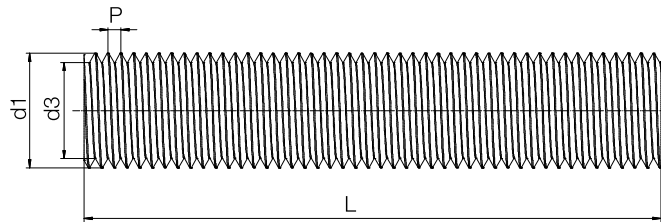



Technical data

Pitch variation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm
Tolerance (according to DIN 13)	6g

**Technical data**

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

Order key

Part number	Thread	Options
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PTGSG-M3-01-R-1000-ES

Lead screw	Thread size	Thread pitches	Hand of rotation	Length [mm]	Lead screw material
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Options:

Length in mm: Freely selectable (see table)

Lead screw material

ES: Stainless steel, rolled, AISI 304

**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

Dimensions [mm]

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

**Highly efficient at all speeds:**
iglidur® J

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

**Highly resilient and wear-resistant:**
iglidur® W300

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

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

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

**For medium to high speeds:**
iglidur® R

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



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

Thread	Efficiency η	Coefficient of friction μ
Single start		
Tr8x1.5	19–28	0.15–0.25
Tr10x2	20–30	0.15–0.25
Tr10x3	27–38	0.15–0.25
Tr12x3	24–44	0.15–0.25
Tr14x3	21–31	0.15–0.25
Tr14x4	26–47	0.15–0.25
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
Tr10x4P2	33–45	0.15–0.25
Tr12x6P3	37–50	0.15–0.25
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
M4	18–27	0.15–0.25
M5	17–25	0.15–0.25
M6	17–26	0.15–0.25
M8	16–25	0.15–0.25
M10	16–24	0.15–0.25



For high speeds:
igidur® E7

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



The specialist on hard anodised
aluminium: iglidur® J200

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