Ds6.35x25.4	75	0.02	6.2
Ds8x10	150	0.03	17.7
Ds8x15	150	0.03	17.7
Ds8x24	150	0.03	17.7
Ds10x12	150	0.04	16.8
Ds10x25	150	0.04	16.8
Ds10x50	150	0.04	16.8
DS12x3	500	0.08	29.3
DS12x5	500	0.08	29.3
DS12.7x12.7	500	0.08	29.3
DS12x15	500	0.08	29.3
DS12x25	500	0.08	29.3
DS14x4	500	0.08	27.7
DS14x24	500	0.08	27.7
DS14x30	500	0.08	27.7

¹⁷⁰⁾ The idling torque of the zero-backlash lead screw nut increases with service life. When calculating the dimensions, it is recommended that the maximum idling torque be taken into account.

i Order key

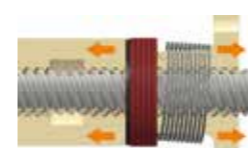
Part number	Type	Thread
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DST - J F R M - ZB - 0001 - DS 10X12

dryspin® technology
iglidur® J
Form F
Direction of rotation
Metric
Zero-Backlash
Type 0001
Thread type
Thread Ø [mm]
Pitch



Yellow markings show the axial clearance of a standard lead screw nut



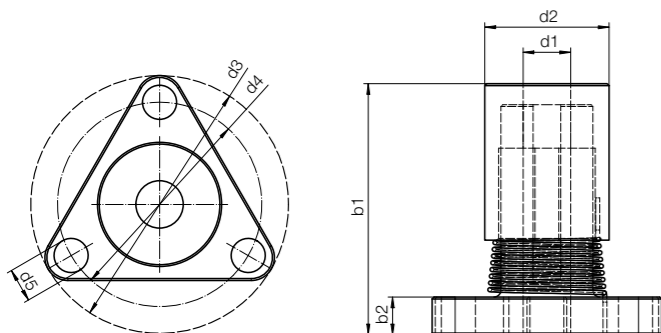
The lead screw nut consists of a support nut, an adjusting ring with torsion spring, a friction disc and the axial element. With the help of the torsion spring, the pretension is brought into the lead screw system.

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ^{40) 156)}	b2	Part No.
5	13.5	28	22.2	3.7	31 - 36	4.1	DST-JFRM-ZB-0001-DS5X5
6.35	13.5	28	22.2	3.7	31 - 36	4.1	DST-JFRM-ZB-0001-DS6.35X2.54
6.35	13.5	28	22.2	3.7	31 - 36	4.1	DST-JFRM-ZB-0001-DS6.35X5.08
6.35	13.5	28	22.2	3.7	31 - 36	4.1	DST-JFRM-ZB-0001-DS6.35X12.7
6.35	13.5	28	22.2	3.7	31 - 36	4.1	DST-JFRM-ZB-0001-DS6.35X25.4
8	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS8X10
8	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS8X15
8	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS8X24
10	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS10X12
10	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS10X25
10	20	38.1	28.3	5.2	41 - 47	4.8	DST-JFRM-ZB-0001-DS10X50
12	24	41.2	31.8	5.2	55 - 61	7.0	DST-JFRM-ZB-0001-DS12X3 New
12	24	41.2	31.8	5.2	55 - 61	7.0	DST-JFRM-ZB-0001-DS12X5 New
12	24	41.2	31.8	5.2	55 - 61	7.0	DST-JFRM-ZB-0001-DS12.7X12.7 New
12	24	41.2	31.8	5.2	55 - 62	7.0	DST-JFRM-ZB-0001-DS12X15 New
12	24	41.2	31.8	5.2	55 - 63	7.0	DST-JFRM-ZB-0001-DS12X25 New
14	24	41.2	31.8	5.2	55 - 64	7.0	DST-JFRM-ZB-0001-DS14X4 New
14	24	41.2	31.8	5.2	55 - 65	7.0	DST-JFRM-ZB-0001-DS14X24 New
14	24	41.2	31.8	5.2	55 - 66	7.0	DST-JFRM-ZB-0001-DS14X30 New

⁴⁰⁾ Variable according to thread pitch / clearance

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



i Backlash is created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.



Technical data

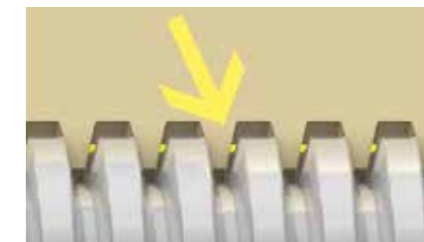
Thread	Max. stat. axial F	Max. idling torque (with spring) from	Weight
	[N]	[Nm]	
DS6.35x2.54	30	0.10	5.1
DS6.35x5.08	30	0.10	5.1
DS6.35x6.35	30	0.10	5.1
DS6.35x1	30	0.10	5.1
DS10x2	40	0.10	22.0
DS10x3	40	0.10	22.0
DS10x12	35	0.10	22.0

Key Order key

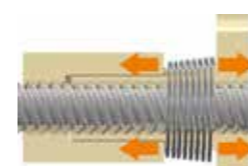
Part number	Type	Thread
-------------	------	--------

DST - J F R M-PL -0001-DS 10X12

dryspin® technology	iglidur® J	Form F	Direction of rotation	Metric	Pre-load	Type 0001	Thread type	Thread Ø [mm]	Pitch
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Yellow markings show the axial clearance of a standard lead screw nut

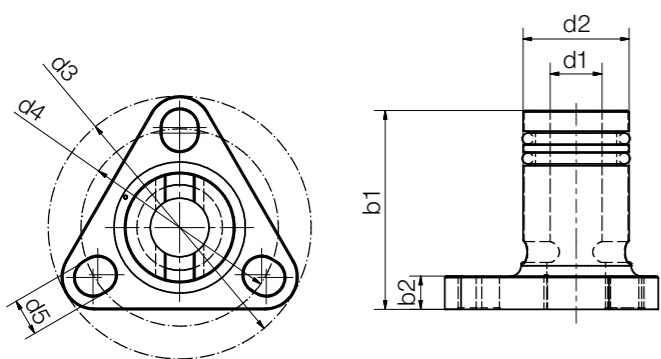


It is the cost-effective alternative to the zero backlash lead screw nuts and perfectly suited for small pitches. This is the proven preload principle from SHT-PL.

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Part No.
6.35	13.5	28.0	22.2	3.7	31 - 36	4.1	DST-JFRM-PL-0001-DS6.35X2.54 New
6.35	13.5	28.0	22.2	3.7	31 - 36	4.1	DST-JFRM-PL-0001-DS6.35X5.08 New
6.35	13.5	28.0	22.2	3.7	31 - 36	4.1	DST-JFRM-PL-0001-DS6.35X6.35 New
6.35	13.5	28.0	22.2	3.7	31 - 36	4.1	DST-JFRM-PL-0001-DS6.35X1 New
10.0	20.0	38.1	28.2	5.2	41 - 46	4.8	DST-JFRM-PL-0001-DS10X2 New
10.0	20.0	38.1	28.2	5.2	41 - 46	4.8	DST-JFRM-PL-0001-DS10X3 New
10.0	20.0	38.1	28.2	5.2	41 - 46	4.8	DST-JFRM-PL-0001-DS10X12 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



i Backlash is created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.

i The pre-load can increase the maximum idling torque by up to 0.2Nm.

Technical data

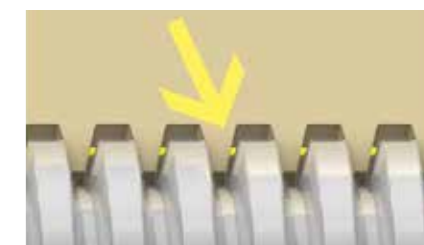
Thread	Max. stat. axial F [N]	Weight [g]
Ds5x5	40	3.0
Ds5x10	40	3.0
Ds6.35x1	40	2.7
Ds6.35x2.54	40	3.8
Ds6.35x5.08	40	3.8
Ds6.35x6.35	40	2.7
Ds6.35x12.7	40	3.8
Ds6.35x25.4	40	3.8
Ds8x8	75	8.2
Ds8x10	75	12.1
Ds8x15	75	12.1
Ds8x24	75	8.2
Ds8x40	75	8.2
Ds10x2	75	7.3
Ds10x3	75	7.3
Ds10x12	75	12.1
Ds10x25	75	12.1
Ds10x50	75	12.1
Ds12x3	125	15.1
Ds12x5	125	15.1
Ds12.7x12.7	125	15.1
Ds12x15	125	15.1
Ds12x25	125	15.1

Key Order key

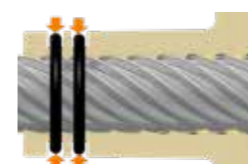
Part number	Type	Thread
-------------	------	--------

DST- J F R M-LC-0001-DS 10X12

dryspin® technology
igidur® J
Form F
Direction of rotation
Metric
Low Clearance
Type 0001
Thread type
Thread Ø [mm]
Pitch



Yellow markings show the axial clearance of a standard lead screw nut



The O-rings apply a circumferential radial pretension to the thread system, pressing the flanks of the lead screw nut and the threads of the lead screw. This ensures a constant axial and radial pretension of the nut.

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Part No.
5	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS5X5 New
5	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS5X10 New
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X1 New
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X2.54
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X5.08
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X6.35 New
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X12.7
6.35	10	28	22.2	3.7	25.0	4.1	DST-JFRM-LC-0001-DS6.35X25.4
8	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS8X8 New
8	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS8X10
8	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS8X15
8	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS8X24 New
8	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS8X40 New
10	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS10X2 New
10	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS10X3 New
10	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS10X12
10	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS10X25
10	16	38.1	28.2	5.2	28.8	4.8	DST-JFRM-LC-0001-DS10X50
12	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS12X3 New
12	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS12X5
12	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS12.7X12.7 New
12	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS12X15 New
12	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS12X25

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

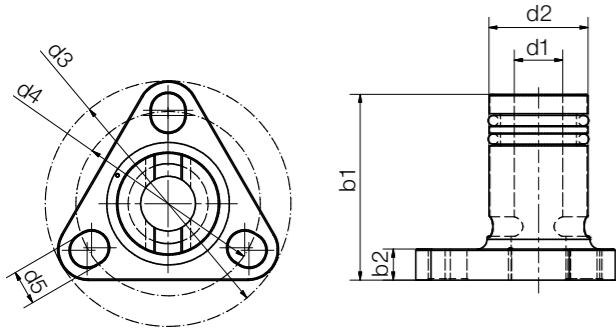
Technical data

Thread	Max. stat. axial F [N]	Weight [g]
Ds14x4	125	14.2
Ds14x25	125	14.2
Ds14x30	125	14.2
Ds14x40.6	125	14.2
Ds14x70	125	14.2

Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Part No.
14	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS14X4 New
14	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS14X25
14	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS14X30
14	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS14X40.6
14	20	41.2	31.8	5.2	44.0	7.0	DST-JFRM-LC-0001-DS14X70 New

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



i Backlash is created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.

i The pre-load can increase the maximum idling torque by up to 0.2Nm.

Technical data

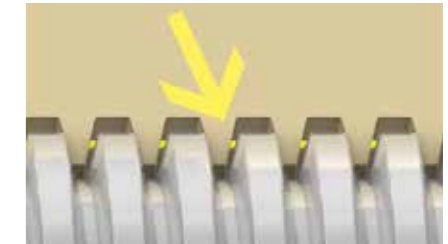
Thread	Max. static axial F [N]	Weight [g]
Single start		
Tr8x1.5	75	8.2
Tr10x2	75	7.3
Tr10x3	75	7.3
Tr12x3	125	15.1
Tr14x3	125	14.2
Tr14x4	125	14.2
Multi start		
Tr06x2P1	40	3.9
Tr12x6P3	125	18.0

Order key

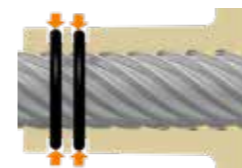
Type	Thread
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J F R M-LC-0001-TR 10X2

iglidur® material	Form F	Direction of rotation	Metric	Low Clearance	Type	Trapezoidal thread	Diameter [mm]	Pitch
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Yellow markings show the axial clearance of a standard lead screw nut

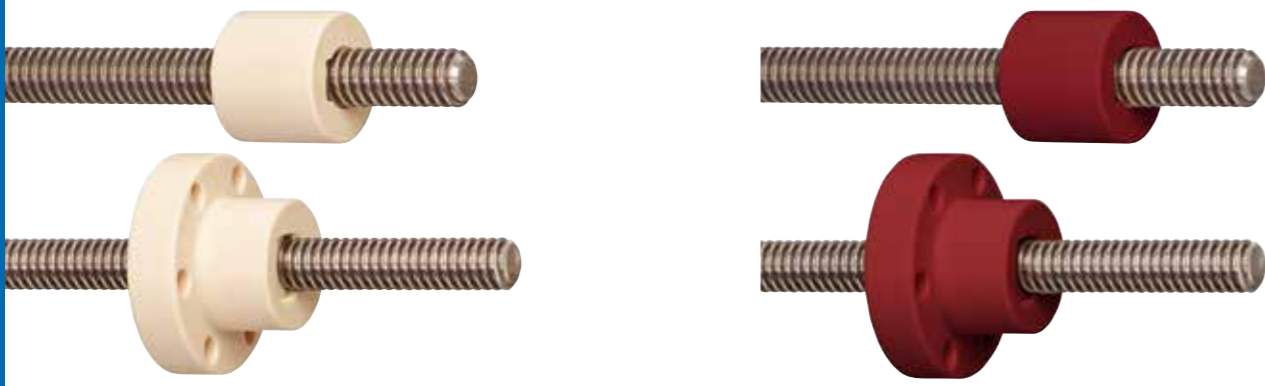


The O-rings apply a circumferential radial pretension to the thread system, pressing the flanks of the lead screw nut and the threads of the lead screw. This ensures a constant axial and radial pretension of the nut.

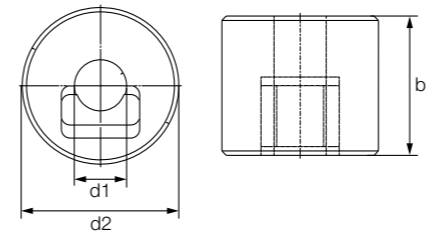
Dimensions [mm]

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Part No.
8	16.0	38.1	28.2	5.2	28.3	4.8	JFRM-LC-0001-TR8X1.5
10	16.0	38.1	28.2	5.2	28.3	4.8	JFRM-LC-0001-TR10X2
10	16.0	38.1	28.2	5.2	28.3	4.8	JFRM-LC-0001-TR10X3
12	20	41.2	31.8	5.2	44.0	7.0	JFRM-LC-0001-TR12X3
14	20	41.2	31.8	5.2	44.0	7.0	JFRM-LC-0001-TR14X3
14	20	41.2	31.8	5.2	44.0	7.0	JFRM-LC-0001-TR14X4
6	10.0	28.0	22.2	3.7	25.0	4.1	JFRM-LC-0001-TR06X2P1
12	20	41.2	31.8	4.8	44.0	7.0	JFRM-LC-0001-TR12X6P3

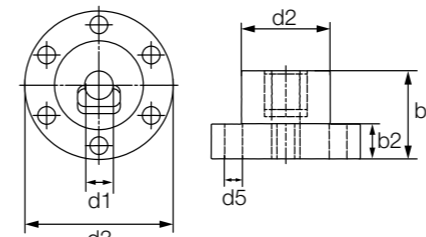
¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



In the case of this lead screw nut, an elastomer ring applies a force on an insert with a matching thread, which is pressed into the threads of the lead screw. It is important that this pretensioning is not present over the entire length or the entire circumference. This ensures low axial clearance in only a small range.



Cylindrical (form S)



With flange (form F)

Order key

Type d2 b1 Thread

S R M-AB-25 25 TR 10X2

iglidur® material	Form S	Direction of rotation	Metric	Anti-backlash	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter [mm]	Pitch	Options: Form S: Cylindrical Form F: With flange
		J								High efficiency at all speeds
		R								Vibration-dampening and vibration-inhibiting

Technical data - cylindrical design

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	R
Cylindrical - form S						
Tr8x1.5	●	–	228	1.5	683	342
Tr10x2	●	●	283	2	848	424
Tr12x3	●	–	396	3	1,188	594
Tr16x2	●	–	613	2	1,838	919
Tr16x4	●	–	613	4	1,838	919
Tr18x4	●	●	905	4	2,714	1,357
Tr20x4	●	●	1,131	4	3,393	1,696
Tr24x5	●	–	1,621	5	4,863	2,432

Technical data - with flange

Thread	Direction of rotation		Effective supporting surface [mm²]	Pitch P [mm]	Max. stat. axial F [N] iglidur®	
	Right	Left			J	R
With flange - form F						
Tr8x1.5	●	–	285	1.5	683	342
Tr10x2	●	●	353	2	1,060	530
Tr10x3	●	–	334	3	1,001	501
Tr12x3	●	–	396	3	1,188	594
Tr14x4	●	●	471	4	1,414	707
Tr16x2	●	●	613	2	1,838	919
Tr16x4	●	●	445	4	1,336	668
Tr18x4	●	●	905	4	2,714	1,357
Tr18x8P4	●	–	1,002	8P4	2,243	1,153
Tr20x4	●	●	1,131	4	3,393	1,696
Tr20x8P4	●	–	1,255	8P4	3,172	1,442
Tr24x5	●	●	1,621	5	4,863	2,432

Dimensions [mm] - cylindrical design

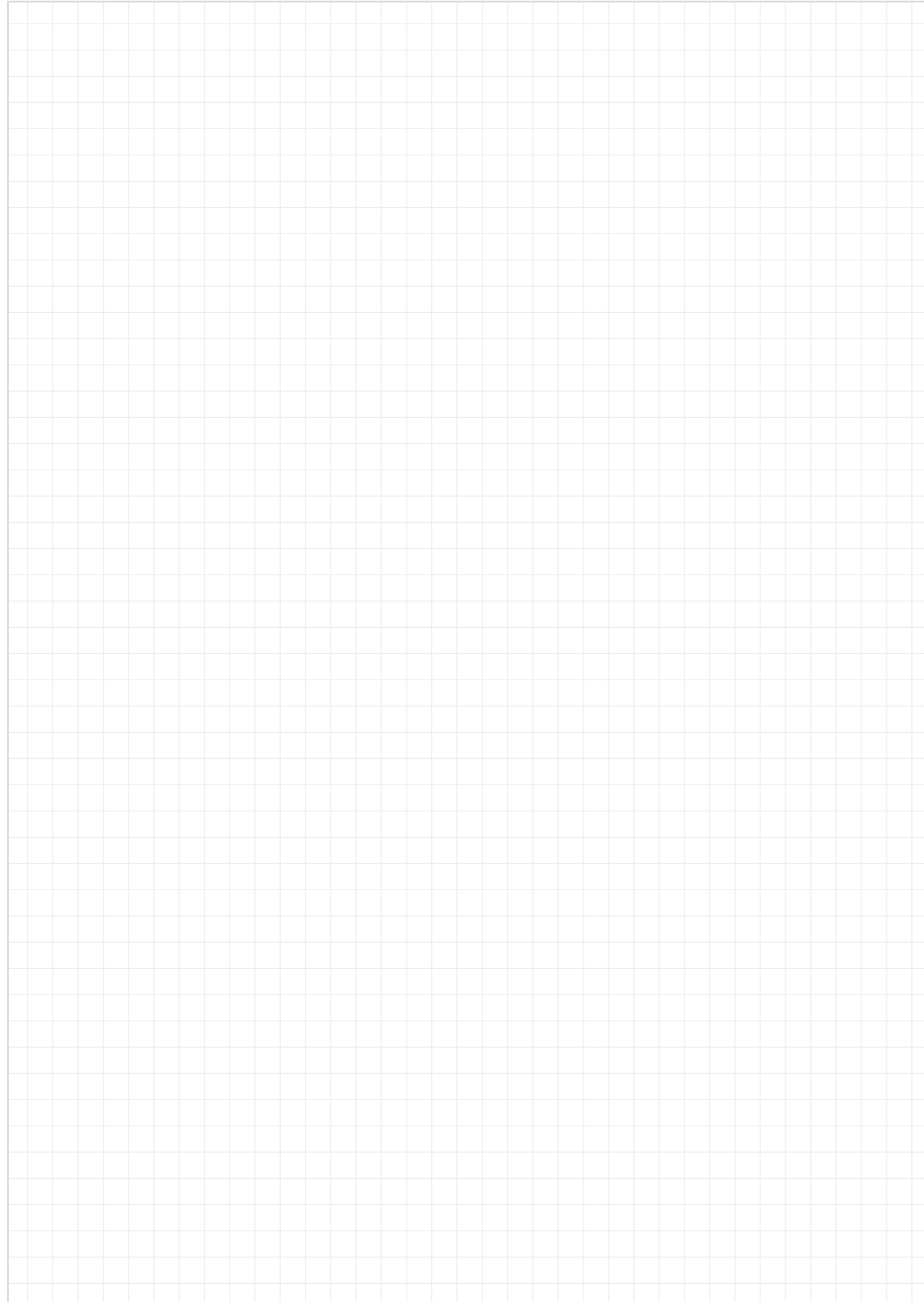
d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	b1 ¹⁵⁶⁾	Weight [g] iglidur®		Part No.
			J	R	
8	22	20	11.8	11.0	□SRM-AB-2220-TR8X1.5
10	22	20	11.0	10.2	□S□M-AB-2220-TR10X2
12	26	24	17.2	16.0	□SRM-AB-2624-TR12X3
16	36	32	44.8	41.9	□SRM-AB-3632-TR16X2 New
16	36	32	44.8	41.9	□SRM-AB-3632-TR16X4
18	40	36	59.7	55.8	□S□M-AB-4036-TR18X4
20	45	40	83.1	77.7	□S□M-AB-4540-TR20X4
24	50	48	112.1	104.8	□SRM-AB-5048-TR24X5

Dimensions [mm] - with flange

d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	Weight [g] iglidur®		Part No.
							J	R	
8	20	36	28	4	20	8	17.5	16.3	□FRM-AB-2020-TR8X1.5 New
10	25	42	34	5	25	10	28.9	27.0	□F□M-AB-2525-TR10X2
10	25	42	34	5	25	10	28.7	26.8	□FRM-AB-2525-TR10X3
12	28	48	35	5	35	12	30.3	28.3	□FRM-AB-2835-TR12X3
14	28	48	38	6	35	12	45.2	42.1	□F□M-AB-2835-TR14X4
16	28	48	38	6	35	12	45.0	42.0	□F□M-AB-2835-TR16X2
16	28	48	38	6	35	12	42.6	39.7	□F□M-AB-2835-TR16X4
18	28	48	38	6	35	12	43.5	40.5	□F□M-AB-2835-TR18X4
18	28	48	38	6	35	12	43.5	40.5	□FRM-AB-2835-TR18X8P4 New
20	32	55	45	7	44	12	62.5	58.3	□F□M-AB-3244-TR20X4
20	32	55	45	7	44	12	62.5	58.3	□FRM-AB-3244-TR20X8P4 New
24	32	55	45	7	44	12	49.7	46.4	□F□M-AB-3244-TR24X5

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

i Backlash is created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.



dryspin[®] lead screw technology - special designs and accessories

Linear module lead screw nuts

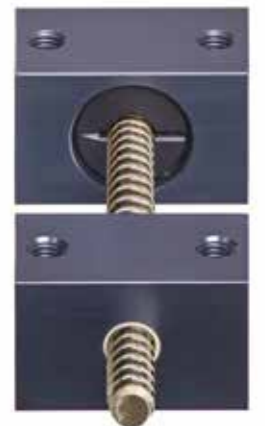
Angular compensation with spherical balls

With "Fast Forward" quick release mechanism

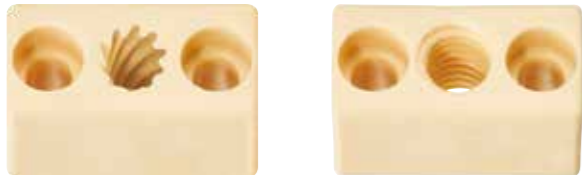
Split lead screw nuts

Lead screw support block

Clamping rings

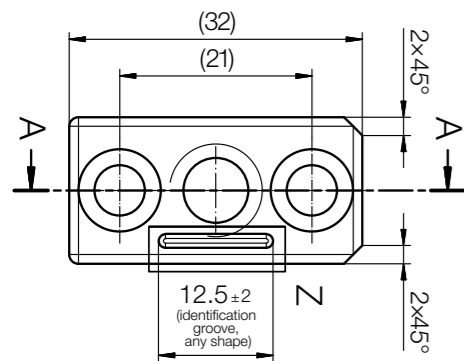


Square lead screw nuts



DST-SHT-1210

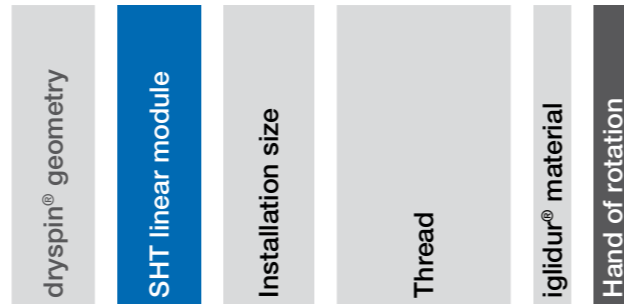
SHT-1210-TR



Order key

Order example

DST-SHT-1210-DS10x12-□-□



Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

Dimensions

Part No.	Direction of rotation		Thread d1xP	Max. stat. axial F [N]		Weight [g]		From SLW linear module
	Right	Left		J	A180	J	A180	
DST-SHT-1210-DS10x2-□-□	●	●	Ds10x2	750	750	10	10	SHT-12 ► Page 524
DST-SHT-1210-DS10x3-□-□	●	●	Ds10x3	1,000	1,000	10	10	SHT-12 ► Page 524
DST-SHT-1210-DS10x12-□-□	●	●	Ds10x12	700	700	10	10	SHT-12 ► Page 524
DST-SHT-1210-DS10x25-□-□	●	●	Ds10x25	625	625	10	10	SHT-12 ► Page 524
DST-SHT-1210-DS10x50-□-□	●	●	Ds10x50	370	370	10	10	SHT-12 ► Page 524
SHT-1210-DS10x2-□-□	●	●	Tr10x2	750	750	10	10	SHT-12 ► Page 524
SHT-1210-DS10x3-□-□	●	●	Tr10x3	910	910	10	10	SHT-12 ► Page 524

Part number suffix LH for left-hand thread, RH for right-hand thread

From SHT linear module SHT-12 ► Page 524

Assembly instructions ► Page 368

and ► www.igus.eu/dryspin-assembly-instructions

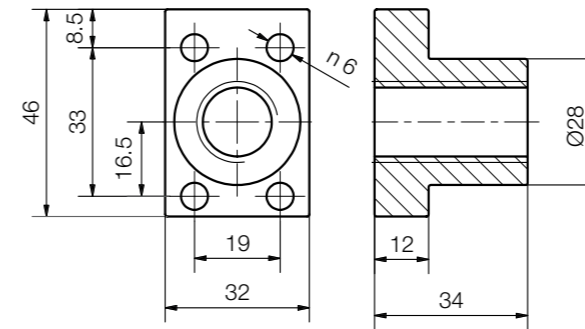


Lead screw nuts with flange



DST-SHT-2018

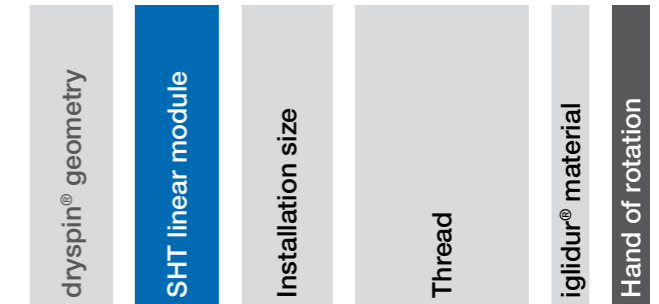
SHT-2018-TR



Order key

Order example

DST-SHT-2018-DS18x24- J -□



Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

Please note: not symmetrical

Dimensions

Part No.	Direction of rotation		Thread d1xP	Max. stat. axial F [N]		Weight [g]		From SLW linear module
	Right	Left		J	A180	J	A180	
DST-SHT-2018-DS18x4-□-□	●	●	Ds18x4	2,400	2,400	32	36	SHT-20 ► Page 524
DST-SHT-2018-DS18x24-□-□	●	●	Ds18x24	1,688	1,688	32	36	SHT-20 ► Page 524
DST-SHT-2018-DS18x40-□-□	●	●	Ds18x40	1,528	1,528	32	36	SHT-20 ► Page 524
DST-SHT-2018-DS18x80-□-□	●	●	Ds18x80	1,056	1,056	32	36	SHT-20 ► Page 524
DST-SHT-2018-DS18x100-□-□	●	●	Ds18x100	985	985	32	36	SHT-20 ► Page 524
SHT-2018-TR18x4-□-□	●	●	Tr18x4	2,400	2,400	32	36	SHT-20 ► Page 524
SHT-2018-TRM18x8P4-□-□	●	●	Tr18x8p4	1,960	1,960	32	36	SHT-20 ► Page 524

Part number suffix LH for left-hand thread, RH for right-hand thread

From SHT linear module SHT-20 ► Page 524

Assembly instructions ► Page 368

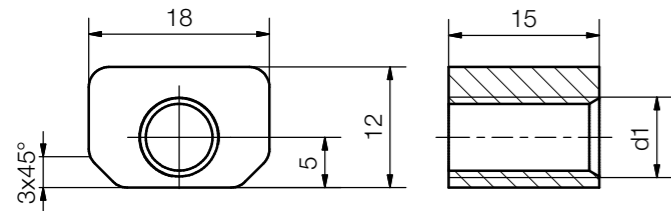
and ► www.igus.eu/dryspin-assembly-instructions



Lead screw nuts



DST-SLW-063001 SWZ-063009



Order key

Order example

DST-SLW-063001-DS8x10- J - □



Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand

Dimensions

Part No.	Direction of rotation		Thread d1xP	Max. stat. axial F [N]	Weight [g]	From SLW linear module
	Right	Left				
DST-SLW-063001-DS8X8-J-□ New	●	–	Ds8x8	150	3.5	SLW-0630 ▶ Page 538
DST-SLW-063001-DS8X10-□	●	●	Ds8x10	130	3.5	SLW-0630 ▶ Page 538
DST-SLW-063001-DS8X15-□	●	●	Ds8x15	140	3.5	SLW-0630 ▶ Page 538
SLW-063001-M8-J-□	●	●	M8	165	3.5	SLW-0630 ▶ Page 538
SLW-063001-TR8X1.5-J-□	●	●	Tr8x1.5	200	3.5	SLW-0630 ▶ Page 538

Part number suffix LH for left-hand thread, RH for right-hand thread

Partly reduced axial loads due to the component geometry

Assembly instructions ▶ Page 368
and ▶ www.igus.eu/dryspin-assembly-instructions

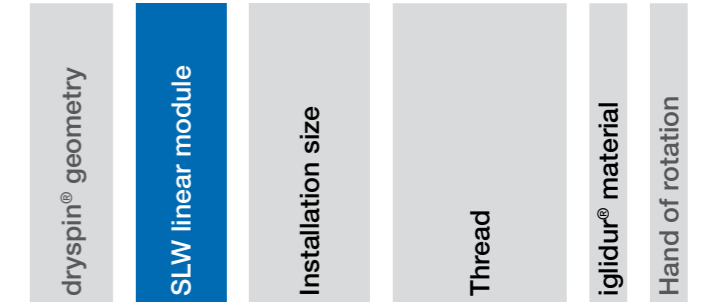
Lead screw nuts



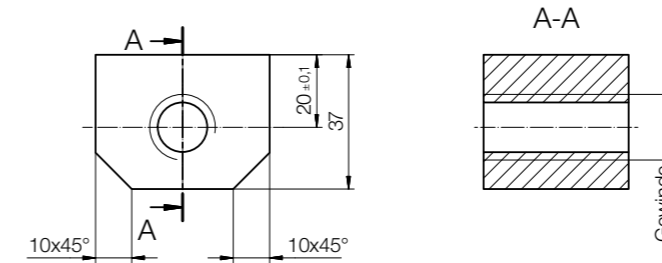
Order key

Order example

DST-SLW-25120-DS18x24- J - □



Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand



Dimensions

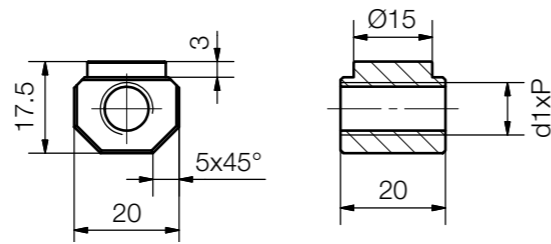
Part No.	Direction of rotation		Thread d1xP	Max. stat. axial F [N]	Weight [g]	From SLW linear module
	Right	Left				
DST-SLW-25120-DS18X4-J-□ New	●	●	Ds18x4	3,350	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS18X24-J-□	●	●	Ds18x24	2,330	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS18X40-J-□	●	●	Ds18x40	2,184	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS18X80-J-□	●	●	Ds18x80	1,506	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS18X100-J-□	●	●	Ds18x100	1,322	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X5-J-□ New	●	●	Ds20x5	4,200	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X10-J-□ New	●	●	Ds20x10	3,975	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X20-J-□ New	●	●	Ds20x20	2,460	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X50-J-□ New	●	●	Ds20x50	1,976	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X60-J-□ New	●	●	Ds20x60	1,656	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X80-J-□ New	●	●	Ds20x80	1,703	90	SLW-25120 ▶ Page 538
DST-SLW-25120-DS20X90-J-□ New	●	●	Ds20x90	1,656	90	SLW-25120 ▶ Page 538
SLW-25120-TR24X5-J-□ New	●	●	Tr24x5	5,403	90	SLW-25120 ▶ Page 538

Part number suffix LH for left-hand thread, RH for right-hand thread

Lead screw nuts with locating spigot



DST-SLW-1040 SWZ-W-10XX

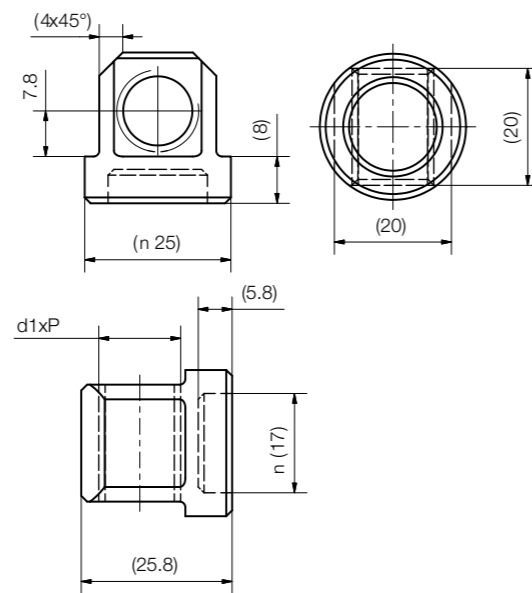


Dimensions

Part No.	Hand of rotation		Thread d1xP	Max. stat. axial F [N]	Weight [g]	From SLW linear module
	Right	Left				
DST-SLW-1040-DS10X2-J-□	New ●	●	Ds10x2	747	8	SLW-1040 ► Page 538
DST-SLW-1040-DS10X3-J-□	New ●	●	Ds10x3	1,005	8	SLW-1040 ► Page 538
DST-SLW-1040-DS10X12-J-□	●	●	Ds10x12	686	8	SLW-1040 ► Page 538
DST-SLW-1040-DS10X25-J-□	●	●	Ds10x25	623	8	SLW-1040 ► Page 538
DST-SLW-1040-DS10X50-J-□	●	●	Ds10x50	361	8	SLW-1040 ► Page 538
SLW-1040-TR10X2-J-□	●	●	Tr10x2	1,131	8	SLW-1040 ► Page 538
SLW-1040-TR10X3-J-□	●	●	TR10x3	1,068	8	SLW-1040 ► Page 538



SWZ-W-16XX

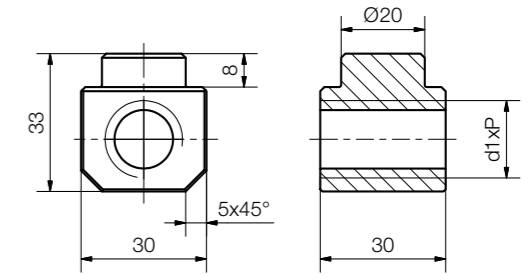


Dimensions

Part No.	Hand of rotation		Thread d1xP	Max. stat. axial F [N]	Weight [g]	From SLW linear module
	Right	Left				
DST-SLW-1660-DS14X4-J-□	●	●	Ds14x4	952	13	SLW-1660 ► Page 538
DST-SLW-1660-DS14X25-J-□	●	●	Ds14x25	825	13	SLW-1660 ► Page 538
DST-SLW-1660-DS14X30-J-□	●	●	Ds14x30	825	13	SLW-1660 ► Page 538
SLW-1660-TR14X3-J-□	●	●	Tr14x3	1,570	13	SLW-1660 ► Page 538
SLW-1660-TR14X4-J-□	●	●	Tr14x4	1,508	13	SLW-1660 ► Page 538



DST-SLW-2080 SWZ-W-20XX



SWZ-W-2080..

Part No.	Hand of rotation		Thread d1xP	Max. stat. axial F [N]	Weight [g]	From SLW linear module
	Right	Left				
DST-SLW-2080-DS18X4-J-□	New ●	●	Ds18x4	2,513	30	SLW-2080 ► Page 538
DST-SLW-2080-DS18X24-J-□	●	●	Ds18x24	1,747	30	SLW-2080 ► Page 538
DST-SLW-2080-DS18X40-J-□	●	●	Ds18x40	1,638	30	SLW-2080 ► Page 538
DST-SLW-2080-DS18X80-J-□	●	●	Ds18x80	1,130	30	SLW-2080 ► Page 538
DST-SLW-2080-DS18X100-J-□	●	●	Ds18x100	992	30	SLW-2080 ► Page 538
SLW-2080-TR18X4-J-□	●	●	Tr18x4	2,513	30	SLW-2080 ► Page 538
SLW-2080-TR18X8P4-J-□	●	●	Tr18x8P4	2,991	30	SLW-2080 ► Page 538

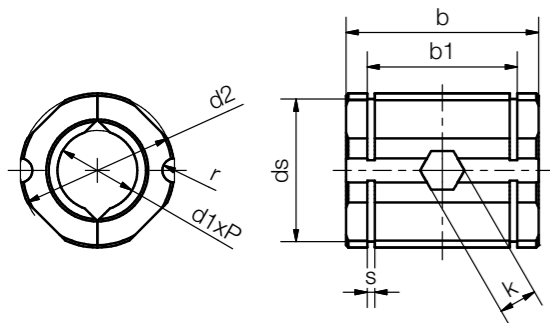
Split lead screw nuts made from iglidur® J



Order key

Part number	Dimension	Thread
J T R M- 22 30 -TR 10X2		
igidur® material	Split nut	
	Direction of rotation	
	Metric	
	d2	
	b1	
	Trapezoidal thread	
	Diameter [mm]	
	Pitch	

This part includes 2 nut halves and 1 piece nut each based on DIN 934 made from 304 stainless steel to prevent twisting



Technical data

Part No.	Max. axial load		Mounting with nut
	static ⁵⁰⁾ [N]	static ⁵¹⁾ [N]	
JTRM-2230TR10X2	300	500	DIN 934 M4
JTRM-3240TR20X4	1,000	1,500	M5
JTRM-3240TR20X8P4	1,000	1,500	M5

Dimensions [mm]

Thread	b	b1 ¹⁵⁶⁾	d2	ds	k	r	Øs	Part No.
Tr10x2	30	22.6	22	20.5	7	1.5	1.3	JTRM-2230TR10X2
Tr20x4	40	31.2	32	29.6	8	2.5	1.6	JTRM-3240TR20X4
Tr20x8P4	40	31.2	32	29.6	8	2.5	1.6	JTRM-3240TR20X8P4

⁵⁰⁾ Mounting in the housing via radially inserted nut DIN 934

⁵¹⁾ Mounting in the housing via circlips DIN471

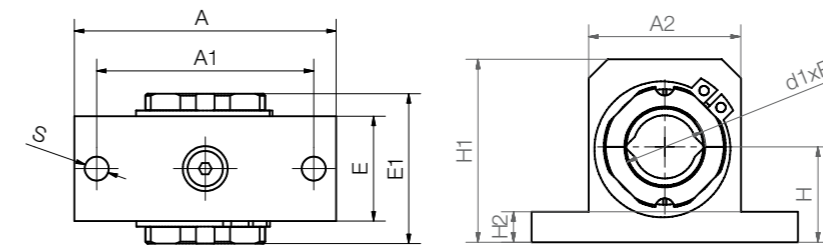
¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Also available with housing block



Order key

Part number	Thread
RG A S - J T R M-TR 10X2	
Linear housing	
Aluminium	
Small	
igidur® material	
Split nut	
Direction of rotation	
Metric	
Trapezoidal thread	
Diameter [mm]	
Pitch	



Technical data

Part No.	Nut	Locking ring
RGAS-JTRM-TR10X2	DIN 439 M4	DIN 471-A22
RGAS-JTRM-TR20X4	DIN 439 M5	DIN 471-A32
RGAS-JTRM-TR20X8P4	DIN 439 M5	DIN 471-A32

Dimensions [mm]

Thread	H	H1	H2	A	A1	A2	E	E1	S	Part No.
Tr10x2	18	35	6	52	42	30	20	32	5.3	RGAS-JTRM-TR10X2
Tr20x4	25	48	8	70	58	40	28	40	6.4	RGAS-JTRM-TR20X4
Tr20x8P4	25	48	8	70	58	40	28	40	6.4	RGAS-JTRM-TR20X8P4

Spherical lead screw nuts with spherical ball
in flanged bearing housing



Part number Thread

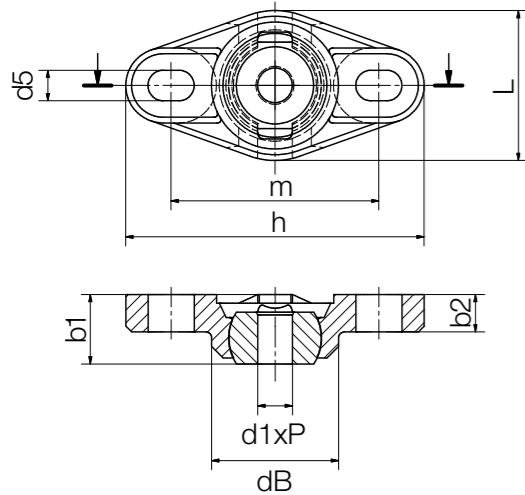
J F R K M-EFOM-TR 8X1.5

iglidur® material	Form F	Direction of rotation	K series	Metric	Flanged bearing housing	Trapezoidal thread	Diameter [mm]	Pitch
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Options:

DS: High helix thread

TR: Trapezoidal thread



Dimensions [mm] - trapezoidal thread

Thread	Effective support surface [mm²]	d1 ¹⁵⁶⁾	h	L	b1 ¹⁵⁶⁾	b2	m	dB	d5	Max. static, axial F [N]	Pivoting angle		Part No.
											stat.	dyn.	
Tr8x1.5	102	8	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR8X1.5
Tr10x2	127	10	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR10X2
Tr10x3	120	10	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR10X3

Dimensions [mm] - high helix thread

Thread	Effective support surface [mm²]	d1 ¹⁵⁶⁾	h	L	b1 ¹⁵⁶⁾	b2	m	dB	d5	Max. static, axial F [N]	Pivoting angle		Part No.
											stat.	dyn.	
Ds8x15	61	8	52	26	12	6.5	36	22.2	5.3x8	50	25°	30°	JFRKM-EFOM-DS8X15
Ds10x12	82	10	52	26	12	6.5	36	22.2	5.3x8	50	25°	30°	JFRKM-EFOM-DS10X12

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Spherical lead screw nuts with spherical ball
in pillow block bearing housing



Part number Thread

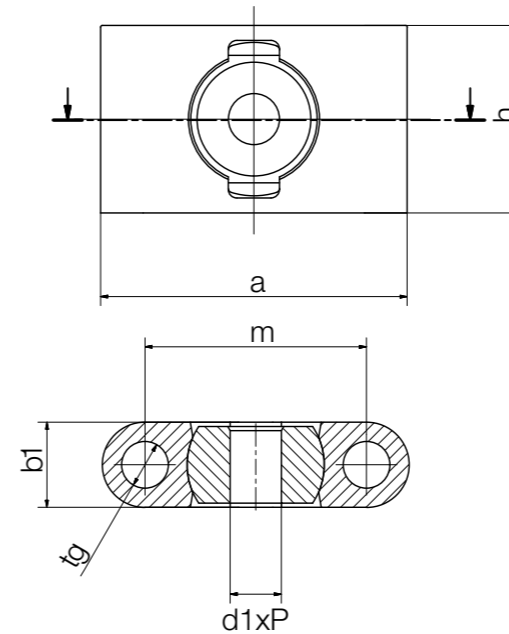
J F R K M-ESTM-TR 8X1.5

iglidur® material	Form F	Direction of rotation	K series	Metric	Pillow block bearing housing	Trapezoidal thread	Diameter [mm]	Pitch
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Options:

DS: High helix thread

TR: Trapezoidal thread



Dimensions [mm] - trapezoidal thread

Thread	Effective support surface [mm²]	h	a	b1 ¹⁵⁶⁾	m	tg	Max. static, axial F [N]	Pivoting angle		Part No.
								stat.	dyn.	
Tr8x1.5	102	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR8X1.5
Tr10x2	127	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR10X2
Tr10x3	120	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR10X3

Dimensions [mm] - high helix thread

Thread	Effective support surface [mm²]	h	a	b1 ¹⁵⁶⁾	m	tg	Max. static, axial F [N]	Pivoting angle		Part No.
								stat.	dyn.	
Ds8x15	61	22	36	10	26	5.5	50	25°	30°	JFRKM-ESTM-DS8X15
Ds10x12	82	22	36	10	26	5.5	50	25°	30°	JFRKM-ESTM-DS10X12

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

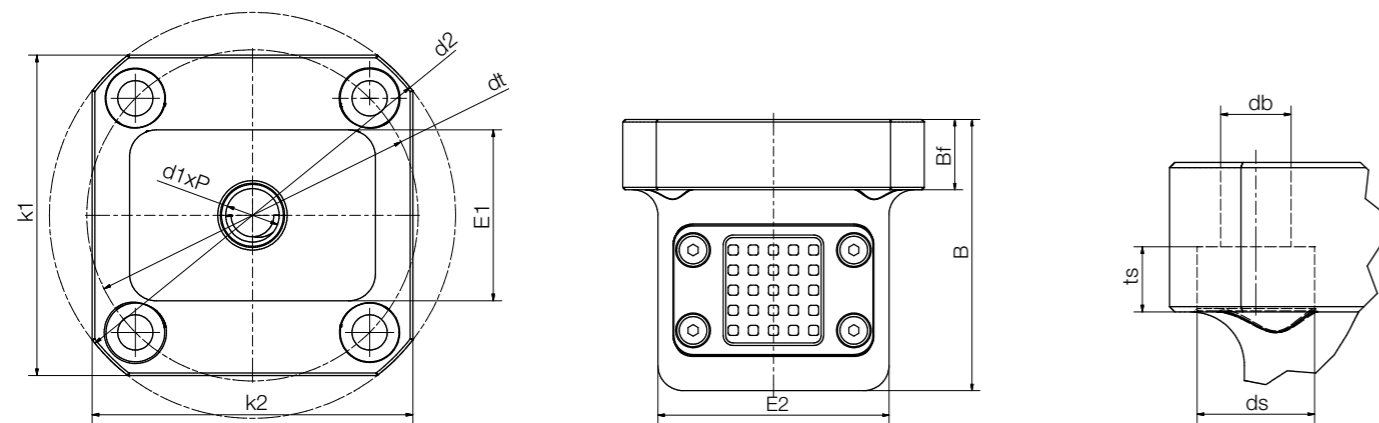
Part number Thread

F T R M-FF-10X2

Form F	Trapezoidal thread	Direction of rotation	Metric	Fast Forward	Diameter	Pitch
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Quick release mechanism: a combination of accurate positioning and fast manual adjustment with trapezoidal lead screw nuts.

- For quick format adjustments
- Incl. "stop/go" through automatic self-locking with thread
- Housing: AL anodised, lead screw nut made from iglidur® J
- Tough and reliable
- Only recommended for horizontal applications
- Max. axial load stat.: 200N, dyn.: 50N
see SHT-FF ► **Page 533**



Dimensions [mm]

Thread	d2 ¹⁵⁶⁾	dt	B	Bf	ts	db	ds	k1	k2	E1	E2	Part No.
Tr10x2	76	62	54	14	6.1	6.6	11	60	60	32	46	FTRM-FF-10X2

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

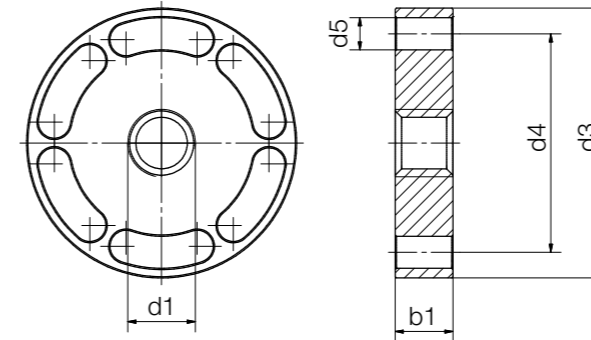


Order key

Type d3 b1 Thread

J D R M-4209TR10X2

iglidur® material	Form: disc	Direction of rotation	Metric	Outer Ø [mm]	Height [mm]	Trapezoidal thread	Diameter	Pitch
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Material properties:
iglidur® J ► www.igus.eu/J-material

Technical data and dimensions [mm]

Thread	Effective supporting surface [mm²]	Max. stat. axial F ⁴⁹⁾ [N]	d1 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	Weight [g]	Part No.
Tr10x2	127	508	10	42	34	5	9	17.5	JDRM-4209TR10X2
Tr12x3	181	724	12	48	38	6	11	27.8	JDRM-4811TR12X3
Tr14x4	207	828	14	48	38	6	11	27.1	JDRM-4811TR14X4
Tr16x4	241	964	16	48	38	6	11	26.4	JDRM-4811TR16X4
Tr18x4	276	1,104	18	48	38	6	11	25.5	JDRM-4811TR18X4
Tr20x4	367	1,468	20	55	45	7	13	39.9	JDRM-5513TR20X4
Tr24x5	439	1,756	24	55	45	7	13	37.3	JDRM-5513TR24X5
Tr30x6	551	2,204	30	62	50	7	14	48.2	JDRM-6214TR30X6
Tr36x6	829	3,316	36	70	58	7	16	67.5	JDRM-7016TR36X6

⁴⁹⁾ Max. stat. F axial can be added when used with flange nut

¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® | Special geometries | Product range

Assembled dryspin® lead screw nut housing, including lead screw nut



Order key

Part number

MH-1210-AL-TR10X2-R-J

Lead screw nut housing without nut	Lead screw nut design (see drawing)	Aluminium	Thread size	Right-hand thread	iglidur® J nut
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Order key

Part number

MHM-1210-AL-TR10X2-R-J

Lead screw nut housing with nut	Lead screw nut design (see drawing)	Aluminium	Thread size	Right-hand thread	iglidur® J nut
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- Standard lead screw nuts secured with fixing screws
- Can be fixed from above
- One housing is suitable for many thread geometries
- Limitless combinations

i Please use MHM (assembled lead screw nut housing, including lead screw nut) for fully assembled systems. Order example: **MHM-1210-AL-TR10x2-R-J**

MHM-2835-AL-□ / MHM-3244-AL-□



MHM-2018-AL-□



MHM-ZB0810-AL-□



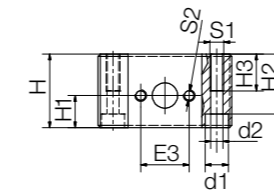
MHM-1210-AL-□



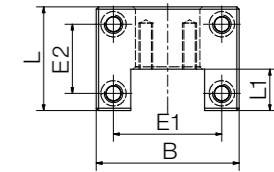
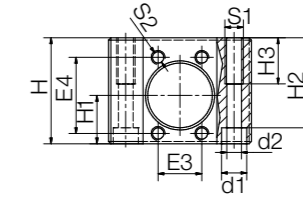
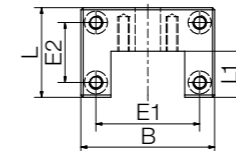
dryspin® | Special geometries | Product range

dryspin® lead screw nut housings and lead screw nuts as an individual part

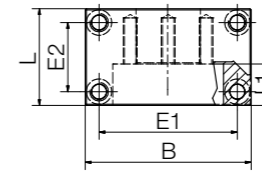
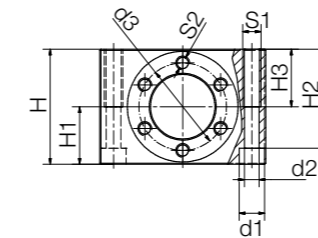
MH-1210-AL



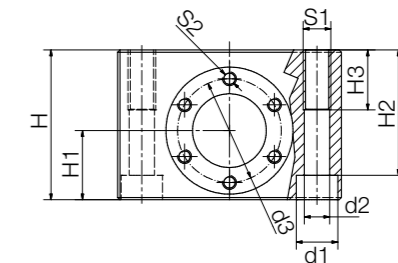
MH-2018-AL



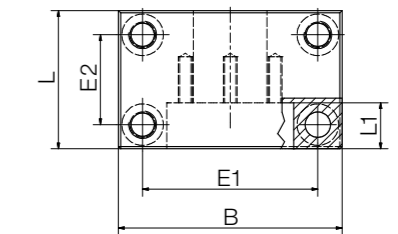
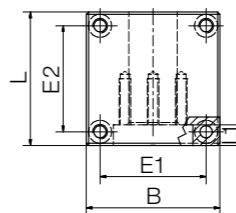
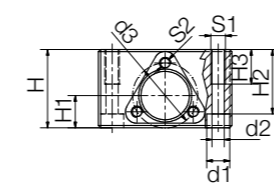
MH-2835-AL



MH-3244-AL



MH-ZB0810-AL



Dimensions [mm]

Part No.	H	H1	H2	H3	S1	S2	B	L	L1	E1	E2	E3	E4	d1	d2	d3	Can be combined with laser sintering
							±0.3	±0.3		±0.15	±0.15						
MH-1210-AL	32	14	26	16	M6	M5	58	39	20	45	26	21	-	10	5.3	-	●
MH-2018-AL	46	21	39	20	M8	M6	62	45	18	47	30	19	33	11	6.4	-	●
MH-2835-AL	50	25	43	25	M8	M6	72	42	18	60	30	-	-	11	6.4	38	
MH-3244-AL	65	30	54.4	26	M12	M6	97	60	20	76	39	-	-	18	11	45	●
MH-ZB0810-AL	34	14	28	15	M6	M5	58	34	9	46	46	-	-	10	5.3	28.2	●

Part No.	Lead screw nut design	Thread size DS	Thread size TR
MH-1210-AL	□-SHT-1210-□	Ds10x2 / Ds10x3 / Ds10x12 / Ds10x25 / Ds10x50	Tr10x2 / Tr10x3
MH-2018-AL	□-SHT-2018-□	Ds18x4 / Ds18x24 / Ds18x40 / Ds18x80 / Ds18x100	Tr18x4 / Tr18x8P4
MH-2835-AL	□FRM-2835	Ds12x3 / Ds12x5 / Ds12x25 / Ds14x4 / Ds16x5 / Ds16x10 / Ds18x4 / Ds18x24 / Ds18x40 / Ds18x80 / Ds18x100	Tr12x3 / Tr12x6P3 / Tr14x3 / Tr14x4 / Tr16x2 / Tr16x4 / Tr16x8P4 / Tr18x4 / Tr18x8P4
MH-3244-AL	□FRM-3244	Ds20x5 / Ds20x10 / Ds20x20 / Ds20x50 / Ds20x60 / Ds20x80 / Ds20x90	Tr20x4 / Tr20x8P4 / Tr24x5
MH-ZB0810-AL	Zero-Backlash	Ds8x8 / Ds8x10 / Ds8x15 / Ds8x24 / Ds8x40 / Ds10x12 / Ds10x25 / Ds10x50	-



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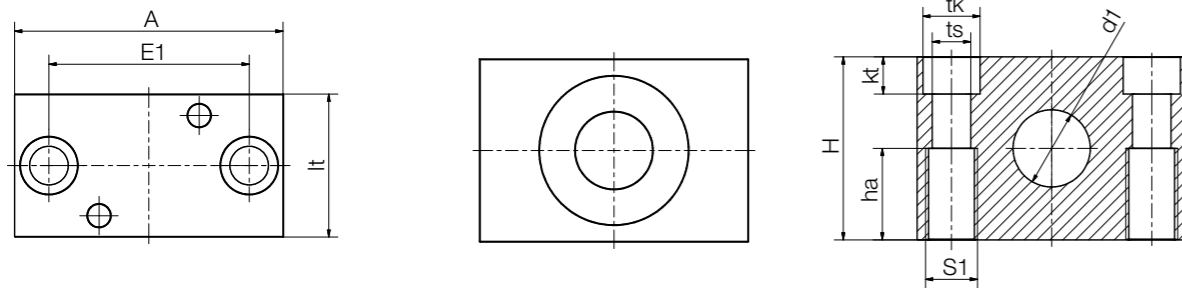


Scope of delivery: Anodised lead screw support block

FL: Fixed bearing with anodised clamping ring with RH thread (standard) and maintenance-free iglidur® plain bearing⁵²⁾

LL: Floating bearing with lubrication-free iglidur® plain bearing

Fixed bearing



Technical data and dimensions [mm] - (for both right and left-hand threads)

Part No.	Weight [g]	Max. static load capacity axial [N]	S1	S2	S3
SLS-10X2-FL (-LH)	88	700	M8	-	-
SLS-10X2-LL	115	-	M8	M4	M6
SLS-10X3-FL (-LH)	88	700	M8	-	-
SLS-10X3-LL	115	-	M8	M4	M6
SLS-12X3-FL	205	1,600	M12	-	-
SLS-12X3-LL	295	-	M12	M4	M6
SLS-14X3-FL	205	1,600	M12	-	-
SLS-14X3-LL	295	-	M12	M4	M6

⁵²⁾ FL lead screw support block with trapezoidal thread TR10x2, TR10x3, TR18x4, TR24x5 lead screw also available with clamping rings with left-hand thread

⁵³⁾ Can exceed max. stat. load of the lead screw nut

⁵⁴⁾ Lead screw end must be turned to d1 value

⁵⁵⁾ Lead screw end must be turned to 18mm



Order key

Part No.	Thread	Options
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SLS - 10X2 - FL - LH

Lead screw support block	Diameter	Pitch	Fixed bearing	Option left-hand thread
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Options:

FL: Fixed bearing

LL: Floating bearing

LH: Left-hand thread option only for Tr10x2, Tr10x3, Tr18x4, Tr24x5



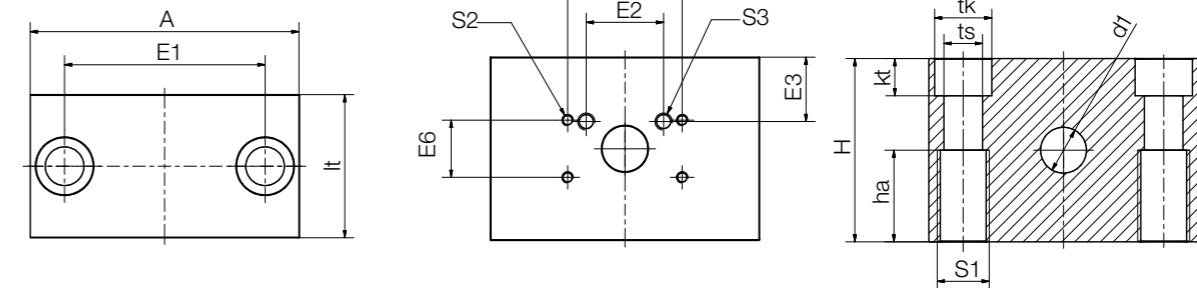
Order key

Part No.	Options
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SLS - S6 - FL

Lead screw support block	Lead screw/machined end outer diameter	Fixed bearing
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Floating bearing



Dimensions [mm] - (for both right and left-hand threads)

A	H	E1	E2	E3	E5	E6	lt	kt	tk	ts	d1	ha
50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
72	46	54	-	-	-	-	36	8.6	15	9	12	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
72	46	54	-	-	-	-	36	8.6	15	9	14	23
72	46	54	27	13.5	40	20	36	8.6	15	9	14	23

Technical data and dimensions [mm] - (for both right and left-hand threads)

Part No.	Weight [g]	Max. static load capacity axial [N]	S1	S2	S3
SLS-14X4-FL	205	1,600	M12	-	-
SLS-14X4-LL	295	-	M12	M4	M6
SLS-16X2-FL	205	1,600	M12	-	-
SLS-16X2-LL ⁵⁴⁾	295	-	M12	M4	M6
SLS-16X4-FL	205	1,600	M12	-	-
SLS-16X4-LL ⁵⁴⁾	295	-	M12	M4	M6
SLS-18X4-FL-(LH)	205	1,600	M12	-	-
SLS-18X4-LL ⁵⁴⁾	295	-	M12	M4	M6
SLS-18X8P4-FL	205	1,600	M10	-	-
SLS-18X8P4-LL ⁵⁴⁾	295	-	M10	M4	M6
SLS-20X4-FL	525	2,500	M16	-	-
SLS-20X4-LL	725	-	M16	M4	M6
SLS-24X5-FL-(LH)	525	2,500	M16	-	-
SLS-24X5-LL ⁵⁴⁾	725	-	M16	M4	M6
Lead screw support blocks with plain bearings (clamping rings without thread) Suitable for both right and left-hand threads					
SLS-S6-FL	115	-	M8	-	-
SLS-S6-LL ⁵⁴⁾	88	150	M8	M4	M6
SLS-S6.35-FL	115	-	M8	-	-
SLS-S6.35-LL ⁵⁴⁾	88	150	M8	M4	M6
SLS-S8-FL	115	-	M8	-	-
SLS-S8-LL ⁵⁴⁾	88	500	M8	M4	M6
SLS-S10-FL	88	700	M8	-	-
SLS-S10-LL ⁵⁴⁾	115	-	M8	M4	M6
SLS-S12-FL	205	1,600	M10	-	-
SLS-S12-LL ⁵⁴⁾	295	-	M10	M4	M6
SLS-S14-FL	205	1,600	M10	-	-
SLS-S14-LL ⁵⁴⁾	295	-	M10	M4	M6
SLS-S16-FL	205	1,600	M10	-	-
SLS-S16-LL ⁵⁴⁾	295	-	M10	M4	M6
SLS-S18-FL	205	1,600	M10	-	-
SLS-S18-LL ⁵⁴⁾	295	-	M10	M4	M6
SLS-S20-FL	525	2,500	M16	-	-
SLS-S20-LL ⁵⁴⁾	725	-	M16	M4	M6

⁵³⁾ Can exceed max. stat. load of the lead screw nut

⁵⁴⁾ Lead screw end must be turned to d1 value

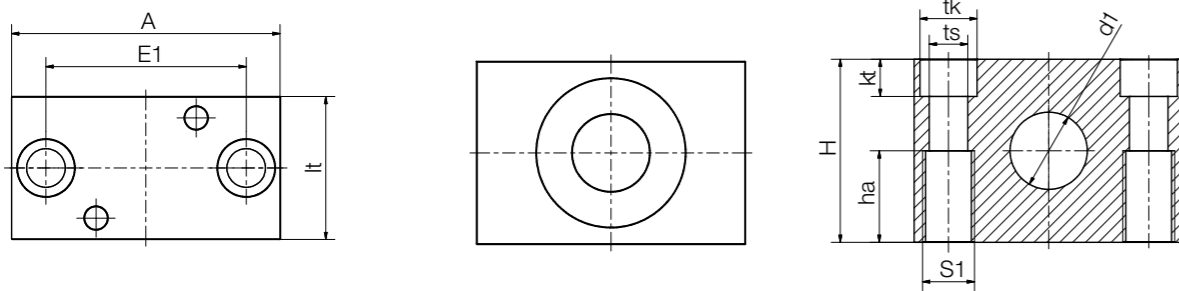
⁵⁵⁾ Lead screw end must be turned to 18mm

A	H	E1	E2	E3	E5	E6	lt	kt	tk	ts	d1	ha
72	46	54	-	-	-	-	36	8.6	15	9	14	23
72	46	54	27	13.5	40	20	36	8.6	15	9	14	23
72	46	54	-	-	-	-	36	8.6	15	9	16	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
72	46	54	-	-	-	-	36	8.6	15	9	16	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
72	46	54	-	-	-	-	36	8.6	15	9.0	18	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	18	23
72	46	54	-	-	-	-	36	8.6	15	9.0	18	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	18	23
94	64	70	-	-	-	-	50	13	20	13.5	20	32
94	64	70	27	22.5	40	20	50	13	20	13.5	20	32
94	64	70	-	-	-	-	50	13	20	13.5	24	32
94	64	70	27	22.5	40	20	50	13	20	13.5	24	32
50	32	36	-	-	-	-	30	6.5	11	6.6	6	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	6	16
50	32	36	-	-	-	-	30	6.5	11	6.6	6.35	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	6.35	16
50	32	36	-	-	-	-	30	6.5	11	6.6	8	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	8	16
50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
72	46	54	-	-	-	-	36	8.6	15	9.0	12	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
72	46	54	-	-	-	-	36	8.6	15	9.0	14	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	14	23
72	46	54	-	-	-	-	36	8.6	15	9.0	16	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	16	23
72	46	54	-	-	-	-	36	8.6	15	9.0	18	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	18	23
94	64	70	-	-	-	-	50	13.0	20	13.5	20	32
94	64	70	27	22.5	40	20	50	13.0	20	13.5	20	32



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Fixed bearing



Technical data and dimensions, ball bearing [mm]

Part No.	Weight [g]	Max. static load capacity axial [N]	S1	S2
SLS-S6-BB	110	150	M8	M4
SLS-S6.35-BB	110	150	M8	M4
SLS-S8-BB	110	350	M8	M4
SLS-S10-BB	110	350	M8	M4
SLS-S12-BB	265	1,000	M12	M4
SLS-S14-BB	265	1,000	M12	M4
SLS-S16-BB	265	1,000	M12	M4
SLS-S18-BB	265	1,000	M12	M4
SLS-S20-BB	350	1,500	M16	M4
SLS-10X2-BB	110	350	M8	M4
SLS-10X3-BB	110	350	M8	M4
SLS-12X3-BB	265	1,000	M12	M4
SLS-14X4-BB	265	1,000	M12	M4
SLS-16X2-BB	265	1,000	M12	M4
SLS-16X4-BB	265	1,000	M12	M4
SLS-18X4-BB	265	1,000	M12	M4
SLS-18X8P4-BB	265	1,000	M10	M4
SLS-20X4-BB	350	1,500	M16	M4
SLS-24X5-BB	350	1,500	M16	M4

⁵⁵⁾ Lead screw end must be turned to 18mm

Order key

Part No.	Thread	Options
SLS - 10X2 - BB		
Lead screw support block	Diameter	Pitch
		Ball bearing

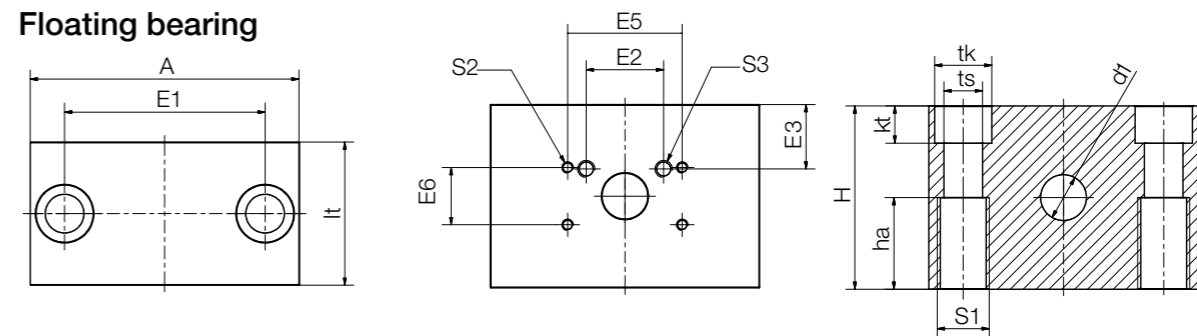
Options:
BB: Ball bearings
FL: Fixed bearing
LL: Floating bearing

Order key

Part No.	Options
SLS - S6 - BB	
Lead screw support block	Lead screw/machined end outer diameter
	Ball bearing

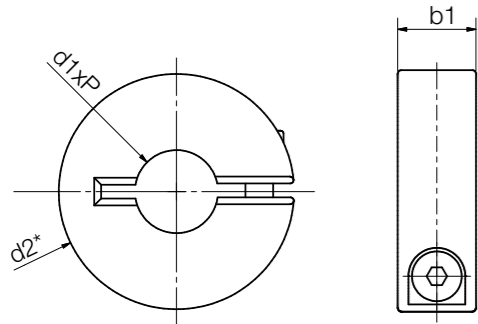
Options:
BB: Ball bearings
FL: Fixed bearing
LL: Floating bearing

Floating bearing



Dimensions, ball bearing [mm]

A	H	E1	E5	E6	lt	kt	tk	ts	d1	ha
50	32	36	40	20	30	6.5	11	6.6	6	16
50	32	36	40	20	30	6.5	11	6.6	6.35	16
50	32	36	40	20	30	6.5	11	6.6	8	16
50	32	36	40	20	30	6.5	11	6.6	10	16
72	46	54	48	36	36	8.6	15	9.0	12	23
72	46	54	48	36	36	8.6	15	9.0	14	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	18	23
94	64	70	48	36	50	13.0	20	13.5	20	32
50	32	36	40	20	30	6.5	11	6.6	10	16
50	32	36	40	20	30	6.5	11	6.6	10	16
72	46	54	48	36	36	8.6	15	9.0	12	23
72	46	54	48	36	36	8.6	15	9.0	14	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	18	23
72	46	54	48	36	36	8.6	15	9.0	18	23
94	64	70	48	36	50	13.0	20	13.5	20	32
94	64	70	48	36	50	13.0	20	13.5	24	32



Order key

Part number Thread

CR R -01-TR 10X2

Clamping ring	Direction of rotation	Type	Trapezoidal thread	Diameter	Pitch
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Dimensions [mm]

Thread	d2 ⁵⁶⁾	b1	Part No.
	h9		Right-hand thread
Tr8x1.5	16	9	CRR-01-TR8X1.5
Tr10x2	24	8	CRR-01-TR10X2
Tr12x3	28	8	CRR-01-TR12X3
Tr14x4	30	11	CRR-01-TR14X4
Tr16x2	34	11	CRR-01-TR16X2 New
Tr16x4	34	11	CRR-01-TR16X4
Tr18x4	36	13	CRR-01-TR18X4
Tr20x4	45	15	CRR-01-TR20X4
Tr24x5	45	15	CRR-01-TR24X5
Tr26x5	45	15	CRR-01-TR26X5 New
Tr30x6	54	15	CRR-01-TR30X6 New

Thread	d2 ⁵⁶⁾	b1	Part No.
	h9		Left-hand thread
Tr8x1.5	16	9	CRL-01-TR8X1.5
Tr10x2	24	8	CRL-01-TR10X2
Tr10x3	24	8	CRL-01-TR10X3 New
Tr12x3	28	8	CRL-01-TR12X3
Tr14x4	30	11	CRL-01-TR14X4
Tr16x4	34	11	CRL-01-TR16X4
Tr18x4	36	13	CRL-01-TR18X4
Tr20x4	45	15	CRL-01-TR20X4
Tr24x5	45	15	CRL-01-TR24X5
Tr26x5	45	15	CRL-01-TR26X5 New
Tr30x6	54	15	CRL-01-TR30X6 New

⁵⁶⁾ Clamping ring outer dimension. Screw head may protrude. Installation dimension d2 (+2mm)

Dimensions [mm] - clamping ring without thread

Ø	d2	b1	Part No.
6	14	8	KRM-S6-V New
6.35	14	8	KRM-S6.35-V New
8	14	8	KRM-S-8-V New
10	24	8	KRM-S10-V
12	28	11	KRM-S12-V
14	30	11	KRM-S14-V
16	34	11	KRM-S16-V
18	36	13	KRM-S18-V
20	45	15	KRM-S20-V New
24	45	15	KRM-S24-V
30	54	15	KRM-S30-V New

