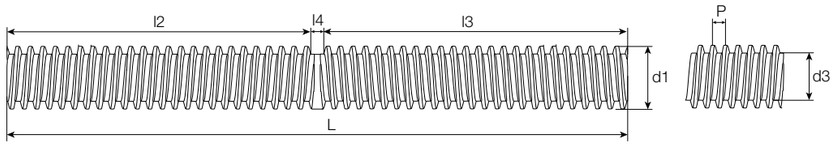
dryspin® technology | Lead screws | Product range

dryspin® high helix lead screw – with right/left opposite drive

Stainless steel, rolled, AISI 304



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
DST	LS	10X50	R/L	480	480	ES	

Options:
[47] **l3:** Length right-hand thread
[48] **l2:** 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-asean.com/leadscrew-configurator**

Technical data

Thread	Max. transferrable torque	Max. tensile strength	Material Stainless steel	Pitch P	Number of thread pitches	Pitch angle α
	[Nm]	[N]	AISI 304	[mm]		[°]
Ds10x12	2.0	450	●	12	4	21.54
Ds10x25	2.0	450	●	25	8	38.51
Ds10x50	2.0	450	●	50	10	57.86
Ds14x25	4.0	1,000	●	25	5	29.61
Ds18x24	7.5	1,600	●	24	6	22.99
Ds18x40	7.5	1,600	●	40	8	35.55
Ds18x80	7.5	1,600	●	80	12	54.74
Ds18x100	7.5	1,600	●	100	12	60.51

[46] Non-usable thread transition
[47] Length right-hand thread (l3)
[48] Length left-hand thread (l2)

Dimensions [mm]

Outer Ø d1	Core Ø d3	Thread transition	Max. thread length		Max. total length	Part No.
–0.10	–0.10	l4[46]	l2[48]	l3[47]	L	
10	6.95	25	487	487	1,000	**DST-LS-10X12-R/L-l2-l3-ES**
10	7.10	25	487	487	1,000	**DST-LS-10X25-R/L-l2-l3-ES**
10	7.35	25	487	487	1,000	**DST-LS-10X50-R/L-l2-l3-ES**
14	9.60	25	987	987	2,000	**DST-LS-14X25-R/L-l2-l3-ES**
18	14.40	25	987	987	2,000	**DST-LS-18X24-R/L-l2-l3-ES**
18	1360	25	987	987	2,000	**DST-LS-18X40-R/L-l2-l3-ES**
18	14.00	25	987	987	2,000	**DST-LS-18X80-R/L-l2-l3-ES**
18	13.55	25	987	987	2,000	**DST-LS-18X100-R/L-l2-l3-ES**

Highly efficient at all speeds: iglidur® J

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

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

Efficiency η	Coefficient of friction μ
41–51	0.17–0.25
52–62	0.17–0.25
33–42	0.17–0.25
47–57	0.17–0.25
60–70	0.17–0.25
57–69	0.17–0.25
55–65	0.17–0.25
60–70	0.17–0.25
60–71	0.17–0.25
35–48	0.17–0.25
55–65	0.17–0.25
61–71	0.17–0.25
52–66	0.17–0.25
34–43	0.17–0.25
62–71	0.17–0.25
55–65	0.17–0.25
61–71	0.17–0.25
60–70	0.17–0.25
61–71	0.17–0.25
61–71	0.17–0.25
61–71	0.17–0.25
56–66	0.17–0.25
61–71	0.17–0.25
55–68	0.17–0.25
49–64	0.17–0.25
52–62	0.17–0.25
61–71	0.17–0.25
60–71	0.17–0.25
57–69	0.17–0.25
55–68	0.17–0.25

For medium to high speeds: iglidur® R

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

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

Efficiency η	Coefficient of friction μ
41–54	0.15–0.25
52–65	0.15–0.25
33–45	0.15–0.25
47–61	0.15–0.25
60–73	0.15–0.25
57–72	0.15–0.25
55–68	0.15–0.25
60–73	0.15–0.25
60–74	0.15–0.25
38–48	0.15–0.25
55–68	0.15–0.25
61–74	0.15–0.25
52–70	0.15–0.25
34–46	0.15–0.25
65–74	0.15–0.25
55–68	0.15–0.25
61–73	0.15–0.25
60–72	0.15–0.25
61–74	0.15–0.25
61–74	0.15–0.25
61–74	0.15–0.25
56–69	0.15–0.25
61–74	0.15–0.25
55–71	0.15–0.25
49–68	0.15–0.25
52–65	0.15–0.25
61–74	0.15–0.25
60–74	0.15–0.25
57–72	0.15–0.25
55–71	0.15–0.25

For high speeds: iglidur® E7

Thread	Efficiency	Coefficient of friction
	η	μ
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	–	–
Ds18x24	–	–
Ds18x40	–	–
Ds18x80	–	–
Ds18x100	–	–
Ds20x20	–	–
Ds20x50	–	–
Ds20x60	–	–
Ds20x80	–	–
Ds20x90	–	–

The specialist on hard anodised aluminium: iglidur® J200

Efficiency	Coefficient of friction
η	μ
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
61–71	0.1–0.25
56–77	0.1–0.25
61–71	0.1–0.25
55–68	0.1–0.25
49–64	0.1–0.25
52–62	0.1–0.25
52–62	0.1–0.25
60–71	0.1–0.25
57–69	0.1–0.25
55–68	0.1–0.25

My sketches