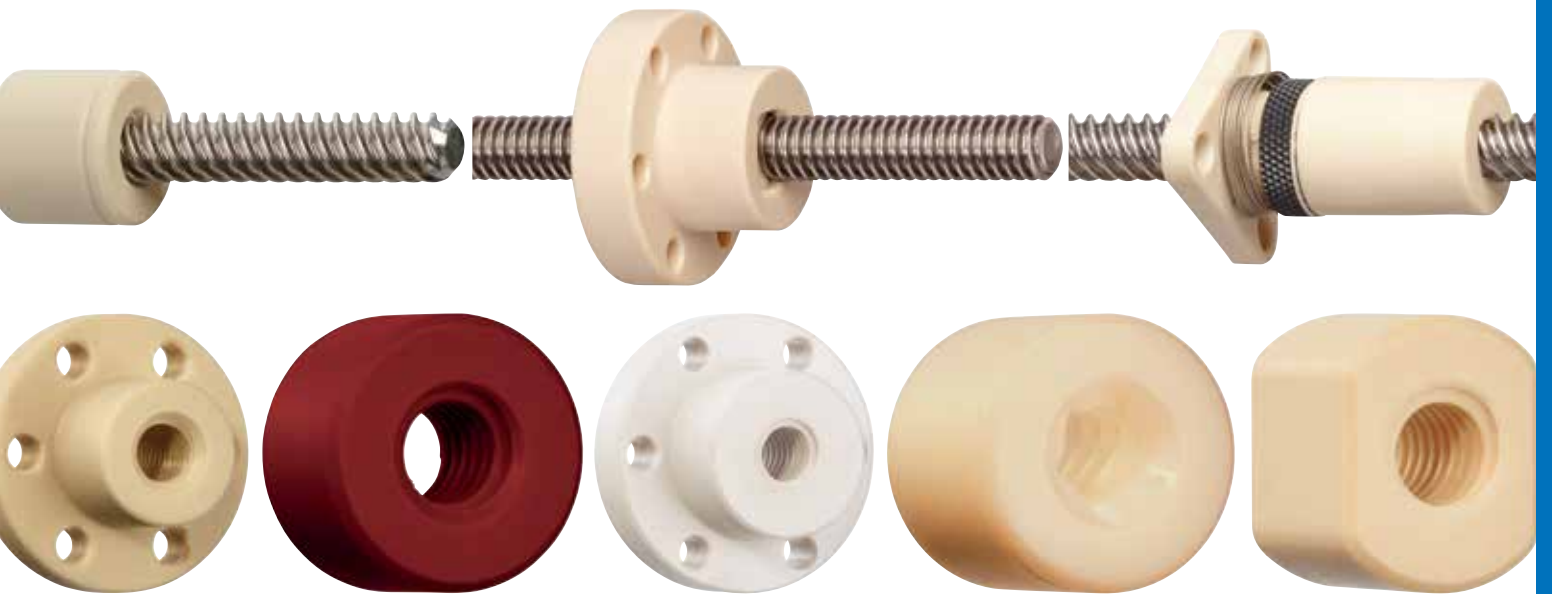


drylin®

Lead screw technology



...plastics

drylin® lead screw technology | Product Overview

drylin® lead screw technology - high helix thread with dryspin® technology



High helix lead screws made of stainless steel and aluminum

► Page 1434



High helix lead screws with right/left opposite drive

► Page 1436



Sleeve lead screw nuts

► Page 1442



Sleeve lead screw nuts with spanner flat

► Page 1442



Lead screw nuts with flange

► Page 1446

drylin® lead screw technology - trapezoidal and metric threads



Lead screws C15

► Page 1466



Lead screws stainless steel

► Page 1466



Lead screws aluminum

► Page 1466



Lead screws with machined ends

► Page 1466

drylin® lead screw technology - trapezoidal and metric threads



Single start sleeve lead screw nuts

► Page 1480



Multi start sleeve lead screw nuts

► Page 1484



Sleeve lead screw nuts with spanner flat

► Page 1486



Single start lead screw nuts with flange

► Page 1488

drylin® lead screw technology - trapezoidal and metric threads



Cost-effective injection molded, lead screw nuts with flange

► Page 1498



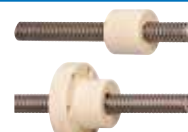
Cost-effective metric thread cut, lead screw nuts, sleeve or flange

► Page 1500



Cost-effective metric injection molded, lead screw nuts, sleeve or flange

► Page 1502



Anti-backlash lead screw nuts

► Page 1504

drylin® lead screw technology - ACME threads



Lead screws - ACME Stainless steel

► Page 1534



ACME Sleeve lead screw nuts Variety of materials available

► Page 1538



ACME lead screw nuts with flange iglide® J

► Page 1540



ACME lead screw nuts with flange iglide® J4

► Page 1544



Lead screw nuts with spanner flat, with flange

► Page 1448



Cost-effective injection-molded lead screw nuts, sleeve

► Page 1450



Cost-effective injection-molded lead screw nuts with flange

► Page 1452



Lead screw nuts with radial preload iglide® J

► Page 1454



Lead screw nuts, zero-backlash iglide® J

► Page 1456



Multi start trapezoidal lead screws

► Page 1468



LH/RH lead screws

► Page 1472



Metric lead screws

► Page 1474



TR Multi start lead screw nuts with flange

► Page 1490



Lead screw nuts with spanner flat, with flange

► Page 1492



Metric lead screw nuts right hand thread

► Page 1494



Cost-effective injection molded, sleeve lead screw nuts

► Page 1496



Flange lead screw nuts with preload

► Page 1506



ACME lead screw mount nuts, sleeve

► Page 1536



ACME lead screw mount nuts, flange

► Page 1537



ACME Lead screw nuts with spanner flat, with flange

► Page 1542

drylin® lead screw technology - Special designs



Split lead screw nuts made from iglide® J

► Page 1508



Lead screw nuts for linear actuators

► Page 1510



Lead screw nuts with locating feature

► Page 1514

drylin® lead screw technology - Special designs



Lead screw nut housings

► Page 1520



Lead screw support blocks

► Page 1522



Lead screw supports with ball bearings

► Page 1526



Clamping rings

► Page 1528



Spherical lead screw nuts in flanged bearing housing

► Page 1516



Spherical lead screw nuts in pillow block bearing housing for misalignments

► Page 1517



Lead screw nuts with quick-release

► Page 1518

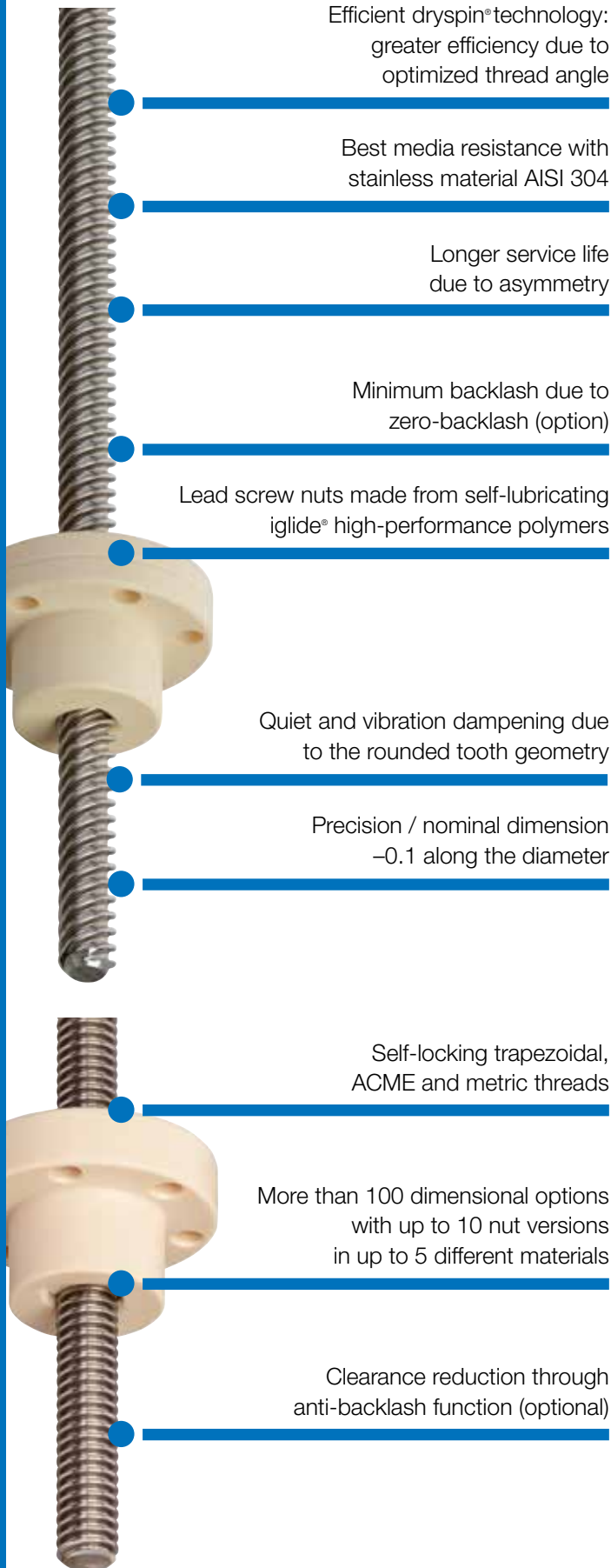


drylin® discs, made from iglide® J

► Page 1519

drylin® lead screw technology | Advantages

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



Efficient dryspin® technology:
greater efficiency due to
optimized thread angle

Best media resistance with
stainless material AISI 304

Longer service life
due to asymmetry

Minimum backlash due to
zero-backlash (option)

Lead screw nuts made from self-lubricating
iglide® high-performance polymers

Quiet and vibration dampening due
to the rounded tooth geometry

Precision / nominal dimension
-0.1 along the diameter

Self-locking trapezoidal,
ACME and metric threads

More than 100 dimensional options
with up to 10 nut versions
in up to 5 different materials

Clearance reduction through
anti-backlash function (optional)

Self-lubricating drylin® lead screw technology

Lead screw drives are machine elements that convert rotary movement into linear motion. drylin® 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® high helix threads
- Self-locking trapezoidal, ACME and metric threads
- Maintenance-free dry operation
- Silent
- 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. +302°F (+150°C)

Min. -4°F (-20°C)



Service life calculation

► www.igus.com/drylin-expert



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

High helix threads with dryspin® technology



High helix lead screws

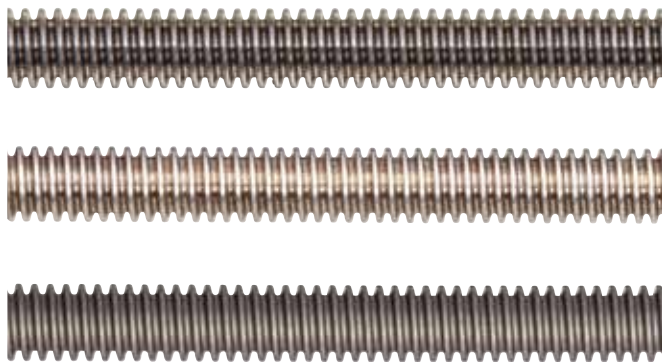
- Material: stainless steel or anodized aluminum
 - Better efficiency due to optimized thread angle
 - Quiet due to rounded tooth geometry
 - Long service life due to asymmetric dryspin® geometry
- From page 1434



High helix lead screw nuts

- Self-lubricating lead screw nuts made from 5 materials
 - Types: sleeve, with flange or spanner flat
 - Reduced clearance through zero-backlash
- From page 1442

Self-locking trapezoidal and metric threads



Trapezoidal, ACME and metric lead screws

- Material: steel, stainless steel or anodized aluminum
 - Product range from M3 to Tr50x8, ACME 1/4" - 1.25"
 - Multi start lead screws and right/left opposite drive available
- From page 1466



Trapezoidal and metric lead screw nuts

- Self-lubricating lead screw nuts made from 6 materials
 - Types: sleeve, with flange or spanner flat
 - Clearance reduction via anti-backlash feature
- From page 1480



Special designs

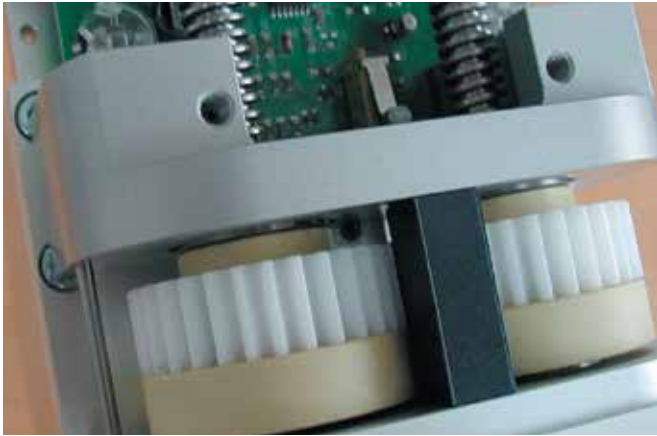
- Lead screw nuts for drylin® linear modules, with flange or locating spigot
 - Split and misalignment lead screw nuts with housing
 - Disc for customized clearance adjustment
 - Fast-Forward quick release nut for fast adjustment
- From page 1507



Lead screw technology accessories

- Nut housing for drylin® lead screw nuts
 - Anodized lead screw support blocks, on plain or ball bearings
 - Clamping ring for securing lead screw
- From page 1522

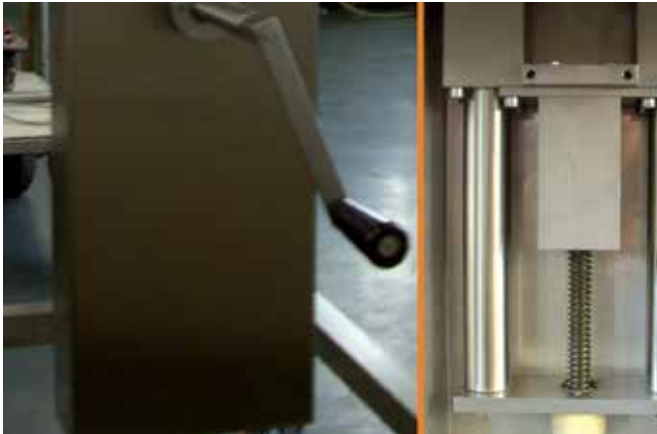
drylin® lead screw technology | Application examples



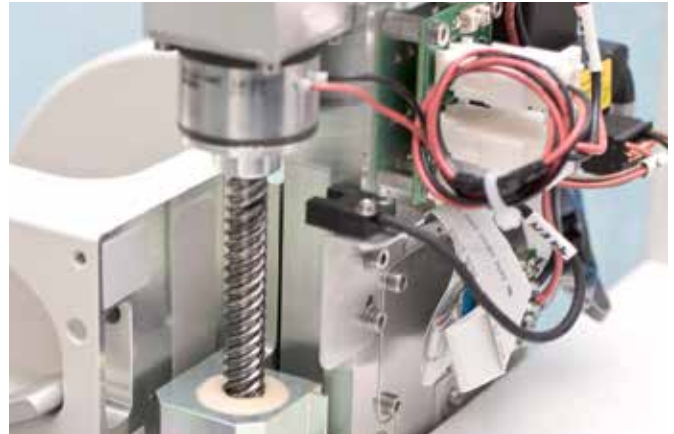
This mixing station uses two drylin® trapezoidal lead screw nuts made from iglide® high-performance polymers for the optimal mixing ratio of a two-component silicone mass.



The customer was looking for a cost-effective, lightweight and maintenance-free standard solution for small installation space. Costs and weight could be reduced thanks to the self-lubricating products from igus®.



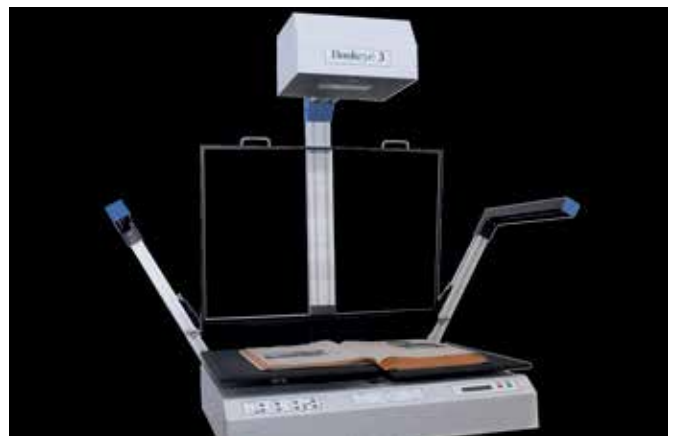
iglide® J plain bearings for shaft guides and drylin® trapezoidal lead screw nuts for the height adjustment.



Clean use of self-lubricating drylin® trapezoidal lead screw nuts in a piece of laboratory equipment for liquid handling.



drylin® lead screw drives are used for feed mechanisms. In this, the customer combines a trapezoidal lead screw nut from iglide® L280 with a rolled trapezoidal lead screw.



All of the main components of the mechanical movements, such as the linear axis, plain bearings, guide systems, etc. use igus® products.

drylin® lead screw technology | Online tools

drylin® lead screw drive expert and configurator

drylin® lead screw modules expert

The expert can help you to quickly find the right lead screw technology article for your application and will also inform you of the foreseeable service life. Finally, you can order your items or request further information from us.

Choose models

Lead screw nut


Please enter either a part number or select your desired properties manually.

Find part number:


or

Type of construction and properties of the nuts


Cylindrical Form S




Cylindrical Spine flats



Cylindrical Anti-backlash



Cylindrical Injection moulding



Thread

Trapezoidal thread Metric threads High helix thread drylin® 337 high helix thread

Self locking lead needed

Thread standard Thread DIN ASME thread inch

drylin® lead screw unit expert

Input **Result** **Configuration**

To sort, please click on the column heading

igubal® material	Price of nut from [EUR]	Spindle	Thread d1 x P	d2 [mm]	d1 [mm]	Spindle with pin	ass. Torque [Nm]	min. service performance [double strokes]
J	94,13	Stainless steel	Tr 50 x 6	90	100		0,06	67.332.550 E3
J	94,13	Steel	Tr 50 x 6	90	100		0,06	40.132.631 E3
J	89,93	Stainless steel	Tr 40 x 7	76	80		0,06	31.861.434 E3
W000	Price on request	Stainless steel	Tr 40 x 7	76	80		0,06	30.344.223 E3
J	89,93	Steel	Tr 40 x 7	76	80		0,06	22.303.004 E3
J	82,88	Stainless steel	Tr 36 x 6	75	72		0,06	22.215.800 E3
W000	Price on request	Steel	Tr 40 x 7	76	80		0,06	21.240.996 E3

Threaded Nuts Part No.: JSPM-90100TW006
 Trapezoidal threaded spindle Part No.: PTGG-50x6-01-R-E3
 Configures desired geometries here

The general tolerances according to DIN ISO 2768mK apply for the measurements. The lead screw pins are manufactured with a tolerance of n6.

drylin® lead screw configurator

With this configurator, you can quickly find the right lead screw and machine the pins at both ends. The application generates a dimensioned drawing for your configuration directly. You can then order the lead screw directly or request further information.

Article selection

Lead screw


Please enter either a part number or select your desired properties manually.

Select part number:


or

Thread type of the lead screw


Trapezoidal thread



high helix thread drylin® technology



Metric thread



Thread size:

Thread direction Right-hand thread Left-hand thread Reverse threads

Material:

Quantity: Piece

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.com/leadscrew-expert



Download the online tool app now



Configurator for lead screw drives: configure required dimensions

Ask quickly and easily for lead screw nuts and lead screws in individual dimensions.



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

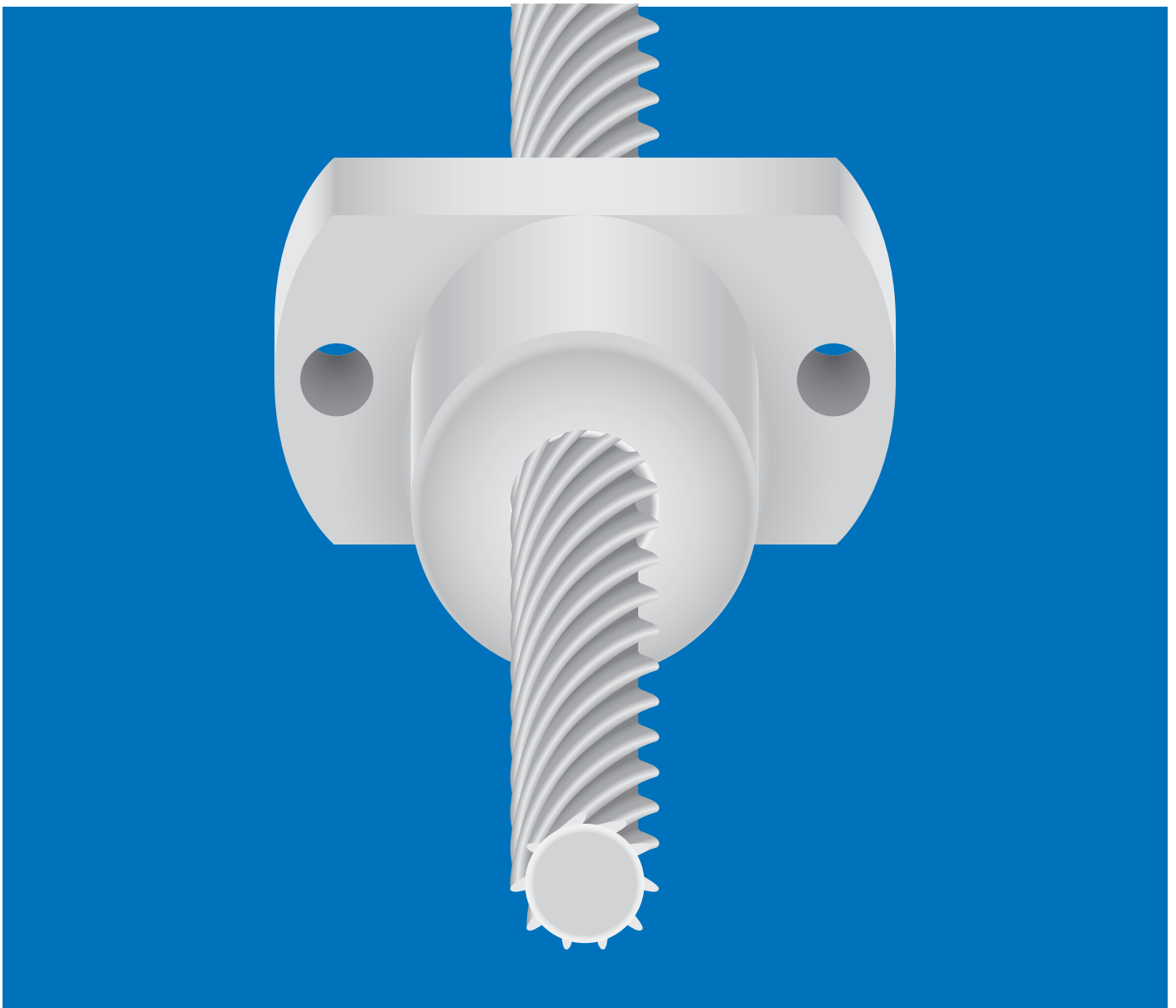
Lead screw configurator

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.

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

Notes

A large grid area for taking notes, consisting of a 20x30 grid of small squares. The grid is empty and occupies the majority of the page.



drylin® lead screw technology – dryspin® technology

Efficient high-helix thread

**Lead screw nuts made from self-lubricating
dry-tech® tribo-polymers**

High efficiency and longer service life

Quiet operation with vibration dampening

Resistant to dirt



The right lead screw nut material for every technical requirement

Starting immediately, there are drylin® lead screw nuts from the full range available for every technical requirement. The full range includes lead screw nuts from 6 self-lubricating iglide® high-performance polymers, in sleeve design or flange variations. The ideal nut and lead screw for every application.

- Self-lubricating and maintenance-free
- Service life can be calculated online
- No minimum order value
- No minimum order quantity



Find and calculate suitable lead screw drives

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

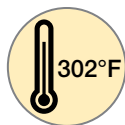
iglide® J



High efficiency at all speeds:

- High speed
 - Low wear
 - Best coefficient of friction
- Page 193

iglide® J350



For temperatures up to +302°F:

- For high temperatures
 - Good coefficient of friction with medium loads
- Page 251

iglide® R



The cost-effective option for high volume:

- High wear resistance for low loads
 - Low moisture absorption
 - Cost-effective alternative
- Page 303

iglide® A180



FDA-compliant for the food and pharmaceutical industry:

- FDA compliant
 - For contact with food
 - Quiet operation
- Page 493

iglide® J200



The specialist on hard anodized aluminum with low coefficient of friction and wear:

► Page 321

iglide® E7



The durable specialist on steel for high speeds and low wear:

► Page 327

dryspin® technology | Material properties

Six standard materials

	Unit	iglide® J	iglide® J350	iglide® R	iglide® A180	iglide® E7	iglide® J200
General properties							
Density	[g/cm³]	1.49	1.44	1.39	1.46	1.05	1.72
Color		yellow	yellow	red	white	dark grey	matte grey
Max. moisture absorption at +73°F and 50% relative humidity	[% weight]	0.30	0.30	0.20	0.20	0.1	0.2
Max. total moisture absorption	[% weight]	1.30	1.60	1.10	1.30	0.1	0.7
Coefficient of sliding friction, dynamic against steel	[μ]	0.06 – 0.18	0.10 – 0.20	0.09 – 0.25	0.05 – 0.23	0.09 – 0.25	0.11 – 0.17
pv value, max. (dry)	[MPa · m/s]	0.34	0.45	0.27	0.31	0.08	0.30
Mechanical properties							
Flexural modulus	[psi]	348,091	290,075	282,824	333,587	214,221	406,106
Flexural strength at +68°F	[psi]	10,588	7,977	10,153	12,763	3,191	8,412
Compressive strength	[psi]	8,702	8,702	9,863	11,313	2,611	6,237
Max. permissible surface pressure in thread at +68°F	[psi]	580	435	290	508	73	435
Shore D hardness		74	80	77	76	61	70
Physical and thermal properties							
Max. continuous operating temperature	[°F]	+194	+302	+194	+194	+158	+194
Max. short-term operating temperature	[°F]	+248	+302	+194	+194	+158	+194
Min. continuous operating temperature	[°F]	-4	-4	-4	-4	-4	-4
Thermal conductivity	[W/m · K]	0.25	0.24	0.25	0.25	0.25	0.24
Coefficient of thermal expansion at +73°F	[K ⁻¹ · 10 ⁻⁶]	10	7	11	11	11	8
Electrical properties							
Specific contact resistance	[Ωcm]	> 10 ¹³	> 10 ¹³	> 10 ¹²	> 10 ¹²	> 10 ⁹	> 10 ⁹
Surface resistance	[Ω]	> 10 ¹²	> 10 ¹⁰	> 10 ¹²	> 10 ¹¹	> 10 ⁹	> 10 ⁹

Higher efficiency due to optimized thread angle

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



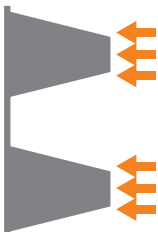
Steeper thread angle, standard geometry



Flatter thread angle, dryspin® geometry

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 noiselessly. This is because, the greater the contact of two surfaces moving against one another, the more vibrations are transmitted, which can be perceived as a rattle or squeak. The round teeth minimize this effect and the thread moves without external lubrication and with no noise.



Angular tooth profile, standard geometry



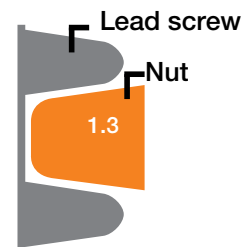
Rounded tooth profile, dryspin® geometry

Longer service life due to asymmetry

Due to the larger distances between the individual dryspin® thread pitches, the thread ideally matches the properties of the self-lubricating igus® high-performance polymers. The proportion of the tribologically optimized polymer in the thread pitches can be extended by a factor of 1.3 for all sizes. More wear-resistant material and higher levels of efficiency are crucial for up to 5 times longer service life of standard geometries. The larger the lead screw diameter, the stronger the impact of this effect. Backlash can be minimized life-long with the use of dryspin® zero-backlash lead screw nuts with integrated spring pre-load.



Symmetrical standard geometry

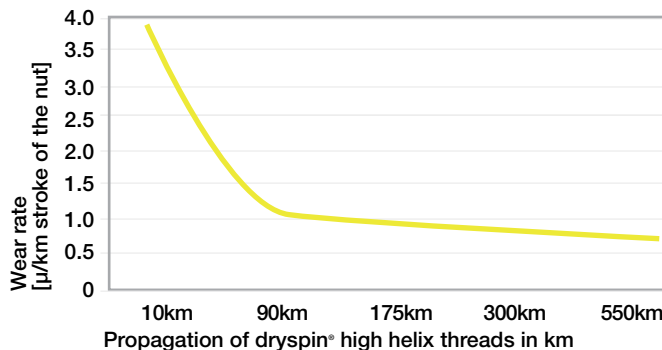


Asymmetrical dryspin® geometry

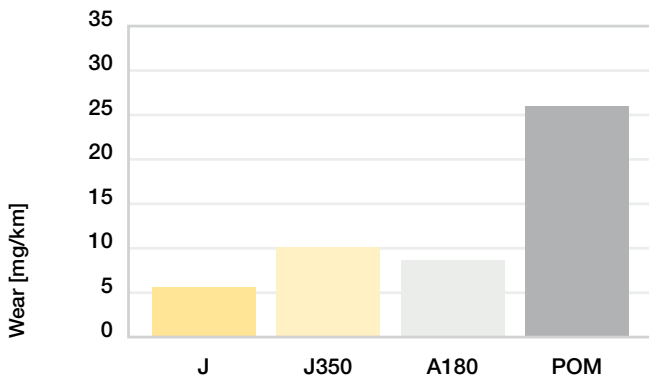
Tested: Self-lubricating iglide® materials from igus®

Liners, sliding elements and lead screw nuts from drylin® adapted for your application: self-lubricating, tested and predictable.

- 12,000 tribology tests per year
 - More than 300 parallel test facilities
 - 140 trillion test movements
 - Continuous testing of drylin® products
- www.igus.com/testlab



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

dry-tech® tribo-plastics

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

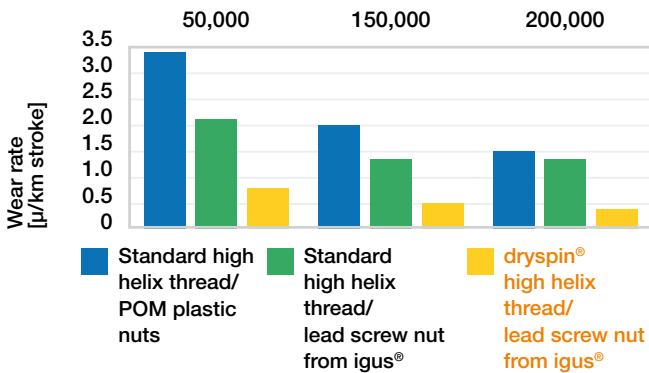
Material selection

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

Service life

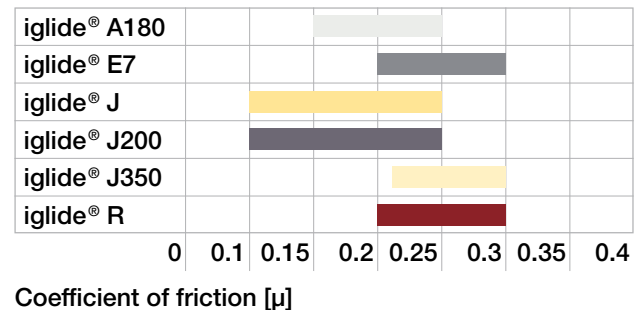
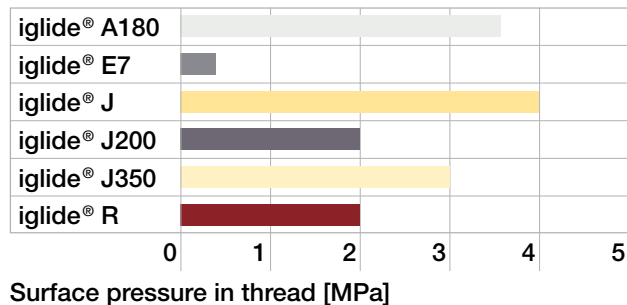
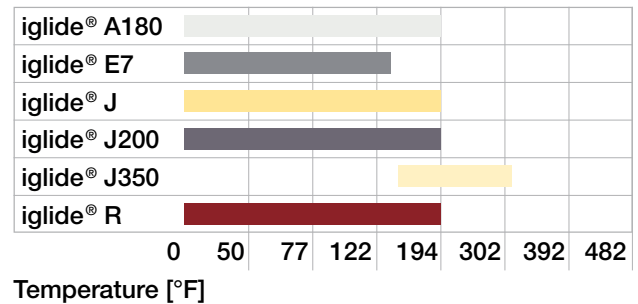
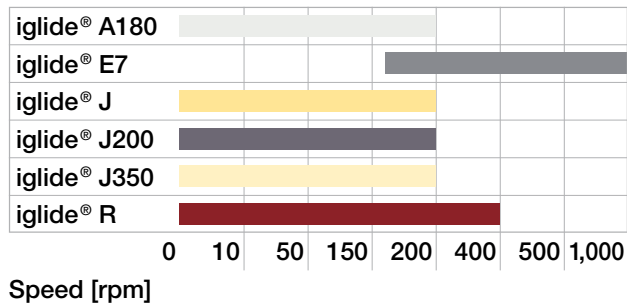
Every year, several hundred tests are set up and performed on test rigs in the igus® test laboratory. The results are incorporated into easily accessible online tools, where the service life and the required torque can be determined.

► www.igus.com/leadscrew-expert



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

Correct choice of material

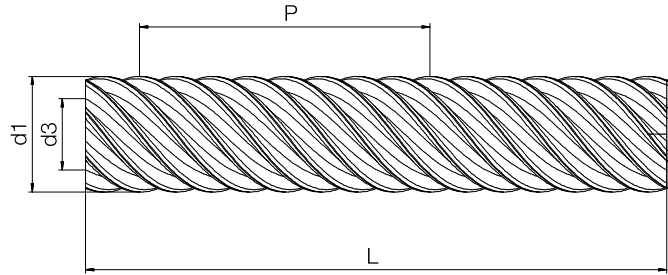




Stainless steel, rolled, AISI 304



Aluminum, rolled (EN AW 6082)



Please contact us! All drylin® leads screws can be custom machined. Please send us your drawing or configure online. We can then provide a quotation quickly.

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



Available from stock
Upon request

Technical data

Part No.	Thread	Hand of rotation		Material		Lead P [mm]	Number of threads	Pitch angle α [°]
		right	left	Stainless steel	Aluminum			
				AISI 304	EN AW 6082			
DST-LS-4X2.4-R-□-ES	Ds4x2.4	●	–	●	–	2.4	2	10.81
DST-LS-5X5-R-□-ES	Ds5x5	●	–	●	–	5.0	2	17.70
DST-LS-6.35X2.54-□-ES	Ds6.35x2.54	●	●	●	–	2.54	2	7.26
DST-LS-6.35X5.08-R-□-ES	Ds6.35x5.08	●	–	●	–	5.08	4	14.29
DST-LS-6.35X12.7-R-□-ES	Ds6.35x12.7	●	–	●	–	12.7	4	32.48
DST-LS-6.35X25.4-R-□-ES	Ds6.35x25.4	●	–	●	–	25.4	8	51.85
DST-LS-8X10-□-ES	Ds8x10	●	●	●	●	10.0	4	21.70
DST-LS-8X15-□-ES	Ds8x15	●	●	●	●	15.0	6	30.83
DST-LS-8X24-R-□-ES	Ds8x24	●	–	●	–	24.0	8	43.70
DST-LS-10X3-R-□-ES	Ds10x3	●	–	●	–	3.0	2	5.45
DST-LS-10X12-□-ES	Ds10x12	●	●	●	●	12.0	4	21.54
DST-LS-10X25-□-ES	Ds10x25	●	●	●	●	25.0	8	38.51
DST-LS-10X50-□-ES	Ds10x50	●	●	●	●	50.0	10	57.86
DST-LS-12X5-R-□-ES	Ds12x5	●	–	●	●	5.0	2	7.55
DST-LS-12X15-R-□-ES	Ds12x15	●	–	●	–	15.0	5	21.90
DST-LS-12X25-R-□-ES	Ds12x25	●	–	●	●	25.0	8	33.55
DST-LS-12.7X12.7-R-□-ES	Ds12.7x12.7	●	–	●	–	12.7	4	17.65
DST-LS-14X25-□-ES	Ds14x25	●	●	●	●	25.0	5	29.61
DST-LS-14X30-R-□-ES	Ds14x30	●	–	●	●	30.0	6	34.30
DST-LS-14X40.6-R-□-ES	Ds14x40.6	●	–	●	–	40.6	8	42.71
DST-LS-16X35-R-□-ES	Ds16x35	●	–	●	●	35.0	7	34.85
DST-LS-18X24-□-ES	Ds18x24	●	●	●	●	24.0	6	22.99
DST-LS-18X40-□-ES	Ds18x40	●	●	●	●	40.0	8	35.55
DST-LS-18X80-□-ES	Ds18x80	●	●	●	●	80.0	12	54.74
DST-LS-18X100-□-ES	Ds18x100	●	●	●	●	100.0	12	60.51
DST-LS-20X20-□-ES	Ds20x20	●	●	●	●	20.0	4	17.66
DST-LS-20X50-□-ES	Ds20x50	●	–	●	●	50.0	8	38.51
DST-LS-20X60-□-ES	Ds20x60	●	●	●	●	60.0	8	43.68
DST-LS-20X80-□-ES	Ds20x80	●	●	●	●	80.0	12	55.07
DST-LS-20X90-□-ES	Dx20x90	●	●	●	●	90.0	12	55.08



Technical data

Lead accuracy	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Straightened	<0.1mm to 300mm

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa per mm² (elongation limit 0.2mm).



Order key

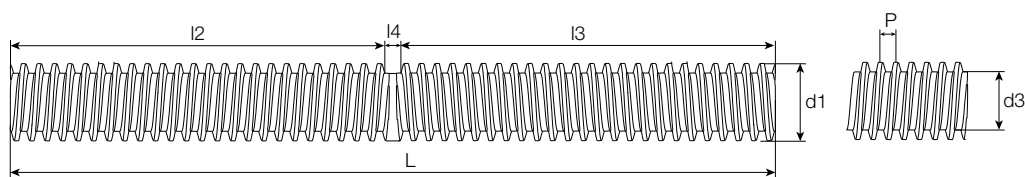
Part number	Thread	Options
DST-LS-10X50-R-1000-ES		Options: Hand of rotation R: Right-hand thread L: Left-hand thread Length in mm: Freely selectable (see table) Lead screw material ES: Stainless steel, rolled AL: Aluminum, rolled
dryspin® technology	Lead screw	Diameter
		Pitch
		Hand of rotation
		Length [mm]
		Lead screw material

Dimensions [mm]

Major Ø d1	Minor Ø d3	Max. total length L		Weight	
		ES	AL	Stainless steel [kg/m]	Aluminum [kg/m]
-0.1	-0.1				
4.0 -0.05	3.0 -0.1	1,000	1,000	0.10	-
5.0	3.30	1,000	-	0.20	-
6.35 -0.05	4.35 -0.05	1,000	1,000	0.25	-
6.35 -0.05	4.85 -0.05	1,000	1,000	0.25	-
6.35 -0.05	4.35 -0.05	1,000	1,000	0.25	-
6.35 -0.05	4.15 -0.05	1,000	1,000	0.25	-
8.0	5.63	1,000	1,000	0.40	0.14
8.0	5.63	1,000	-	0.40	0.14
8.0	5.55	1,000	-	0.40	-
10.0	7.85	3,000	-	0.62	-
10.0	6.95	3,000	1,000	0.62	0.21
10.0	7.10	3,000	1,000	0.62	0.21
10.0	7.35	3,000	1,000	0.62	0.21
12.0	9.60	3,000	1,500	0.89	0.31
12.0	9.00	3,000	-	0.98	-
12.0	8.95	3,000	1,500	0.89	0.31
12.7	9.60	3,000	-	0.90	-
14.0	9.60	3,000	1,500	1.22	0.42
14.0	9.60	3,000	1,500	1.22	0.42
14.0	9.65	3,000	1,500	1.22	0.42
16.0	11.60	3,000	1,500	1.59	0.54
18.0	14.28	3,000	1,500	2.01	0.69
18.0	13.60	3,000	1,500	2.01	0.69
18.0	14.00	3,000	1,500	2.01	0.69
18.0	13.55	3,000	1,500	2.01	0.69
20.0	15.60	3,000	1,500	2.48	0.85
20.0	15.48	3,000	1,000	2.48	0.85
20.0	15.55	3,000	1,500	2.48	0.85
20.0	15.98	3,000	1,500	2.48	0.85
20.0	15.55	3,000	1,500	2.48	0.85



Stainless steel, rolled, AISI 304



Technical data

Part No.	Thread	Max. transferable torque	Max. tensile strength	Material	Lead P	Number of threads	Pitch angle α
		[Nm]	[N]	Stainless steel AISI 304	[mm]		[°]
DST-LS-10X12-R/L-I2-I3-ES	Ds10x12	2.0	450	●	12	4	21.54
DST-LS-10X25-R/L-I2-I3-ES	Ds10x25	2.0	450	●	25	8	38.51
DST-LS-10X50-R/L-I2-I3-ES	Ds10x50	2.0	450	●	50	10	57.86
DST-LS-14X25-R/L-I2-I3-ES	Ds14x25	4.0	1,000	●	25	5	29.61
DST-LS-18X24-R/L-I2-I3-ES	Ds18x24	7.5	1,600	●	24	6	22.99
DST-LS-18X40-R/L-I2-I3-ES	Ds18x40	7.5	1,600	●	40	8	35.55
DST-LS-18X80-R/L-I2-I3-ES	Ds18x80	7.5	1,600	●	80	12	54.74
DST-LS-18X100-R/L-I2-I3-ES	Ds18x100	7.5	1,600	●	100	12	60.51

⁴⁶⁾ Non-usable thread transition

⁴⁷⁾ Length right-hand thread (I3)

⁴⁸⁾ Length left-hand thread (I2)



Order key

Part number	Thread	Options
DST-LS-10X50-R/L-480-480-ES		
dryspin® technology	Lead screw	
Diameter	Pitch	
Hand of rotation	⁴⁷⁾ Length right [mm]	⁴⁸⁾ Length left [mm]
		Lead screw material

Options:
⁴⁷⁾ I3: Length right-hand thread
⁴⁸⁾ I2: Length left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
ES: Stainless steel, rolled



Please contact us!

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

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

Dimensions [mm]

Major Ø d1	Minor Ø d3	Thread transition	Max. thread length		Max. total length L
-0.10	-0.10	I4 ⁴⁹⁾	I2 ⁴⁸⁾	I3 ⁴⁷⁾	
10	6.95	24	488	488	1,000
10	7.10	24	488	488	1,000
10	7.35	24	488	488	1,000
14	9.60	24	988	988	2,000
18	14.40	24	988	988	2,000
18	13.60	24	988	988	2,000
18	14.00	24	988	988	2,000
18	13.55	24	988	988	2,000

dryspin® technology | Lead screw nuts | Technical data



Highly efficient at all speeds: iglide® J



For temperatures up to +302°F:
iglide® J350

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
	η	μ	η	μ
Ds4x2.4	41–64	0.1–0.25	41–51	0.17–0.25
Ds5x5	52–74	0.1–0.25	52–62	0.17–0.25
Ds6.35x2.54	33–55	0.1–0.25	33–42	0.17–0.25
Ds6.35x5.08	47–70	0.1–0.25	47–57	0.17–0.25
Ds6.35x12.7	60–81	0.1–0.25	60–70	0.17–0.25
Ds6.35x25.4	57–81	0.1–0.25	57–69	0.17–0.25
Ds8x10	55–77	0.1–0.25	55–65	0.17–0.25
Ds8x15	60–81	0.1–0.25	60–70	0.17–0.25
Ds8x24	60–82	0.1–0.25	60–71	0.17–0.25
Ds10x3	27–48	0.1–0.25	35–48	0.17–0.25
Ds10x12	55–76	0.1–0.25	55–65	0.17–0.25
Ds10x25	61–82	0.1–0.25	61–71	0.17–0.25
Ds10x50	52–79	0.1–0.25	52–66	0.17–0.25
Ds12x5	34–56	0.1–0.25	34–43	0.17–0.25
Ds12.7x12.7	52–74	0.1–0.25	62–71	0.17–0.25
Ds12x15	55–77	0.1–0.25	55–65	0.17–0.25
Ds12x25	61–81	0.1–0.25	61–71	0.17–0.25
Ds14x25	60–80	0.1–0.25	60–70	0.17–0.25
Ds14x30	61–81	0.1–0.25	61–71	0.17–0.25
Ds14x40.6	61–82	0.1–0.25	61–71	0.17–0.25
Ds16x35	61–81	0.1–0.25	61–71	0.17–0.25
Ds18x24	56–77	0.1–0.25	56–66	0.17–0.25
Ds18x40	61–81	0.1–0.25	61–71	0.17–0.25
Ds18x80	55–80	0.1–0.25	55–68	0.17–0.25
Ds18x100	49–78	0.1–0.25	49–64	0.17–0.25
Ds20x20	52–74	0.1–0.25	52–62	0.17–0.25
Ds20x50	61–82	0.1–0.25	61–71	0.17–0.25
Ds20x60	60–82	0.1–0.25	60–71	0.17–0.25
Ds20x80	57–81	0.1–0.25	57–69	0.17–0.25
Ds20x90	55–80	0.1–0.25	55–68	0.17–0.25



For medium to high speeds:
iglide® R



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

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
	η	μ	η	μ
Ds4x2.4	37–47	0.2–0.3	41–54	0.15–0.25
Ds5x5	47–58	0.2–0.3	52–65	0.15–0.25
Ds6.35x2.54	29–38	0.2–0.3	33–45	0.15–0.25
Ds6.35x5.08	42–53	0.2–0.3	47–61	0.15–0.25
Ds6.35x12.7	55–66	0.2–0.3	60–73	0.15–0.25
Ds6.35x25.4	50–64	0.2–0.3	57–72	0.15–0.25
Ds8x10	50–61	0.2–0.3	55–68	0.15–0.25
Ds8x15	55–66	0.2–0.3	60–73	0.15–0.25
Ds8x24	54–67	0.2–0.3	60–74	0.15–0.25
Ds10x3	23–32	0.2–0.3	38–48	0.15–0.25
Ds10x12	50–61	0.2–0.3	55–68	0.15–0.25
Ds10x25	55–67	0.2–0.3	61–74	0.15–0.25
Ds10x50	44–61	0.2–0.3	52–70	0.15–0.25
Ds12x5	29–39	0.2–0.3	34–46	0.15–0.25
Ds12.7x12.7	47–58	0.2–0.3	65–74	0.15–0.25
Ds12x15	50–61	0.2–0.3	55–68	0.15–0.25
Ds12x25	55–67	0.2–0.3	61–73	0.15–0.25
Ds14x25	60–72	0.2–0.3	60–72	0.15–0.25
Ds14x30	61–74	0.2–0.3	61–74	0.15–0.25
Ds14x40.6	55–67	0.2–0.3	61–74	0.15–0.25
Ds16x35	61–74	0.2–0.3	61–74	0.15–0.25
Ds18x24	51–62	0.2–0.3	56–69	0.15–0.25
Ds18x40	61–74	0.2–0.3	61–74	0.15–0.25
Ds18x80	55–71	0.2–0.3	55–71	0.15–0.25
Ds18x100	40–58	0.2–0.3	49–68	0.15–0.25
Ds20x20	52–65	0.2–0.3	52–65	0.15–0.25
Ds20x50	55–67	0.2–0.3	61–74	0.15–0.25
Ds20x60	60–74	0.2–0.3	60–74	0.15–0.25
Ds20x80	50–64	0.2–0.3	57–72	0.15–0.25
Ds20x90	55–71	0.2–0.3	55–71	0.15–0.25



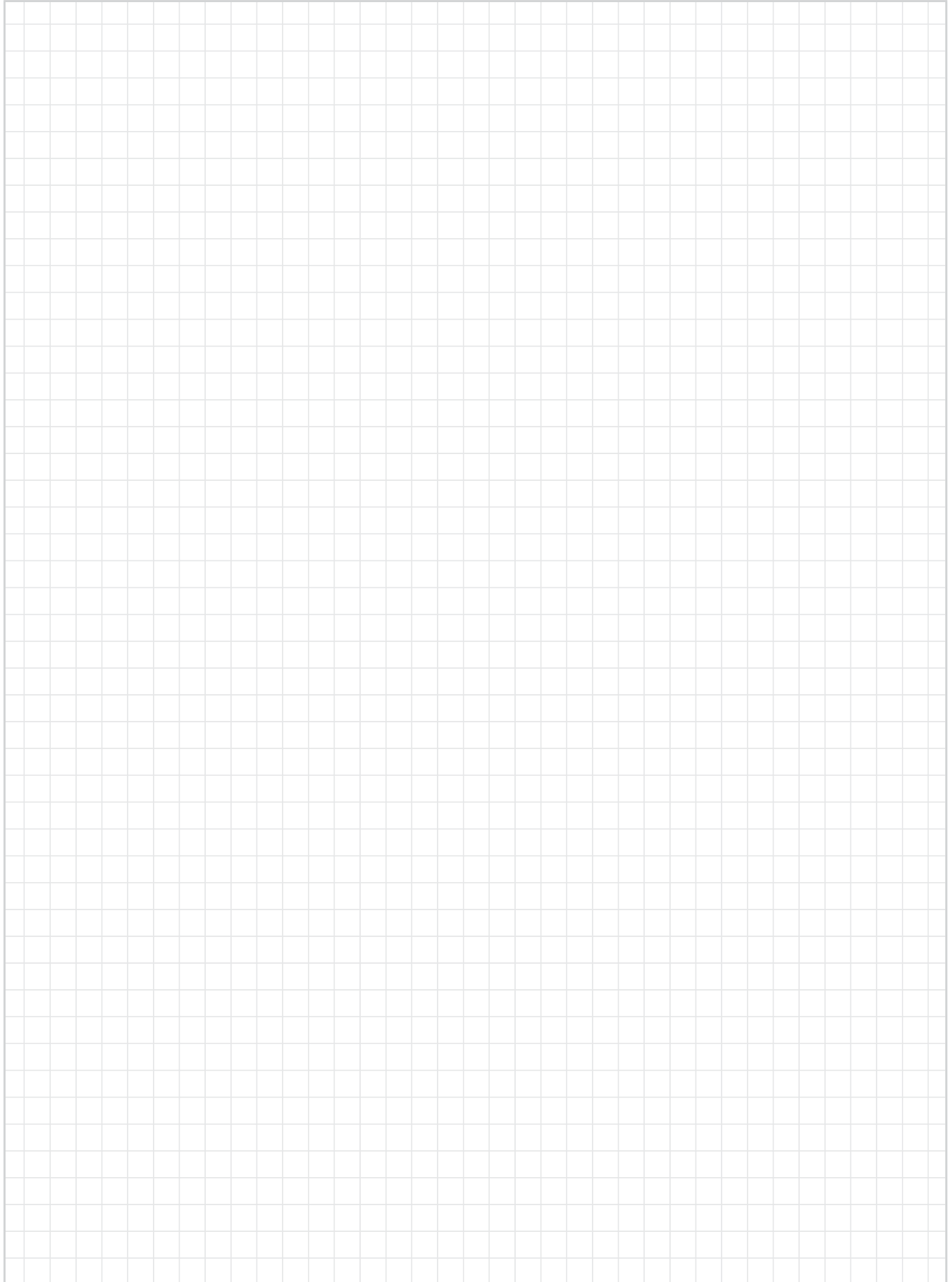
For high speeds: iglide® E7



The specialist on hard anodized aluminum: iglide® J200

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
	η	μ		η
Ds6.35x2.54	33–55	0.2–0.3	–	–
Ds6.35x5.08	47–70	0.2–0.3	–	–
Ds6.35x12.7	60–81	0.2–0.3	–	–
Ds6.35x25.4	57–81	0.2–0.3	–	–
Ds8x10	55–77	0.2–0.3	–	–
Ds8x15	60–81	0.2–0.3	–	–
Ds10x3	23–32	0.2–0.3	–	–
Ds10x12	55–76	0.2–0.3	–	–
Ds10x25	61–82	0.2–0.3	–	–
Ds10x50	52–79	0.2–0.3	–	–
Ds12x5	34–56	0.2–0.3	–	–
Ds14x25	60–80	0.2–0.3	–	–
Ds14x30	61–81	0.2–0.3	–	–
Ds16x35	–	–	61–71	0.1–0.25
Ds18x24	–	–	56–77	0.1–0.25
Ds18x40	–	–	61–71	0.1–0.25
Ds18x80	–	–	55–68	0.1–0.25
Ds18x100	–	–	49–64	0.1–0.25
Ds20x20	–	–	52–62	0.1–0.25
Ds20x50	–	–	52–62	0.1–0.25
Ds20x60	–	–	60–71	0.1–0.25
Ds20x80	–	–	57–69	0.1–0.25
Ds20x90	–	–	55–68	0.1–0.25

Notes

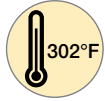




iglide® J



iglide® J350



iglide® R



iglide® A180



iglide® J200



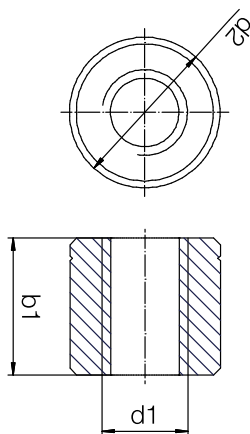
Technical data

Part No.	Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]		
		right	left		iglide®		
					J / J350 / A180	R	J200
DST-□SRM-131315DS4X2.4	Ds4x2.4	●	–	60	152	152	–
DST-□SRM-1413DS5X5	Ds5x5	●	–	57	152	152	–
DST-□S□M-1413DS6.35X2.54	Ds6.35x2.54	●	●	172	152	152	86
DST-□SRM-1413DS6.35X5.08	Ds6.35x5.08	●	–	135	152	152	68
DST-□SRM-1413DS6.35X12.7	Ds6.35x12.7	●	–	67	152	152	34
DST-□SRM-1413DS6.35X25.4	Ds6.35x25.4	●	–	74	152	152	24
DST-□S□M-1812DS8X10	Ds8x10	●	●	122	304	244	61
DST-□S□M-1812DS8X15	Ds8x15	●	●	123	308	244	61
DST-□SRM-1812DS8X24	Ds8x24	●	–	104	260	208	–
DST-□SRM-2220DS10X3	Ds10x3	●	–	410	1,025	820	–
DST-□S□M-2220DS10X12	Ds10x12	●	●	274	685	541	72
DST-□S□M-2220DS10X25	Ds10x25	●	●	249	623	499	125
DST-□S□M-2220DS10X50	Ds10x50	●	●	144	361	289	137
DST-□SRM-2624DS12X5	Ds12x5	●	–	398	995	796	–
DST-□SRM-2624DS12.7X12.7	Ds12.7x12.7	●	–	462	1,155	924	–
DST-□SRM-2624DS12X15	Ds12x15	●	–	712	1,113	891	–
DST-□SRM-2624DS12X25	Ds12x25	●	–	385	963	770	–
DST-□S□M-3027DS14X25	Ds14x25	●	●	444	1,110	888	–
DST-□SRM-3027DS14X30	Ds14x30	●	–	440	1,101	881	–
DST-□SRM-3027DS14X40.6	Ds14x40.6	●	–	434	1,095	868	–
DST-□SRM-3632DS16X35	Ds16x35	●	–	610	1,526	1,221	–
DST-□S□M-4036DS18X24	Ds18x24	●	●	844	2,110	1,688	–
DST-□S□M-4036DS18X40	Ds18x40	●	–	786	1,966	1,573	–
DST-□S□M-4036DS18X80	Ds18x80	●	–	543	1,357	1,086	–
DST-□S□M-4036DS18X100	Ds18x100	●	–	476	1,191	953	–
DST-□S□M-4540DS20X20	Ds20x20	●	–	984	2,460	1,968	–
DST-□SRM-4540DS20X50	Ds20x50	●	–	1007	2,517	2,014	–
DST-□S□M-4540DS20X60	Ds20x60	●	–	663	1,657	1,325	–
DST-□S□M-4540DS20X80	Ds20x80	●	–	686	1,715	1,372	–
DST-□S□M-4540DS20X90	Ds20x90	●	–	610	1,657	1,220	–

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



Order key



Type d2 b1 Thread

DST - S R M - 14 13 DS 10X12

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

- J** High efficiency at all speeds
- J350** For temperatures up to +302°F
- R** The cost-effective option for high volume
- A180** FDA-compliant for the food and pharmaceutical industries
- J200** For best wear with aluminum lead screws

Dimensions [mm]

d1 ¹⁵⁶	d2 ¹⁵⁶	b1 ¹⁵⁶	Weight [g]				
			iglide®				
			J	J350	R	A180	J200
4	14	13	2.74	2.65	2.55	2.68	-
5	14	13	2.4	2.3	2.2	2.3	-
6.35	14	13	2.4	2.3	2.2	2.3	1.67
6.35	14	13	2.4	2.3	2.2	2.3	1.67
6.35	14	13	2.4	2.3	2.2	2.3	1.67
6.35	14	13	2.4	2.3	2.2	2.3	1.67
8	18	12	3.7	3.5	3.4	3.6	2.57
8	18	12	3.7	3.5	3.4	3.6	2.57
8	18	12	3.7	3.5	3.4	3.6	-
10	22	20	9.0	8.7	8.4	8.8	-
10	22	20	9.0	8.7	8.4	8.8	6.33
10	22	20	9.0	8.7	8.4	8.8	6.33
10	22	20	9.0	8.7	8.4	8.8	6.33
12	26	24	14.9	14.4	13.9	14.6	-
12	26	24	14.9	14.4	13.9	14.6	-
12	26	24	14.9	14.4	13.6	14.6	-
12	26	24	14.9	14.4	13.9	14.6	-
14	30	27	22.2	21.5	20.8	21.8	-
14	30	27	22.2	21.5	20.8	21.8	-
14	30	27	22.2	21.5	20.8	21.8	-
16	36	32	38.9	37.6	36.3	38.2	-
18	40	36	53.8	52.0	50.1	52.7	-
18	40	36	53.8	52.0	50.1	52.7	-
18	40	36	53.8	52.0	50.1	52.7	-
18	40	36	53.8	52.0	50.1	52.7	-
20	45	40	76.1	73.5	71.0	74.5	-
20	45	40	76.1	73.5	71.0	74.5	-
20	45	40	76.1	73.5	71.0	74.5	-
20	45	40	76.1	73.5	71.0	74.5	-
20	45	40	76.1	73.5	71.0	74.5	-

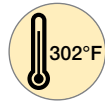
Sleeve lead screw nuts with spanner flat



iglide® J



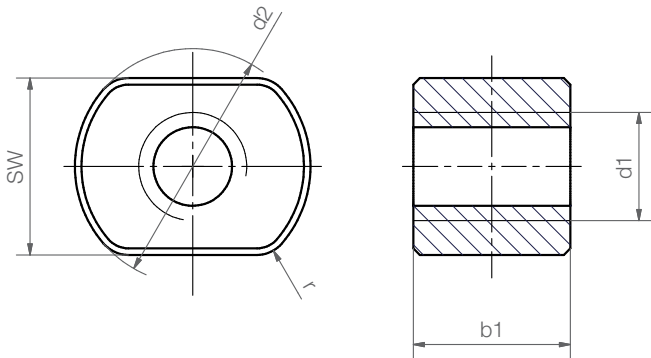
iglide® J350



iglide® R



iglide® A180



Technical data

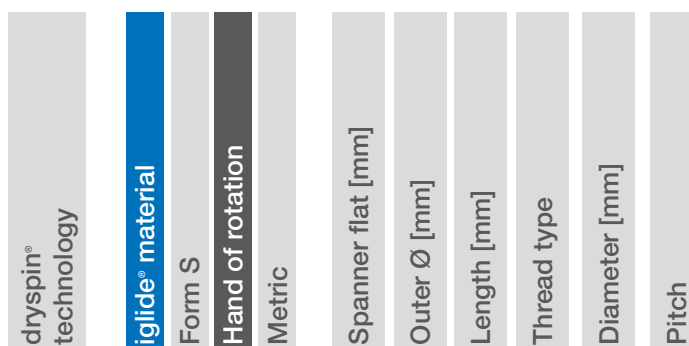
Part No.	Thread	Hand of rotation		Effective support surface [mm ²]	Max. stat. axial F [N]			
		right	left		iglide®			
					J	J350	R	A180
DST-□S□M-172220DS10x12	DS10x12	●	●	271	677	677	541	677
DST-□S□M-172220DS10x25	DS10x25	●	●	249	623	623	499	623
DST-□S□M-172220DS10x50	DS10x50	●	●	144	361	361	289	361
DST-□SRM-192624DS12x5	DS12x5	●	–	391	977	977	782	977
DST-□SRM-192624DS12x15	DS12x15	●	–	633	990	990	792	990
DST-□SRM-192624DS12x25	DS12x25	●	–	385	964	964	771	964
DST-□S□M-253027DS14x25	DS14x25	●	●	440	1,101	1,101	881	1,101
DST-□S□M-253027DS14x30	DS14x30	●	●	440	1,101	1,101	881	1,101
DST-□SRM-253027DS14x40,6	DS14x40.6	●	–	430	1,075	1,075	860	1,075
DST-□SRM-273632DS16x35	DS16x35	●	–	610	1,526	1,526	1,221	1,526
DST-□S□M-274036DS18x24	DS18x24	●	●	824	2,061	2,061	1,649	2,061
DST-□S□M-274036DS18x40	DS18x40	●	●	786	1,966	1,966	1,573	1,966
DST-□S□M-274036DS18x80	DS18x80	●	●	543	1,357	1,357	1,086	1,357
DST-□S□M-274036DS18x100	DS18x100	●	●	476	1,191	1,191	953	1,191
DST-□S□M-304540DS20x20	DS20x20	●	●	984	2,460	2,460	1,968	2,460
DST-□S□M-304540DS10x50	DS10x50	●	●	795	1,988	1,988	1,590	1,988
DST-□S□M-304540DS20x50	DS20x50	●	–	663	1,657	1,657	1,325	1,657
DST-□S□M-304540DS20x60	DS20x60	●	●	663	1,657	1,657	1,325	1,657
DST-□S□M-304540DS20x80	DS20x80	●	●	697	1,742	1,742	1,393	1,742
DST-□S□M-304540DS20x90	DS20x90	●	●	663	1,657	1,657	1,325	1,657

¹⁵⁹⁾ 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



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

J	High efficiency at all speeds
J350	For temperatures up to +302°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Dimensions [mm]

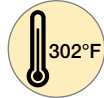
d1 ⁽¹⁶⁾	d2 ⁽¹⁶⁾	b1 ⁽¹⁶⁾	SW	Weight [g]			
				iglide®			
				J	J350	R	A180
10	22	20	17	6.65	6.42	6.20	6.51
10	22	20	17	6.65	6.42	6.20	6.51
10	22	20	17	6.65	6.42	6.20	6.51
12	26	24	19	10.90	10.53	10.17	10.68
12	26	24	19	10.90	10.50	10.20	10.70
12	26	24	19	10.90	10.53	10.17	10.68
14	30	27	25	16.05	15.51	14.97	15.73
14	30	27	25	16.05	15.51	14.97	15.73
14	30	32	25	19.02	18.39	17.75	18.64
16	36	36	27	33.03	31.92	30.81	32.36
18	40	36	27	40.11	38.76	37.41	39.30
18	40	36	27	40.11	38.76	37.41	39.30
18	40	36	27	40.11	38.76	37.41	39.30
18	40	40	27	44.56	43.07	41.57	43.67
20	45	40	30	57.34	55.42	53.49	56.19
20	45	40	30	57.34	55.42	53.49	56.19
20	45	40	30	57.34	55.42	53.49	56.19
20	45	40	30	57.34	55.42	53.49	56.19
20	45	40	30	57.34	55.42	53.49	56.19
20	45	40	30	57.34	55.42	53.49	56.19



iglide® J



iglide® J350



iglide® R



iglide® A180



iglide® J200



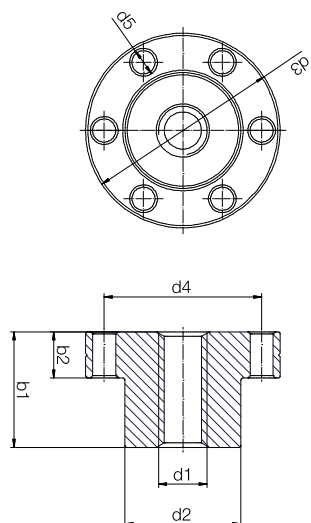
Technical data

Part No.	Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]		
		right	left		iglide®		
					J / J350 / A180	R	J200
DST-□FRM-1315DS4X2.4	Ds4x2.4	●	–	69	125	125	–
DST-□FRM-1315DS5X5	Ds5x5	●	–	66	152	152	–
DST-□F□M-1315DS6.35X2.54	Ds6.35x2.54	●	●	199	125	125	–
DST-□FRM-1315DS6.35X5.08	Ds6.35x5.08	●	–	156	125	125	–
DST-□FRM-1315DS6.35X12.7	Ds6.35x12.7	●	–	78	125	125	–
DST-□FRM-1315DS6.35X25.4	Ds6.35x25.4	●	–	86	125	125	–
DST-□F□M-2020DS8X10	Ds8x10	●	●	203	508	406	–
DST-□F□M-2020DS8X15	Ds8x15	●	●	205	635	507	–
DST-□FRM-2020DS8X24	Ds8x24	●	–	173	432.5	346	–
DST-□FRM-2525DS10X3	Ds10x3	●	●	512	1,280	1,024	–
DST-□F□M-2525DS10X12	Ds10x12	●	●	343	845	677	–
DST-□F□M-2525DS10X25	Ds10x25	●	●	312	780	623	–
DST-□F□M-2525DS10X50	Ds10x50	●	●	181	453	361	–
DST-□FRM-2835DS12X5	Ds12x5	●	–	581	1,425	1,140	–
DST-□FRM-2835DS12.7X12.7	Ds12.7x12.7	●	–	599	1,497.5	1,198	–
DST-□FRM-2835DS12X15	Ds12x15	●	–	923	1,443	1,155	–
DST-□FRM-2835DS12X25	Ds12x25	●	–	562	1,405	1,124	–
DST-□F□M-2835DS14X25	Ds14x25	●	●	576	1,428	1,142	–
DST-□FRM-2835DS14X30	Ds14x30	●	–	571	1,428	1,142	–
DST-□FRM-2835DS14X40.6	Ds14x40.6	●	–	434	1,085	868	–
DST-□FRM-2835DS16X35	Ds16x35	●	–	668	1,670	1,335	1,336
DST-□F□M-2835DS18X24	Ds18x24	●	●	844	2,110	1,688	1,688
DST-□F□M-2835DS18X40	Ds18x40	●	●	764	1,910	1,529	1,528
DST-□F□M-2835DS18X80	Ds18x80	●	●	528	1,320	1,056	1,056
DST-□F□M-2835DS18X100	Ds18x100	●	●	463	1,158	926	926
DST-□F□M-3244DS20X20	Ds20x20	●	●	1,083	2,708	2,165	2166
DST-□F□M-3244DS20X50	Ds20x50	●	–	729	1,823	1,458	1,750
DST-□F□M-3244DS20X60	Ds20x60	●	●	729	1,823	1,458	1,458
DST-□F□M-3244DS20X80	Ds20x80	●	●	755	1,888	1,510	1,510
DST-□F□M-3244DS20X90	Ds20x90	●	●	671	1,678	1,342	1,342

¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key



Type d2 b1 Thread

DST - F R M - 25 25 DS 10X12

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

- J** High efficiency at all speeds
- J350** For temperatures up to +302°C
- R** The cost-effective option for high volume
- A180** FDA-compliant for the food and pharmaceutical industries
- J200** The specialist on hard anodized aluminum

Dimensions [mm]

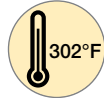
d1 ¹⁵⁶	d2 ¹⁵⁶	d3	d4	d5	b1 ¹⁵⁶	b2	Weight [g]				
							iglide®				
							J	J350	R	A180	J200
4.0	13	25	15	3.2	15	5	7.6	7.35	7.09	7.45	-
5.0	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	-
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	-
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	-
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	-
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	-
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	-
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	-
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	-
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	-
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	-
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	-
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	-
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	-
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	-
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	-
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	-
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	-
12	28	48	38	6	35	18	45.4	43.9	42.4	44.5	-
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	-
16	28	48	38	6	35	12	43.0	41.5	40.1	42.1	50
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73



iglide® J



iglide® J350



iglide® R



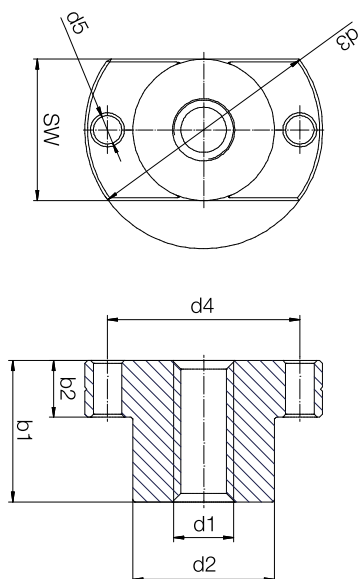
iglide® A180



Technical data

Part No.	Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N] iglide®	
		right	left		J / J350 / A180	R
DST-□FRM-131315DS4X2.4	Ds4x2.4	●	–	69	125	125
DST-□FRM-131315DS5X5	Ds5x5	●	–	66	152	152
DST-□F□M-131315DS6.35X2.54	Ds6.35x2.54	●	●	199	125	125
DST-□FRM-131315DS6.35X5.08	Ds6.35x5.08	●	–	156	125	125
DST-□FRM-131315DS6.35X12.7	Ds6.35x12.7	●	–	78	125	125
DST-□FRM-131315DS6.35X25.4	Ds6.35x25.4	●	–	114	125	125
DST-□F□M-202020DS8X10	Ds8x10	●	●	203	507	406
DST-□F□M-202020DS8X15	Ds8x15	●	●	205	513	410
DST-□F□M-202020DS8X24	Ds8x24	●	●	173	432.5	346
DST-□F□M-252525DS10X12	Ds10x12	●	●	343	858	686
DST-□F□M-252525DS10X25	Ds10x25	●	●	312	779	623
DST-□F□M-252525DS10X50	Ds10x50	●	●	253	632	506
DST-□FRM-282835DS12X5	Ds12x5	●	–	581	1,452	1,162
DST-□FRM-282835DS12X15	Ds12x15	●	–	923	1,443	1,155
DST-□FRM-282835DS12X25	Ds12x25	●	–	562	1,405	1,124
DST-□F□M-282835DS14X25	Ds14x25	●	●	576	1,440	1,152
DST-□FRM-282835DS14X30	Ds14x30	●	–	571	1,427	1,142
DST-□FRM-282835DS14X40.6	Ds14x40.6	●	–	562	1,405	1,124
DST-□FRM-282835DS16X35	Ds16x35	●	–	668	1,669	1,335
DST-□F□M-282835DS18X24	Ds18x24	●	●	821	2,053	1,643
DST-□F□M-282835DS18X40	Ds18x40	●	●	764	1,911	1,529
DST-□F□M-282835DS18X80	Ds18x80	●	●	528	1,319	1,056
DST-□F□M-282835DS18X100	Ds18x100	●	●	463	1,158	926
DST-□F□M-323244DS20X20	Ds20x20	●	●	1,083	2,707	2,165
DST-□F□M-323244DS20X50	Ds20x50	●	–	729	1,822	1,458
DST-□F□M-323244DS20X60	Ds20x60	●	●	729	1,822	1,458
DST-□F□M-323244DS20X80	Ds20x80	●	●	755	1,888	1,510
DST-□F□M-323244DS20X90	Ds20x90	●	●	671	1,678	1,342

¹⁵⁰⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



 **Order key**

Type SW d2 b1 Thread

DST - □ F R M - 25 25 25 DS 10X12

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

- J** High efficiency at all speeds
- J350** For temperatures up to +302°C
- R** The cost-effective option for high volume
- A180** FDA-compliant for the food and pharmaceutical industries

Dimensions [mm]

d1 ¹⁵⁶	d2 ¹⁵⁶	d3	d4	d5	b1 ¹⁵⁶	b2	SW	Weight [g]			
								iglide®			
								J	J350	R	A180
4.0	13	25	19	3.2	15	5	13	4.1	3.98	3.84	4.04
5.0	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2
12	28	48	38	6	35	12	28	39.2	37.9	36.6	38.4
12	28	48	38	6	35	18	28	39.2	37.9	36.6	38.4
12	28	48	38	6	35	12	28	39.2	37.9	36.6	38.4
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4
16	28	48	38	6	35	12	28	34.6	33.5	32.3	33.9
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2

dryspin® technology | Lead screw nuts | Product Range

Cost-effective injection-molded lead screw nuts, sleeve (form S)

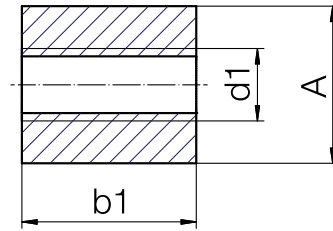
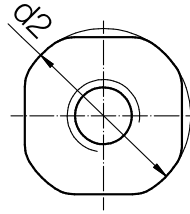


Image exemplary

Technical data

Part No.	Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]
		right	left		
DST-JSRM-C-01-DS4X2.4	Ds4x2.4	●	–	53	152
DST-JSRM-C-01-DS5X5	Ds5x5	●	–	53	152
DST-JS□M-C-01-DS6.35X2.54	Ds6.35x2.54	●	●	159	152
DST-JSRM-C-01-DS6.35X5.08	Ds6.35x5.08	●	–	125	152
DST-JSRM-C-01-DS6.35X12.7	Ds6.35x12.7	●	–	62	152
DST-JSRM-C-01-DS6.35X25.4	Ds6.35x25.4	●	–	69	152
DST-JS□M-C-01-DS8X10	Ds8x10	●	●	203	507
DST-JS□M-C-01-DS8X15	Ds8x15	●	●	203	507
DST-JSRM-C-01-DS8X24	Ds8x24	●	–	173	432.5
DST-JSRM-C-01-DS10X3	Ds10x3	●	–	410	1,025
DST-JS□M-C-01-DS10X12	Ds10x12	●	●	271	677
DST-JS□M-C-01-DS10X25	Ds10x25	●	●	249	623
DST-JS□M-C-01-DS10X50	Ds10x50	●	●	144	361
DST-JSRM-C-01-DS12X5	Ds12x5	●	–	407	1,018
DST-JSRM-C-01-DS12.7X12.7	Ds12.7x12.7	●	–	427	1,067.5
DST-JSRM-C-01-DS12X15	Ds12x15	●	–	659	1,031
DST-JSRM-C-01-DS12X25	Ds12x25	●	–	291	1,018
DST-JS□M-C-01-DS14X25	Ds14x25	●	●	408	1,019
DST-JSRM-C-01-DS14X30	Ds14x30	●	–	408	1,019
DST-JSRM-C-01-DS16X35	Ds16x35	●	–	477	1,192
DST-JS□M-C-01-DS18X24	Ds18x24	●	●	573	1,431
DST-JS□M-C-01-DS18X40	Ds18x40	●	●	546	1,365
DST-E7S□M-C-01-DS6.35X2.54	Ds6.35x2.54	●	●	159	79.5
DST-E7SRM-C-01-DS6.35X5.08	Ds6.35x5.08	●	–	125	62.5
DST-E7SRM-C-01-DS6.35X12.7	Ds6.35x12.7	●	–	62	31.0
DST-E7SRM-C-01-DS6.35X25.4	Ds6.35x25.4	●	–	69	34.5
DST-E7SRM-C-01-DS8X10	Ds8x10	●	–	203	101.5
DST-E7SRM-C-01-DS8X15	Ds8x15	●	–	203	101.5
DST-E7SRM-C-01-DS10X12	Ds10x12	●	–	217	108.5
DST-E7SRM-C-01-DS10X25	Ds10x25	●	–	249	124.5
DST-E7SRM-C-01-DS10X50	Ds10x50	●	–	144	72.0
DST-E7SRM-C-01-DS12X5	Ds12x5	●	–	407	203.5
DST-E7SRM-C-01-DS12X25	Ds12x25	●	–	291	145.5
DST-E7SRM-C-01-DS14X25	Ds14x25	●	–	408	204.0
DST-E7SRM-C-01-DS14X30	Ds14x30	●	–	408	204.0

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



Order key

Type	SW	d2	b1	Thread
DST - J S <input type="checkbox"/> M - C-01-DS 10X12				
dryspin® technology	iglide® material	Form S	Hand of rotation	Metric
Thread: cut	Type	Thread type	Diameter [mm]	Pitch

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

Dimensions [mm]

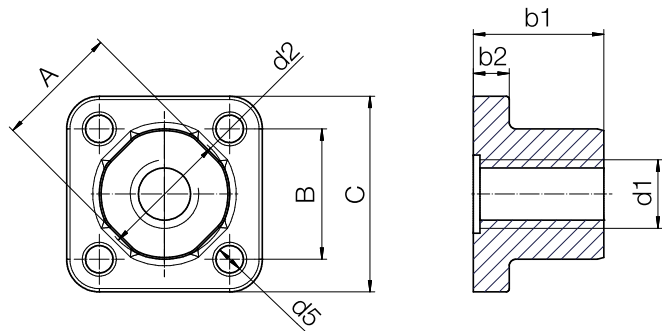
d1 ¹⁵⁶	d2 ¹⁵⁶	A	b1 ¹⁵⁶	Weight [g]
4	12	11	12	1.46
5	12	11	12	1.46
6.35	12	11	12	1.46
6.35	12	11	12	1.46
6.35	12	11	12	1.46
6.35	12	11	12	1.46
8	20	18	20	7.86
8	20	19	20	7.86
8	20	18	20	7.90
10	20	18	20	7.02
10	20	18	20	7.02
10	20	18	20	7.02
10	20	18	20	7.02
12	24	22.6	25	12.64
12	24	22.6	25	12.64
12	24	22.6	25	12.60
12	26	22.6	25	12.64
14	24	22.6	25	11.12
14	24	22.6	25	11.12
16	28	26.2	25	15.45
18	28	26.2	25	13.46
18	28	26.2	25	13.46
6.35	12	11	12	1.20
6.35	12	11	12	1.20
6.35	12	11	12	1.20
6.35	12	11	12	1.20
8	20	18	20	5.00
8	20	18	20	5.00
10	20	18	20	5.00
10	20	18	20	5.00
10	20	18	20	5.00
12	24	22.6	25	9.80
12	26	22.6	25	9.80
14	24	22.6	25	9.80
14	24	22.6	25	9.80

dryspin® technology | Lead screw nuts | Product Range

Cost-effective injection-molded lead screw nuts with flange (form F)



Image exemplary



Technical data

Part No.	Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]
		right	left		
DST-JFRM-C-01-DS5X5	Ds5x5	●	–	53	152
DST-JF□M-C-01-DS6.35X2.54	Ds6.35x2.54	●	●	199	125
DST-JFRM-C-01-DS6.35X5.08	Ds6.35x5.08	●	–	156	125
DST-JFRM-C-01-DS6.35X12.7	Ds6.35x12.7	●	–	78	125
DST-JFRM-C-01-DS6.35X25.4	Ds6.35x25.4	●	–	86	125
DST-JF□M-C-01-DS8X10	Ds8x10	●	●	203	507
DST-JF□M-C-01-DS8X15	Ds8x15	●	●	254	634
DST-JFRM-C-01-DS8X24	Ds8x24	●	–	173	432.5
DST-JFRM-C-01-DS10X3	Ds10x3	●	–	410	1,025
DST-JF□M-C-01-DS10X12	Ds10x12	●	●	338	846
DST-JF□M-C-01-DS10X25	Ds10x25	●	●	312	779
DST-JF□M-C-01-DS10X50	Ds10x50	●	●	181	451
DST-JFRM-C-01-DS12X5	Ds12x5	●	–	570	1,425
DST-JFRM-C-01-DS12.7X12.7	Ds12.7x12.7	●	–	427	1,067.5
DST-JFRM-C-01-DS12X15	Ds12x15	●	–	659	1,031
DST-JFRM-C-01-DS12X25	Ds12x25	●	–	548	1,425
DST-JF□M-C-01-DS14X25	Ds14x25	●	●	571	1,427
DST-JFRM-C-01-DS14X30	Ds14x30	●	–	571	1,427
DST-JFRM-C-01-DS16X35	Ds16x35	●	–	668	1,669
DST-JF□M-C-01-DS18X24	Ds18x24	●	●	802	2,004
DST-JF□M-C-01-DS18X40	Ds18x40	●	●	764	1,911
DST-E7F□M-C-01-DS6.35X2.54	Ds6.35x2.54	●	●	199	80
DST-E7FRM-C-01-DS6.35X5.08	Ds6.35x5.08	●	–	156	63
DST-E7FRM-C-01-DS6.35X12.7	Ds6.35x12.7	●	–	78	31
DST-E7FRM-C-01-DS6.35X25.4	Ds6.35x25.4	●	–	86	35
DST-E7F□M-C-01-DS8X10	Ds8x10	●	●	203	102
DST-E7F□M-C-01-DS8X15	Ds8x15	●	●	254	102
DST-E7F□M-C-01-DS10X12	Ds10x12	●	●	338	136
DST-E7F□M-C-01-DS10X25	Ds10x25	●	●	312	125
DST-E7F□M-C-01-DS10X50	Ds10x50	●	●	181	72

¹⁵⁰⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type	d2	b1	Thread
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DST - J F □ M - C-01-DS 10X12

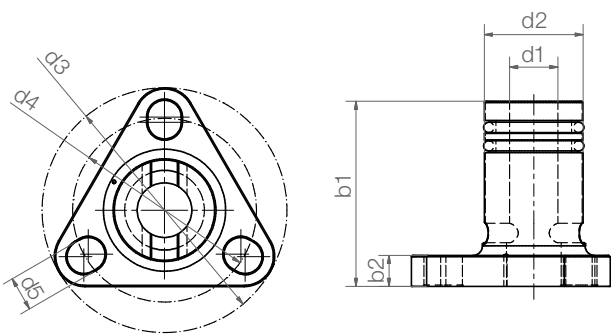
dryspin® technology	iglide® material	Form F	Hand of rotation	Metric	Thread: cut	Type	Thread type	Diameter [mm]	Pitch
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Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
E7	For high speeds

Dimensions [mm]

d1 ¹⁵⁰	d2 ¹⁵⁰	A	B	C	d5	b1 ¹⁵⁰	b2	Weight [g]
5.0	14	11	12	18	3.2	12	4	2.71
6.35	12	11	12	18	3.2	12	4	2.71
6.35	12	11	12	18	3.2	12	4	2.71
6.35	12	11	12	18	3.2	12	4	2.71
6.35	12	11	12	18	3.2	12	4	2.71
8	20	19	20	30	4.2	20	5.5	12.66
8	20	19	20	30	4.2	20	5.5	12.66
8	20	19	20	30	4.2	20	5.5	12.60
10	20	19	20	30	4.2	20	5.5	11.82
10	20	19	20	30	4.2	20	5.5	11.82
10	20	19	20	30	4.2	20	5.5	11.82
10	20	19	20	30	4.2	20	5.5	11.82
12	24	22.6	24	34	5	25	6	18.93
12	24	22.6	24	34	5	25	6	18.93
12	24	22.6	24	34	5	25	6	19.00
12	24	22.6	24	34	5	25	6	18.93
14	24	22.6	24	34	5	25	6	17.41
14	24	22.6	24	34	5	25	6	17.41
16	28	25.5	27	38	6	25	6.5	22.85
18	28	25.5	27	38	6	25	6.5	21.48
18	28	25.5	27	38	6	25	6.5	21.48
6.35	12	11	12	18	3.2	12	4	1.9
6.35	12	11	12	18	3.2	12	4	1.9
6.35	12	11	12	18	3.2	12	4	1.9
6.35	12	11	12	18	3.2	12	4	1.9
8	20	19	20	30	4.2	20	5.5	9.0
8	20	19	20	30	4.2	20	5.5	9.0
10	20	19	20	30	4.2	20	5.5	9.0
10	20	19	20	30	4.2	20	5.5	9.0
10	20	19	20	30	4.2	20	5.5	9.0



Technical data

Part No.	Thread	Max. stat. axial F	Max. idling torque (with O-ring)	Weight
		[N]		[g]
DST-JFRM-LC-0001-DS6.35X2.54	Ds6.35x2.54	40	0.005-0.02	3.8
DST-JFRM-LC-0001-DS6.35X5.08	Ds6.35x5.08	40	0.005-0.02	3.8
DST-JFRM-LC-0001-DS6.35X12.7	Ds6.35x12.7	40	0.005-0.02	3.8
DST-JFRM-LC-0001-DS6.35X25.4	Ds6.35x25.4	40	0.005-0.02	3.8
DST-JFRM-LC-0001-DS8X10	Ds8x10	75	0.01-0.03	12.1
DST-JFRM-LC-0001-DS8X15	Ds8x15	75	0.01-0.03	12.1
DST-JFRM-LC-0001-DS10X12	Ds10x12	75	0.01-0.03	12.1
DST-JFRM-LC-0001-DS10X25	Ds10x25	75	0.01-0.03	12.1
DST-JFRM-LC-0001-DS10X50	Ds10x50	75	0.01-0.03	12.1
DST-JFRM-LC-0001-DS12X5	Ds12x5	125	0.03-0.06	18.0
DST-JFRM-LC-0001-DS12X25	Ds12x25	125	0.03-0.06	18.0
DST-JFRM-LC-0001-DS14X25	Ds14x25	125	0.03-0.08	18.0
DST-JFRM-LC-0001-DS14X30	Ds14x30	125	0.03-0.08	18.0
DST-JFRM-LC-0001-DS14X40.6	Ds14x40.6	125	0.03-0.08	18.0

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



Order key

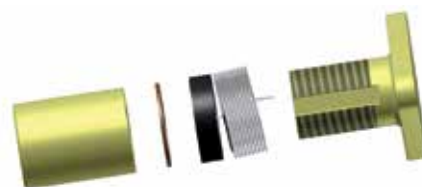
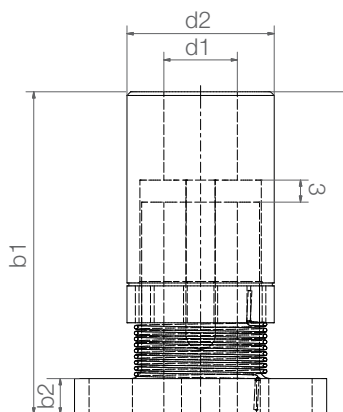
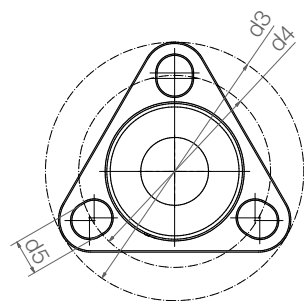
Part number Type Thread

DST-JFRM-LC-0001-DS10X12

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

Part No.	Thread	d1 ⁽¹⁰⁾	d2 ⁽¹⁰⁾	d3	d4	d5	b1 ⁽¹⁰⁾	b2
DST-JFRM-LC-0001-DS6.35X2.54	Ds6.35x2.54	6.35	10	28.5	22.2	3.7	25.0	4.1
DST-JFRM-LC-0001-DS6.35X5.08	Ds6.35x5.08	6.35	10	28.5	22.2	3.7	25.0	4.1
DST-JFRM-LC-0001-DS6.35X12.7	Ds6.35x12.7	6.35	10	28.5	22.2	3.7	25.0	4.1
DST-JFRM-LC-0001-DS6.35X25.4	Ds6.35x25.4	6.35	10	28.5	22.2	3.7	25.0	4.1
DST-JFRM-LC-0001-DS8X10	Ds8x10	8	16	38.1	28.3	5.2	28.8	4.8
DST-JFRM-LC-0001-DS8X15	Ds8x15	8	16	38.1	28.3	5.2	28.8	4.8
DST-JFRM-LC-0001-DS10X12	Ds10x12	10	16	38.1	28.3	5.2	28.8	4.8
DST-JFRM-LC-0001-DS10X25	Ds10x25	10	16	38.1	28.3	5.2	28.8	4.8
DST-JFRM-LC-0001-DS10X50	Ds10x50	10	16	38.1	28.3	5.2	28.8	4.8
DST-JFRM-LC-0001-DS12X5	Ds12x5	12	20	41.1	31.8	5.2	44.0	7.0
DST-JFRM-LC-0001-DS12X25	Ds12x25	12	20	41.1	31.8	5.2	44.0	7.0
DST-JFRM-LC-0001-DS14X25	Ds14x25	14	20	41.1	31.8	5.2	44.0	7.0
DST-JFRM-LC-0001-DS14X30	Ds14x30	14	20	41.1	31.8	5.2	44.0	7.0
DST-JFRM-LC-0001-DS14X40.6	Ds14x40.6	14	20	41.1	31.8	5.2	44.0	7.0



Installation instructions and video tutorials
► www.igus.com/zero-backlash-nut

Technical data

Part No.	Thread	Max. stat. axial F	Max. idling torque (with spring) ¹⁷⁰⁾ from	Weight
		[N]	[Nm]	[g]
DST-JFRM-ZB-0001-DS5X5	Ds5x5	75	0.02	5.1
DST-JFRM-ZB-0001-DS6.35X2.54	Ds6.35x2.54	75	0.02	5.1
DST-JFRM-ZB-0001-DS6.35X5.08	Ds6.35x5.08	75	0.02	5.1
DST-JFRM-ZB-0001-DS6.35X12.7	Ds6.35x12.7	75	0.02	5.1
DST-JFRM-ZB-0001-DS6.35X25.4	Ds6.35x25.4	75	0.02	5.1
DST-JFRM-ZB-0001-DS8X10	Ds8x10	150	0.03	15.2
DST-JFRM-ZB-0001-DS8X15	Ds8x15	150	0.03	15.2
DST-JFRM-ZB-0001-DS8X24	Ds8x24	150	0.03	15.2
DST-JFRM-ZB-0001-DS10X12	Ds10x12	150	0.04	15.2
DST-JFRM-ZB-0001-DS10X25	Ds10x25	150	0.04	15.2
DST-JFRM-ZB-0001-DS10X50	Ds10x50	150	0.04	15.2

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.



Order key

Part number Type Thread

DST-J F R M -ZB-0001-DS10 X12

dryspin® technology	iglide® J	Form F	Hand of rotation	Metric	Zero-backlash	Type 0001	Thread type	Thread Ø [mm]	Pitch
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Dimensions [mm]

Part No.	d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ^{40) 156)}	b2
DST-JFRM-ZB-0001-DS5X5	5	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	6.35	13.5	28	22.2	3.7	31 – 36	4.1
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	8	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	10	20	38.1	28.3	5.2	41 – 47	4.8

⁴⁰⁾ Variable according to thread pitch / clearance¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

igus® offers a large modular kit for dryspin® lead screw drives. Bearing housing for lead screws and lead screw nuts enable the design of a custom linear system. With drylin® E lead screw motors, dryspin® combines the highest precision with a longer service life.



Lead screw nut housings

- Universal support for dryspin® lead screw nut with flange
 - Material: anodized aluminum
 - Available individually or completely pre-assembled
- Page 1520



Lead screw support blocks

- Lead screw support block including clamping rings and lubrication-free plain bearings
 - Material: anodized aluminum
 - Fixed and floating bearing version available
- Page 1522



drylin® E lead screw motor with dryspin® technology

- NEMA 11/17/23 stepper motors
 - Direct centering of the dryspin® lead screw for highest precision
 - Many combination options
- Page 1649



Special components

- Special machined lead screw which can be configured online
- Custom machining nuts/lead screw upon request



drylin® lead screw technology – trapezoidal and metric threads

Self-locking

Maintenance-free dry operation

Resistant to dirt, long service life

Lead screw nuts made from self-lubricating
dry-tech® polymers

Lead screws made from steel, stainless steel or
aluminum



Radial loads

drylin® lead screw nuts are designed to absorb axial forces. Any radial forces that may occur in the application should be absorbed by additional linear guides.

► **drylin® linear technology, from page 1073**

Temperature

drylin® lead screw nuts, which are manufactured from maintenance-free iglide® materials, are suited for use in temperatures ranging from -4°F to +194°F (+302°F, depending on material). Please note that the temperature also has an effect on the clearance of the nut, as well as the maximum load capacity. 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 iglide® J or iglide® A180 must be used for applications in humid environments, especially for wet applications. These materials are characterized by very low moisture absorption.

► **iglide® J, page 193** and ► **iglide® A180, page 493**

Dirt

With the use of the maintenance-free iglide® materials for lead screw nut production, drylin® lead screw drives feature completely dry operation. Due to the deliberate avoidance of lubricants, the adhesion of soft particles such as dust and fibers 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 chips or granite dust, the lead screw should be covered.

Lead screw drive inspection

drylin® 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.

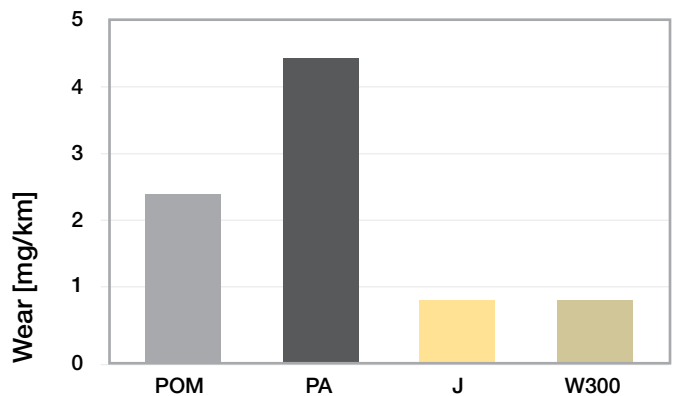


Diagram 01: Wear test on a rolled trapezoidal lead screw

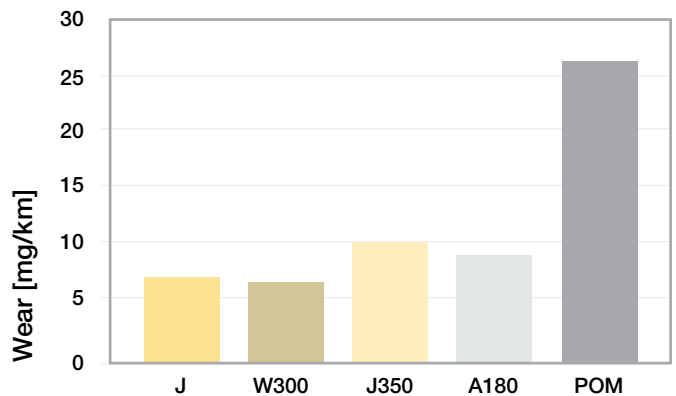


Diagram 02: Wear test on a C15 lead screw
Stroke 140mm, 50N, lead screw C15 rolled, 450rpm

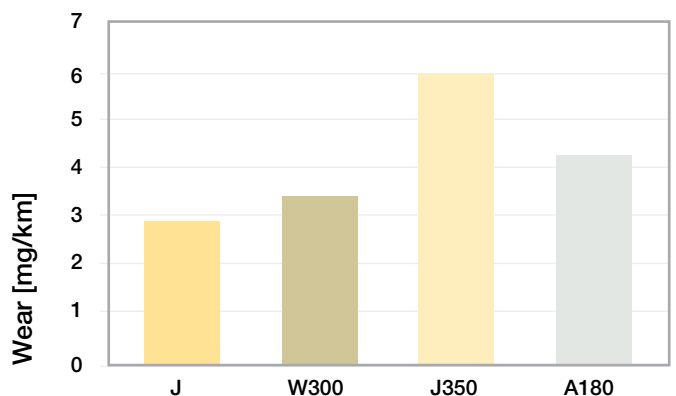


Diagram 03: Wear test on a VA lead screw
Stroke 140mm, 50N, lead screw VA rolled, 450rpm

Noise

Noise can generally occur with the use of lead screw drives. In particular, long lead screws and long travel distances can cause self-induced vibrations in the systems.

Due to their good sliding properties, lead screw nuts made from the tribologically optimized iglide® materials tend to develop less noise than conventional plastics or metallic materials, such as bronze or brass. If your lead screw drive develops noise, please contact us to discuss this with our experts.

► **Anti-backlash lead screw nut, page 1504**

Clearance

The reliable operation of lead screw drives requires a basic amount of clearance. 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 accounted for in the application must also take into account the friction heat generated by the application. The use of lead screw drives is therefore not recommended for precision drives without conducting practical tests. In practice, preload has proven to be an effective countermeasure for undesirable clearance. 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. drylin® lead screw nuts are characterized by a low coefficient of friction, resulting in high efficiencies.

Single start trapezoidal lead screw nuts achieve efficiencies between 20 and 48% in dry operation.

High helix lead screw nuts achieve efficiencies between 50 and 80% in dry operation.

Even though drylin® lead screw nuts were developed for completely dry operation, lubrication can help to increase efficiency.

Self-locking

Single start trapezoidal and metric lead screw drives are self-locking. 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.

Anti-backlash lead screw nuts

Backlash is the phenomenon created on the lead screw drives by the axial clearance. By adding a radial preload, vibrations are significantly reduced.



Anti-backlash lead screw nuts in a glue application system of a seam gluing machine (wood industry). These ensure the utmost precision for this clearance-free adjustment drive.



Format adjustment in the paper industry with anti-backlash lead screw nut

Zero-backlash lead screw nuts

Lead screw drives with high helix thread for quick adjustments of small loads. The zero-backlash principle provides for minimal backlash for the life of the product. Ideal for precise positioning and feed movements in medical, laboratory and printing systems and other life science fields.

High helix lead screw nuts without zero-backlash feature or trapezoidal threads should be used for high loads, dirt accumulation or extreme external influences.

drylin® TR | Trapezoidal thread | Technical Data

Installation of lead screw nuts

drylin® lead screw nuts must be secured against twisting and sag.

Lead screw nuts with flange

The maximum tightening torque for the assembly of lead screw nuts with flange 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.

Sleeve lead screw nuts

The outer diameter of sleeve lead screw nuts is not designed for a press fit. We therefore recommend the use of spanner flat. 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 are necessary in each case.

Lead screw selection

The suitability and the operating behavior 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 a single source. Lead screws are inspected with DIN 103-compliant gauges. In principle, drylin® lead screw drives can be used with lead screws made from steel, stainless steel or hard-anodized aluminum. "Split" 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. Please send us your drawing. We can then provide a quotation quickly.



Custom lead screw example

Custom nuts

Take advantage of our machining service - we manufacture ready-to-fit lead screw nuts based on your requirements. Please send us your drawing. We can then provide a quotation quickly.



Custom nut examples

Material selection

drylin® lead screw nuts are supplied in 7 standard materials:

iglide® J: This material has the best coefficient of friction with most lead screw materials and low moisture absorption
► **iglide® J, page 193**

iglide® W300: This material features high static strength
► **iglide® W300, page 211**

iglide® J350: This material features high resistance to temperatures. Lead screw nuts made from iglide® J350 can be used up to 150°C.
► **iglide® J350, page 251**

iglide® R: This low-cost material is characterized by a low coefficient of friction and low wear.
► **iglide® R, page 303**

iglide® A180: This material meets the requirements of the Food and Drug Administration (FDA) and can therefore be used in direct contact with food and pharmaceuticals.
► **iglide® A180, page 493**

iglide® E7: The durable specialist on steel for high speeds and low wear
► **iglide® E7, Page 327**

iglide® J200: The specialist on hard anodized aluminum with low coefficient of friction and wear
► **iglide® J200, page 321**

Service life

drylin® lead screw nuts are made from tribologically optimized materials. Already during the development phase, the focus is on optimizing the friction properties of the drylin® 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 lab in Cologne. Our experts will gladly test your application as well.



Test rig at the igus® lab to determine service life

igus® material	Surface pressure [MPa]
igus® J	4.0
igus® W300	5.0
igus® J350	3.0
igus® R	2.0
igus® A180	3.5
igus® E7	0.5
igus® J200	2.0

Table 01: Permitted continuous surface pressure in the threads

Tightening torque for drylin® connections between metal parts

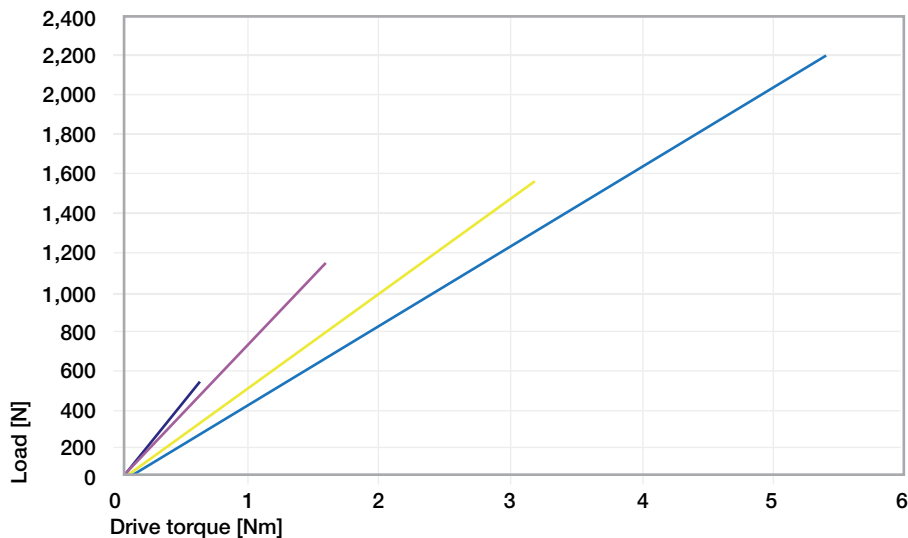
Metric thread (Da)	Tightening torque [Nm]	Recommended tightening torque [Nm]
M3	0.5–1.1	0.7
M4	1.0–2.8	1.5
M5	2.0–5.5	3.0
M6	4.0–10.0	6.0
M8	8.0–23.0	15.0
M10	22.0–46.0	30.0

Please be aware of the minimal screw-in depth for aluminum and zinc parts: 1.5xDa

drylin® TR | Trapezoidal thread | Technical Data

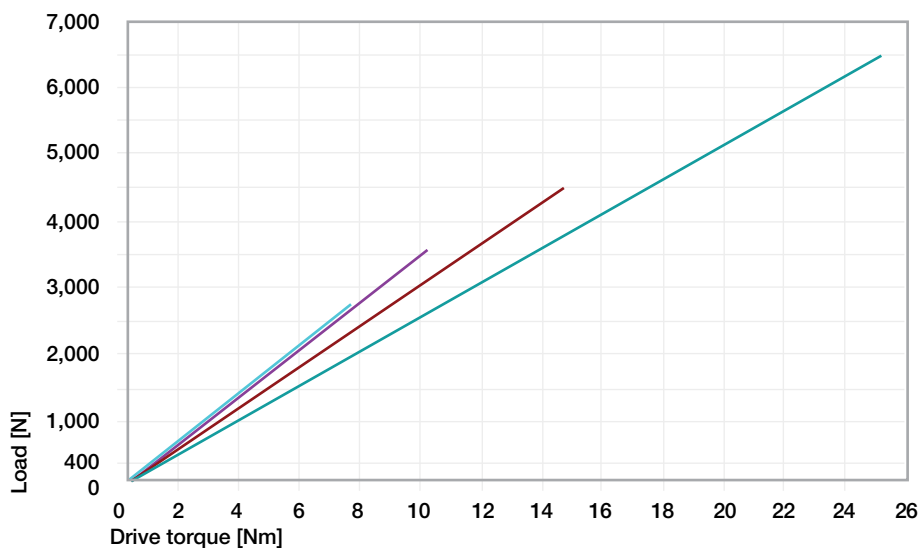
Required drive torque

The required drive torque of the lead screw nut is obtained from the axial load, the lead screw pitch, the coefficient of surface friction of the lead screw drive and the lead screw support. At high speeds, the acceleration torque must be taken into account, which may cause increased breakaway torque depending on the installation. Dirt, dust and the surface or the condition of the lead screw can increase the drive torque. However, lubrication can temporarily reduce the required drive forces.



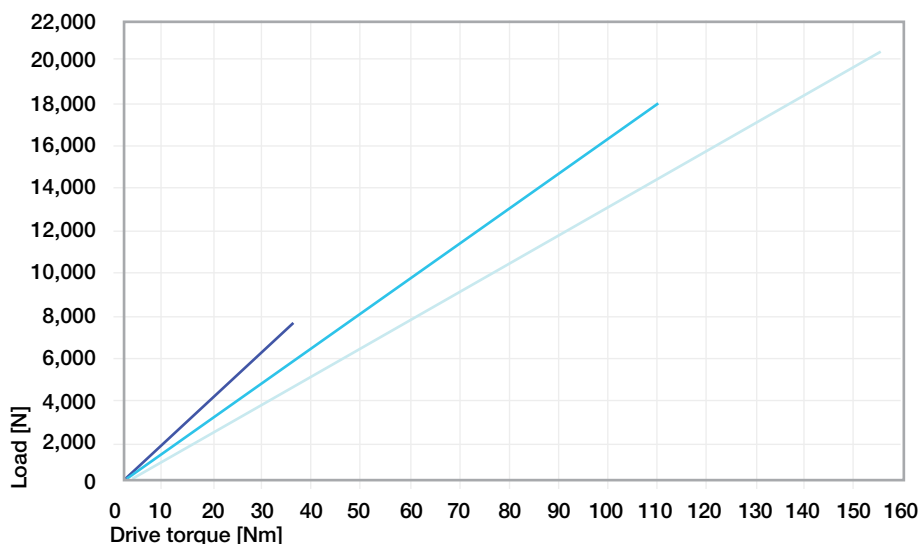
- Tr8x1.5
- Tr10x2
- Tr12x3
- Tr14x4

Diagram 06:
Required drive torque of lead screw drives Ø8 to Ø14 - assuming $\mu = 0.25$, without considering the lead screw support



- Tr16x4
- Tr18x4
- Tr20x4
- Tr24x5

Diagram 07:
Required drive torque of lead screw drives Ø16 to Ø24 - assuming $\mu = 0.25$, without considering the lead screw support



- Tr30x6
- Tr40x7
- Tr50x8

Diagram 08:
Required drive torque of lead screw drives Ø30 to Ø50 - assuming $\mu = 0.25$, without considering the lead screw support

drylin® TR | Trapezoidal thread | Technical Data

Max. permissible pv value

With the pv value and the effective support surface stated in the dimensions tables, the permissible sliding speed and from it the feed rate for each thread size can be determined.

Operating time (ESD)	pv value _{max.} [MPa · m/s]	(applicable for iglide® J, W300, A180, R and J350)
100 %	0.08	
50 %	0.2	
10 %	0.4	

**Table 03: Standard values when using drylin® plastic nuts without lubrication (with 500mm stroke).
A correction factor must be reckoned for very short or long strokes.**

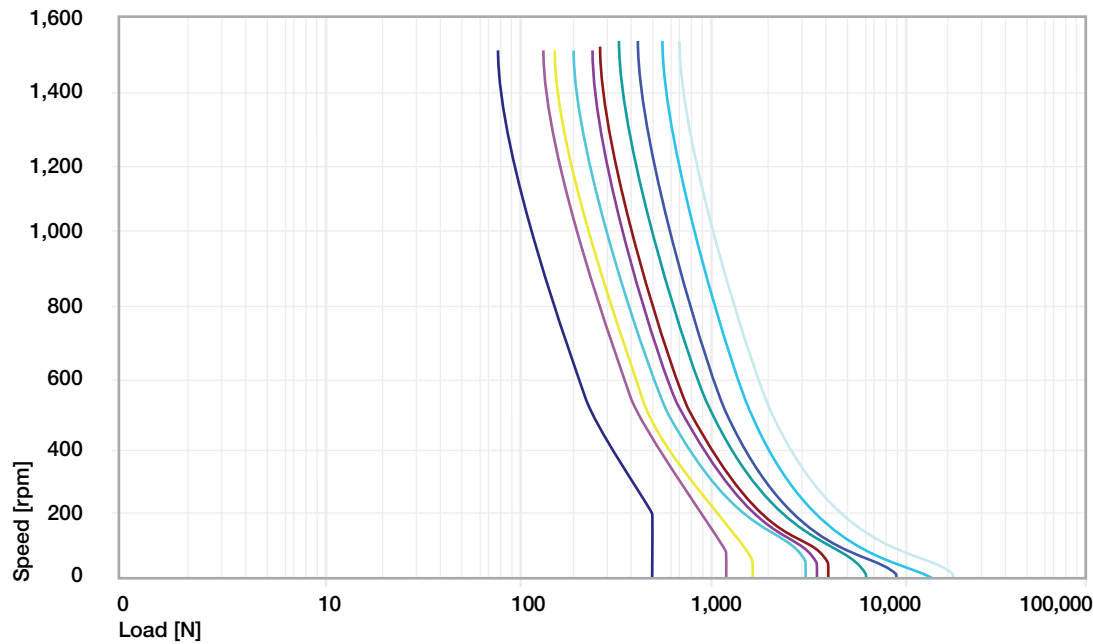


Diagram 09: Maximum dynamic load for lead screw drives with 10% ESD

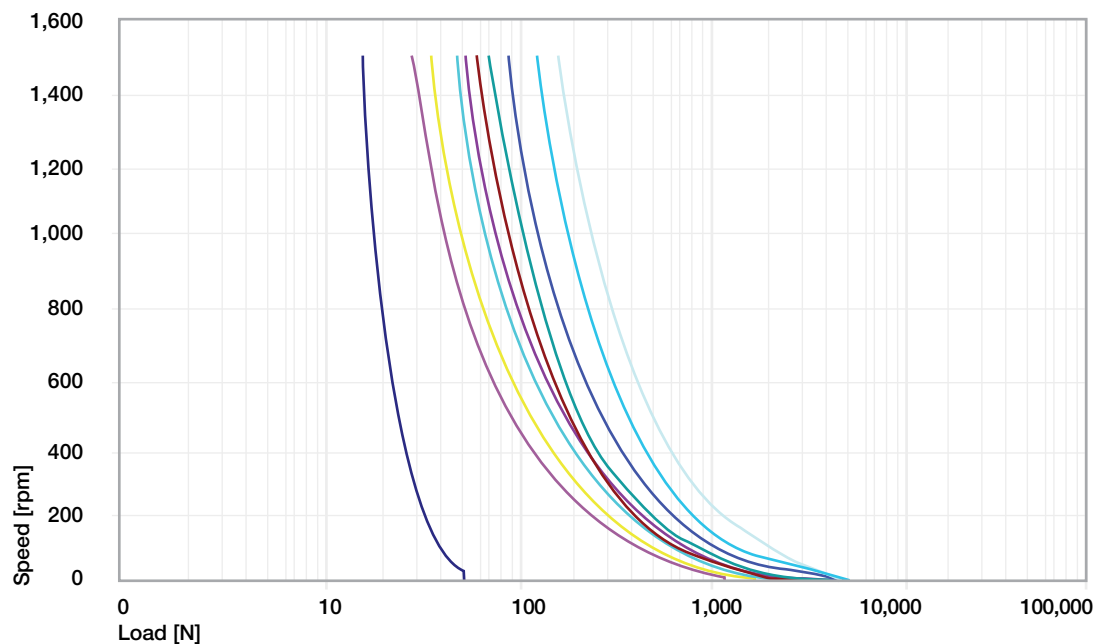


Diagram 10: Maximum dynamic load for lead screw drives with 100% ESD

- Tr8x1.5
- Tr10x2
- Tr12x3
- Tr16x4
- Tr18x4
- Tr20x4
- Tr24x5
- Tr30x6
- Tr40x7
- Tr50x8

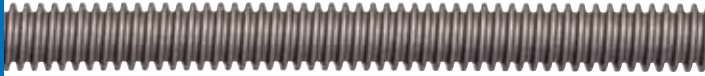
Single start lead screws



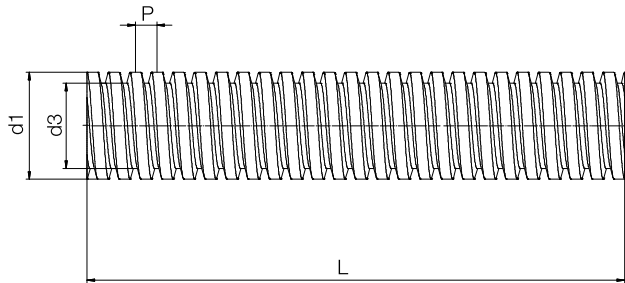
C15, rolled, AISI 1015



Stainless steel, rolled, AISI 304



Aluminum, rolled (EN AW 6082)



Technical data

Lead Accuracy	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Straightened*	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa per mm² (elongation limit 0.2mm).

*Special - Can be ordered using the SD Configurator
 ► www.igus.com/lead-screw-configurator

Dimensions [mm]

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



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Order key

Part number	Thread	Options
PTGSG-10X 2 -01- R -1000-ES		
Lead screw	Diameter	Pitch
Number of thread pitches	Hand of rotation	Length [mm]
Lead screw material	Options: Hand 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: Aluminum, rolled	



ACME thread (US standard)

▶ page 1523

Technical data

Thread	Hand of rotation		Material						Lead P [mm]	Pitch angle α [°]
	right	left	C15	Stainless steel AISI 304	Stainless steel AISI 303	Stainless steel AISI 316L	Stainless steel AISI 321	Aluminum EN AW 6082		
Tr8x1,5	●	●	●	●	-	-	-	-	1.5	3.42
Tr10x2	●	●	●	●	-	-	-	●	2	3.64
Tr10x3	●	●	●	-	-	●	-	-	3	5.45
Tr12x3	●	●	●	●	-	-	-	●	3	4.55
Tr14x3	●	●	●	●	-	-	-	-	3	3.90
Tr14x4	●	●	●	-	-	-	●	-	4	5.20
Tr16x2	●	●	●	-	●	-	-	-	2	2.28
Tr16x4	●	●	●	●	-	-	-	●	4	4.55
Tr18x4	●	●	●	●	-	-	-	●	4	4.05
Tr20x4	●	●	●	●	-	-	-	●	4	3.64
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



The biggest online lead screw shop

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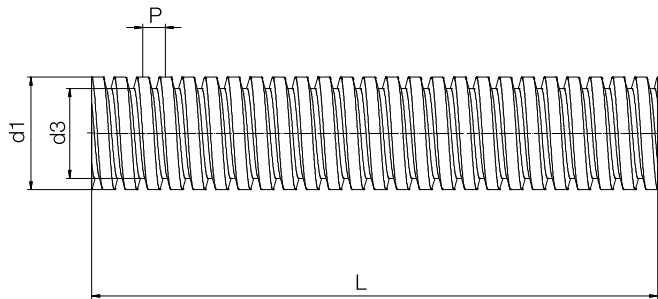
Multi start lead screws



C15, rolled, AISI 1015



Stainless steel, rolled, AISI 304



Technical data

Lead accuracy	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Straightened*	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e

*Special - Can be ordered using the SD Configurator
 ► www.igus.com/lead-screw-configurator

Dimensions [mm]

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



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Order key

Part number	Thread	Options
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PTGSG-10X4P2-02- R -1000-ES

Lead screw	Diameter	Pitch	Number of thread pitches	Hand of rotation	Length [mm]	Lead screw material
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Options:

Hand 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:** Aluminum, rolled

Technical data

Thread	Hand of rotation		Material		Lead P [mm]	Pitch angle α [°]	Weight	
	right	left	C15	Stainless steel			C15	Stainless steel
				AISI 304		[kg/m]	[kg/m]	
Tr06x2P1	●	–	●	●	2	6.06	0.22	0.22
Tr10x4P2	●	●	●	●	4	7.26	0.62	0.62
Tr12x6P3	●	●	●	●	6	9.04	0.89	0.89
Tr16x8P4	●	●	●	●	8	9.04	1.58	1.59
Tr18x8P4	●	●	●	●	8	8.05	2.00	2.01
Tr20x8P4	●	●	●	●	8	7.26	2.47	2.48



Order key

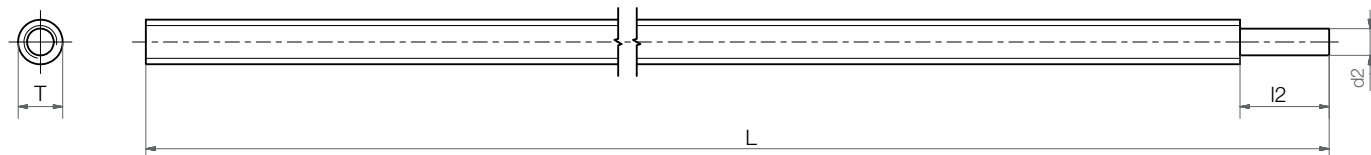
Part number	Thread	Options
PTGSG-10 X 2-01- R -1000- Z- <input type="text"/> -ES		
Lead screw	Diameter	Pitch
Number of thread pitches	Hand of rotation	Length [mm]
??	??	Lead screw material

Options:

Hand 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:** Aluminum, rolled

Dimensions [mm]

Part No.	Thread	l2	d2	Material	Max. length
PTGSG-10x2-01-R- <input type="text"/> ⁴⁹⁾ - Z-17	Tr10x2	17	6 h9	C15	1,000
PTGSG-10x2-01-R- <input type="text"/> ⁴⁹⁾ - Z-17-ES	Tr10x2	17	6 h9	ES	1,000
PTGSG-14x4-01-R- <input type="text"/> ⁴⁹⁾ - Z-20	Tr14x4	20	8 h9	C15	2,000
PTGSG-14x4-01-R- <input type="text"/> ⁴⁹⁾ - Z-20-ES	Tr14x4	20	8 h9	ES	2,000
PTGSG-18x4-01-R- <input type="text"/> ⁴⁹⁾ - Z-118	Tr18x4	118	12 h9	C15	2,000
PTGSG-18x4-01-R- <input type="text"/> ⁴⁹⁾ - Z-118-ES	Tr18x4	118	12 h9	ES	2,000
PTGSG-24x5-01-R- <input type="text"/> ⁴⁹⁾ - Z-144	Tr24x5	144	14 h9	C15	2,000
PTGSG-24x5-01-R- <input type="text"/> ⁴⁹⁾ - Z-144-ES	Tr24x5	144	14 h9	ES	2,000

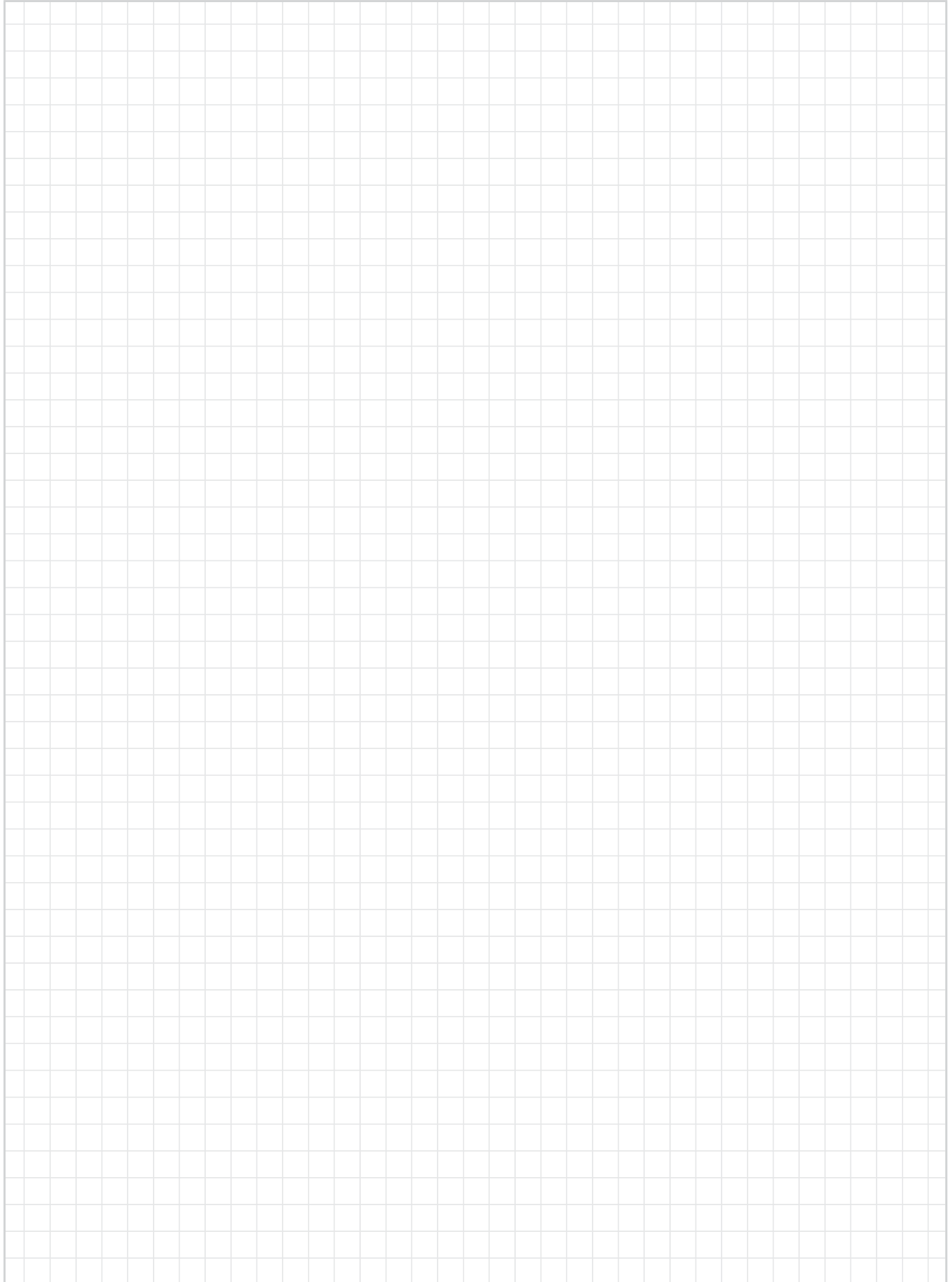
⁴⁹⁾ Length in mm, with left-hand thread on request

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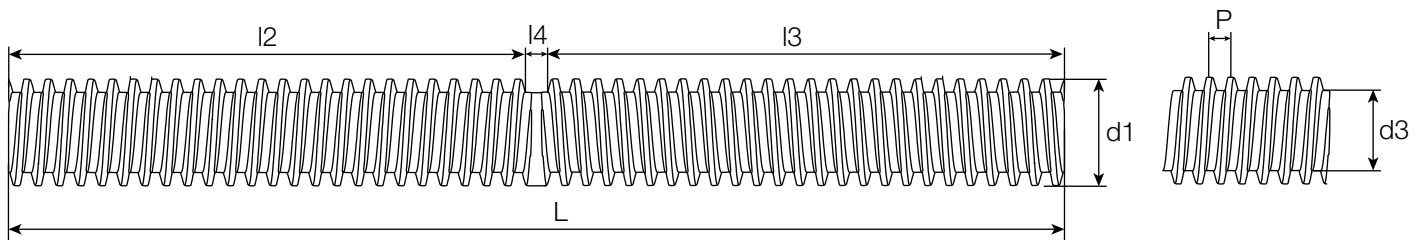
Notes





Lead accuracy	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Straightened*	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e

*Special - Can be ordered using the SD Configurator
 ► www.igus.com/lead-screw-configurator



Dimensions [mm]

Part No.	Major Ø d1		Minor Ø d3		Thread transition l4 ⁴⁶⁾	Max. total length L
	min.	max.	min.	max.		
PTGSG-10X2-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾	9.8	10	7.2	7.5	20	1,000
PTGSG-14X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾	13.7	14	9.1	9.5	30	1,000
PTGSG-18X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾	17.7	18	12.5	13.5	55	1,500
PTGSG-20X4-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾	19.7	20	14.5	15.5	55	2,000
PTGSG-24X5-01-R/L-□ ⁴⁷⁾ -□ ⁴⁸⁾	23.7	24	17.3	18.5	60	2,000

⁴⁶⁾ Non-usable thread transition

⁴⁷⁾ Length right-hand thread (l3)

⁴⁸⁾ Length left-hand thread (l2)



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Part number	Thread	Options
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PTGSG-10X2-01-R/L-100-100-ES

Lead screw	Diameter	Pitch	Thread pitches	LH/RH	⁴⁷⁾ Length right-hand [mm]	⁴⁸⁾ Length left-hand [mm]	Lead screw material
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Options:

⁴⁷⁾ **I3:** Length right-hand thread

⁴⁸⁾ **I2:** Length left-hand thread

Length in mm: Freely selectable (see table)

Lead screw material

Blank: C15, rolled, AISI 1015

ES: Stainless steel: rolled, AISI 304

Technical data

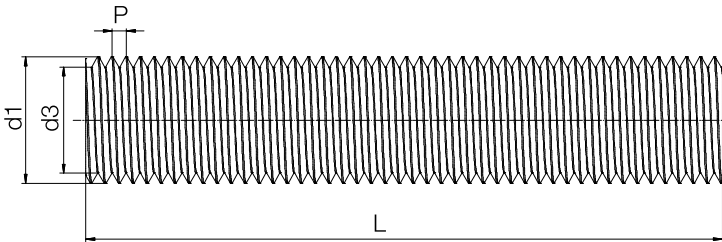
Thread	Material		Lead P [mm]	Pitch angle α [°]	Weight	
	C15	Stainless steel AISI 304			C15 [kg/m]	Stainless steel [kg/m]
Tr10x2	●	●	2	3.64	0.62	0.62
Tr14x4	●	●	4	5.20	1.21	1.22
Tr18x4	●	●	4	4.05	2.00	2.01
Tr20x4	●	●	4	3.64	2.47	2.48
Tr24x5	●	●	5	3.79	3.55	3.57



Technical data

Lead accuracy	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Straightened*	<0.1mm to 300mm
Tolerance	6g
(according to DIN 13)	

*Special - Can be ordered using the SD Configurator
 ► www.igus.com/lead-screw-configurator



Dimensions [mm]

Part No.	Major Ø		Minor Ø		Max. total length L
	min.	max.	min.	max.	
PTGSG-M3-01-R- <input type="checkbox"/> -ES	2.8	3.0	2.2	2.3	1,000
PTGSG-M4-01-R- <input type="checkbox"/> -ES	3.8	4.0	2.9	3.1	1,000
PTGSG-M5-01-R- <input type="checkbox"/> -ES	4.8	4.9	3.8	4.0	1,000
PTGSG-M6-01-R- <input type="checkbox"/> -ES	5.7	5.9	4.5	4.7	1,000



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Order key

Part number

Thread

Options

PTGSG-M3-01-R-1000-ES

Lead screw

Thread size

Thread pitches

Hand of rotation

Length [mm]

Lead screw material

Options:

Length in mm: Freely selectable (see table)

Lead screw material

ES: Stainless steel: rolled, AISI 304

Technical data

Thread	Hand of rotation right	Material Stainless steel AISI 304	Lead 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

drylin® TR | Lead screw nuts | Technical data



Highly efficient at all speeds
iglide® J



Highly resilient and wear-resistant:
iglide® W300

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
Single start	η	μ	η	μ
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	–	–



For temperatures up to +302°F:
iglide® J350



For medium to high speeds:
iglide® R

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
Single start	η	μ	η	μ
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	–	–	–	–

drylin® TR | Lead screw nuts | Technical data



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



For high speeds:
iglide® E7

Thread	Efficiency	Coefficient of friction	Efficiency	Coefficient of friction
Single start	η	μ	η	μ
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	–	–	–	–



The specialist on hard anodized aluminum: iglide® J200

Thread	Efficiency	Coefficient of friction
Single start	η	μ
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

drylin® TR | Lead screw nuts | Product Range

Single start lead screw nuts, sleeve (form S)



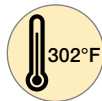
iglide® J



iglide® W300



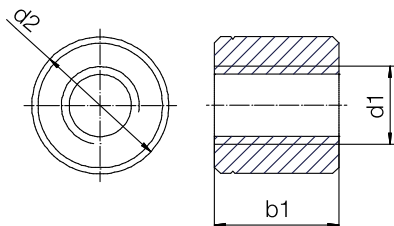
iglide® J350



iglide® R



iglide® A180



Dimensions [mm]

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

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



Order key

Type d2 b1 Thread

□ S R M - 22 15 TR 10X2

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

Options:

Hand of rotation

R: Right-hand thread**L:** Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation		Effective supporting surface [mm]	Max. stat. axial F [N]				
	right	left		iglide®				
				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

drylin® TR | Lead screw nuts | Product Range

Single start lead screw nuts, sleeve (form S)



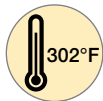
iglide® J



iglide® W300



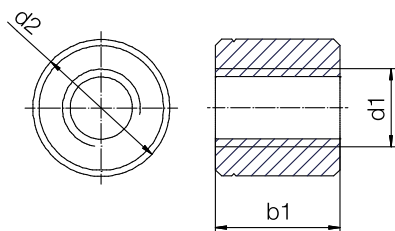
iglide® J350



iglide® R



iglide® A180



Dimensions [mm]

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	b1 ¹⁵⁰	Weight [g]				
				J	W300	iglide®		
						J350	R	A180
□S□M-3025TR20X4	20	30	25	14.6	15.1	14.1	13.6	14.3
□S□M-4530TR20X4	20	45	30	57.0	58.9	55.1	53.2	55.9
□S□M-4540TR20X4	20	45	40	76.1	78.5	73.5	71.0	74.5
□S□M-5036TR24X5	24	50	36	81.1	83.6	78.3	75.6	79.4
□S□M-5048TR24X5	24	50	48	108.1	111.5	104.4	100.8	105.9
□S□M-5039TR26X5	26	50	39	83.2	85.9	80.5	77.7	81.6
□S□M-5052TR26X5	26	50	52	111.0	114.5	107.3	103.5	108.8
□S□M-6042TR28X5	28	60	42	138.4	142.8	133.8	129.1	135.6
□S□M-6056TR28X5	28	60	56	184.5	190.4	178.3	172.2	180.8
□S□M-6045TR30X6	30	60	45	142.2	146.7	137.4	132.6	139.3
□S□M-6060TR30X6	30	60	60	189.6	195.6	183.2	176.9	185.8
□S□M-6060TR32X6	32	60	60	180.9	186.7	174.8	168.7	177.2
□S□M-7572TR36X6	36	75	72	364.8	376.4	-	-	357.4
□S□M-7680TR40X7	40	76	80	391.0	403.4	-	-	383.1
□S□M-90100TR50X8	50	90	100	655.3	-	-	-	-

¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type d2 b1 Thread

□ S R M - 30 25 TR 20X4



Options:

Hand of rotation

R: Right-hand thread

L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation		Effective supporting surface [mm]	Max. stat. axial F [N]				
	right	left		iglide®				
				J	W300	J350	R	A180
Tr20x4	●	●	707	2,060 ⁴³⁾	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	●	●	3,134	12,535	15,669	9,401	6,267	10,968
Tr36x6	●	●	3,732	14,929	18,661	-	-	13,063
Tr40x7	●	●	4,587	18,347	22,934	-	-	16,054
Tr50x8	●	●	7,226	28,903	-	-	-	-

⁴³⁾ Reduced axial load due to nut geometry

drylin® TR | Lead screw nuts | Product Range

Multi start lead screw nuts, sleeve (form S)



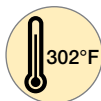
iglide® J



iglide® W300



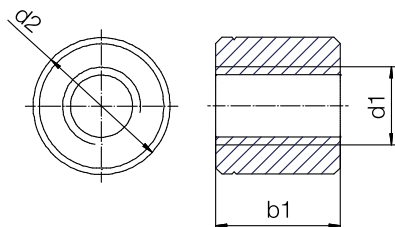
iglide® J350



iglide® R



iglide® A180



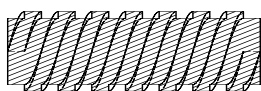
Dimensions [mm]



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

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



Definition: Multi start trapezoidal lead screw
Example 8P4 pitch



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



Order key

Type	d2	b1	Thread
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S	R	M	- 28 35 TR 12X6P3
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iglide® material	Form S	Hand of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter	Pitch
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Options:

Hand of rotation

R: Right-hand thread**L:** Left-hand thread

J	High efficiency at all speeds
W300	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]				
	right	left		iglide®				
				J	W300	J350	R	A180
Tr06x2P1	●	–	112	200 ⁴³⁾	200 ⁴³⁾	200 ⁴³⁾	200 ⁴³⁾	200 ⁴³⁾
Tr10x4P2	●	●	396	1,346	1,682	1,009	673	1,178
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	●	–	804	2,734	3,418	2,051	1,367	2,393
Tr20x8P4	●	–	1,131	3,845	4,807	2,884	1,923	3,365

⁴³⁾ Reduced axial load due to nut geometry



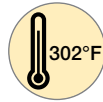
iglide® J



iglide® W300



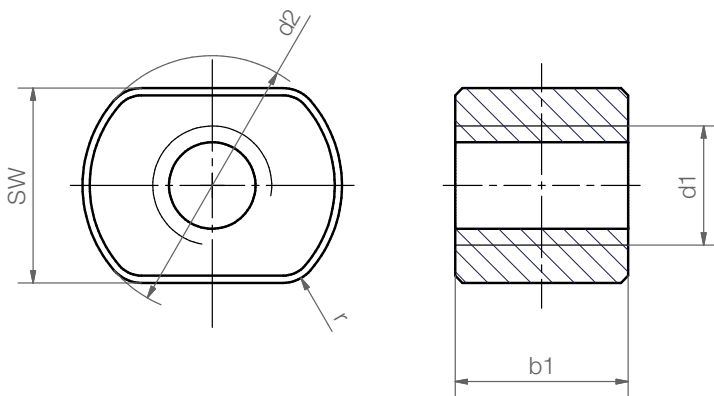
iglide® J350



iglide® R



iglide® A180



Dimensions [mm]

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	b1 ¹⁵⁰	SW	Weight [g]				
					iglide®				
					J	W300	J350	R	A180
□S□M-172220TR10X2	10	22	20	17	4.7	3.9	4.5	4.4	4.6
□S□M-192624TR12X3	12	26	24	19	10.9	9.1	10.5	10.2	10.7
□S□M-273624TR16X4	16	36	24	27	22.0	18.3	21.3	20.5	21.6
□S□M-304540TR20X4	20	45	40	30	57.3	47.7	55.4	53.5	56.2
□S□M-365048TR24X5	24	50	48	36	75.7	63.0	73.2	70.6	74.2
□S□M-456060TR30X6	30	60	60	45	126.4	105.2	123.8	122.1	117.9

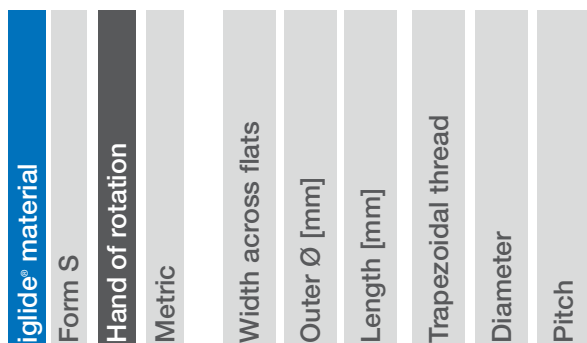
¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type SW d2 b1 Thread

S R M - 17 22 20 TR 10X2



Options:

Hand of rotation

R: Right-hand thread

L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation		Effective support surface [mm]	Max. stat. axial F [N]				
	right	left		iglide®				
				J	W300	J350	R	A180
Tr10x2	●	●	283	1,131	1,414	848	565	990
Tr12x3	●	●	396	1,583	1,979	1,188	792	1,385
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr20x4	●	●	1,131	4,524	5,655	3,393	2,262	3,958
Tr24x5	●	●	1,621	6,484	8,105	4,863	3,242	5,674
Tr30x6	●	●	2,545	10,179	12,723	7,634	5,089	8,906

drylin® TR | Lead screw nuts | Product Range

Single start lead screw nuts with flange (form F)



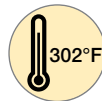
iglide® J



iglide® W300



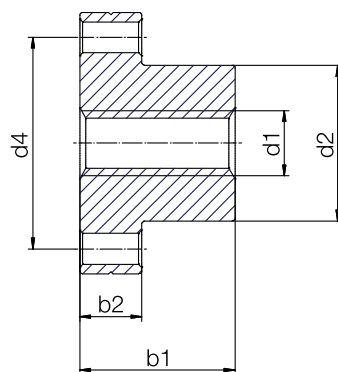
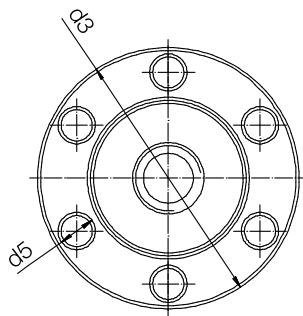
iglide® J350



iglide® R



iglide® A180



Dimensions [mm]

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	d3	d4	d5	b1 ¹⁵⁰	b2	Weight [g]					
								iglide®					
								J	W300	J350	R	A180	J200
□F□M-2020TR8X1.5	8	20	36	28	4	20	8	16.3	13.5	15.7	15.2	15.9	-
□F□M-2525TR10X2	10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	-
□F□M-2525TR10X3	10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	-
□F□M-2835TR12X3	12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	-
□F□M-2835TR14X3	14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	-
□F□M-2835TR14X4	14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	-
□F□M-2835TR16X2	16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50
□F□M-2835TR16X4	16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50
□F□M-2835TR18X4	18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48
□F□M-3244TR20X4	20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73
□F□M-3244TR24X5	24	32	55	45	7	44	12	51.2	42.6	49.5	47.7	50.1	66
□F□M-3846TR26X5	26	38	62	50	7	46	14	80.7	67.1	78.0	75.2	79.0	-
□F□M-3846TR28X5	28	38	62	50	7	46	14	74.8	62.3	72.3	69.8	73.3	-
□F□M-3846TR30X6	30	38	62	50	7	46	14	68.6	57.1	66.3	64.0	67.2	-
□F□M-4546TR30X6	30	45	70	58	7	46	16	114.4	95.2	-	-	112.1	-
□F□M-4546TR32X6	32	45	70	58	7	46	16	72.6	60.4	-	-	-	-
□F□M-6770TR36X6	36	67	95	81	7	70	25	394.3	-	-	-	-	-
□F□M-6770TR40X7	40	67	95	81	7	70	25	369.4	-	-	-	-	-

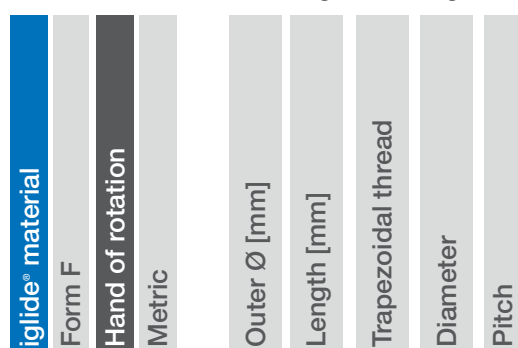
¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type d2 b1 Thread

F R M - 22 20 TR 10X2



Options:

Hand of rotation

R: Right-hand thread

L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
J200	The specialist on hard anodized aluminum

Technical data

Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]					
	right	left		iglide®					
				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

drylin® TR | Lead screw nuts | Product Range

Multi start lead screw nuts with flange (form F)



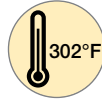
iglide® J



iglide® W300



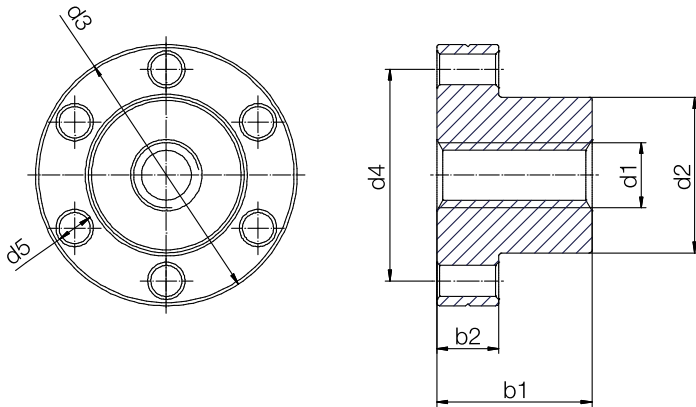
iglide® J350



iglide® R



iglide® A180



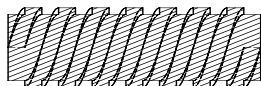
Dimensions [mm]

Part No.	d1 ¹⁵⁰⁾	d2 ¹⁵⁰⁾	d3	d4	d5	b1 ¹⁵⁰⁾	b2	Weight [g]					
								iglide®					
								J	W300	J350	R	A180	J200
□FRM-1315TR06X2P1	6	13	25	19	3.2	15	5	5.0	4.2	4.8	4.7	4.9	-
□FRM-2525TR10X4P2	10	25	42	34	5	25	10	25.6	21.3	25.1	24.8	23.9	-
□F□M-2835TR12X6P3	12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	-
□F□M-2835TR16X8P4	16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50
□FRM-2835TR18X8P4	18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48
□FRM-3244TR20X8P4	20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73

¹⁵⁰⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Definition: Multi start trapezoidal lead screw
Example 8P4 pitch



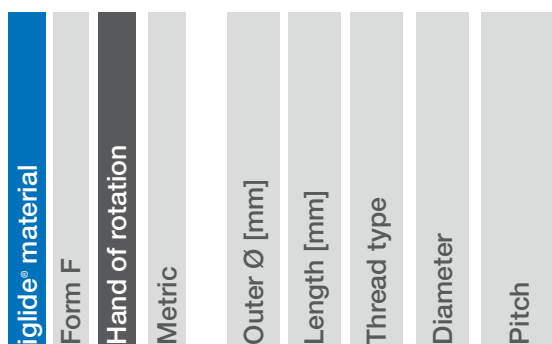
P4 pitch: Distance to the next thread pitch 4mm
Lead 8: Lead 8mm



Order key

Type d2 b1 Thread

F R M - 28 35 TR 12X6P3



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

- J** High efficiency at all speeds
- W(300)** Extremely strong and wear-resistant
- J350** For temperatures up to +302°F
- R** The cost-effective option for high volume
- A180** FDA-compliant for the food and pharmaceutical industries
- J200** The specialist on hard anodized aluminum

Technical data

Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]					
	right	left		iglide®					
				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



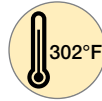
iglide® J



iglide® W300



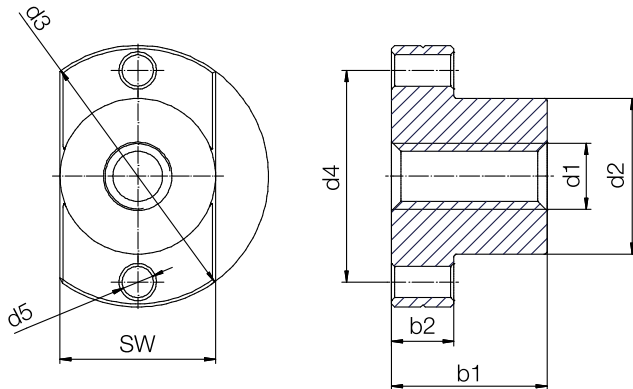
iglide® J350



iglide® R



iglide® A180



Dimensions [mm]

Part No.	d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	d3	d4	d5	b1 ¹⁵⁶⁾	b2	SW	Weight [g]				
									iglide®				
									J	W300	J350	R	A180
□F□M-202020TR8X1.5	8	20	36	28	4	20	8	20	12.7	10.6	11.8	–	12.4
□F□M-252525TR10X2	10	25	42	34	5	25	10	25	23.7	19.7	22.1	–	23.2
□F□M-282835TR12X3	12	28	48	38	6	35	12	28	39.2	32.7	36.6	–	38.4
□F□M-282835TR14X4	14	28	48	38	6	35	12	28	37.1	30.9	34.6	–	36.4
□F□M-282835TR16X4	16	28	48	38	6	35	12	28	34.6	28.8	32.3	–	33.9
□F□M-282835TR18X4	18	28	48	38	6	35	12	28	31.9	26.5	29.7	–	31.2
□FRM-131315TR06X2P1	6	13	25	19	3.2	15	5	13	3.8	3.1	3.5	–	3.7
□FRM-090913M5	5	9	18	15.2	3.2	13	3	9	1.3	1.1	1.2	–	1.3

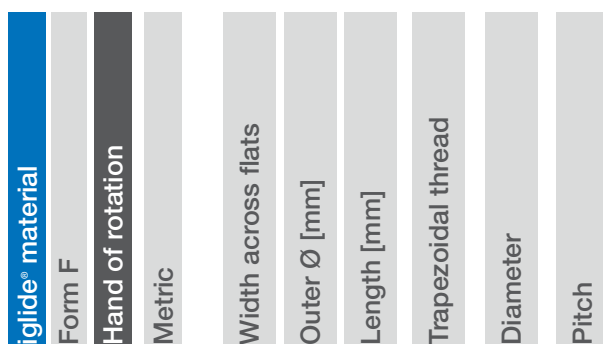
¹⁵⁶⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type	SW	d2	b1	Thread
------	----	----	----	--------

F R M - 13 13 13 TR 6X2 P1



Options:

Hand of rotation

R: Right-hand thread

L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation		Effective support surface [mm ²]	Max. stat. axial F [N]				
	right	left		iglide®				
Single start				J	W300	J350	R	A180
Tr8x1.5	●	●	228	911	1,139	683	456	797
Tr10x2	●	●	353	1,414	1,767	1,060	707	1,237
Tr12x3	●	●	577	2,309	2,886	1,732	1,155	2,020
Tr14x4	●	●	660	2,639	3,299	1,979	1,319	2,309
Tr16x4	●	●	770	3,079	3,848	2,309	1,539	2,694
Tr18x4	●	●	880	3,519	4,398	2,639	1,759	3,079
Multi start								
Tr06x2P1	●	–	118	175 ⁴³⁾	175 ⁴³⁾	175 ⁴³⁾	175 ⁴³⁾	175 ⁴³⁾
Metric								
M5	●	–	56	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾	75 ⁴³⁾

⁴³⁾ Reduced load due to nut geometry

drylin® TR | Lead screw nuts | Product Range

Metric lead screw nuts, right-hand thread



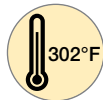
iglide® J



iglide® W300



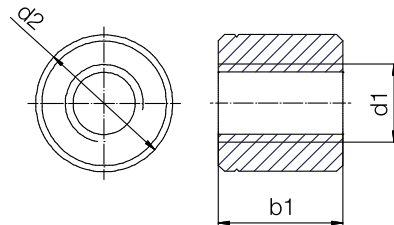
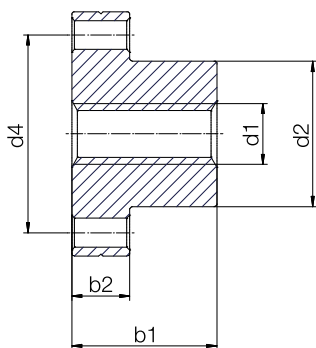
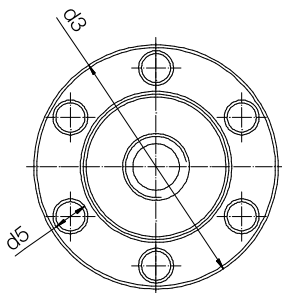
iglide® J350



iglide® R



iglide® A180



Also available as flanged nut and spanner flats ► Page 1492

Dimensions [mm]

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	b1 ¹⁵⁰	Weight [g]				
				iglide®				
				J	W300	J350	R	A180
Sleeve (form S)								
<input type="checkbox"/> SRM-1413M3	3	14	13	2.8	2.4	2.7	2.7	2.8
<input type="checkbox"/> SRM-1413M4	4	14	13	2.7	2.3	2.6	2.6	2.7
<input type="checkbox"/> SRM-1413M5	5	14	13	2.6	2.2	2.5	2.4	2.5
<input type="checkbox"/> SRM-1413M6	6	14	13	2.4	2.0	2.4	2.3	2.4
With flange (form F)								
	d1	d2	d3	d4	d5	b1	b2	
<input type="checkbox"/> FRM-0913M3	3	9	18	15.2	3.2	13	3	1.9
<input type="checkbox"/> FRM-0913M4	4	9	18	15.2	3.2	13	3	1.8
<input type="checkbox"/> FRM-0913M5	5	9	18	15.2	3.2	13	3	1.7
<input type="checkbox"/> FRM-1315M6	6	13	25	19	3.2	15	5	4.7

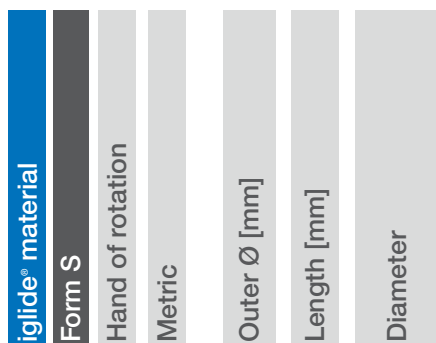
¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type d2 b1 Thread

□ S R M - 14 13 M3



Options:
Form S: Sleeve
Form F: With flange

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

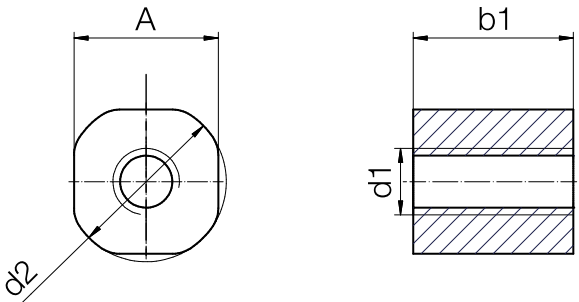
Thread	Effective supporting surface [mm²]	Max. stat. axial F [N]				
		iglide®				
		J	W300	J350	R	A180
Sleeve (form S)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	112	449	562	337	225	393
With flange (form F)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	130	518	648	389	259	454

drylin® TR | Lead screw nuts | Product Range

Cost-effective injection-molded lead screw nuts, sleeve (form S)



Image exemplary



Dimensions [mm]

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	A	b1 ¹⁵⁰	Weight [g]
Single start					
JS□M-C-01-TR8X1.5	8	20	19	20	7.86
E7SRM-C-01-TR8X1.5	8	20	18	20	5.00
JS□M-C-01-TR10X2	10	20	19	20	7.02
E7SRM-C-01-TR10X2	10	20	18	20	5.00
JS□M-C-01-TR10X3	10	20	19	20	7.02
E7SRM-C-01-TR10X3	10	20	18	20	5.00
JS□M-C-01-TR12X3	12	24	22.6	25	12.64
E7SRM-C-01-TR12X3	12	24	22.6	25	9.80
JS□M-C-01-TR14X3	14	24	22.6	25	11.12
E7SRM-C-01-TR14X3	14	24	22.6	25	9.80
JS□M-C-01-TR14X4	14	24	22.6	25	11.12
E7SRM-C-01-TR14X4	14	24	22.6	25	9.80
JS□M-C-01-TR16X2	16	28	26.2	25	15.45
JS□M-C-01-TR16X4	16	28	26.2	25	15.45
JS□M-C-01-TR18X4	18	28	26.2	25	13.46
Multi start					
JSRM-C-01-TR10X4P2	10	20	19	20	7.02
JSRM-C-01-TR12X6P3	12	24	22.6	25	12.64
JSRM-C-01-TR16X8P4	16	28	25.5	25	15.45
JSRM-C-01-TR18X8P4	18	28	25.5	25	13.46

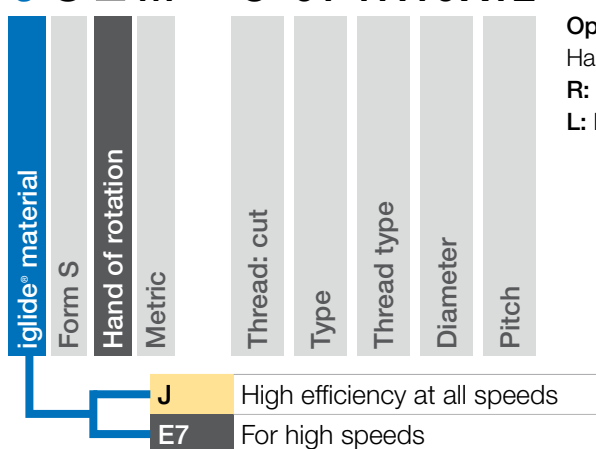
¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Order key

Type	d2	b1	Thread
------	----	----	--------

J S □ M - C-01-TR10X12



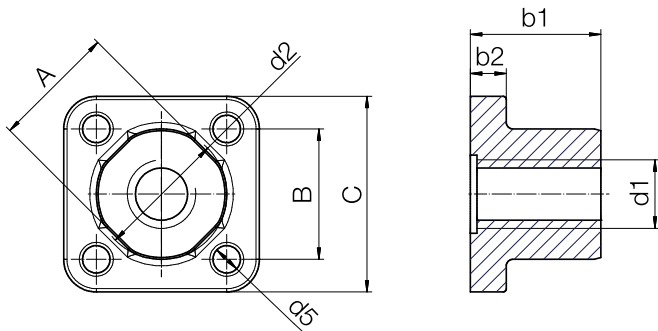
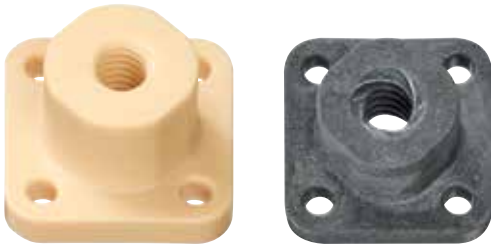
Technical data

Thread	Hand of rotation		Effective supporting surface [mm ²]	Max. static axial F [N]
	right	left		
Single start				
Tr8x1.5	●	●	228	500 ⁴⁹⁾
Tr8x1.5	●	–	228	114.0
Tr10x2	●	●	283	1,131
Tr10x2	●	–	238	119.0
Tr10x3	●	●	267	1,068
Tr10x3	●	–	267	134.0
Tr12x3	●	●	412	1,649
Tr12x3	●	–	412	206.0
Tr14x3	●	●	491	1,963
Tr14x3	●	–	491	245.5
Tr14x4	●	●	471	1,885
Tr14x4	●	–	471	235.5
Tr16x2	●	●	589	2,356
Tr16x4	●	●	550	2,199
Tr18x4	●	●	628	2,362
Multi start				
Tr10x4P2	●	–	325	1.106
Tr12x6P3	●	–	396	1.346
Tr16x8P4	●	–	528	1.794
Tr18x8P4	●	–	804	2.734

⁴⁹⁾ Reduced load due to nut geometry

drylin® TR | Lead screw nuts | Product Range

Cost-effective injection-molded lead screw nuts with flange (form F)



Dimensions [mm]

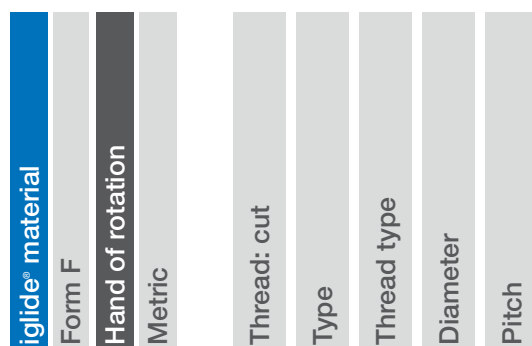
Part No.	d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	B	C	d5	b1 ¹⁵⁶⁾	b2	Weight [g]		
									iglide®		
										J	E7
Single start											
□F□M-C-01-TR8X1.5	8	20	19	20	30	4.2	20	5.5	7.4	1.9	
□F□M-C-01-TR10X2	10	20	19	20	30	4.2	20	5.5	7.4	9.0	
□F□M-C-01-TR10X3	10	20	19	20	30	4.2	20	5.5	7.4	9.0	
JF□M-C-01-TR12X3	12	24	22.6	24	34	5	25	6	10.3	–	
JF□M-C-01-TR14X3	14	24	22.6	24	34	5	25	6	10.3	–	
JF□M-C-01-TR14X4	14	24	22.6	24	34	5	25	6	10.3	–	
JF□M-C-01-TR16X2	16	28	25.5	27	38	6	25	6.5	14.0	–	
JF□M-C-01-TR16X4	16	28	25.5	27	38	6	25	6.5	14.0	–	
JF□M-C-01-TR18X4	18	28	25.5	27	38	6	25	6.5	14.0	–	
Multi start											
□FRM-C-01-TR10X4P2	10	20	19	20	30	4.2	20	5.5	10.9	9.0	
JFRM-C-01-TR12X6P3	12	24	22.6	24	34	5	25	6	19.9	–	
JFRM-C-01-TR16X8P4	16	28	25.5	27	38	6	25	6.5	25.4	–	
JFRM-C-01-TR18X8P4	18	28	25.5	27	38	6	25	6.5	23.9	–	

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



Order key

Type	d2	b1	Thread
J F <input type="checkbox"/> M			- C-01-TR10X12



Options:

Hand of rotation

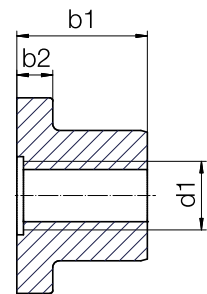
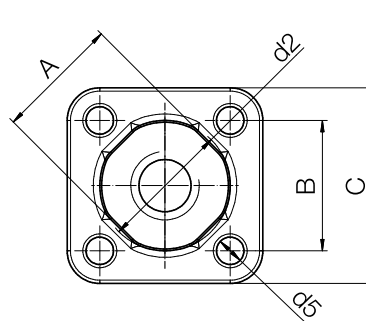
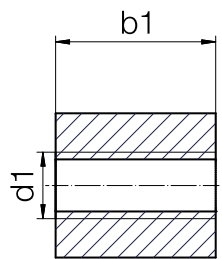
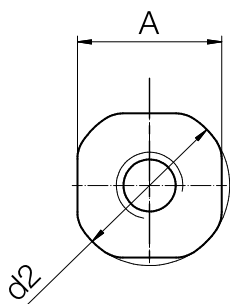
R: Right-hand thread**L**: Left-hand thread**J** High efficiency at all speeds**E7** For high speeds

Technical data

Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]	
	right	left		iglide®	
				J	E7
Single start					
Tr8x1.5	●	●	228	911	114
Tr10x2	●	●	283	1,131	142
Tr10x3	●	●	267	1,068	134
Tr12x3	●	●	412	1,649	-
Tr14x3	●	●	491	1,963	-
Tr14x4	●	●	471	1,885	-
Tr16x2	●	●	589	2,356	-
Tr16x4	●	●	550	2,199	-
Tr18x4	●	●	628	2,513	-
Multi start					
Tr10x4P2	●	-	353	1,202	134
Tr12x6P3	●	-	577	1,963	-
Tr16x8P4	●	-	770	2,617	-
Tr18x8P4	●	-	880	2,991	-

Sleeve (form S)

Flange (form F)



Dimensions [mm]

Part No.	d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g]
Sleeve (form S)					
JSRM-C-01-M5	5	12	11	12	1.67
JSRM-C-01-M6	6	12	11	12	1.52
JSRM-C-01-M8	8	20	19	20	7.86

With flange (form F)	d1	d2	A	B	C	d5	b1	b2	[g]
JFRM-C-01-M5	5	12	11	12	18	3.2	12	4	3.05
JFRM-C-01-M6	6	12	11	12	18	3.2	12	4	2.94
JFRM-C-01-M8	8	20	19	20	30	4.2	20	5.5	13.08

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



Order key

Type d2 b1 Thread

J S R M - C-01-M5

iglide® material	Form S	Hand of rotation	Metric	Thread: cut	Type	Diameter
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Options:

Form S: Sleeve

Form F: With flange

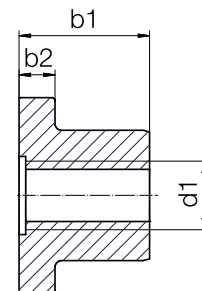
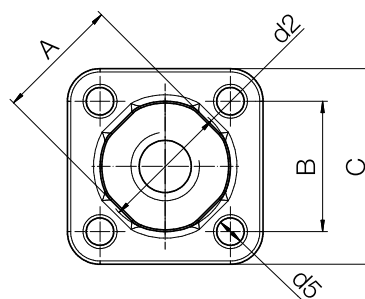
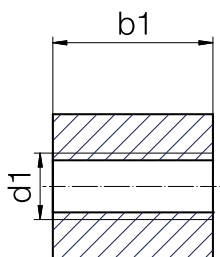
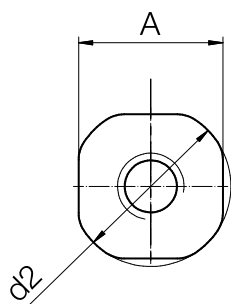
Technical data

Thread	Effective supporting surface [mm ²]	Max. static axial F [N]
Sleeve (form S)		
M5	94	376
M6	112	449
M8	151	602
With flange (form F)		
M5	90	358
M6	104	415
M8	232	927

Sleeve (form S)



Flange (form F)



Dimensions [mm]

Part No.	d1 ¹⁵⁶⁾	d2 ¹⁵⁶⁾	A	b1 ¹⁵⁶⁾	Weight [g]
Sleeve (form S)					
JSRM-M-01-TR8X1.5	8	20	19	20	7.86
JSRM-M-01-TR10X2	10	20	19	20	7.02
JSRM-M-01-TR16X4	16	28	25.5	25	15.45

With flange (form F)	d1	d2	A	B	C	d5	b1	b2	[g]
JFRM-M-01-TR8X1.5	8	20	19	20	30	4.2	20	5.5	7.38
JFRM-M-01-TR10X2	10	20	19	20	30	4.2	20	5.5	7.38
JFRM-M-01-TR16X4	16	28	25.5	27	38	6	25	6.5	13.99

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



Order key

Type d2 b1 Thread

J F R M - M-01-TR10X12

iglide® material	Form F	Hand of rotation	Metric	Thread: injection molding	Type	Thread type	Diameter	Pitch
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Options:

Form S: Sleeve

Form F: With flange

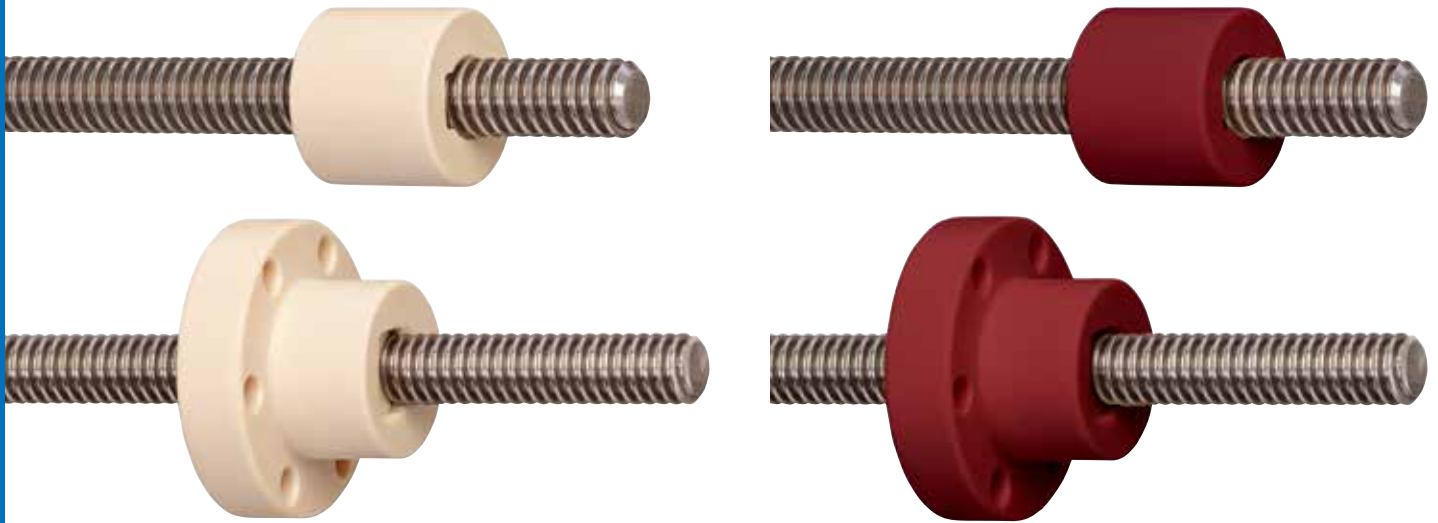
Technical data

Thread	Effective supporting surface [mm ²]	Max. static axial F [N]
Sleeve (form S)		
Tr8x1.5	228	500 ⁴³⁾
Tr10x2	283	1,131
Tr16x4	550	2,199
With flange (form F)		
Tr8x1.5	118	471
Tr10x2	228	911
Tr16x4	353	1,414

⁴³⁾ Reduced load due to nut geometry

drylin® TR | Lead screw nuts | Product Range

Anti-backlash lead screw nuts, sleeve or with flange



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

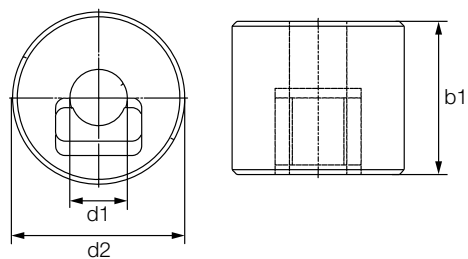
Dimensions [mm] - sleeve design

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	b1 ¹⁵⁰	Weight [g] iglide®	
				J	R
<input type="checkbox"/> SRM-AB-2220-TR8X1.5	8	22	20	9.8	9.2
<input type="checkbox"/> SRM-AB-2220-TR10X2	10	22	20	9.0	8.4
<input type="checkbox"/> SRM-AB-2624-TR12X3	12	26	24	14.9	13.9
<input type="checkbox"/> SRM-AB-3632-TR16X4	16	36	32	38.9	36.3
<input type="checkbox"/> SRM-AB-4036-TR18X4	18	40	36	53.8	50.1
<input type="checkbox"/> SRM-AB-4540-TR20X4	20	45	40	76.1	71.0
<input type="checkbox"/> SRM-AB-5048-TR24X5	24	50	48	108.1	100.8

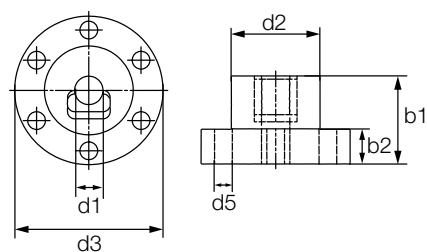
Dimensions [mm] - with flange

Part No.	d1 ¹⁵⁰	d2 ¹⁵⁰	d3	d4	d5	b1 ¹⁵⁰	b2	Weight [g] iglide®	
								J	R
<input type="checkbox"/> FRM-AB-2525-TR10X2	10	25	42	34	5	25	10	28.7	26.8
<input type="checkbox"/> FRM-AB-2525-TR10X3	10	25	42	34	5	25	10	28.7	26.8
<input type="checkbox"/> FRM-AB-2835-TR12X3	12	28	48	35	5	35	12	30.3	28.3
<input type="checkbox"/> FRM-AB-2835-TR14X4	14	28	48	38	6	35	12	45.4	42.4
<input type="checkbox"/> FRM-AB-2835-TR16X2	16	28	48	38	6	35	12	43.0	40.1
<input type="checkbox"/> FRM-AB-2835-TR16X4	16	28	48	38	6	35	12	43.0	40.1
<input type="checkbox"/> FRM-AB-2835-TR18X4	18	28	48	38	6	35	12	40.2	37.5
<input type="checkbox"/> FRM-AB-3244-TR20X4	20	32	55	45	7	44	12	60.2	56.2
<input type="checkbox"/> FRM-AB-3244-TR24X5	24	32	55	45	7	44	12	51.2	47.7

¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



Sleeve (form S)



Flange (form F)



Order key

Type d2 b1 Thread

S R M - AB - 25 25 TR 10X2

iglide® material	Form S	Hand of rotation	Metric	Anti-backlash	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter	Pitch
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Options:

Form S: Sleeve

Form F: With flange

J	High efficiency at all speeds
R	The cost-effective option for high volume

Technical data - sleeve design

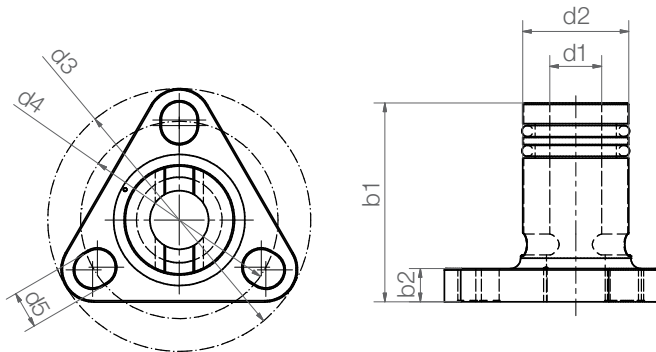
Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]	
	right	left		iglide®	
Sleeve - form S				J	R
Tr8x1.5	●	–	228	683	342
Tr10x2	●	–	283	848	424
Tr12x3	●	–	396	1,188	594
Tr16x4	●	–	704	2,111	1,056
Tr18x4	●	–	905	2,714	1,357
Tr20x4	●	–	1,131	3,393	1,696
Tr24x5	●	–	1,621	4,863	2,432

Technical data - with flange

Thread	Hand of rotation		Effective supporting surface [mm²]	Max. stat. axial F [N]	
	right	left		iglide®	
With flange - form F				J	R
Tr10x2	●	–	353	1,060	530
Tr10x3	●	–	334	1,001	501
Tr12x3	●	–	396	1,188	594
Tr14x4	●	–	471	1,414	707
Tr16x2	●	–	613	1,838	919
Tr16x4	●	–	704	2,111	1,056
Tr18x4	●	–	905	2,714	1,357
Tr20x4	●	–	1,131	3,393	1,696
Tr24x5	●	–	1,621	4,863	2,432

drylin® TR | Lead screw nuts | Product Range

Flange lead screw nuts with pre-load



Order key

Type Thread

J F R M - LC - 0001 TR 10X2

iglide® material	Form F	Hand of rotation	Metric	Low Clearance	Type	Trapezoidal thread	Diameter	Pitch
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Dimensions [mm]

Part No.	Thread	d1 ¹⁵⁰⁾	d2 ¹⁵⁰⁾	d3	d4	d5	b1 ¹⁵⁰⁾	b2
Single start								
JFRM-LC-0001-TR8X1.5	Tr8x1.5	8	16.0	38.1	28.3	5.2	28.3	4.8
JFRM-LC-0001-TR10X2	Tr10x2	10	16.0	38.1	28.3	5.2	28.3	4.8
JFRM-LC-0001-TR10X3	Tr10x3	10	16.0	38.1	28.3	5.2	28.3	4.8
JFRM-LC-0001-TR12X3	Tr12x3	12	20	41.2	31.8	4.8	44.0	7.0
JFRM-LC-0001-TR14X3	Tr14x3	14	20	41.2	31.8	4.8	44.0	7.0
JFRM-LC-0001-TR14X4	Tr14x4	14	20	41.2	31.8	4.8	44.0	7.0
Multi start								
JFRM-LC-0001-TR06X2P1	Tr06x2P1	6	10.0	28.5	22.2	3.7	20.9	4.1
JFRM-LC-0001-TR12X6P3	Tr12x6P3	12	20	41.2	31.8	4.8	44.0	7.0

¹⁵⁰⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Technical data

Part No.	Thread	Max. stat. axial F	Max. idling torque (with O-ring)	Weight
		[N]	[Nm]	[g]
Single start				
JFRM-LC-0001-TR8X1.5	Tr8x1.5	75	0.01–0.03	6.8
JFRM-LC-0001-TR10X2	Tr10x2	75	0.01–0.03	6.8
JFRM-LC-0001-TR10X3	Tr10x3	75	0.01–0.03	6.8
JFRM-LC-0001-TR12X3	Tr12x3	125	0.06	18.0
JFRM-LC-0001-TR14X3	Tr14x3	125	0.08	18.0
JFRM-LC-0001-TR14X4	Tr14x4	125	0.08	18.0
Multi start				
JFRM-LC-0001-TR06X2P1	Tr06x2P1	40	0.01–0.03	3.9
JFRM-LC-0001-TR12X6P3	Tr12x6P3	125	0.06	18.0



drylin® lead screw technology – Special designs

Angular compensation with spherical balls

With “Fast Forward” quick release mechanism

Split lead screw nuts

Accessories for lead screw nuts and lead screws

Self-lubricating and maintenance-free



drylin® TR | Special geometries | Product Range

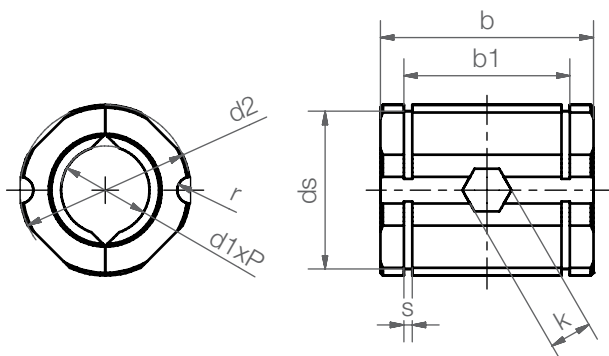
Split lead screw nuts, made from iglide® J



Order key

Part number	Dimension	Thread
J T R M - 22 30 TR 10 X 2		
iglide® material	Split nut	Hand of rotation
		Metric
	d2	b1
		Trapezoidal thread
		Diameter [mm]
		Pitch

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



Dimensions [mm]

Part No.	Thread	b	b1 ¹⁵⁰	d2	ds	k	r	s
JTRM-2230TR10X2	Tr10x2	30	22.6	22	20.5	7	1.5	1.3
JTRM-3240TR20X4	Tr20x4	40	31.2	32	29.6	8	2.5	1.6
JTRM-3240TR20X8P4	Tr20x8P4	40	31.2	32	29.6	8	2.5	1.6

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

⁵⁰ Mounting in the housing via radially inserted nut DIN 934

⁵¹ Mounting in the housing via circlips DIN 471

¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Special geometries | Product Range

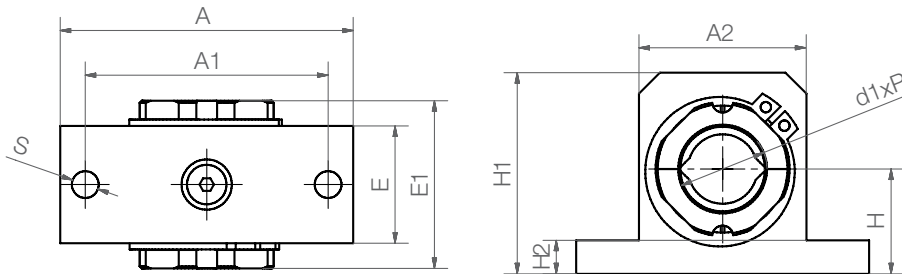
Also available with housing block

drylin®
trapezoidal
thread



Order key

Part number	Thread
RG A S - J T R M - TR 10 X 2	
Linear housing	Aluminum
	Small
	iglide® material
	Split nut
	Hand of rotation
	Metric
	Trapezoidal thread
	Diameter [mm]
	Pitch



Dimensions [mm]

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

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

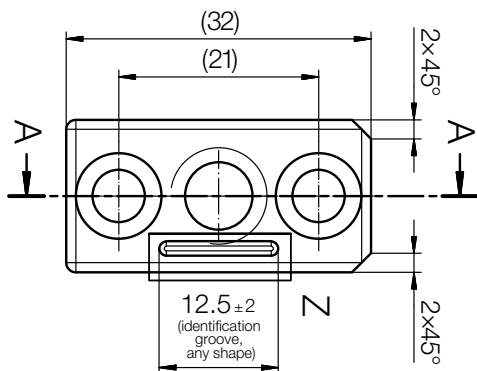
Square lead screw nuts



DST-SHT-1210



SHT-1210-TR



Order key

Order example

DST-SHT-1210-DS10x12-J-□



Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

Dimensions

Part No.	Hand of rotation		Thread d1xP	From SHT linear actuator
	right	left		
DST-SHT-1210-DS10x12-J-□	●	●	Ds10x12	SHT-12 ► Page 1568
DST-SHT-1210-DS10x25-J-□	●	●	Ds10x25	SHT-12 ► Page 1568
DST-SHT-1210-DS10x50-J-□	●	●	Ds10x50	SHT-12 ► Page 1568
SHT-1210-TR10x2-J-□	●	●	Tr10x2	SHT-12 ► Page 1568
SHT-1210-TR10x3-J-□	●	●	Tr10x3	SHT-12 ► Page 1568

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

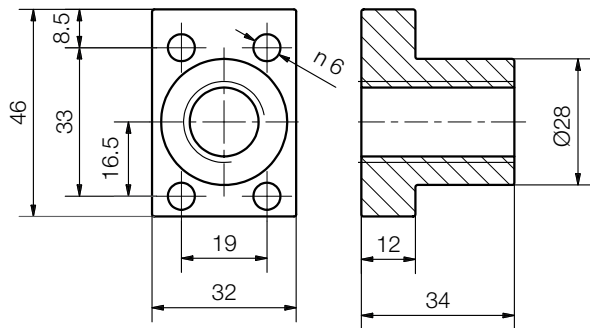
Lead screw nuts with flange



DST-SHT-2018



SHT-2018-TR



Please note: not symmetrical

Order key

Order example

DST-SHT-2018-DS18x24-J-□

High helix thread

SHT linear actuator

Installation size

Thread

iglide® material

Hand of rotation

Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

Dimensions

Part No.	Hand of rotation		Thread d1xP	From SHT linear actuator	
	right	left			
DST-SHT-2018-DS18x24-J-□	●	●	Ds18x24	SHT-20	▶ Page 1568
DST-SHT-2018-DS18x40-J-□	●	●	Ds18x40	SHT-20	▶ Page 1568
DST-SHT-2018-DS18x80-J-□	●	●	Ds18x80	SHT-20	▶ Page 1568
DST-SHT-2018-DS18x100-J-□	●	●	Ds18x100	SHT-20	▶ Page 1568
SHT-2018-TRM-18X4-□	●	●	Tr18x4	SHT-20	▶ Page 1568
SHT-2018-TRM-18X8-□	●	●	Tr18x8p4	SHT-20	▶ Page 1568

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

Lead screw nuts



DST-SLW-063001



SWZ-063009



Order key

Order example

DST-SLW-063001-DS8x10-

High helix thread

SLW linear actuator

Installation size

Thread

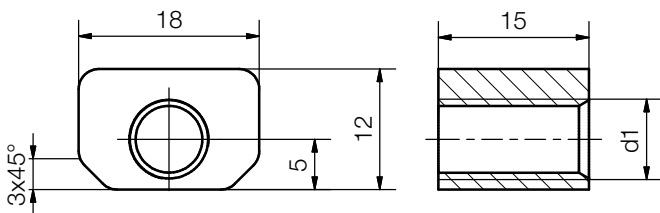
Hand of rotation

Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

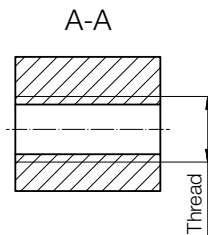
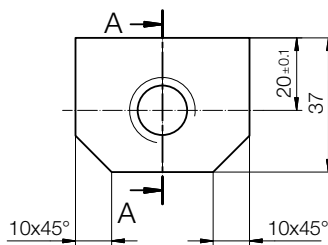


Dimensions

Part No.	Hand of rotation		Thread d1xP	From SLW linear actuator	
	right	left			
DST-SLW-063001-DS8x10- <input type="checkbox"/>	●	●	Ds8x10	SLW-0630	▶ Page 1584
DST-SLW-063001-DS8x15- <input type="checkbox"/>	●	●	Ds8x15	SLW-0630	▶ Page 1584
SWZ-063001	●	-	M8	SLW-0630	▶ Page 1584
SWZ-063003	-	●	M8	SLW-0630	▶ Page 1584
SWZ-063009	●	-	Tr8x1.5	SLW-0630	▶ Page 1584
SWZ-063010	-	●	Tr8x1.5	SLW-0630	▶ Page 1584

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

Lead screw nuts



Order key

Order example

DST-SLW-25120-DS18x24-J-□

High helix thread

SLW linear actuator

Installation size

Thread

iglidur® material

Hand of rotation

Options:

Hand of rotation

RH: Right-Hand

LH: Left-hand

Dimensions

Part No.	Hand of rotation		Thread d1xP	From SLW linear actuator
	right	left		
DST-SLW-25120-DS18x24-J-□	●	●	Ds18x24	SLW-25120 ► Page 1584
DST-SLW-25120-DS18x40-J-□	●	●	Ds18x40	SLW-25120 ► Page 1584
DST-SLW-25120-DS18x80-J-□	●	●	Ds18x80	SLW-25120 ► Page 1584
DST-SLW-25120-DS18x100-J-□	●	●	Ds18x100	SLW-25120 ► Page 1584

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

drylin® TR | Special geometries | Product Range

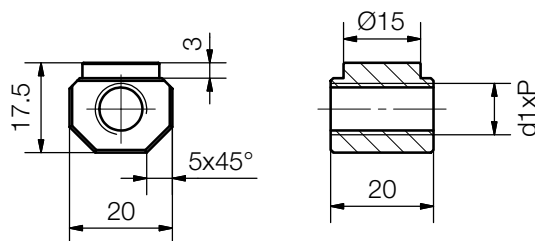
Lead screw nuts with locating spigot



DST-SLW-1040



SWZ-W-10XX

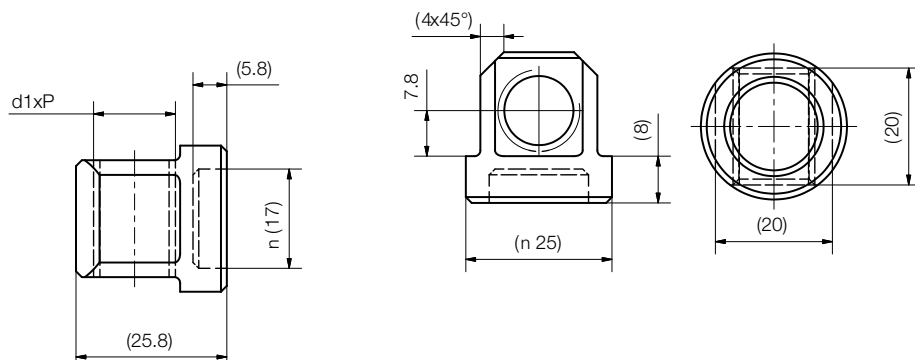


Dimensions

Part No.	Thread d1xP	Hand of rotation	From SLW linear module
DST-SLW-1040-DS10X12-J-RH	Ds10x12	right-hand	SLW-1040 ► Page 1584
DST-SLW-1040-DS10X12-J-LH	Ds10x12	left-hand	SLW-1040 ► Page 1584
DST-SLW-1040-DS10X25-J-RH	Ds10x25	right-hand	SLW-1040 ► Page 1584
DST-SLW-1040-DS10X25-J-LH	Ds10x25	left-hand	SLW-1040 ► Page 1584
DST-SLW-1040-DS10X50-J-RH	Ds10x50	right-hand	SLW-1040 ► Page 1584
DST-SLW-1040-DS10X50-J-LH	Ds10x500	left-hand	SLW-1040 ► Page 1584
SWZ-W-104003	Tr10x2	right-hand	SLW-1040 ► Page 1584
SWZ-W-104004	Tr10x2	left-hand	SLW-1040 ► Page 1584
SWZ-W-104009	TR10x3	right-hand	SLW-1040 ► Page 1584
SWZ-W-104015	Tr10x3	left-hand	SLW-1040 ► Page 1584



SWZ-W-16XX



Dimensions

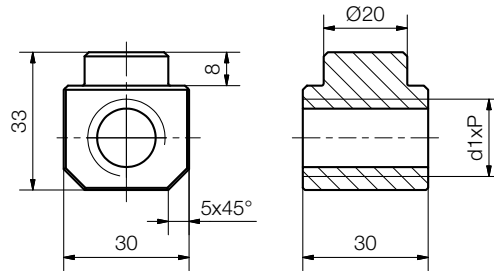
Part No.	Thread d1xP	Hand of rotation	From SLW linear module
SWZ-W-166001	TR14x4	right-hand	SLW-1660 ► Page 1584
SWZ-W-166002	Tr14x3	right-hand	SLW-1660 ► Page 1584
SWZ-W-166003	Tr14x4	left-hand	SLW-1660 ► Page 1584



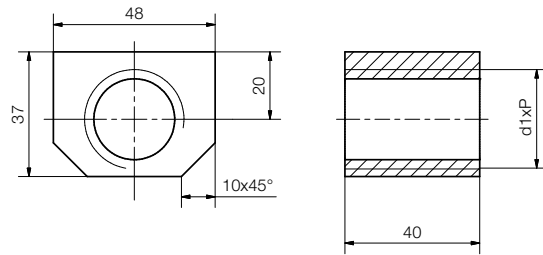
DST-SLW-2080



SWZ-W-20XX



SWZ-W-2080..



SWZ-W-25120..

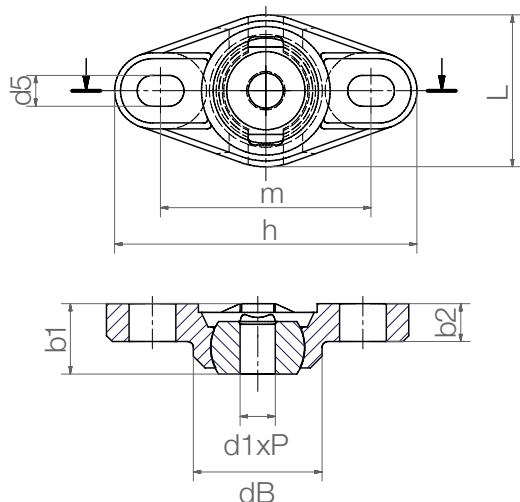
Dimensions

Part No.	Thread d1xP	Hand of rotation	From SLW linear module
DST-SLW-2080-DS18X24-J-RH	Ds18x24	right-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X24-J-LH	Ds18x24	left-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X40-J-RH	Ds18x40	right-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X40-J-LH	Ds18x40	left-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X80-J-RH	Ds18x80	right-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X80-J-LH	Ds18x80	left-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X100-J-RH	Ds18x100	right-hand	SLW-2080 ► Page 1584
DST-SLW-2080-DS18X100-J-LH	Ds18x100	left-hand	SLW-2080 ► Page 1584
SWZ-W-208003	Tr18x4	right-hand	SLW-2080 ► Page 1584
SWZ-W-208004	Tr18x4	left	SLW-2080 ► Page 1584
SWZ-W-208008	Tr18x8p4	right-hand	SLW-2080 ► Page 1584
SWZ-W-208009	Tr18x8p4	left-hand	SLW-2080 ► Page 1584
SWZ-W-2512001 ¹¹⁹⁾	Tr24x5	right-hand	SLW-25120 ► Page 1584
SWZ-W-2512002 ¹¹⁹⁾	Tr24x5	left-hand	SLW-25120 ► Page 1584

¹¹⁹⁾ Without locating spigot

drylin® TR | Special geometries | Product Range

Misalignment compensation lead screw nut with spherical ball in flanged bearing housing



Order key

Part number Thread

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

iglidur® material	Form F	Hand of rotation	Dimensional series K	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

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

Dimensions [mm] – high helix thread

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

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

Misalignment compensation lead screw nut with spherical ball in pillow block bearing housing



Order key

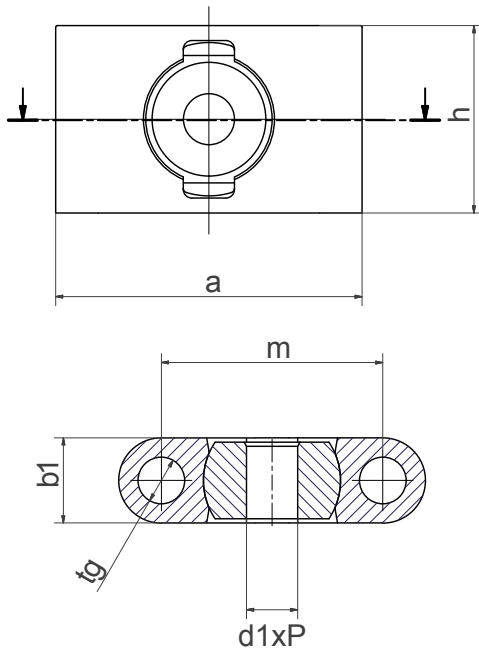
Part number **J F R K M-ESTM-TR 8X1.5** Thread

iglidur® material	Form F	Hand of rotation	Dimensional series K	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

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

Dimensions [mm] – high helix thread

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

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



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 anodized, lead screw nut made from iglide® J
- Tough and reliable
- Only recommended for horizontal applications
- Max. axial load stat.: 200N, dyn.: 50N
see SHT-FF ► **Page 1576**



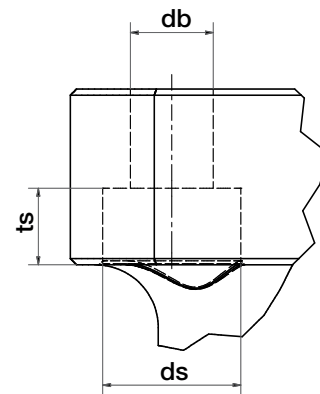
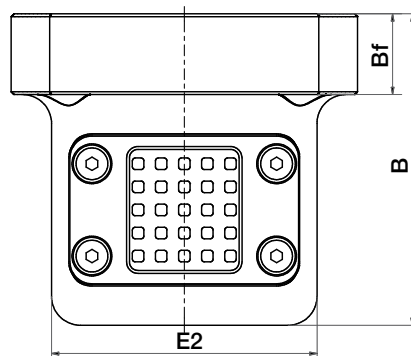
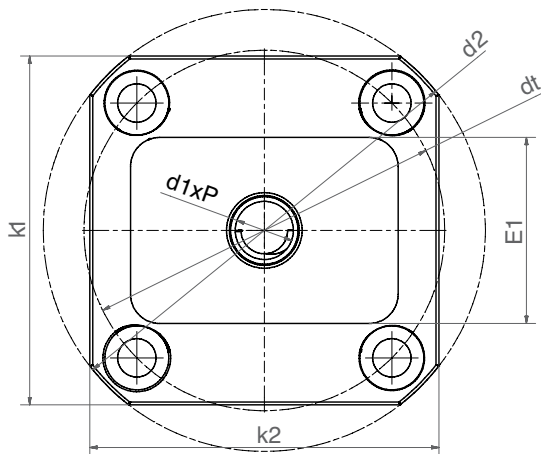
Order key

Part number

Thread

F T R M- FF - 10 X 2

Form F	Trapezoidal thread	Hand of rotation	Metric	Fast Forward	Diameter	Pitch
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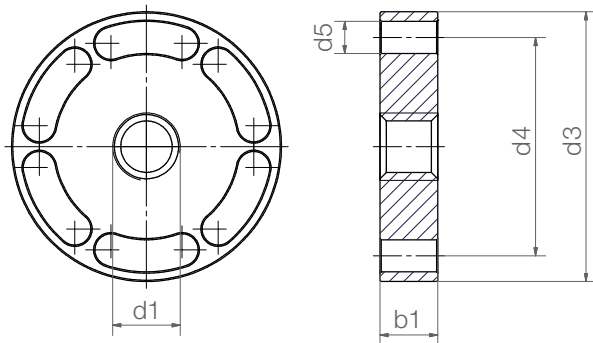
Dimensions [mm]

Part No.	Thread	d2 ¹⁵⁰	dt	B	Bf	ts	db	ds	k1	k2	E1	E2
FTRM-FF-10X2	Tr10x2	76	62	54	14	6.1	6.6	11	60	60	32	46

¹⁵⁰ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



For use to create custom clearance reduction with flanged nuts



Order key

Type	d3	b1	Thread
J D R M - 42 09 TR 10 X 2			
iglide® material	Form: disc	Hand of rotation	Metric
	Outer Ø [mm]	Height [mm]	Trapezoidal thread
	Diameter	Pitch	

Material properties: iglide® J ▶ Page 193

Technical data and dimensions [mm]

Part No.	Thread	Effective supporting surface [mm²]	Max. stat. axial F ⁴⁹⁾ [N]	d1 ¹⁵⁰⁾	d3	d4	d5	b1 ¹⁵⁰⁾	Weight [g]
JDRM-4209TR10X2	Tr10x2	127	508	10	42	34	5	9	17.5
JDRM-4811TR12X3	Tr12x3	181	724	12	48	38	6	11	27.8
JDRM-4811TR14X4	Tr14x4	207	828	14	48	38	6	11	27.1
JDRM-4811TR16X4	Tr16x4	241	964	16	48	38	6	11	26.4
JDRM-4811TR18X4	Tr18x4	276	1,104	18	48	38	6	11	25.5
JDRM-5513TR20X4	Tr20x4	367	1,468	20	55	45	7	13	39.9
JDRM-5513TR24X5	Tr24x5	439	1,756	24	55	45	7	13	37.3
JDRM-6214TR30X6	Tr30x6	551	2,204	30	62	50	7	14	48.2
JDRM-7016TR36X6	Tr36x6	829	3,316	36	70	58	7	16	67.5

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

¹⁵⁰⁾ Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Special geometries | Product Range

drylin® lead screw nut housing



- Standard lead screw nuts secured with fixing screws
- Can be fixed from above
- One housing is suitable for many thread geometries
- Limitless combinations



Order key

Part number

MH-1210-AL-TR10X2-R-J

Lead screw nut housings

Nut design
(see drawing)

Aluminum

Thread size

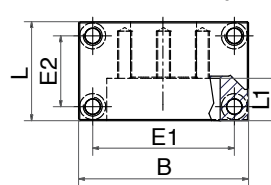
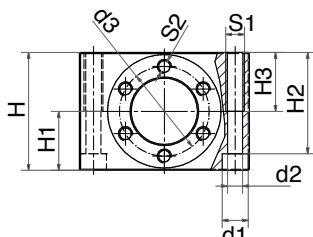
Right-hand thread

iglide® J nut

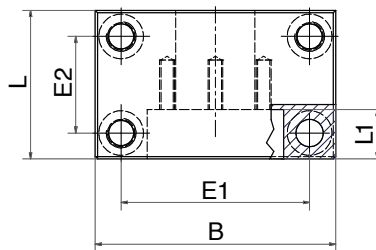
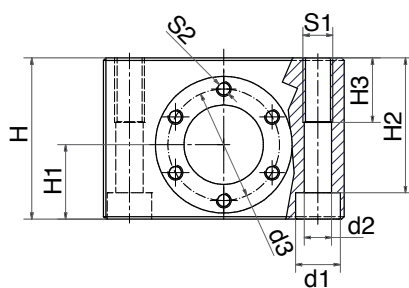
MH-2835-AL / MH-3244-AL



MH-2835-AL



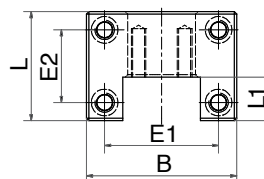
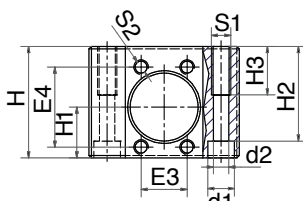
MH-3244-AL



MH-2018-AL



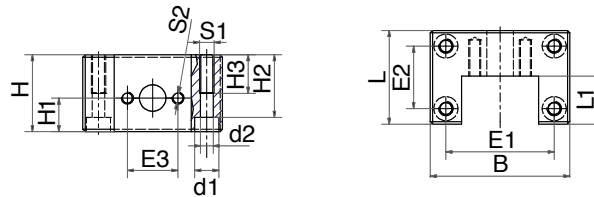
MH-2018-AL



MH-1210-AL



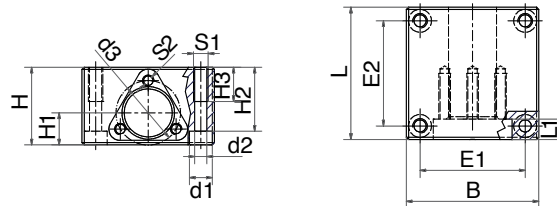
MH-1210-AL



MH-ZB0810-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 SLS
							±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.	Nut design	Thread size
MH-1210-AL	SHT-1210-TRM	Tr10x2 / Tr10x3 / Ds10x12 / Ds10x50
MH-2018-AL	SHT-2018-TRM	Tr18x4 / Tr18x8P4 / Ds18x24 / Ds18x100
MH-2835-AL	FRM-2835	Tr12x3 / Tr12x6P3 / Ds12x25 / Tr14x3 / Tr14x4 / Tr16x2 / Tr16x4 / Tr16x8P4 / Tr18x4 / Tr18x8P4 / Ds18x24 / Ds18x100
MH-3244-AL	FRM-3244	Tr20x4 / Tr20x8P4 / Tr24x5
MH-ZB0810-AL	Zero-backlash	Ds08x10 / Ds08x15 / Ds10x12 / Ds10x50



► Page 1649



Order key

Part No. Thread Options

SLS - 10 X 2 - 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



Scope of delivery: Anodized lead screw support block

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

LL: Floating bearing with maintenance-free iglide® plain bearing.

The LL version does not retain the screw axially

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

Part No.	Weight [g]	Max. stat. load capacity axial [N]	S1	S2	S3
SLS-10X2-LL	115	–	M8	M4	M6
SLS-10X2-FL (LH)	88	700	M8	–	–
SLS-10X3-LL	115	–	M8	M4	M6
SLS-10X3-FL (LH)	88	700	M8	–	–
SLS-10X12-LL	115	–	M8	M4	M6
SLS-10X12-FL	88	700 ⁵³⁾	M8	–	–
SLS-10X50-LL	115	–	M8	M4	M6
SLS-10X50-FL	88	700 ⁵³⁾	M8	–	–
SLS-18X4-LL	295	–	M10	M4	M6
SLS-18X4-FL (LH)	205	1,600	M10	–	–
SLS-18X8P4-LL	295	–	M10	M4	M6
SLS-18X8P4-FL	205	1,600	M10	–	–
SLS-18X24-LL	295	–	M10	M4	M6
SLS-18X24-FL	205	1,600 ⁵³⁾	M10	–	–
SLS-18X100-LL	295	–	M10	M4	M6
SLS-18X100-FL	205	1,600 ⁵³⁾	M10	–	–
SLS-24X5-LL	725	–	M16	M4	M6
SLS-24X5-FL (LH)	525	2,500	M16	–	–

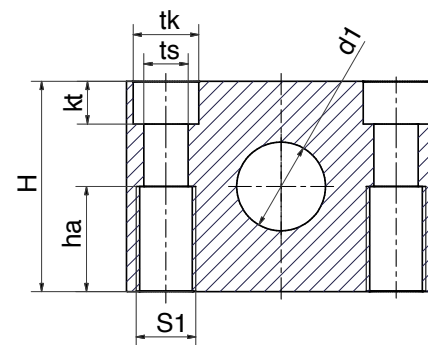
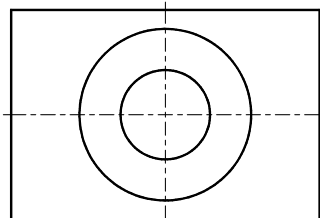
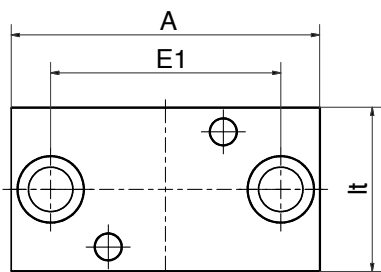
⁵²⁾ FL lead screw support block with trapezoidal thread TR10x2, TR10x3, TR18x4, TR24x5 lead screw also available with clamping rings with left-hand thread

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

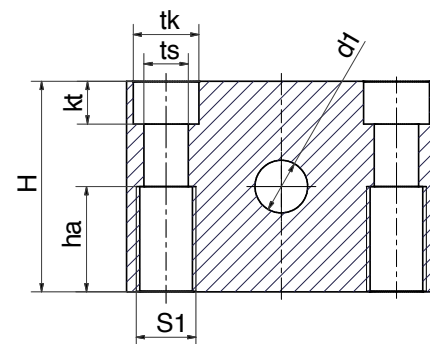
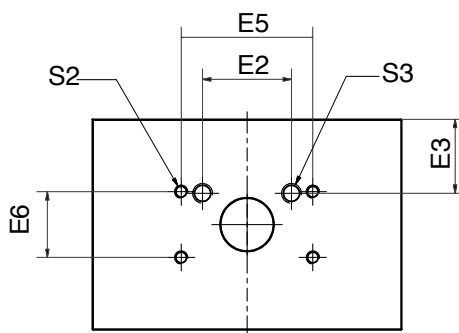
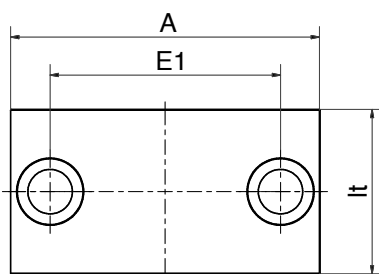
⁵⁴⁾ Lead screw end must be turned to d1 value

⁵⁵⁾ Lead screw end must be turned to 18mm

Fixed bearing



Floating bearing



Part No.	A	H	E1	E2	E3	E5	E6	It	kt	tk	ts	d1	ha
SLS-10X2-LL	50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
SLS-10X2-FL (LH)	50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
SLS-10X3-LL	50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
SLS-10X3-FL (LH)	50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
SLS-10X12-LL	50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
SLS-10X12-FL	50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
SLS-10X50-LL	50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
SLS-10X50-FL	50	32	36	-	-	-	-	30	6.5	11	6.6	10	16
SLS-18X4-LL ⁵⁰	72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
SLS-18X4-FL (LH)	72	46	54	-	-	-	-	36	8.6	15	9	18	23
SLS-18X8P4-LL ⁵⁰	72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
SLS-18X8P4-FL	72	46	54	-	-	-	-	36	8.6	15	9	18	23
SLS-18X24-LL ⁵⁰	72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
SLS-18X24-FL ⁵⁰	72	46	54	-	-	-	-	36	8.6	15	9	18	23
SLS-18X100-LL ⁵⁰	72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
SLS-18X100-FL ⁵⁰	72	46	54	-	-	-	-	36	8.6	15	9	18	23
SLS-24X5-LL ⁵⁰	94	64	70	27	22.5	40	20	50	13	20	13.5	14	32
SLS-24X5-FL (LH)	94	64	70	-	-	-	-	50	13	20	13.5	24	32

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-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-18X24-FL ⁵⁵⁾	205	1,600 ⁵⁵⁾	M10	–	–
SLS-18X24-LL ⁵⁴⁾	295	–	M10	M4	M6
SLS-18X100-FL ⁵⁵⁾	205	1,600 ⁵⁵⁾	M10	–	–
SLS-18X100-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)					
SLS-S6-FL	115	–	M8	–	–
SLS-S6-LL	88	150	M8	M4	M6
SLS-S6.35-FL	115	–	M8	–	–
SLS-S6.35-LL	88	150	M8	M4	M6
SLS-S8-FL	115	–	M8	–	–
SLS-S8-LL	88	500	M8	M4	M6
SLS-S10-FL	88	700	M8	–	–
SLS-S10-LL	115	–	M8	M4	M6
SLS-S12-FL	205	1,600	M12	–	–
SLS-S12-LL	295	–	M12	M4	M6
SLS-S14-FL	205	1,600	M12	–	–
SLS-S14-LL	295	–	M12	M4	M6
SLS-S16-FL	205	1,600	M12	–	–
SLS-S16-LL	295	–	M12	M4	M6
SLS-S18-FL	205	1,600	M12	–	–
SLS-S18-LL	295	–	M12	M4	M6
SLS-S20-FL	525	2,500	M16	–	–
SLS-S20-LL	725	–	M16	M4	M6

⁵³⁾ Can exceed max. stat. load of the nut⁵⁴⁾ Lead screw end must be turned to d1 value⁵⁵⁾ 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	9.0	18	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	18	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	18	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	18	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	18	23
72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
94	64	70	–	–	–	–	50	13	20	13.5	12	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	14	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	12	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	12	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	12	32
94	64	70	27	22.5	40	20	50	13.0	20	13.5	20	32

drylin® TR | Special geometries | Product Range

Lead screw support blocks with ball bearings



► Page 1649



Order key

Part No. Thread Options

SLS - 10 X 2 - BB

Lead screw support
block

Diameter

Pitch

Ball bearing

Options:

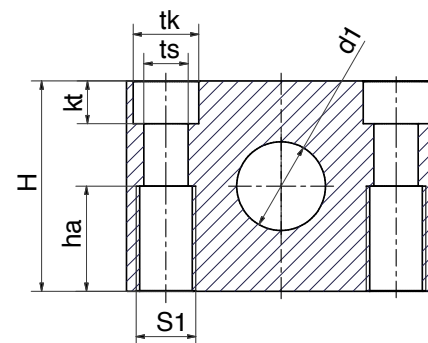
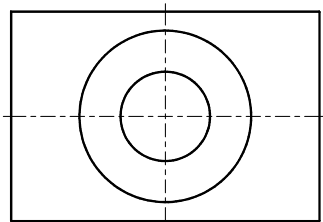
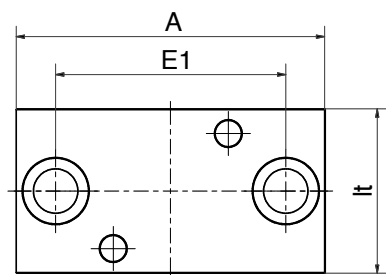
BB: Ball bearings

FL: Fixed bearing

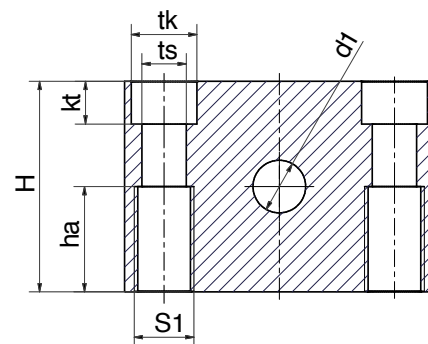
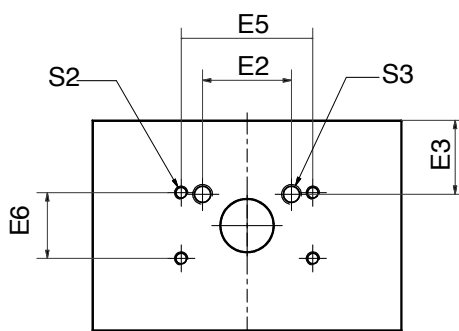
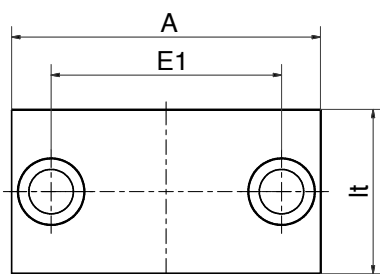
LL: Floating bearing

Part No.	Weight [g]	Max. stat. 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-10X12-BB	110	350	M8	M4
SLS-10X50-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-18X24-BB ⁹⁹	265	1,000	M10	M4
SLS-18X100-BB ⁹⁹	265	1,000	M10	M4
SLS-20X4-BB	350	1,500	M16	M4
SLS-24X5-BB	350	1,500	M16	M4

Fixed bearing



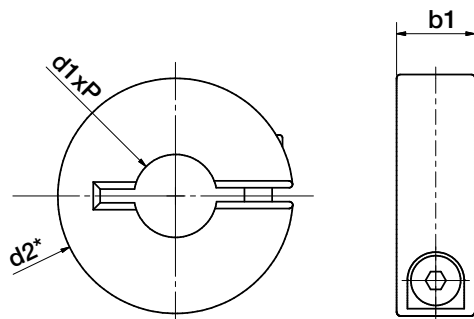
Floating bearing



A	H	E1	E5	E6	It	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
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
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
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

drylin® TR | Special geometries | Product Range

drylin® clamping rings, right and left-hand thread



Order key

Part number

Thread

CR R-01-TR 10X2

Clamping rings

Hand of rotation

Type

Trapezoidal thread

Diameter

Pitch

Dimensions [mm]

Thread	d2 ⁹⁹	b1	Max. static axial F	Part No.
	h9		[N]	Right-hand thread
Tr8x1.5	16	9	1,530	CRR-01-TR8X1.5
Tr10x2	24	8	1,800	CRR-01-TR10X2
Tr12x3	28	8	2,096	CRR-01-TR12X3
Tr14x4	30	11	3,312	CRR-01-TR14X4
Tr16x4	34	11	3,840	CRR-01-TR16X4
Tr18x4	36	13	5,216	CRR-01-TR18X4
Tr20x4	45	15	6,784	CRR-01-TR20X4
Tr24x5	45	15	8,096	CRR-01-TR24X5

Thread	d2 ⁹⁹	b1	Max. static axial F	Part No.
	h9		[N]	Left-hand thread
Tr8x1.5	16	9	1,530	CRL-01-TR8X1.5
Tr10x2	24	8	1,800	CRL-01-TR10X2
Tr12x3	28	8	2,096	CRL-01-TR12X3
Tr14x4	30	11	3,312	CRL-01-TR14X4
Tr16x4	34	11	3,840	CRL-01-TR16X4
Tr18x4	36	13	5,216	CRL-01-TR18X4
Tr20x4	45	15	6,784	CRL-01-TR20X4
Tr24x5	45	15	8,096	CRL-01-TR24X5

⁹⁹ Outside dimension clamping ring. Screw head may protrude. Installation dimension d2 (+2mm)

Dimensions [mm] – clamping ring without thread

ø	d2	b1	Part No.
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
24	45	15	KRM-S24-V





drylin® lead screw technology – ACME threads

Self-locking

Maintenance-free dry operation

Resistant to dirt, long service life

Lead screw nuts made from self-lubricating
dry-tech® polymers

Lead screws made from steel, stainless steel



Radial loads

drylin® lead screw nuts are designed to absorb axial forces. Any radial forces that may occur in the application should be absorbed by additional linear guides.

► **drylin® linear technology, from page 1073**

Temperature

drylin® lead screw nuts, which are manufactured from maintenance-free iglide® materials, are suited for use in temperatures ranging from -4°F to +194°F (+302°F, depending on material). Please note that the temperature also has an effect on the clearance of the nut, as well as the maximum load capacity. 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

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

► **iglide® J, page 193 and ► iglide® A180, page 493**

Dirt

With the use of the maintenance-free iglide® materials for lead screw nut production, drylin® lead screw drives feature completely dry operation. Due to the deliberate avoidance of lubricants, the adhesion of soft particles such as dust and fibers 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 chips or granite dust, the lead screw should be covered.

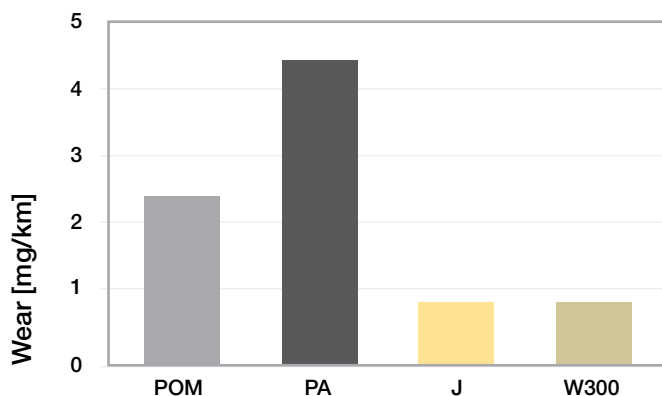
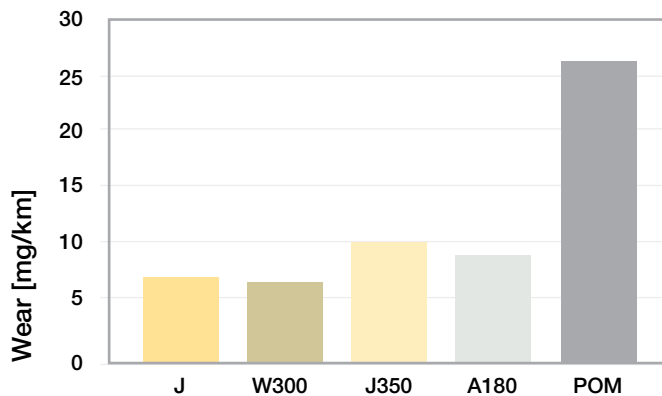
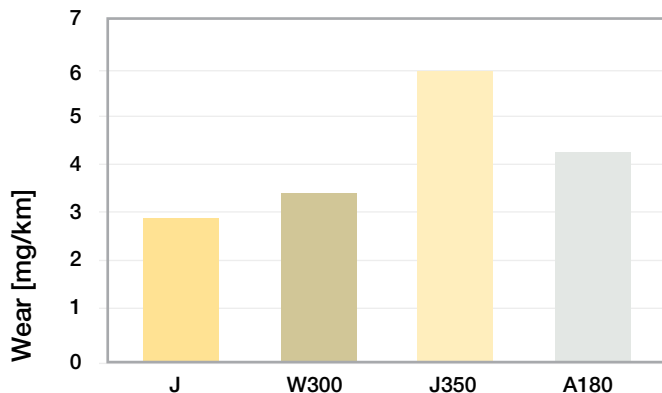


Diagram 01: Wear test on a rolled trapezoidal lead screw



**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**

Noise

Noise can generally occur with the use of lead screw drives. In particular, long lead screws and long travel distances can cause self-induced vibrations in the systems.

Due to their good sliding properties, lead screw nuts made from the tribologically optimized iglide® materials tend to develop less noise than conventional plastics or metallic materials, such as bronze or brass. If your lead screw drive develops noise, please contact us to discuss this with our experts.

► **Anti-backlash lead screw nut, page 1504**

Clearance

The reliable operation of lead screw drives requires a basic amount of clearance. 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 accounted for in the application must also take into account the friction heat generated by the application. The use of lead screw drives is therefore not recommended for precision drives without conducting practical tests. In practice, preload has proven to be an effective countermeasure for undesirable clearance. 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. drylin® lead screw nuts are characterized by a low coefficient of friction, resulting in high efficiencies.

Single start ACME lead screw nuts achieve efficiencies between 20 and 48% in dry operation.

High helix lead screw nuts achieve efficiencies between 50 and 80% in dry operation.

Even though drylin® lead screw nuts were developed for completely dry operation, lubrication can help to increase efficiency.

Self-locking

Single start ACME lead screw drives are self-locking. 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.

Anti-backlash lead screw nuts

Backlash is the phenomenon created on the lead screw drives by the axial clearance. By adding a radial preload, vibrations are significantly reduced.



Anti-backlash lead screw nuts in a glue application system of a seam gluing machine (wood industry). These ensure the utmost precision for this clearance-free adjustment drive.



Format adjustment in the paper industry with anti-backlash lead screw nut

Installation of lead screw nuts

drylin® lead screw nuts must be secured against twisting and sag.

Lead screw nuts with flange

The maximum tightening torque for the assembly of lead screw nuts with flange 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.

Sleeve lead screw nuts

The outer diameter of sleeve lead screw nuts is not designed for a press fit. We therefore recommend the use of spanner flat. 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 are necessary in each case.

Lead screw selection

The suitability and the operating behavior 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 a single source. Lead screws are inspected with DIN 103-compliant gauges. In principle, drylin® lead screw drives can be used with lead screws made from steel, stainless steel or hard-anodized aluminum. "Split" 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. Please send us your drawing. We can then provide a quotation quickly.



Custom lead screw example

Custom nuts

Take advantage of our machining service - we manufacture ready-to-fit lead screw nuts based on your requirements. Please send us your drawing. We can then provide a quotation quickly.



Custom nut examples

Material selection

drylin® lead screw nuts are supplied in 7 standard materials:

iglide® J: This material has the best coefficient of friction with most lead screw materials and low moisture absorption

► **iglide® J, page 193**

iglide® W300: This material features high static strength

► **iglide® W300, page 211**

iglide® J350: This material features high resistance to temperatures. Lead screw nuts made from iglide® J350 can be used up to 150°C.

► **iglide® J350, page 251**

iglide® R: This low-cost material is characterized by a low coefficient of friction and low wear.

► **iglide® R, page 303**

iglide® A180: This material meets the requirements of the Food and Drug Administration (FDA) and can therefore be used in direct contact with food and pharmaceuticals.

► **iglide® A180, page 493**

iglide® E7: The durable specialist on steel for high speeds and low wear

► **iglide® E7, Page 327**

iglide® J200: The specialist on hard anodized aluminum with low coefficient of friction and wear

► **iglide® J200, page 321**

Service life

drylin® lead screw nuts are made from tribologically optimized materials. Already during the development phase, the focus is on optimizing the friction properties of the drylin® 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 lab in Cologne. Our experts will gladly test your application as well.



Test rig at the igus® lab to determine service life

iglide® material	Surface pressure [MPa]
iglide® J	4.0
iglide® W300	5.0
iglide® J350	3.0
iglide® R	2.0
iglide® A180	3.5
iglide® E7	0.5
iglide® J200	2.0

Table 01: Permitted continuous surface pressure in the threads

drylin® ACME | Lead screws | Product Range

USA standard - Inch

Lead screws – "ACME" USA standard

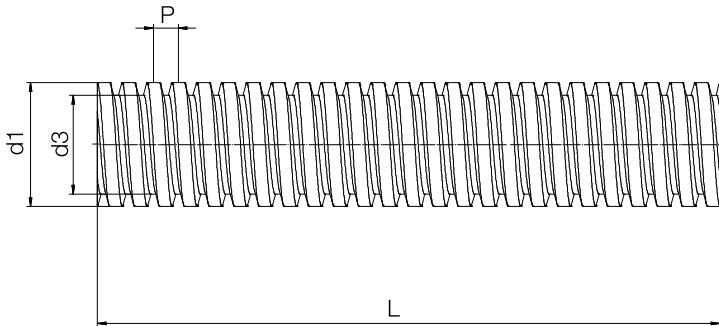


Stainless steel, rolled, AISI 304



Technical data

Lead accuracy	.004" per foot
Straightness (standard)	.0125" per foot
Aligned	<0.1mm to 300mm
Tolerance (ANSI/ASME B1.5)	Class 2C



Dimensions [inch]

Part No.	Major Ø		Minor Ø		Max. length [inch]
	d1 [mm]	d1 [inch]	d3 [mm]	d3 [inch]	
ACME-1/4-16-R-ES	6.35	0.250	4.80	0.187	72
ACME-3/8-20-R-ES	9.52	0.375	8.30	0.325	72
ACME-3/8-12-R-ES	9.52	0.375	7.40	0.292	72
ACME-3/8-10-R-ES	9.52	0.375	7.00	0.275	72
ACME-1/2-10-R-ES	12.70	0.500	10.2	0.400	72
ACME-5/8-8-R-ES	15.87	0.625	12.7	0.500	72
ACME-3/4-10-R-ES	19.05	0.750	14.9	0.585	72
ACME-3/4-6-R-ES	19.05	0.750	16.5	0.650	72
ACME-1-10-R-ES	25.40	1.000	20.3	0.800	72
ACME-1-5-R-ES	25.40	1.000	22.9	0.900	72



Order key

Part

Thread

Options

ACME-1/4-16- R-ES

Lead screw

Diameter

Threads per inch

Hand of rotation

Lead screw material

Options:

Hand of rotation

R: Right-hand thread**Length in mm:** Freely selectable (see table)

Lead screw material

Blank: Standard Carbon steel

ES: Stainless steel: rolled, AISI 304

Technical data

Part No.	Thread	Hand of rotation right	Lead P [mm]	Number of threads per inch	Pitch angle	Weight [oz.]
ACME-1/4-16-R-ES	1/4-16	●	1.59	16	4.56°	0.25
ACME-3/8-20-R-ES	3/8-20	●	1.27	20	2.43°	0.56
ACME-3/8-12-R-ES	3/8-12	●	2.12	12	4.03°	0.56
ACME-3/8-10-R-ES	3/8-10	●	2.54	10	4.85°	0.56
ACME-1/2-10-R-ES	1/2-10	●	2.54	10	3.64°	1.00
ACME-5/8-8-R-ES	5/8-8	●	3.18	8	3.65°	1.60
ACME-3/4-10-R-ES	3/4-10	●	2.54	10	4.04°	2.25
ACME-3/4-6-R-ES	3/4-6	●	4.23	6	2.43°	2.25
ACME-1-10-R-ES	1-10	●	2.54	10	3.64°	4.00
ACME-1-5-R-ES	1-5	●	3.08	5	1.82°	4.00

drylin® ACME | Lead screw nuts | Product Range

ACME lead screw mount nuts, sleeve or flange

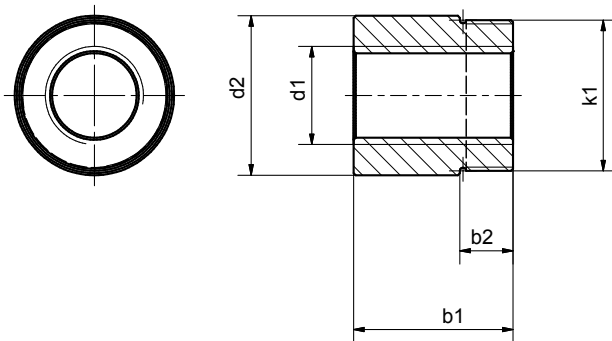


- Standard 2C screw leads for the North American market
- Tribo-optimized iglide® J plastic nut material for reduced wear and friction
- Steel and stainless steel lead screws available
- Self-lubricating and maintenance-free



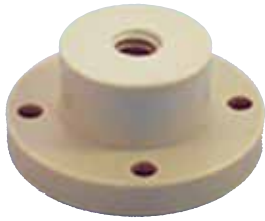
Order key

Part	Thread
J S R A-01-16-5	
iglide® material	Sleeve
Hand of rotation	ACME
Standard sleeve	Diameter
Diameter	Threads per inch



Dimensions (inch)

Part Number	Thread (dia/TPI)	d1	d2	b1	Outer thread k1	Thread length b2	Lead
JSRA-01-06-20	3/8-20		0.85	0.60	5/8-18	0.38	0.05
JSRA-01-08-10	1/2-10		1.12	0.80	15/16-16	0.50	0.10
JSRA-01-12-6	3/4-6		1.12	1.25	1-18	0.50	0.16
JSRA-01-16-5	1-5		1.50	1.50	1 3/8-16	0.50	0.20

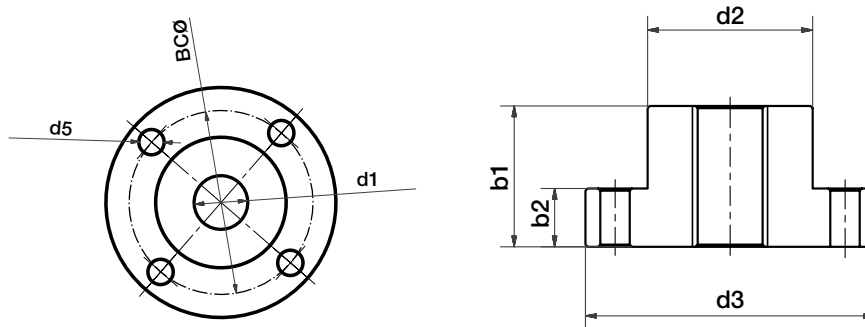


- Standard 2C screw leads for the North American market
- Tribo-optimized iglide® J plastic nut material for reduced wear and friction
- Steel and stainless steel lead screws available
- Self-lubricating and maintenance-free



Order key

Part	Thread
J F R A-01-16-5	
iglide® material	Flange
Hand of rotation	ACME
Full flange	Diameter
Diameter	Threads per inch



Dimensions (inch)

Flange Nuts	Thread (dia/TPI) d1	d2	d3	BCØ	d5	b1	b2	Lead
JFRA-01-06-20	3/8-20	0.85	1.61	1.25	0.27	0.82	0.41	0.05
JFRA-01-08-10	1/2-10	1.50	2.60	2.09	0.27	1.16	0.41	0.10
JFRA-01-12-6	3/4-6	1.50	2.63	2.09	0.27	1.28	0.53	0.16
JFRA-01-16-5	1-5	1.50	2.76	2.26	0.27	1.52	0.52	0.20

drylin® ACME | Lead screws | Product Range

ACME sleeve lead screw nuts



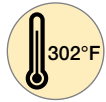
iglide® J



iglide® W300



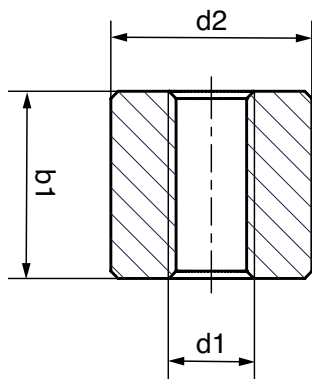
iglide® J350



iglide® R



iglide® A180



Dimensions [inch]

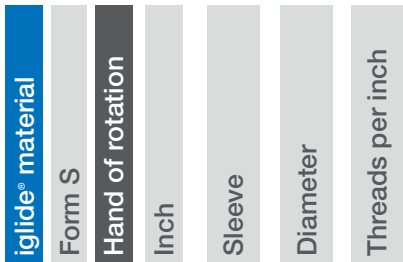
Part No.	d1	d2	b1	Weight
	[inch]	[inch]	[inch]	[oz.] J / W300 / J350 / A180 / R
JSRI-01-1/4-16	0.250	0.625	0.500	0.096–0.1123
JSRI-01-3/8-20	0.380	0.875	0.750	0.256–0.320
JSRI-01-3/8-12	0.380	0.875	0.750	0.256–0.320
JSRI-01-3/8-10	0.380	0.875	0.750	0.256–0.320
JSRI-01-1/2-10	0.500	1.000	1.000	0.416–0.512
JSRI-01-5/8-8	0.630	1.375	1.000	0.848–1.008
JSRI-01-3/4-10	0.750	1.500	1.375	1.280–1.536
JSRI-01-3/4-6	0.750	1.500	1.375	1.280–1.536
JSRI-01-1-10	1.000	2.000	2.000	3.392–4.080
JSRI-01-1-5	1.000	2.000	2.000	3.392–4.080



Order key

Type Thread

□ S R I - 01-1/4-16



J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Effective supporting surface [mm²]	Max. static axial F
			[N] J / W300 / J350 / A180 / R
1/4-16	●	111	200
3/8-20	●	256	1,024
3/8-12	●	254	1,018
3/8-10	●	245	980
1/2-10	●	449	1,796
5/8-8	●	568	2,272
3/4-6	●	913	3,652
3/4-10	●	978	3,912
1-5	●	1.830	7,320
1-10	●	1.896	7,584

Technical data - iglide J

Efficiency	Idling torque ¹¹⁸	Coefficient of friction
η	[Nm]	μ
24-44	0.0029	0.1-0.25
14-30	0.0034	0.1-0.25
22-41	0.0041	0.1-0.25
25-46	0.0044	0.1-0.25
20-39	0.0052	0.1-0.25
20-39	0.0065	0.1-0.25
22-41	0.0082	0.1-0.25
14-30	0.0068	0.1-0.25
20-39	0.0105	0.1-0.25
11-24	0.0084	0.1-0.25

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

ACME flange lead screw nuts



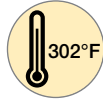
iglide® J



iglide® W300



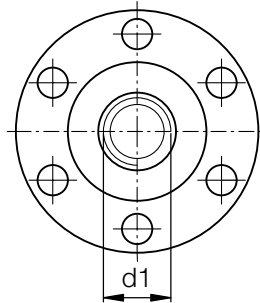
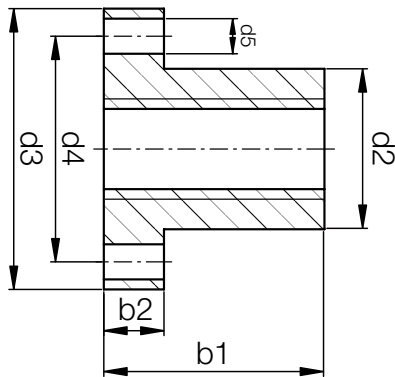
iglide® J350



iglide® R



iglide® A180



Dimensions

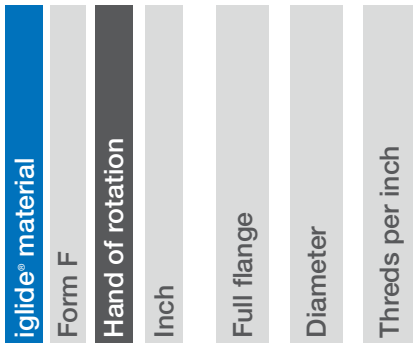
Part No.	d1	d2	d3	d4	d5	b1	b2	Weight [oz.]
	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	
<input type="checkbox"/> FRI-01-1/4-16	0.250	0.500	1.000	0.750	0.130	0.500	0.200	0.128-0.160
<input type="checkbox"/> FRI-01-3/8-20	0.380	1.000	1.630	1.310	1.200	1.000	0.380	0.832-0.992
<input type="checkbox"/> FRI-01-3/8-12	0.380	1.000	1.630	1.310	0.200	1.000	0.380	0.832-0.992
<input type="checkbox"/> FRI-01-3/8-10	0.380	1.000	1.630	1.310	0.200	1.000	0.380	0.832-0.992
<input type="checkbox"/> FRI-01-1/2-10	0.500	1.125	1.880	1.000	0.240	1.380	0.500	1.280-1.568
<input type="checkbox"/> FRI-01-5/8-8	0.630	1.125	1.880	1.000	0.240	1.380	0.500	1.312-1.568
<input type="checkbox"/> FRI-01-3/4-10	0.750	1.125	1.880	1.500	0.240	1.380	0.500	1.152-1.392
<input type="checkbox"/> FRI-01-3/4-6	0.750	1.125	1.880	1.500	0.240	1.380	0.500	1.152-1.392
<input type="checkbox"/> FRI-01-1-10	1.000	1.500	2.500	2.000	0.280	1.750	0.590	2.560-3.072
<input type="checkbox"/> FRI-01-1-5	1.000	1.500	2.500	2.000	0.280	1.750	0.590	2.560-3.072



Order key

Type Thread

F R I - 01-1/4-16



J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Effective supporting surface	Max. static axial F [N]
		[mm ²]	J / W300 / J350 / A180 / R
1/4-16	●	111	111
3/8-20	●	341	1,364
3/8-12	●	327	1,320
3/8-10	●	326	1,304
1/2-10	●	618	2,472
5/8-8	●	781	3,124
3/4-10	●	913	3,652
3/4-6	●	978	3,912
1-10	●	1.601	6,404
1-5	●	1.659	6,636

drylin® ACME | Lead screws | Product Range

ACME spanner flat lead screw nuts



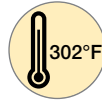
iglide® J



iglide® W300



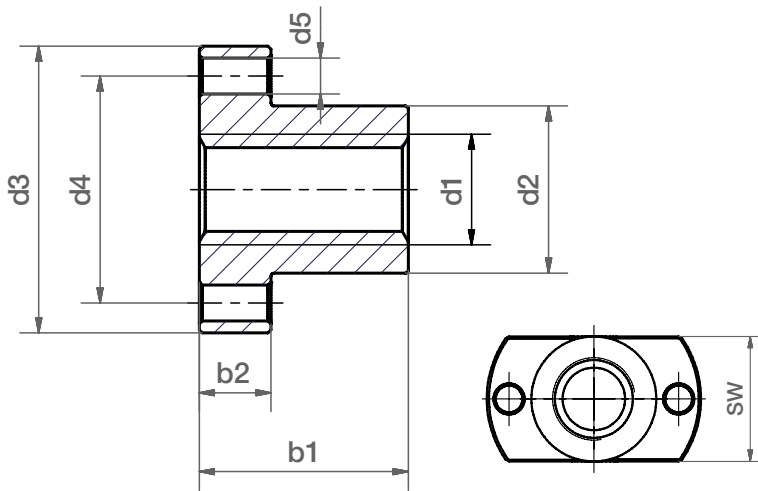
iglide® J350



iglide® R



iglide® A180



Dimensions [inch]

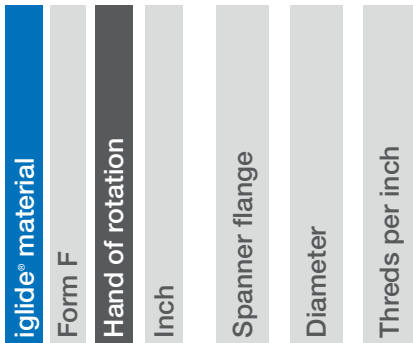
Part Number	Thread d1 x P	d2	d3	d4	d5	b1	b2	SW	Weight [oz]
<input type="checkbox"/> FRI-02-1/4-16	1/4-16	0.500	1.00	0.75	0.13	0.50	0.20	0.500	0.128
<input type="checkbox"/> FRI-02-3/8-20	3/8-20	1.000	1.63	1.31	0.20	1.00	0.38	1.000	0.951
<input type="checkbox"/> FRI-02-3/8-12	3/8-12	1.000	1.63	1.31	0.20	1.00	0.38	1.000	0.951
<input type="checkbox"/> FRI-02-3/8-10	3/8-10	1.000	1.63	1.31	0.20	1.00	0.38	1.000	0.951
<input type="checkbox"/> FRI-02-1/2-10	1/2-10	1.125	1.88	1.00	0.24	1.38	0.50	1.125	1.590
<input type="checkbox"/> FRI-02-5/8-8	5/8-8	1.125	1.88	1.00	0.24	1.38	0.50	1.125	1.444
<input type="checkbox"/> FRI-02-3/4-10	3/4-10	1.125	1.88	1.50	0.24	1.38	0.50	1.125	1.266
<input type="checkbox"/> FRI-02-3/4-6	3/4-6	1.125	1.88	1.50	0.24	1.38	0.50	1.125	1.266
<input type="checkbox"/> FRI-02-1-10	1-10	1.500	2.50	2.00	0.28	1.75	0.59	1.500	2.777
<input type="checkbox"/> FRI-02-1-5	1-5	1.500	2.50	2.00	0.28	1.75	0.59	1.500	2.777



Order key

Type Thread

F R I - 02-1/4-16



J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +302°F
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

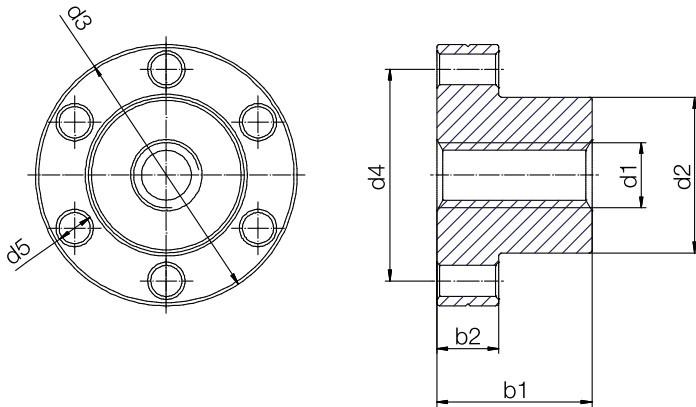
Part Number	Thread d1 x P	Effective supporting surfaces [mm²]	Maximum static F axial [N]
Compact Flange			
<input type="checkbox"/> FRI-02-1/4-16	1/4-16	111	444
<input type="checkbox"/> FRI-02-3/8-20	3/8-20	354	1,416
<input type="checkbox"/> FRI-02-3/8-12	3/8-12	338	1,352
<input type="checkbox"/> FRI-02-3/8-10	3/8-10	329	1,316
<input type="checkbox"/> FRI-02-1/2-10	1/2-10	627	2,508
<input type="checkbox"/> FRI-02-5/8-8	5/8-8	784	3,136
<input type="checkbox"/> FRI-02-3/4-10	3/4-10	975	3,900
<input type="checkbox"/> FRI-02-3/4-6	3/4-6	929	3,716
<input type="checkbox"/> FRI-02-1-10	1-10	1.323	5,292
<input type="checkbox"/> FRI-02-1-5	1-5	1.254	5,016

drylin® ACME | Lead screws | Product Range

ACME flange lead screw nuts - iglide® J4



iglide® J4



Dimensions [inch]

Part No.	d1 [inch]	d2	d3	d4	d5	b1	b2	Weight [oz]
J4FRI-C-01-1/4-16	0.250	0.50	1.00	0.750	0.140	1.0	0.19	0.24
J4FRI-C-01-3/8-10	0.380	0.63	1.125	0.876	0.140	1.0	0.19	0.32
J4FRI-C-01-3/8-12	0.380	0.63	1.125	0.876	0.140	1.0	0.19	0.32
J4FRI-C-01-3/8-20	0.500	0.63	1.125	0.876	0.140	1.0	0.19	0.32
J4FRI-C-01-1/2-10	0.630	0.75	1.50	1.126	0.140	1.5	0.19	0.68
J4FRI-C-01-5/8-8	0.750	0.875	1.50	1.188	0.203	1.5	0.188	0.75
J4FRI-C-01-3/4-6	0.630	1.13	1.75	1.438	0.203	2.0	0.25	1.70
J4FRI-C-01-3/4-10	0.750	1.13	1.75	1.438	0.203	2.0	0.25	1.70
J4FRI-C-01-1-5	1.000	1/1.5	2.25	1.876	0.203	2.0	0.25	2.94
J4FRI-C-01-1-10	1.000	1/1.5	2.25	1.876	0.203	2.0	0.25	2.94



Order key

Type	Thread
<input type="checkbox"/> F R I - C - 01-1/4-16	
iglide® material	
Form F	
Hand of rotation	
Inch	
Cut thread	
1 thread	
Diameter	
Threads per inch	

Technical data

Thread	Hand of rotation right	Effective support surface	Max. stat. axial F [N]
		[mm ²]	J4
1/4-16	●	111	175
3/8-10	●	341	1,352
3/8-12	●	327	1,318
3/8-20	●	326	1,320
1/2-10	●	674	3,136
5/8-8	●	852	3,902
3/4-6	●	1.328	6,739
3/4-10	●	1.423	6,385
1-5	●	1.830	6,385
1-10	●	1.896	6,385

Notes

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.