



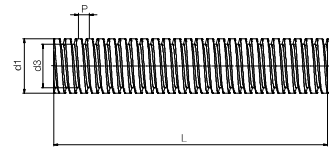
CF15, rolled, AISI 1015



Stainless steel, rolled



Aluminium, rolled (EN AW 6082)



Technical data

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

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

Technical data

Thread	Direction of rotation		Material						Pitch P [mm]	Pitch angle α [°]
	Right	Left	C15	Stainless steel AISI 304	Stainless steel AISI 303	Stainless steel AISI 316L	Stainless steel AISI 321	Aluminium EN AW 6082		
Tr8x1.5	●	●	●	●	–	–	–	–	1.5	3.42
Tr10x2	●	●	●	●	–	–	–	●	2	3.64
Tr10x3	●	●	●	–	–	●	–	–	3	5.45
Tr12x2	●	–	–	●	–	–	–	–	2	3.04
Tr12x3	●	●	●	●	–	–	–	●	3	4.55
Tr14x3	●	●	●	●	–	–	–	–	3	3.90
Tr14x4	●	●	●	–	–	–	●	–	4	5.20
Tr16x2	●	●	●	–	●	–	–	–	2	2.28
Tr16x4	●	●	●	●	–	–	–	●	4	4.55
Tr18x2	●	–	–	●	–	–	–	–	2	2.03
Tr18x4	●	●	●	●	–	–	–	●	4	4.05
Tr20x4	●	●	●	●	–	–	–	●	4	3.64
Tr22x2	●	●	–	●	–	–	–	–	2	1.66
Tr24x5	●	●	●	●	–	–	–	–	5	3.79
Tr26x5	●	●	●	●	–	–	–	–	5	3.50
Tr28x5	●	●	●	●	–	–	–	–	5	3.25
Tr30x6	●	●	●	●	–	–	–	–	6	3.64
Tr32x6	●	●	●	–	●	–	–	–	6	3.42
Tr36x6	●	●	●	–	●	–	–	–	6	3.04
Tr40x7	●	●	●	●	–	–	–	–	7	3.19
Tr50x8	●	●	●	–	●	–	–	–	8	2.92



Please contact us!

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

► www.igus.eu/lead-screw-configurator



Order key

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

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

Lead screw	Diameter	Pitch	Number of thread pitches	Direction of rotation	Length [mm]	Lead screw material
------------	----------	-------	--------------------------	-----------------------	-------------	---------------------

Options:

Direction of rotation

R: Right-hand thread

L: Left-hand thread

Length in mm: Freely selectable (see table)

Lead screw material

Blank: C15, rolled

ES: Stainless steel, rolled

AL: Aluminium, rolled



ACME thread (US standard)

► Page 390

Dimensions [mm]

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



The biggest lead screw shop

online

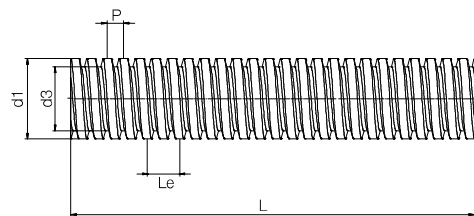
► www.igus.eu/leadscrewshop



CF15, rolled, AISI 1015



Stainless steel, rolled, AISI 304

 Technical data

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

P = Pitch
Le = Lead/pitch

Technical data

Thread	Direction of rotation		Material		Total pitch Le	Pitch P	Pitch angle α	Weight	
	Right	Left	C15	Stainless steel AISI 304				C15	Stainless steel
					[mm]	[mm]	[°]	[kg/m]	[kg/m]
Tr06x2P1	●	–	–	●	2	1	6.06	0.22	0.22
Tr10x4P2	●	–	–	●	4	2	7.26	0.62	0.62
Tr12x6P3	●	●	●	●	6	3	9.04	0.89	0.89
Tr16x8P4	●	●	●	●	8	4	9.04	1.58	1.59
Tr18x8P4	●	●	●	●	8	4	8.05	2.00	2.01
Tr20x8P4	●	●	●	●	8	4	7.26	2.47	2.48

 Definition: Multi start trapezoidal lead screw
Example 8P4 pitch

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

 Order key

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

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

Lead screw	Diameter	Pitch	Pitch	Number of thread pitches	Direction of rotation	Length [mm]	Lead screw material
------------	----------	-------	-------	--------------------------	-----------------------	-------------	---------------------

Options:

Direction of rotation

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

Lead screw material

Blank: C15, rolled, AISI 1015**ES:** Stainless steel, rolled, AISI 304**AL:** Aluminium, rolled

Please contact us!

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

► www.igus.eu/lead-screw-configurator

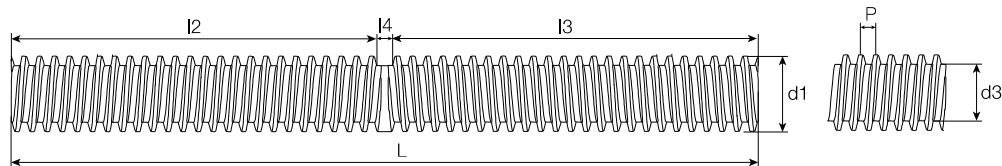
Dimensions [mm]

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



Technical data

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



Technical data

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

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

⁴⁷⁾ Fixed length (L)

⁴⁸⁾ Lead screw material



Order key

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

PTGSG-10X2-01-R/L-□-ES

Lead screw	Diameter	Pitch	Thread pitches	Reverse	Fixed length	Lead screw material
------------	----------	-------	----------------	---------	--------------	---------------------

Options:

Length in mm

Blank: C15, rolled, AISI 1015

ES: Stainless steel, rolled, AISI 304



Please contact us!

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

► www.igus.eu/lead-screw-configurator



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

Dimensions [mm]

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