

“STT Series” Precision Lead Screw Shaft

The high speed linear motion can be achieved at a very low speed, which is required in many types of mechanical equipment. Comparing with timing belt, chain, worm and gears, eccentric gear, crank etc., the design of high speed lead screws offer much better performance in cost, space, precision, reliability, long life, transmission efficiency. This STT Precision Lead Screw can even replace ballscrew under certain conditions.

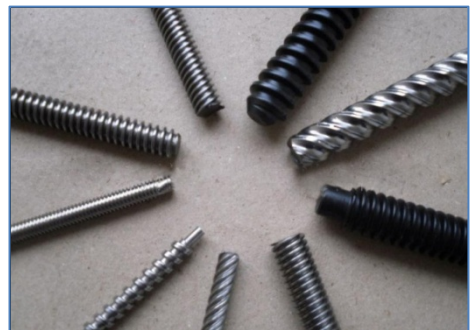
Advantages compared with ballscrew:

- 1). Lower cost for manufacturing, free select of materials and free design of nut shape and size;
- 2). Lower noise and shake, better self-lubricant and abrasive resistance.

The STT lead screw assembly consists of lead screw shaft and lead screw nut as follows:

Lead Screw Shaft

- 1). **Properties:** STT is a special kind of thread, which is developed on the base of trapezoidal and round thread. This STT thread can increase the life of nut a lot and produce much lower noise when it works together with anti-backlash nut. What's more, the STT lead screws provides high precision and repeat-accuracy.
- 2). **Standard Materials** are SS303 and S45C (carbon steel), and other materials available upon request.
- 3). **Coatings:** Xylan 1010 coating, surface alloy catalysts, PTFE coating. The coatings will increase the smoothness and working life a lot (3 times), and at the same time decrease the resistance.
- 4). **Nominal diameter** from 2.5mm(3/32") to 25mm(1") and **lead** from 0.3mm(0.012") to 200mm(8").
- 5). **Accuracy:** 0.02/30mm (0.0006inch/inch), **repeat accuracy** is less than 0.01mm and can reach 0.005mm after polishing, with **straightness** less than 0.1mm.
- 6). **Max length** can reach 3 meters (12"), and if longer length is required, please contact us.
- 7). **Left hand** thread is available upon request.
- 8). **End machining** available upon request.



Lead Screw Nut

A. Anti-Backlash Plastic Nut

- a). “DFH” for Light Loads.
- b). “JCX” for Light Loads, Compact Design.
- c). “KTZ” for Adjustable Drag Torque, Ultra Smooth Travel.



B. General Purpose Nut

- a). polymer composite plastic nut: excellent abrasive resistance, temperature resistance, self-lubricant, maintenance free and long life.
- b). bronze and brass nut with properties of excellent high load, good abrasive resistance, anti-impact and anti-shake



Following Tables shows the sizes of Lead Screw Shaft available in mm.

List of sizes (in mm):

Model No.	Dia.	Lead	Pitch	Start	Height of thread	Minor Dia.	Major Dia.	Efficiency (%)	
								Plastic	Bronze
STT4x1-1	4	1	1	1	0.71	3.29	4.71	38	27
STT4x2-2		2	1	2	0.50	3.2	4.2	50	38
STT5x5-4	5	5	1.25	4	0.90	3.6	5.4	70	58
STT5x10-4		10	2.5	4	0.71	4.29	5.71	76	65
STT5x15-6		15	2.5	6	0.71	3.29	4.71	76	64
STT5x20-16		20	1.25	16	0.50	5	6	86	78
STT6x1-1	6	1	1	1	0.71	4.58	6	32	22
STT6x1.5-1		1.5	1.5	1	1.0	2	6	42	31
STT6x2-1		2	2	1	1.11	3.97	6	49	38
STT6x3-2		3	1.5	2	0.95	4.1	6	58	46
STT6x5-2		5	2.5	2	0.99	4.02	6	68	56
STT6x9-4		9	2.25	4	0.99	4.02	6	76	64
STT6x10-4		10	2.5	4	1.015	3.97	6	76	65
STT6x18-4		18	4.5	4	0.99	4.02	6	77	64
STT6x25-20		25	1.25	20	0.55	6.3	7.4	86	78
STT7.5x7.5-6		7.5	7.5	1.25	6	0.9	5.9	7.7	70
STT8x1-1	8	1	1	1	1.0	1	8	28	19
STT8x1.5-1		1.5	1.5	1	0.68	6.65	8	33	23
STT8x2-1		2	2	1	1.25	5.5	8	48	30
STT8x4-1		4	2	2	1.25	5.5	8	58	45
STT8x10-4		10	2.5	4	1.35	5.5	8.2	74	62
STT8x12-4		12	3	4	1.20	5.6	8	75	64
STT8x15-6		15	2.5	6	1.35	5.5	8.2	77	66
STT8x24-6		24	4	6	1.20	5.6	8	77	64
STT8x30-24		30	1.25	24	0.55	7.5	8.6	78	68
STT9x20-5	9	20	4	5	1.55	5.8	8.9	77	66
STT10x1-1	10	1	1	1	0.56	8.88	10	21	14
STT10x1.4-1	10	1.4	1.4	1	0.92	7.7	9.53	28	20
STT10x1.5-1		1.5	1.5	1	0.97	7.95	9.88	29	20
STT10x2-1		2	2	1	1.41	6.71	9.53	37	27
STT10x3-2		3	1.5	2	0.81	7.92	9.53	45	34
STT10x4-2		4	2	2	1.29	6.96	9.53	53	41
STT10x5-2		5	2.5	2	1.39	6.76	9.53	59	46
STT10x6-4		6	1.5	4	1.05	7.9	10	61	48
STT10x10-8		10	1.25	8	0.90	8.2	10	70	58
STT10x10-4		10	2.5	4	1.39	7.23	10	71	59
Model No.	Dia.	Lead	Pitch	Start	Height of thread	Minor Dia.	Major Dia.	Efficiency (%)	
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Model No.	Dia.	Lead	Pitch	Start	Height of thread	Minor Dia.	Major Dia.	Efficiency (%)		
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STT10x12-4	10	12	3	4	1.45	7.1	10	73	62	
STT10x15-5		15	3	5	1.45	7.1	10	75	64	
STT10x20-8		20	2.5	8	0.80	8.4	10	77	66	
STT10x25-10		25	2.5	10	1.44	6.65	9.53	77	65	
STT10x35-28		35	1.25	28	0.60	8.9	10.1	86	78	
STT10x50-10		50	5	10	1.30	7.4	10	84	75	
STT11x2-1	11	2	2	1	1.41	8.28	11.1	31	21	
STT11x3-1		3	3	1	2.0	7.13	11.13	40	28	
STT11x4-2		4	2	2	1.33	8.79	11.45	49	36	
STT11x5-2		5	2.5	2	1.55	8.03	11.13	48	55	
STT11x6-3		6	2	3	1.53	7.95	11	59	47	
STT11x10-4		10	2.5	4	1.46	8.41	11.33	68	56	
STT11x12-4		12	3	4	1.53	8.08	11.13	72	60	
STT11x40-32		40	1.25	32	0.65	10.2	11.5	86	78	
STT11x60-12		60	5	12	1.30	9.1	11.9	84	75	
STT12x2-1	12	2	2	1	1.50	9.02	12.01	32	22	
STT12x2.5-1		2.5	2.5	1	1.49	9.73	12.7	36	25	
STT12x3-1		3	3	1	2.0	8	12	42	31	
STT12x4-2		4	2	2	1.33	9.34	12	47	35	
STT12x5-2		5	2.5	2	1.55	8.9	12	53	41	
STT12x6-2		6	3	2	1.90	8.2	12	58	46	
STT12x9-3		9	3	3	1.92	8.16	12	66	54	
STT12x10-4		10	2.5	4	1.72	9.19	12.62	67	55	
STT12x15-6		15	2.5	6	1.65	8.7	12	74	62	
STT12x15-5		15	3	5	1.50	9.2	12.2	73	62	
STT12x16-5		16	3.2	5	1.60	9.5	12.7	73	62	
STT 12x18-6		18	3	6	1.50	9	12	75	64	
STT12x25-10		25	2.5	10	1.40	9.2	12	76	64	
STT12x25-5		25	5	5	1.95	8	11.9	77	66	
STT12x45-36		45	1.25	36	0.70	11.4	12.8	86	78	
STT12x45-15		45	3	15	1.20	9.6	12	87	78	
STT12.5x12.5-10		12.5	12.5	1.25	10	0.95	10.4	12.3	70	58
STT13x20-4		13	20	5	4	2.25	8.8	13.3	76	64
STT13x35-7	35		5	7	1.95	9.1	13	77	65	
STT13x70-14	70		5	14	1.30	10.9	13.5	84	75	
STT14x8-2	14	8	4	2	2.15	9.7	14	61	48	
STT14x10-4		10	2.5	4	1.63	10.37	13.62	65	53	
STT14x12-3		12	4	3	2.15	9.7	14	68	56	
STT14x18-6		18	3	6	1.45	11.4	14.3	73	62	
STT14x30-6		30	5	6	1.90	10.1	13.9	77	66	
Model No.	Dia.	Lead	Pitch	Start	Height of thread	Minor Dia.	Major Dia.	Efficiency (%)		
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Model No.	Dia.	Lead	Pitch	Start	Height of thread	Minor Dia.	Major Dia.	Efficiency (%)		
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STT15x20-8	15	20	2.5	8	1.35	12.5	15.2	73	62	
STT15x80-16		80	5	16	1.35	12.6	15.2	84	74	
STT16x2-1	16	2	2	1	1.20	13.6	16	25	17	
STT16x3-1		3	3	1	1.50	13	16	34	24	
STT16x4-1		4	4	1	2.35	11.3	16	41	30	
STT16x5-2		5	2.5	2	1.90	12.2	16	46	34	
STT16x8-2		8	4	2	1.70	12.53	15.93	57	44	
STT16x16-7		16	2.29	7	1.70	12.6	16	70	58	
STT16x16-4		16	4	4	2.25	11.5	16	71	59	
STT16x16-4		16	4	4	1.80	12.4	16	70	58	
STT16x21-7		21	3	7	1.45	13.6	16.5	73	62	
STT16x25-5		25	5	5	2.25	11.5	16	76	64	
STT16x35-7		35	5	7	1.90	12.1	15.9	77	66	
STT16x90-18		90	5	18	1.35	14.3	17	86	74	
STT17x24-4		17	24	6	4	2.10	12.9	17.1	75	63
STT17x18-4			18	4.5	4	2.0	13.3	17.3	71	59
STT18x16-4	18	16	4	4	1.85	14.3	18	68	56	
STT18x18-4		18	4.5	4	1.80	14.4	18	70	58	
STT18x24-8		24	3	8	1.50	15.7	18.7	73	62	
STT18x40-8		40	5	8	1.90	14.1	17.9	77	66	
STT18x60-10		60	6	10	1.95	13.9	18			
STT18x100-20		100	5	20	1.30	16.2	18.8	84	74	
STT19x2.5-1	19	2.5	2.5	1	1.48	15.9	18.85	26	18	
STT19x5-2		5	2.5	2	1.54	15.85	18.92	41	30	
STT19x6-1		6	6	1	2.85	14.3	19	47	35	
STT19x7-2		7	3.5	2	1.60	15.85	19.05	49	37	
STT19x15-5		15	3	5	1.60	15.82	19.02	66	53	
STT19x18-6		18	3	6	1.65	16.51	19.81	68	56	
STT19x19-6		19	3.167	6	1.59	13.89	17.07	71	60	
STT19x20-5		20	4	5	1.68	16.46	19.81	70	58	
STT19x24-8		24	3	8	1.28	16.08	18.64	73	61	
STT19x30-6		30	5	6	2.30	14.2	18.8	76	64	
STT19x50-10		50	5	10	1.67	15.75	19.08	77	66	
STT19x92-23		92	4	23	1.48	16.1	19.05		88	
STT20x4-1	20	4	4	1	2.35	15.3	20	35	25	
STT20x8-2		8	4	2	2.60	14.8	20	52	40	
STT20x12-4		12	3	4	2.10	15.8	20	61	48	
STT20x16-4		16	4	4	2.50	15	20	67	55	
STT20x18-3		18	6	3	3.17	13.66	20	67	48	
STT20x20-5		20	4	5	2.50	15	20	70	59	
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STT20x45-9	20	45	5	9	1.95	16.1	20	77	66
STT21x10-4	21	10	2.5	4	1.60	18.4	21.6	54	42
STT21x27-9		27	3	9	1.45	17.9	20.8	73	62
STT21x35-7		35	5	7	2.25	17	21.5	76	64
STT22x4-1	22	4	4	1	2.35	17.3	22	33	24
STT22x6-3		6	2	3	0.96	19.63	21.54	41	30
STT22x10-4		10	2.5	4	1.71	18.82	22.23	54	41
STT22x16-4		16	4	4	1.71	18.82	22.23	64	51
STT22x20-5		20	4	5	1.85	18.3	22	68	56
STT22x24-6		24	4	6	1.71	18.82	22.23	71	59
STT22x50-10		50	5	10	1.95	18.1	22	77%	66
STT23x30-10	23	30	3	10	1.50	20	23	73	62
STT24x5-1	24	5	5	1	2.75	18.5	24	36	26
STT24x40-8		40	5	8	2.25	19.8	24.3	76	64
STT24x55-11		55	5	11	1.90	20.1	24	77	66
STT26x10-2	26	10	5	2	1.68	23.32	26.68	49	37
STT26x16-4		16	4	4	2.10	21.8	26	61	48
STT26x20-5		20	4	5	1.63	23.37	26.63	64	52
STT26x24-6		24	4	6	1.80	22.3	26	68	56
STT26x50-10		50	5	10	1.63	23.37	26.63	76	
STT26x60-12		60	5	12	1.90	22.2	26	77	
STT26x75-15		75	5	15	1.63	23.37	26.63	77	
STT27x45-9	27	45	5	9	2.25	22.5	27	76	
STT28x65-15	28	65	5	15	1.90	24.2	28	77	
STT30x28-7	30	28	4	7	1.75	26.5	30	68	
STT30x50-6		50	5	10	2.25	25.3	29.8	76	
STT30x70-14		70	5	14	1.90	26.2	30	78	
STT32x20-5	32	20	4	5	2.10	27.8	32	61	
STT32x75-15		75	5	15	1.90	28.2	32	77	
STT34x32-8	34	32	4	8	1.80	30.5	34	68	
STT34x80-16		80	5	16	1.90	30.2	34	77	
STT36x200-40	36	200	5	40	1.30	33.4	36	88	
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- 5). **Accuracy:** 0.02/30mm (0.0006inch/inch), **repeat accuracy** is less than 0.01mm and can reach 0.005mm after polishing, with **straightness** less than 0.1mm.
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Following Tables shows the sizes of Lead Screw Shaft available inch.

List of sizes (in inch):

Model No.	Dia.		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze
STT3/32-0.05-1	3/32	3.0	0.05	1.27	1	0.121	3.07	0.069	1.75%	66	52
STT1/8-0.024-1	1/8 "	3.2	0.024	0.61	1	0.129	3.28	0.093	2.36	44	33
STT1/8-0.039-1			0.039	1.00	1	0.129	3.28	0.094	2.39	57	45
STT1/8-0.048-1			0.048	1.22	1	0.129	3.28	0.093	2.36	61	49
STT1/8-0.075-1			0.075	1.91	1	0.129	3.28	0.093	2.36	70	59
STT1/8-0.096-2			0.096	2.44	2	0.129	3.28	0.093	2.36	75	64
STT1/8-0.125-2			0.125	3.18	2	0.125	3.18	0.078	1.98	80	70
STT0.132-0.02-1			0.132	3.3	0.020	0.50	1	0.132	3.35	0.104	2.64
STT0.132-0.039-1	0.039	1.00			1	0.132	3.35	0.080	2.03	61	44
STT0.132-0.079-1	0.079	2.00			1	0.132	3.35	0.080	2.03	75	61
STT0.132-0.157-2	0.157	4.00			2	0.132	3.35	0.080	2.03	84	72
STT0.132-0.315-4	0.315	8.00			4	0.132	3.35	0.080	2.03	87	76
STT9/64-0.012-1	9/64	3.6	0.012	0.30	1	0.140	3.56	0.123	3.12	26	17
STT9/64-0.024-1			0.024	0.61	1	0.140	3.56	0.105	2.67	43	31
STT9/64-0.025-1			0.025	0.64	1	0.147	3.73	0.110	2.79	45	31
STT9/64-0.047-1			0.047	1.19	1	0.149	3.78	0.093	2.36	60	46
STT9/64-0.048-1			0.048	1.22	1	0.140	3.56	0.081	2.06	62	49
STT9/64-0.063-1			0.063	1.59	1	0.138	3.50	0.078	1.98	67	55
STT9/64-0.096-1			0.096	2.44	1	0.140	3.56	0.081	2.06	75	64
STT9/64-0.394-5			0.394	10.00	5	0.140	3.56	0.102	2.59	86	75
STT5/32-0.033-1	5/32	4	0.033	0.84	1	0.156	3.96	0.116	2.95	45	35
STT5/32-0.05-1			0.050	1.27	1	0.156	3.96	0.096	2.44	59	47
STT5/32-0.063-1			0.063	1.59	1	0.170	4.32	0.110	2.80	65	49
STT5/32-0.094-2			0.094	2.39	2	0.164	4.17	0.128	3.25	67	58
STT5/32-0.125-2			0.125	3.18	2	0.168	4.27	0.130	3.30	74	64
STT5/32-0.25-4			0.250	6.35	4	0.156	3.96	0.130	3.30	83	74
STT5/32-0.375-6			0.375	9.53	6	0.156	3.96	0.130	3.30	85	76
STT5/32-0.5-8			0.500	12.70	8	0.156	3.96	0.130	3.30	86	75
STT3/16-0.02-1	3/16	5	0.020	0.50	1	0.188	4.78	0.163	4.14	30	20
STT3/16-0.025-1			0.025	0.64	1	0.188	4.78	0.150	3.81	39	26
STT3/16-0.39-1			0.039	1.00	1	0.188	4.78	0.144	3.66	47	32
STT3/16-0.05-1			0.050	1.27	1	0.188	4.78	0.124	3.15	58	42
STT3/16-0.1-2			0.100	2.54	2	0.188	4.78	0.136	3.45	69	56
STT3/16-0.188-4			0.188	4.76	4	0.188	4.78	0.167	4.24	78	67
STT3/16-0.2-4			0.200	5.08	4	0.188	4.78	0.124	3.15	82	70
STT3/16-0.375-8			0.375	9.53	8	0.188	4.78	0.161	4.09	84	75
STT3/16-0.4-8			0.400	10.16	8	0.188	4.78	0.124	3.15	84	76
STT3/16-0.427-9			0.427	10.85	9	0.188	4.78	0.162	4.11	85	76
STT3/16-0.5-10			0.500	12.70	10	0.188	4.78	0.142	3.61	86	76
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze
STT7/32-0.024-1	7/32	5.6	0.024	0.61	1	0.218	5.54	0.181	4.60	31	23
STT7/32-0.025-1			0.025	0.64	1	0.218	5.54	0.156	3.96	32	28
STT7/32-0.031-1			0.031	0.79	1	0.204	5.18	0.160	4.06	39	37
STT7/32-0.048-1			0.048	1.22	1	0.216	5.49	0.156	3.96	50	37
STT7/32-0.05-1			0.050	1.27	1	0.200	5.08	0.135	3.43	52	40
STT7/32-0.063-1			0.063	1.59	1	0.218	5.54	0.142	3.61	60	44
STT7/32-0.096-2			0.096	2.44	2	0.218	5.54	0.156	3.96	66	53
STT7/32-0.125-2			0.125	3.18	2	0.218	5.54	0.156	3.96	73	58
STT7/32-0.192-4			0.192	4.88	4	0.218	5.54	0.156	3.96	78	57
STT7/32-0.25-4			0.250	6.35	4	0.204	5.18	0.140	3.56	81	72
STT7/32-0.384-5			0.384	9.75	5	0.218	5.54	0.159	4.04	86	75
STT1/4-0.024-1			1/4	6	0.024	0.61	1	0.250	6.35	0.218	5.54
STT1/4-0.025-1	0.025	0.64			1	0.250	6.35	0.214	5.44	30	
STT1/4-0.031-1	0.031	0.79			1	0.250	6.35	0.208	5.28	34	
STT1/4-0.039-1	0.039	1.00			1	0.250	6.35	0.190	4.83	40	
STT1/4-0.048-1	0.048	1.22			1	0.250	6.35	0.190	4.83	45	
STT1/4-0.05-1	0.050	1.27			1	0.250	6.35	0.191	4.85	46	
STT1/4-0.059-1	0.059	1.50			1	0.250	6.35	0.172	4.37	52	
STT1/4-0.063-1	0.063	1.59			1	0.250	6.35	0.170	4.32	52	
STT1/4-0.079-1	0.079	2.00			1	0.250	6.35	0.170	4.32	59	
STT1/4-0.096-2	0.096	2.44			2	0.250	6.35	0.190	4.83	61	
STT1/4-0.1-2	0.100	2.54			2	0.250	6.35	0.190	4.83	62	
STT1/4-0.118-2	0.118	3.00			2	0.250	6.35	0.175	4.45	68	
STT1/4-0.125-2	0.125	3.18			2	0.250	6.35	0.190	4.83	67	
STT1/4-0.197-1	0.197	5.00			3	0.250	6.35	0.172	4.37	72	
STT1/4-0.2-1	0.200	5.08			3	0.250	6.35	0.170	4.32	65	
STT1/4-0.25-4	0.250	6.35			4	0.250	6.35	0.168	4.27	79	
STT1/4-0.313-4	0.313	7.94			4	0.250	6.35	0.184	4.67	81	
STT1/4-0.333-4	0.333	8.46			4	0.250	6.35	0.170	4.32	82	
STT1/4-0.394-5	0.394	10.00			5	0.250	6.35	0.170	4.32	78	
STT1/4-0.4-5	0.400	10.16			5	0.250	6.35	0.170	4.32	84	
STT1/4-0.5-6	0.500	12.70	6	0.250	6.35	0.169	4.29	85			
STT1/4-0.75-8	0.750	19.05	8	0.250	6.35	0.170	4.32	86			
STT1/4-1-10	1.000	25.40	10	0.250	6.35	0.170	4.32	84			
STT5/16-0.042-1	5/16	8	0.042	1.06	1	0.316	8.03	0.260	6.53	41	
STT5/16-0.057-1			0.057	1.44	1	0.315	8.00	0.243	6.71	43	
STT5/16-0.074-1			0.074	1.88	1	0.312	7.92	0.211	5.36	51	
STT5/16-0.083-1			0.083	2.11	1	0.312	7.92	0.211	5.36	55	
STT5/16-0.111-2			0.111	2.82	2	0.312	7.92	0.232	5.89	60	
STT5/16-0.167-2			0.167	4.24	2	0.312	7.92	0.211	5.36	69	
STT5/16-0.25-2			0.250	6.35	2	0.312	7.92	0.234	5.94	76	
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze
STT5/16-0.5-6	5/16	8	0.500	12.70	6	0.312	7.92	0.232	5.89	83	
STT5/16-0.5-4			0.500	12.70	4	0.315	8.00	0.205	5.20	83	
STT5/16-0.8-10			0.800	20.32	10	0.306	7.77	0.243	6.17	86	
STT3/8-0.025-1	3/8	10	0.025	0.64	1	0.375	9.53	0.337	8.56	21	
STT3/8-0.039-1			0.039	1.00	1	0.394	10.01	0.350	8.89	28	
STT3/8-0.042-1			0.042	1.06	1	0.375	9.53	0.320	8.13	34	
STT3/8-0.05-1			0.050	1.27	1	0.375	9.53	0.301	7.65	36	
STT3/8-0.055-1			0.055	1.40	1	0.375	9.53	0.303	7.70	38	
STT3/8-0.059-1			0.059	1.50	1	0.389	9.88	0.313	7.95	38	
STT3/8-0.063-1			0.063	1.59	1	0.375	9.53	0.295	7.49	41	
STT3/8-0.068-1			0.068	1.73	1	0.388	9.86	0.295	7.49	42	
STT3/8-0.079-1			0.079	2.00	1	0.375	9.53	0.264	6.71	47	
STT3/8-0.083-1			0.083	2.12	1	0.375	9.53	0.293	7.44	48	
STT3/8-0.1-1			0.100	2.54	1	0.375	9.53	0.266	6.76	53	
STT3/8-0.125-2			0.125	3.18	2	0.375	9.53	0.295	7.49	59	
STT3/8-0.157-2			0.157	4.00	2	0.375	9.53	0.274	6.96	65	
STT3/8-0.167-2			0.167	4.23	2	0.371	9.42	0.261	6.63	61	
STT3/8-0.197-2			0.197	5.00	2	0.375	9.53	0.266	6.76	69	
STT3/8-0.2-2			0.200	5.08	2	0.375	9.53	0.266	6.76	69	
STT3/8-0.25-2			0.250	6.35	2	0.375	9.53	0.268	6.81	70	
STT3/8-0.3-2			0.300	7.62	2	0.375	9.53	0.255	6.48	76	
STT3/8-0.333-2			0.333	8.46	2	0.375	9.53	0.245	6.22	78	
STT3/8-0.363-3			0.363	9.22	3	0.375	9.53	0.260	6.60	79	
STT3/8-0.375-3			0.375	9.53	3	0.375	9.53	0.265	6.73	79	
STT3/8-0.394-4			0.394	10.00	4	0.375	9.53	0.260	6.60	79	
STT3/8-0.4-4			0.400	10.16	4	0.375	9.53	0.293	7.44	79	
STT3/8-0.472-4			0.472	12.00	4	0.388	9.86	0.287	7.29	82	
STT3/8-0.5-4			0.500	12.70	4	0.374	9.50	0.295	7.50	81	
STT3/8-0.5-4			0.500	12.70	4	0.388	9.86	0.265	6.73	81	
STT3/8-0.667-5			0.667	16.94	5	0.375	9.53	0.273	6.93	83	
STT3/8-0.75-5			0.750	19.05	5	0.388	9.86	0.273	6.93	84	
STT3/8-0.984-5	0.984	25.00	5	0.375	9.53	0.262	6.65	84			
STT3/8-1-5	1.000	25.40	5	0.383	9.73	0.254	6.45	84			
STT3/8-1.2-5	1.200	30.48	5	0.383	9.73	0.254	6.45	84			
STT3/8-1.25-5	1.250	31.75	5	0.375	9.53	0.278	7.06	84			
STT3/8-1.5-5	1.500	38.10	5	0.375	9.53	0.264	6.71	83			
STT7/16-0.05-1	7/16	11	0.050	1.27	1	0.437	11.10	0.362	9.19	30	
STT7/16-0.063-1			0.063	1.59	1	0.436	11.07	0.358	9.09	38	
STT7/16-0.079-1			0.079	2.00	1	0.472	11.99	0.374	9.50	42	
STT7/16-0.111-1			0.111	2.82	1	0.437	11.10	0.327	8.31	52	
STT7/16-0.118-2			0.118	3.00	2	0.438	11.13	0.363	9.22	52	
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze
STT7/16-0.125-2	7/16	11	0.125	3.18	2	0.438	11.13	0.357	9.07	54	
STT7/16-0.197-2			0.197	5.00	2	0.438	11.13	0.315	8.00	65	
STT7/16-0.236-2			0.236	6.00	2	0.433	11.00	0.313	7.95	70	
STT7/16-0.25-2			0.250	6.35	2	0.442	11.23	0.325	8.26	70	
STT7/16-0.307-3			0.307	7.80	3	0.445	11.30	0.343	8.71	73	
STT7/16-0.325-4			0.325	8.26	4	0.444	11.28	0.342	8.69	74	
STT7/16-0.394-4			0.394	10.00	4	0.446	11.33	0.331	8.41	78	
STT7/16-0.463-5			0.463	11.76	5	0.444	11.28	0.343	8.71	79	
STT7/16-0.472-4			0.472	12.00	4	0.438	11.13	0.318	8.08	80	
STT7/16-0.5-4			0.500	12.70	4	0.452	11.48	0.327	8.31	80	
STT7/16-0.615-6			0.615	15.62	6	0.475	12.07	0.376	9.55	82	
STT1/2-0.05-1	1/2	13	0.050	1.27	1	0.495	12.57	0.433	11.00	29	
STT1/2-0.063-1			0.063	1.59	1	0.495	12.57	0.433	11.00	29	
STT1/2-0.079-1			0.079	2.00	1	0.473	12.01	0.355	9.02	41	
STT1/2-0.098-1			0.098	2.50	1	0.500	12.70	0.383	9.73	46	
STT1/2-0.1-1			0.100	2.54	1	0.490	12.45	0.364	9.25	46	
STT1/2-0.125-1			0.125	3.18	1	0.500	12.70	0.374	9.50	51	
STT1/2-0.157-2			0.157	4.00	2	0.500	12.70	0.384	9.75	58	
STT1/2-0.16-2			0.160	4.06	2	0.500	12.70	0.388	9.86	67	
STT1/2-0.167-2			0.167	4.23	2	0.500	12.70	0.384	9.75	58	
STT1/2-0.197-2			0.197	5.00	2	0.500	12.70	0.365	9.27	62	
STT1/2-0.2-2			0.200	5.08	2	0.492	12.50	0.366	9.30	63	
STT1/2-0.25-3			0.250	6.35	3	0.500	12.70	0.382	9.70	67	
STT1/2-0.333-4			0.333	8.46	4	0.497	12.62	0.362	9.19	73	
STT1/2-0.394-4			0.394	10.00	4	0.497	12.62	0.362	9.19	76	
STT1/2-0.4-4			0.400	10.16	4	0.497	12.62	0.364	9.25	76	
STT1/2-0.5-5			0.500	12.70	5	0.488	12.40	0.352	8.94	79	
STT1/2-0.63-5			0.630	16.00	5	0.500	12.70	0.374	9.50	80	
STT1/2-0.75-5			0.750	19.05	5	0.525	13.34	0.399	10.13	83	
STT1/2-0.8-6			0.800	20.32	6	0.500	12.70	0.370	9.40	83	
STT1/2-0.984-6			0.984	25.00	6	0.500	12.70	0.369	9.37	84	
STT1/2-1-8	1.000	25.40	8	0.490	12.45	0.372	9.45	84			
STT1/2-1.5-8	1.500	38.10	8	0.490	12.45	0.374	9.50	85			
STT1/2-2-16	2.000	50.80	16	0.488	12.40	0.378	9.60	87			
STT5/8-0.1-1	5/8	16	0.100	2.54	1	0.615	15.62	0.498	12.65	40	
STT5/8-0.125-1			0.125	3.18	1	0.625	15.88	0.470	11.94	45	
STT5/8-0.2-2			0.200	5.08	2	0.625	15.88	0.495	12.57	53	
STT5/8-0.25-2			0.250	6.35	2	0.625	15.88	0.469	11.91	63	
STT5/8-0.315-3			0.315	8.00	3	0.627	15.93	0.493	12.52	68	
STT5/8-0.375-3			0.375	9.53	3	0.625	15.88	0.457	11.61	70	
STT5/8-0.41-4			0.410	10.41	4	0.625	15.88	0.481	12.22	72	
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze
STT5/8-0.5-4	5/8	16	0.500	12.70	4	0.625	15.88	0.478	12.14	76	
STT5/8-0.63-4			0.630	16.00	4	0.630	16.00	0.492	12.50	78	
STT5/8-0.63-5			0.630	16.00	5	0.625	15.88	0.491	12.47	78	
STT5/8-1-8			1.000	25.40	8	0.625	15.88	0.481	12.22	83	
STT5/8-1.5-12			1.500	38.10	12	0.625	15.88	0.499	12.67	85	
STT5/8-1.575-10			1.575	40.01	10	0.625	15.88	0.499	12.67	86	
STT5/8-2-16			2.000	50.80	16	0.625	15.88	0.499	12.67	86	
STT3/4-0.063-1	3/4	19	0.063	1.59	1	0.750	19.05	0.671	17.04	25	
STT3/4-0.098-1			0.098	2.50	1	0.742	18.85	0.626	15.90	35	
STT3/4-0.1-1			0.100	2.54	1	0.746	18.95	0.624	15.85	35	
STT3/4-0.125-1			0.125	3.18	1	0.785	19.45	0.610	15.45	36	
STT3/4-0.167-2			0.167	4.23	2	0.727	18.47	0.645	16.38	47	
STT3/4-0.197-2			0.197	5.00	2	0.745	18.92	0.624	15.85	51	
STT3/4-0.2-2			0.200	5.08	2	0.741	18.82	0.632	16.05	52	
STT3/4-0.25-2			0.250	6.35	2	0.731	18.57	0.639	16.23	57	
STT3/4-0.276-2			0.276	7.00	2	0.750	19.05	0.624	15.85	59	
STT3/4-0.333-2			0.333	8.46	2	0.750	19.05	0.624	15.85	64	
STT3/4-0.394-4			0.394	10.00	4	0.745	18.92	0.619	15.72	68	
STT3/4-0.5-4			0.500	12.70	4	0.744	18.90	0.623	15.82	73	
STT3/4-0.551-5			0.551	14.00	5	0.750	19.05	0.624	15.85	73	
STT3/4-0.591-5			0.591	15.00	5	0.749	19.02	0.623	15.82	74	
STT3/4-0.709-6			0.709	18.00	6	0.780	19.81	0.650	16.51	77	
STT3/4-0.748-6			0.748	19.00	6	0.672	17.07	0.547	13.89	80	
STT3/4-0.787-6			0.787	20.00	6	0.780	19.81	0.648	16.46	78	
STT3/4-0.8-6			0.800	20.32	6	0.750	19.05	0.618	15.70	79	
STT3/4-0.945-8			0.945	24.00	8	0.734	18.64	0.633	16.08	80	
STT3/4-1-8			1.000	25.40	8	0.743	18.87	0.619	15.72	81	
STT3/4-1.5-12			1.500	38.10	12	0.712	18.08	0.590	14.99	84	
STT3/4-1.969-10			1.969	50.00	10	0.751	19.08	0.620	15.75	84	
STT3/4-2-10			2.000	50.80	10	0.742	18.85	0.611	15.52	84	
STT3/4-2.4-12	2.400	60.96	12	0.750	19.05	0.620	15.75	84			
STT3/4-3.622-23	3.622	92.00	23	0.750	19.05	0.634	16.10	87			
STT7/8-0.166	7/8	22	0.166	4.22	1	0.875	22.23	0.661	16.78	42	
STT7/8-0.2			0.200	5.08	2	0.870	22.10	0.742	18.85	48	
STT7/8-0.236			0.236	6.00	3	0.848	21.54	0.773	19.63	52	
STT7/8-0.25			0.250	6.35	2	0.875	22.23	0.749	19.02	53	
STT7/8-0.394			0.394	10.00	2	0.875	22.23	0.741	18.82	65	
STT7/8-0.5			0.500	12.70	4	0.862	21.89	0.744	18.90	69	
STT7/8-0.63			0.630	16.00	4	0.875	22.23	0.741	18.82	73	
STT7/8-0.667			0.667	16.94		0.871	22.12	0.745	18.92	74	
STT7/8-0.787			0.787	20.00		0.875	22.23	0.741	18.82	78	
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

STT7/8-0.945	7/8	22	0.945	24.00		0.875	22.23	0.741	18.82	79	
STT7/8-1			1.000	25.40		0.871	22.12	0.742	18.85	80	
STT15/16-0.05	15/16	24	0.050	1.27		0.938	23.83	0.874	22.20	17	
STT15/16-2			2.000	50.80		0.927	23.55	0.815	20.70	85	
STT15/16-3			3.000	76.20		0.939	23.85	0.803	20.40	86	
Model No.	Diameter		Lead		Start	Outside Dia.		Root Dia.		Efficiency (%)	
	inch	mm	in	mm		in	mm	in	mm	plastic	bronze

“STT Series” Anti-Backlash Nut

The high speed linear motion can be achieved at a very low speed, which is required in many types of mechanical equipment. Comparing with timing belt, chain, worm and gears, eccentric gear, crank etc., the design of high speed lead screws offer much better performance in cost, space, precision, reliability, long life, transmission efficiency. This STT Precision Lead Screw can even replace ballscrew under certain conditions.

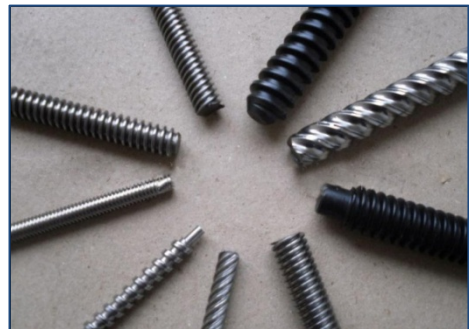
Advantages compared with ballscrew:

- 1). Lower cost for manufacturing, free select of materials and free design of nut shape and size;
- 2). Lower noise and shake, better self-lubricant and abrasive resistance.

The STT lead screw assembly consists of lead screw shaft and lead screw nut as follows:

Lead Screw Shaft

- 1). **Properties:** STT is a special kind of thread, which is developed on the base of trapezoidal and round thread. This STT thread can increase the life of nut a lot and produce much lower noise when it works together with anti-backlash nut, What's more, the STT lead screws provides high precision and repeat-accuracy.
- 2). **Standard Materials** are SS303 and S45C (carbon steel), and other materials available upon request.
- 3). **Coatings:** Xylan 1010 coating, surface alloy catalysts, PTFE coating. The coatings will increase the smoothness and working life a lot (3 times), and at the same time decrease the resistance.
- 4). **Nominal diameter** from 2.5mm(3/32") to 25mm(1") and **lead** from 0.3mm(0.012") to 200mm(8").
- 5). **Accuracy:** 0.02/30mm (0.0006inch/inch), **repeat accuracy** is less than 0.01mm and can reach 0.005mm after polishing, with **straightness** less than 0.1mm.
- 6). **Max length** can reach 3 meters (12"), and if longer length is required, please contact us.
- 7). **Left hand** thread is available upon request.
- 8). **End machining** available upon request.



Lead Screw Nut

A. Anti-Backlash Plastic Nut

- a). “DFH” for Light Loads.
- b). “JCX” for Light Loads, Compact Design.
- c). “KTZ” for Adjustable Drag Torque, Ultra Smooth Travel.



B. General Purpose Nut

- a). polymer composite plastic nut: excellent abrasive resistance, temperature resistance, self-lubricant, maintenance free and long life.
- b). bronze and brass nut with properties of excellent high load, good abrasive resistance, anti-impact and anti-shake



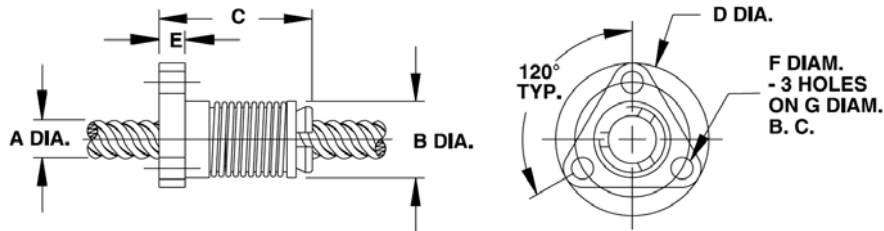
Please visit our website for details.

1. “DFH” for Light Loads.

The DFH assembly, through its unique transfer of loads, offers exceptional torque consistency and repeatability when traversing in either direction. The inherent damping qualities of the DFH design make it ideally suited for vertical applications requiring noise or vibration control.

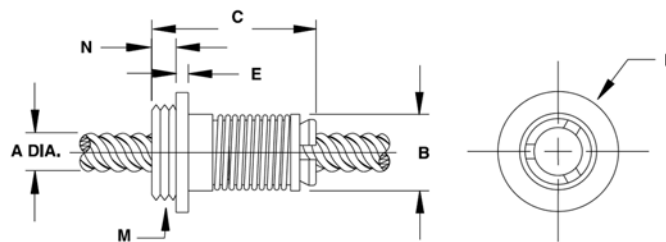


1). DFH-F: DFH nut with flange mount



Screw Ø	Nut Ø	Nut Length	Flange Ø	Flange Thk.	Mounting Hole Ø	Bolt Circle Ø	Dynamic Load	Drag Torque
A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	lbs. (kg)	oz.-in. (Nm)
1/4 (6.00)	0.50 (12.70)	1.00 (26.00)	1.00 (25.40)	0.18 (4.60)	0.14 (3.60)	0.75 (19.10)	5.00 (2.30)	0.5-3 (.004-.02)
5/16 (8.00)	0.70 (17.80)	1.90 (48.00)	1.50 (38.10)	0.18 (4.60)	0.20 (5.08)	1.13 (28.60)	10.00 (5.00)	1-5 (.007-.03)
3/8 (10.00)	0.70 (17.70)	1.90 (48.00)	1.50 (38.10)	0.18 (4.60)	0.20 (5.08)	1.13 (28.60)	10.00 (5.00)	1-5 (.007-.03)
7/16 (11.00)	0.80 (20.30)	1.90 (48.00)	1.50 (38.10)	0.18 (4.60)	0.20 (5.08)	1.13 (28.60)	15.00 (7.00)	2-6 (.014-.04)
1/2 (13.00)	0.89 (22.60)	2.00 (51.00)	1.62 (41.20)	0.26 (6.60)	0.20 (5.08)	1.25 (31.80)	25.00 (11.00)	3-7 (.02-.05)
5/8 (16.00)	1.06 (26.92)	2.00 (51.00)	1.75 (44.50)	0.26 (6.60)	0.20 (5.08)	1.38 (34.90)	35.00 (16.00)	4-8 (.028-.055)

2). DFH-F: DFH nut with thread mount



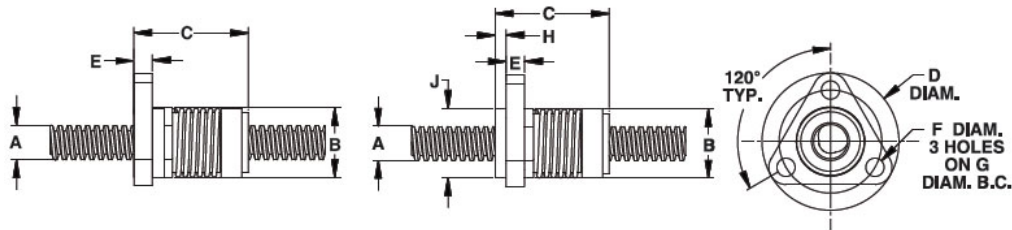
Screw Ø	Nut Ø	Nut Length	Flange Ø	Flange Thickness	Thread	Thread Length	Dynamic Load	Drag Torque
A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	M in.	N in. (mm)	lbs. (kg)	oz.-in. (Nm)
1/4 (6.00)	0.50 (12.70)	1.30 (33.00)	0.80 (20.30)	0.22 (5.60)	5/8-18	0.16 (4.10)	5.00 (2.30)	0.5-3 (.004-.02)
5/16 (8.00)	0.70 (17.80)	2.20 (56.00)	1.00 (25.40)	0.17 (4.30)	5/8-18	0.38 (9.70)	10.00 (5.00)	1-5 (.007-.03)
3/8 (10.00)	0.70 (17.80)	2.20 (56.00)	1.00 (25.40)	0.17 (4.30)	5/8-18	0.38 (9.70)	10.00 (5.00)	1-5 (.007-.03)
7/16 (11.00)	0.80 (20.30)	2.30 (59.00)	1.00 (25.40)	0.12 (3.10)	15/16-16	0.38 (9.70)	15.00 (7.00)	2-6 (.015-.04)
1/2 (13.00)	0.89 (22.60)	2.30 (59.00)	1.02 (25.90)	0.12 (3.10)	15/16-16	0.38 (9.70)	25.00 (11.00)	3-7 (.02-.05)
5/8 (16.00)	1.06 (26.90)	2.40 (61.00)	1.06 (26.90)	0.15 (3.80)	15/16-16	0.50 (12.70)	35.00 (16.00)	4-8 (.028-.055)

2. "JCX" for Light Loads, Compact Design.

JCX anti-backlash lead screw assembly utilizes a general purpose self-compensating nut in an exceptionally compact package. This allows equipment designers to utilize smaller assemblies without sacrificing stroke length.

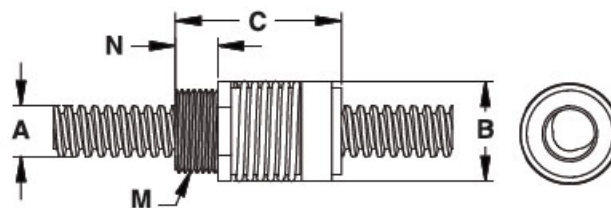


1). JCX-F: JCX nut with flange mount



Screw Ø	Nut Ø	Nut Length	Flange Ø	Flange Thk.	Mounting Hole Ø	Bolt Circle Ø	Hub Length	Hub Ø	Dynamic Load	Drag Torque (max.)
A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	lbs. (kg)	oz-in (NM)
3/16 (4)	0.63 (16.00)	1.05 (26.60)	1.13 (28.60)	0.16 (4.10)	0.14 (3.70)	0.88 (22.20)	0.08 (2.04)	0.63 (15.90)	5.00 (2.30)	4.00 (0.03)
7/32 (5)	0.63 (16.00)	1.05 (26.60)	1.13 (28.60)	0.16 (4.10)	0.14 (3.70)	0.88 (22.20)	0.08 (2.04)	0.63 (15.90)	5.00 (2.30)	4.00 (0.03)
1/4 (6)	0.63 (16.00)	1.05 (26.60)	1.13 (28.60)	0.16 (4.10)	0.14 (3.70)	0.88 (22.20)	0.08 (2.04)	0.63 (15.90)	5.00 (2.30)	4.00 (0.03)
5/16 (8)	0.75 (19.00)	1.32 (33.50)	1.50 (38.10)	0.20 (5.01)	0.20 (5.01)	1.13 (28.60)	0.12 (3.05)	0.75 (19.10)	8.00 (3.60)	5.00 (0.04)
3/8 (10)	0.75 (19.00)	1.32 (33.50)	1.50 (38.10)	0.20 (5.01)	0.20 (5.01)	1.13 (28.60)	0.12 (3.05)	0.75 (19.10)	8.00 (3.60)	5.00 (0.04)

2). JCX-T: JCX nut with thread mount



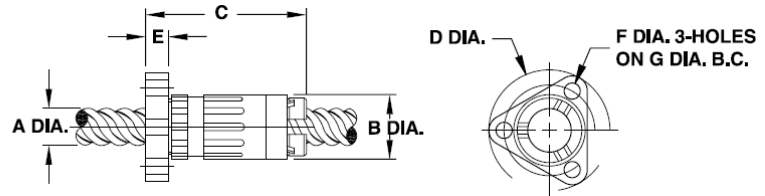
Screw Ø	Nut Ø	Nut Length	Thread	Thread Length	Dynamic Load	Drag Torque(max.)
A in. (mm)	B in. (mm)	C in. (mm)	M*	N in. (mm)	lbs. (kg)	oz-in (NM)
3/16 (4.00)	0.63 (16.00)	1.05 (26.60)	9/16 - 18	0.24 (16.10)	5.00 (2.30)	4.00 (0.03)
7/32 (5.00)	0.63 (16.00)	1.05 (26.60)	9/16 - 18	0.24 (16.10)	5.00 (2.30)	4.00 (0.03)
1/4 (6.00)	0.63 (16.00)	1.05 (26.60)	9/16 - 18	0.24 (16.10)	5.00 (2.30)	4.00 (0.03)
5/16 (8.00)	0.75 (19.00)	1.32 (33.50)	5/8 - 18	0.32 (18.10)	8.00 (3.60)	5.00 (0.04)
3/8 (10.00)	0.75 (19.00)	1.32 (33.50)	5/8 - 18	0.32 (18.10)	8.00 (3.60)	5.00 (0.04)

3. “KTZ” for Adjustable Drag Torque, Ultra Smooth Travel.

KTZ nut offers a cost-effective anti-backlash assembly for applications requiring precise positional accuracy. The KTZ has been developed specifically for those applications that require very smooth and consistent motion such as printing, scanning, and coordinate measurement systems. Another benefit of the KTZ design is the ability to manually adjust the drag torque setting to match the specific requirements of the application.

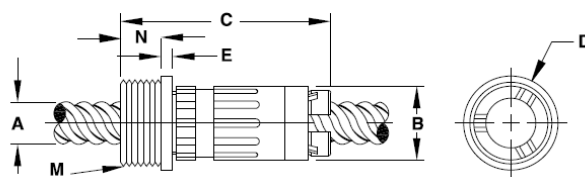


1). KTZ-F: KTZ nut with flange mount



Screw Ø	Nut Ø	Nut Length	Flange Ø	Flange Thickness	Mounting Hole Ø	Bolt Circle Ø	Dynamic Load	Drag Torque
A	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	lbs. (kg)	oz.-in. (Nm)
1/4 (6)	0.53 (13.5)	1.0 (26)	1.00 (25.4)	0.18 (4.6)	0.143 (3.6)	.750 (19.05)	5 (2.3)	.5-2 (0.004-0.014)
5/16 (8)	0.74 (18.8)	1.9 (48)	1.50 (38.1)	0.18 (4.6)	0.200 (5.08)	1.125 (28.58)	10 (5)	1-3 (0.007-0.02)
3/8 (9)	0.74 (18.8)	1.9 (48)	1.50 (38.1)	0.18 (4.6)	0.200 (5.08)	1.125 (28.58)	10 (5)	1-3 (0.007-0.02)
7/16 (11)	0.80 (20.3)	1.9 (48)	1.50 (38.1)	0.18 (4.6)	0.200 (5.08)	1.125 (28.58)	15 (7)	2-5 (0.014-0.03)
1/2 (13)	0.89 (22.6)	2.0 (51)	1.62 (41.2)	0.28 (7.1)	0.200 (5.1)	1.250 (31.75)	25 (11)	2-5 (0.014-0.03)
5/8 (16)	1.06 (26.9)	2.0 (51)	1.75 (44.5)	0.28 (7.1)	0.200 (5.08)	1.375 (34.93)	35 (16)	3-7 (0.02-0.05)
3/4 (19)	1.70 (43.2)	2.88 (73.2)	2.63 (66.8)	0.38 (9.6)	0.218 (5.5)	2.25 (57.2)	55 (25)	5-9 (0.03-0.064)
7/8 (22)	1.70 (43.2)	2.88 (73.2)	2.63 (66.8)	0.38 (9.6)	0.218 (5.5)	2.25 (57.2)	55 (25)	5-9 (0.03-0.064)
15/16 (24)	1.70 (43.2)	2.88 (73.2)	2.63 (66.8)	0.38 (9.6)	0.218 (5.5)	2.25 (57.2)	55 (25)	5-9 (0.03-0.064)

2). KTZ-F: KTZ nut with thread mount



Screw Ø	Nut Ø	Nut Length	Flange Ø	Flange Thickness	Thread	Mounting Thread Length	Dynamic Load	Drag Torque
A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	M in.	N in. (mm)	lbs. (kg)	oz.-in. (Nm)
1/4 (6)	0.53 (13.5)	1.3 (33)	0.80 (20.3)	0.12 (3.1)	5/8-18	0.16 (4.1)	5 (2.3)	.5-2 (0.004-0.014)
5/16 (8)	0.74 (18.8)	2.2 (56)	1.00 (25.4)	0.15 (3.8)	5/8-18	0.38 (9.7)	10 (5)	1-3 (0.007-0.02)
3/8 (10)	0.74 (18.8)	2.2 (56)	1.00 (25.4)	0.15 (3.8)	5/8-18	0.38 (9.7)	10 (5)	1-3 (0.007-0.02)
7/16 (11)	0.80 (20.3)	2.3 (59)	1.00 (25.4)	0.10 (2.5)	15/16-16	0.38 (9.7)	15 (7)	2-5 (0.014-0.03)
1/2 (13)	0.89 (22.6)	2.3 (59)	1.04 (26.4)	0.10 (2.5)	15/16-16	0.38 (9.7)	25 (11)	2-5 (0.014-0.03)
5/8 (16)	1.06 (26.9)	2.3 (58.9)	1.06 (26.9)	0.14 (3.6)	15/16-16	0.50 (12.7)	35 (16)	3-7 (0.02-0.05)

General Purpose Lead Screw Nut

General Purpose Nut is fit for lead screws of trapezoidal thread, STT thread, acme thread and other standard or nonstandard thread, which don't require anti-backlash and wear compensation. It offers axial clearance from 0.075mm to 0.18mm.

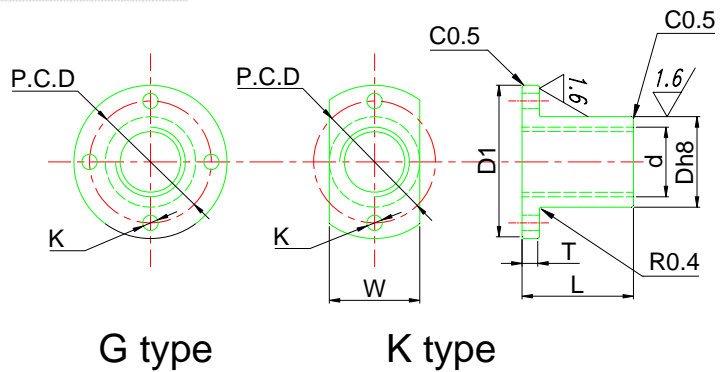
Properties:

1. Standards: ISO2901-4, DIN103, GB/5796; Clearance: 7H. Higher tolerances can be acquired upon request.
2. The popular material can be bronze, brass, casting iron, alloy steel, POM (Derlin, Acetal), PA6 (PA66, Nylon) and other polymer plastic materials.
3. High quality materials, strict quality control and precision machining ensure the best performance.
4. Working temperature: 15°C to 350°C for metal nut, and 15°C to 175°C for plastic nut.

Suggestions: the lead screw assembly should be replaced by new set once the axial clearance is 1/4 or more of the pitch.

Note: all dimensions, unless marked, in mm.

Round Nut with Flange in Compact Size-RNC

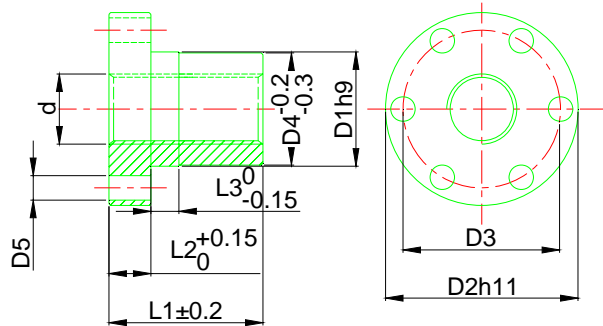


Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	D	L	D1	T	P.C.D	W	Dynamic Load (KN)
RNC□-10x□	10	2 (3, 4, 5, 6, 8, 9)	16	19	32	4	24	3.3	2.02
RNC□-12x□	12		18	24	36	5	27	4.3	3.14
RNC□-14x□	14	3 (2, 4, 6, 8, 9)	20	24	38	5	29	4.3	3.92
RNC□-16x□	16		22	28	40	5	31	4.3	5.34
RNC□-20x□	20	4 (2, 3, 5, 6)	26	32	44	5	35	4.3	7.85
RNC□-22x□	22	5 (2, 3, 4, 6)	28	40	50	6	39	5.4	9.89
RNC□-25x□	25		31	40	53	6	42	5.4	11.38
RNC□-28x□	28		34	43	58	7	46	6.6	14.42
RNC□-32x□	32	6 (3, 4, 5, 7, 8)	38	43	62	7	50	6.6	16.94

Other sizes, dimensions and shapes are available upon request.

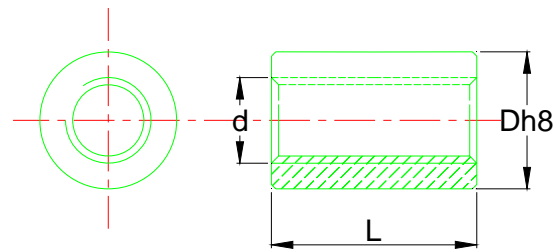
Round Nut with Round Flange-RNRF



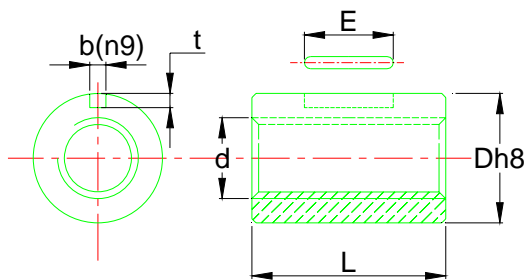
Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc..

Code	d	Pitch	D1	D2	D3	D4	Mounting holes		L1	L1	L2
			h9			-0.2/-0.3	D5	Thread			
RNRF/S: with single-start thread											
RNRF/S-10x2	10	2	25	42	34	25	5	M4	25	10	6
RNRF/S-10x3	10	3	25	42	34	25	5	M4	25	10	6
RNRF/S-12x3	12	3	28	48	38	28	6	M5	35	12	8
RNRF/S-14x3	14	3	28	48	38	28	6	M5	35	12	8
RNRF/S-16x4	16	4	28	48	38	28	6	M5	35	12	8
RNRF/S-18x4	18	4	28	48	38	28	6	M5	35	12	8
RNRF/S-20x4	20	4	32	55	45	32	7	M6	44	12	8
RNRF/S-22x5	22	5	32	55	45	32	7	M6	44	12	8
RNRF/S-24x5	24	5	32	55	45	32	7	M6	44	12	8
RNRF/S-26x5	26	5	38	62	50	38	7	M6	46	14	8
RNRF/S-28x5	28	5	38	62	50	38	7	M6	46	14	8
RNRF/S-30x6	30	6	38	62	50	38	7	M6	46	14	8
RNRF/S-32x6	32	6	45	70	58	45	7	M6	54	16	10
RNRF/S-36x6	36	6	45	70	58	45	7	M6	54	16	10
RNRF/S-40x7	40	7	63	95	78	63	9	M8	66	16	12
RNRF/S-44x7	44	7	63	95	78	63	9	M8	66	16	12
RNRF/S-48x8	48	8	72	110	90	72	11	M10	75	18	14
RNRF/S-50x8	50	8	72	110	90	72	11	M10	75	18	14
RNRF/S-60x9	60	9	88	130	110	88	13	M12	90	20	16
RNRF/S-70x10	70	10	95	140	120	95	13	M12	105	22	17
RNRF/D: with double-start thread.											
RNRF/D-12x6	12	3	28	48	38	28	6	M5	35	12	8
RNRF/D-14x6	14	3	28	48	38	28	6	M5	35	12	8
RNRF/D-16x6	16	3	28	48	38	28	6	M5	35	12	8
RNRF/D-18x8	18	4	28	48	38	28	6	M5	35	12	8
RNRF/D-20x8	20	4	32	55	45	32	7	M6	44	12	8
RNRF/D-22x10	22	5	32	55	45	32	7	M6	44	12	8
RNRF/D-24x10	24	5	32	55	45	32	7	M6	44	12	8
RNRF/D-28x10	28	5	38	62	50	38	7	M6	46	14	8
RNRF/D-30x12	30	6	38	62	50	38	7	M6	46	14	8
RNRF/D-32x12	32	6	45	70	58	45	7	M6	54	16	10
RNRF/D-40x14	36	6	45	70	58	45	9	M8	54	16	10
Code	d	Pitch	D1	D2	D3	D4	Mounting holes		L1	L2	L3
			h9			-0.2/-0.3	d1	Thread			

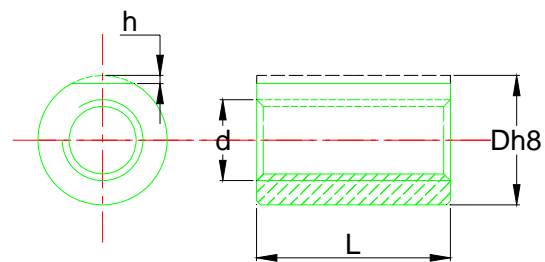
Round Nut without Round Flange-RN



O type



J type



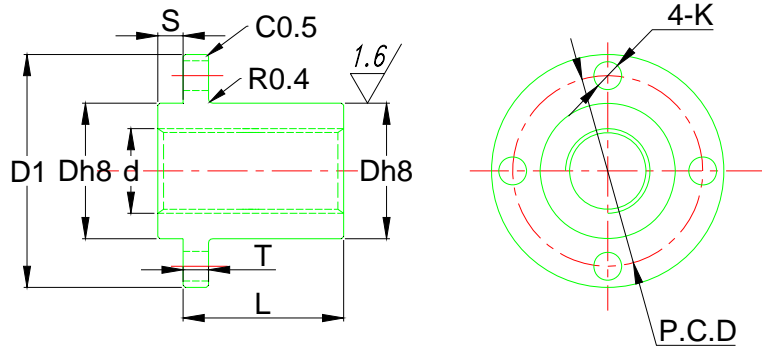
E type

Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

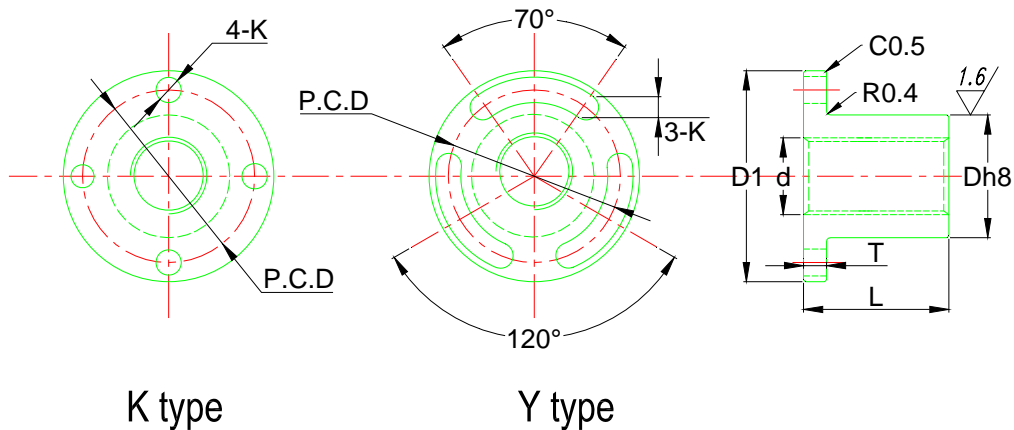
Code	d	pitch	D	L	b	t	E	h	Dynamic Load (KN)
RN□-8x1.5	8	1.5	15	20	3	1.8	14	/	1.47
RN□-10x2	10	2	20	20	4	2.5	14	/	2.06
RN□-12x2	12	2	22	22	4	3	16	/	2.84
RN□-14x3	14	3	22	22	4	5	29	1	3.63
RN□-16x3	16	3	28	26	5	3	18	1	4.90
RN□-18x4	18	4	32	31	6	3.5	22	/	6.86
RN□-20x4	20	4	32	31	6	3.5	22	2	7.65
RN□-22x4	22	5	36	40	6	3.5	26	2	9.90
RN□-25x5	25	5	36	40	6	3.5	26	2	11.38
RN□-28x5	22	5	44	45	8	4	32	2	14.42
RN□-32x6	32	6	44	45	8	4	32	2	17.06
RN□-36x5	22	6	52	49	12	5	40	-	21.18
RN□-40x5	22	7	58	57	15	5	42		27.46
RN□-50x5	22	8	68	67	15	5	52		40.11
Code	d	pitch	D	L	b	t	E	h	Dynamic Load (KN)

Other sizes, dimensions and shapes are available upon request.

Round Nut with Back Flange or Special Mounting Holes-RNRFX



A type



K type

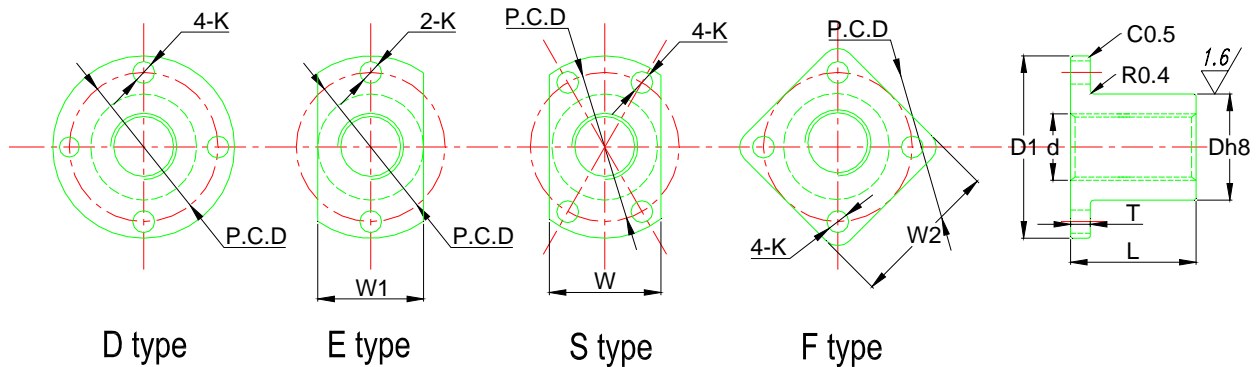
Y type

Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	D	L	D1		T	S	P.C.D		K		Dynamic Load(KN)
					A	K,Y			A	K,Y	A	K,Y	
RNRFX□-14x□	14	3 (2, 4, 6, 8, 9)	22	20	44	44	5	5	33	31	5.4	M4	4.90
RNRFX□-16x□	16		28	35	52	51	6	6	40	38	6.6	M5	6.67
RNRFX□-20x□	20	4(2, 3, 5, 6)	32	40	56	56	6	6	44	42	6.6	M5	9.81
RNRFX□-22x□	22	5(2, 3, 4, 6)	36	50	60	61	7	6	48	47	6.6	M5	12.36
RNRFX□-24x□	24		36	50	60	61	7	6	48	47	6.6	M5	14.22
RNRFX□-28x□	28		44	56	/	76	8	/	/	58	9.0	M6	17.95
RNRFX□-32x□	32	6(3, 4, 5, 7, 8)	44	56	/	76	8	/	/	58	9.0	M6	21.08

Other sizes, dimensions and shapes are available upon request.

Round Nut with Flange-RNWF

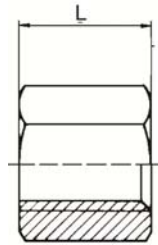


Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	D	L	D1	P.C.D	T	W	W1	W2	K	Dynamic Load(KN)
RNWF□-8x□	8	1.5 (1.2)	15	20	30	22	5	/	15	/	4.3	1.47
RNWF□-10x□	10	2 (3, 4, 5, 6, 8, 9)	20	24	36	26	5	22	20	/	4.3	2.55
RNWF□-12x□	12		22	30	44	31	5	24	22	/	5.4	3.92
RNWF□-14x□	14	3 (2, 4, 5, 6, 8, 9)	22	30	44	31	5	24	22	33	5.4	4.90
RNWF□-16x□	16		28	35	51	38	6	30	28	38	6.6	6.67
RNWF□-18x□	18	4 (2, 3, 5, 6)	32	40	56	42	6	34	32	/	6.6	8.72
RNWF□-20x□	20		32	40	56	42	6	34	32	42	6.6	9.81
RNWF□-22x□	22	5 (2, 3, 4, 6)	36	50	61	47	7	40	36	47	6.6	12.36
RNWF□-25x□	25		36	50	61	47	7	40	36	47	6.6	14.22
RNWF□-28x□	28		44	56	76	58	8	48	44	58	9.0	17.95
RNWF□-32x□	32	6 (3, 4, 5, 7, 8)	44	56	76	58	8	48	44	58	9.0	21.08
RNWF□-36x□	36		52	60	84	66	8	56	52	/	9.0	25.78
RNWF□-40x□	40		58	70	98	76	10	62	58	/	11	33.83
RNWF□-50x□	50	8 (4, 5, 6, 7, 10)	68	80	109	85	10	72	68	/	11	40.31

Other sizes, dimensions and shapes are available upon request.

Hex Nut-HXN

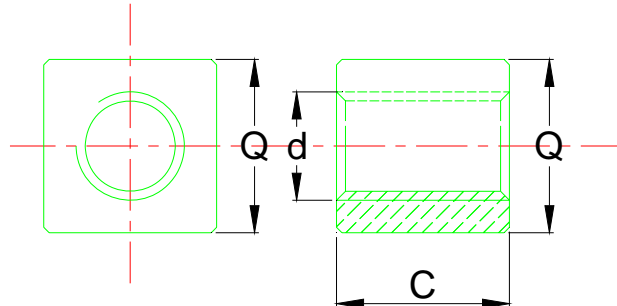


Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	Pitch	SW	L	Weight (kg)	Code	d	Pitch	SW	L	Weight (kg)
HXN/S: with single-thread.						HXN/D: with double-thread.					
HXN/S-Tr10x2	10	2	17	15	0.022	HXN/DTr12x6	12	3	19	18	0.033
HXN/S-Tr10x3	10	3	17	15	0.022	HXN/D-Tr14 x6	14	3	22	21	0.056
HXN/S-Tr12x3	12	3	19	18	0.033	HXN/D-Tr16x8	16	4	24	24	0.065
HXN/S-Tr14x3	14	3	22	21	0.056	HXN/D-Tr18x8	18	4	27	27	0.095
HXN/S-Tr16x4	16	4	24	24	0.065	HXN/D-Tr20x8	20	4	30	30	0.123
HXN/S-Tr18x4	18	4	27	27	0.095	HXN/D-Tr22x10	22	5	30	33	0.135
HXN/S-Tr20x4	20	4	30	30	0.123	HXN/D-Tr24x10	24	5	36	36	0.213
HXN/S-Tr22x5	22	5	30	33	0.135	HXN/D-Tr28x10	28	5	41	42	0.310
HXN/S-Tr24x5	24	5	36	36	0.213	HXN/D-Tr30x12	30	6	46	45	0.447
HXN/S-Tr26x5	26	5	36	39	0.225	HXN/D-Tr32x12	32	6	50	48	0.455
HXN/S-Tr28x5	28	5	41	42	0.310	HXN/D-Tr36x12	36	6	55	54	0.752
HXN/S-Tr30x6	30	6	46	45	0.447	HXN/D-Tr40x14	40	7	60	60	1.250
HXN/S-Tr32x6	32	6	50	48	0.455	HXN/D-Tr24x10	24	5	36	36	0.213
HXN/S-Tr36x6	36	6	55	54	0.752	HXN/D-Tr28x10	28	5	41	42	0.310
HXN/S-Tr40x7	40	7	60	60	1.250	HXN/D-Tr30x12	30	6	46	45	0.447
HXN/S-Tr44x7	44	7	65	66	1.320	HXN/D-Tr32x12	32	6	50	48	0.455
HXN/S-Tr50x8	50	8	75	75	1.895	HXN/D-Tr36x12	36	6	55	54	0.752
HXN/S-Tr60x9	60	9	90	90	3.30	HXN/D-Tr40x14	40	7	60	60	1.250
HXN/S-Tr70x10	70	10	100	100	4.20						

Other sizes, dimensions and shapes are available upon request.

Square Nut-SQN

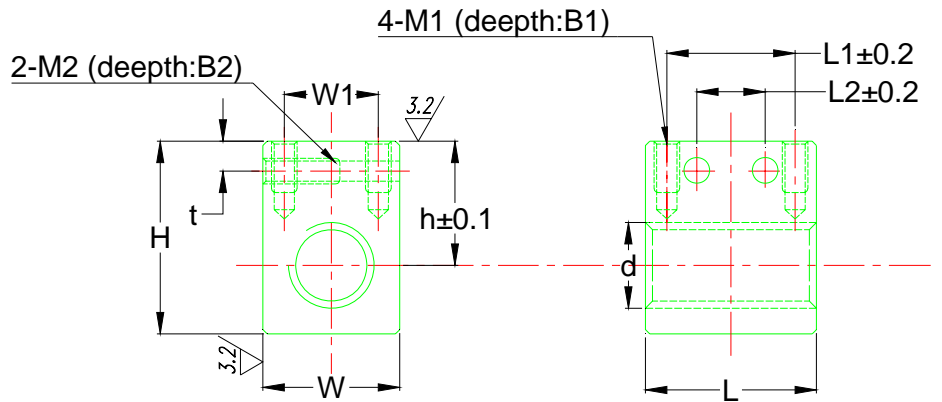


Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	Pitch	Q	C	Weight (kg)	Code	d	Pitch	Q	C	Weight (kg)
SQNA/S: with single-thread.						SQNA/D: with double-thread.					
SQN/S-10x2	10	2	17	15	0.027	SQN/D-14x6	14	3	25	20	0.079
SQN/S-12x3	12	3	25	18	0.076	SQN/D-16x8	16	4	28	24	0.119
SQN/S-14x3	14	3	25	20	0.079	SQN/D-18x8	18	4	30	28	0.154
SQN/S-16x4	16	4	28	24	0.119	SQN/D-20x8	20	4	35	30	0.259
SQN/S-18x4	18	4	30	28	0.154	SQN/D-22x10	22	5	35	33	0.290
SQN/S-20x4	20	4	35	30	0.259	SQN/D-24x10	24	5	40	36	0.354
SQN/S-22x5	22	5	35	33	0.290	SQN/D-28x10	28	5	45	42	0.506
SQN/S-24x5	24	5	40	36	0.354	SQN/D-30x12	30	6	45	45	0.513
SQN/S-26x5	26	5	40	39	0.363	SQN/D-32x12	32	6	55	48	0.891
SQN/S-28x5	28	5	45	42	0.506	SQN/D-36x12	36	6	55	54	0.752
SQN/S-30x6	30	6	45	45	0.513	SQN/D-40x14	40	7	60	60	1.216
SQN/S-32x6	32	6	55	48	0.891						
SQN/S-36x6	36	6	55	54	0.752						
SQN/S-40x7	40	7	60	60	1.216						
SQN/S-44x7	44	7	65	66	1.538						
Code	d	Pitch	Q	C	Weight (kg)	Code	d	Pitch	Q	C	Weight (kg)

Other sizes, dimensions and shapes are available upon request.

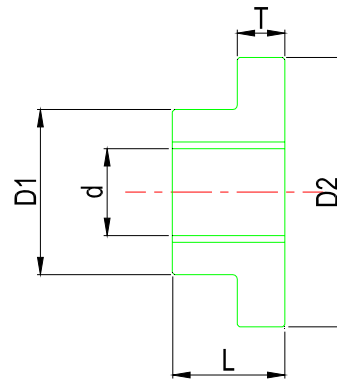
Square Nut with Threaded Holes-SQTH



Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	W	L	H	h	L1	L2	B1	B2	W1	M1	M2	t	Dynamic Load (KN)
SQTH-10x□	10	2 (3, 4, 5, 6, 8, 9)	20	24	30	20	16	/	8	/	12	M4	/	6	2.55
SQTH-12x□	12		22	30	34	23	21	9	10	15	13	M5	M5	6	3.92
SQTH-14x□	14	3 (2,4, 6, 8, 9)	22	30	34	23	21	9	10	15	13	M5	M5	6	4.90
SQTH-16x□	16		28	35	41	27	25	11	12	18	18	M6	M6	7	6.67
SQTH-18x□	18	4 (2, 3, 5, 6)	32	40	45	29	30	16	12	18	22	M6	M6	7	8.72
SQTH-20x□	20		32	40	45	29	30	16	12	18	22	M6	M6	7	9.81
SQTH-22x□	22		36	50	48	30	40	20	12	18	26	M6	M6	7	12.36
SQTH-25x□	25	5 (2, 3, 4, 6)	36	50	48	30	40	20	12	18	26	M6	M6	7	14.22
SQTH-28x□	28		44	62	60	38	50	25	16	22	32	M8	M8	8	20.05
SQTH-32x□	32	6 (3, 4, 5, 7, 8)	44	62	60	38	50	25	16	22	32	M8	M8	8	22.81
Code	d	pitch	W	L	H	h	L1	L2	B1	B2	W1	M1	M2	t	Dynamic Load (KN)
Other sizes, dimensions and shapes are available upon request.															

Round Nut in small length-RNSL

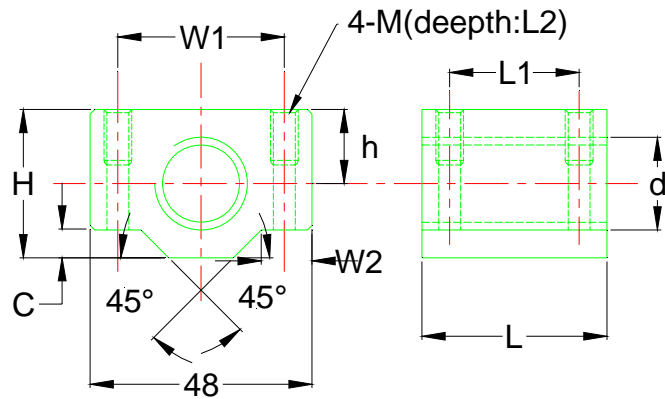


Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	D1	D2	L1	L2	Weight (kg)	
							Bronze	Steel
RNSL-10x3	10	3	20	35	15	6	0.165	0.160
RNSL-12x3	12	3	24	42	20	7	0.291	0.280
RNSL-14x4	14	4	30	52	24	10	0.437	0.420
RNSL-16x4	16	4	30	52	24	10	0.437	0.420
RNSL-20x4	20	4	38	62	26	11	0.540	0.520
RNSL-24x5	24	5	50	77	33	13	1.245	1.200
RNSL-30x6	30	6	58	90	48	15	1.790	1.750
RNSL-36x6	36	6	80	115	60	20	3.400	3.310
RNSL-40x7	40	7	80	140	65	20	4.340	4.230
RNSL-50x8	50	8	90	170	70	20	5.690	5.500
Code	d	pitch	D1	D2	L1	L2	Weight (kg)	
							Bronze	Steel

Other sizes, dimensions and shapes are available upon request.

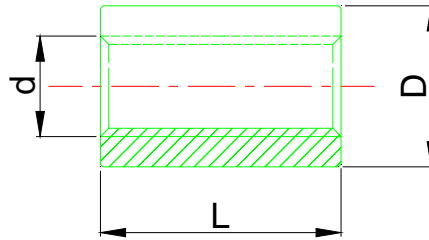
Widened Square Nut-WSQN



Stock Material: Bronze, Casting Iron; **Other materials upon request:** Brass, Steel etc.

Code	d	pitch	W	H	L	H	W1	W2	C	M	L2	Dynamic Load(KN)
WSQN -10x□	10	2 (3, 4, 5, 6, 8, 9)	30	20	24	10	20	8	4	M4	8	2.55
WSQN -12x□	12		38	22	30	11	26	10	5	M5	10	3.92
WSQN -14x□	14	3 (2, 4, 5, 6, 8, 9)	38	2	30	11	26	10	5	M5	10	4.90
WSQN -16x□	16		44	28	35	14	32	10	5	M5	10	6.67
WSQN -18x□	18	4 (2, 3, 5, 6)	48	32	40	16	36	11	6	M6	12	8.72
WSQN -20x□	20		48	32	40	16	36	11	6	M6	12	9.81
WSQN -22x□	22	5 (2, 3, 4, 6)	62	38	50	20	46	14	10	M8	16	12.36
WSQN -25x□	25		62	38	50	20	46	14	10	M8	16	14.22
WSQN -28x□	28		68	47	56	25	52	14	10	M8	16	17.95
WSQN -32x□	32	6 (3, 4, 5, 7, 8)	68	47	56	25	52	14	10	M8	16	21.08
Code	d	pitch	W	H	L	H	W1	W2	C	M	L2	Dynamic Load(KN)
Other sizes, dimensions and shapes are available upon request.												

Plastic Round Nut -PRN



Stock Material: POM, PA6, other plastic materials upon request.

Code	d	pitch	D	L	Code	d	pitch	D	L
PRN/S: with single-start thread.					PRN/D: with double-start thread.				
PRN/S-12x3	12	3	26	24	PRN/D-12x6	12	3	26	24
PRN/S-16x4	16	4	36	32	PRN/D-12x8	12	4	26	24
PRN/S-20x4	20	4	45	40	PRN/D-16x8	16	4	36	32
PRN/S-24x5	24	5	50	48	PRN/D-20x8	20	4	45	45
PRN/S-0x6	30	6	60	60	PRN/D-24x10	30	6	50	48
PRN/S-36x6	36	6	75	72	PRN/D-30x12	30	6	60	60
PRN/S-40x7	40	7	80	80	PRN/D-36x12	36	6	75	72
PRN/S-50x8	50	8	90	100	PRN/D-40x14	40	7	80	80

Other sizes, dimensions and shapes are available upon request.

Other Shapes and materials:



Plastic Nut

