YOSO
LINEAR MOTION

BALL SPLINE

About Us

Jingpeng Machinery Equipment (Shanghai) Co., Ltd. was established in 2015. Its main products include ball screws, linear guides, cross guides, precision ball screws/splines, single-axis actuators, medium and large bearings, racks, couplings, support units, servo motors and drivers, etc. In cooperation with the German YOSO company, Jingpeng has independent import and export rights. Jingpeng has completed trademark registration and continues to promote its use. Now YOSO is one of the world's well-known brands. The company's products are sold all over the world and exported to the United States, Spain, Turkey, Italy, Austria, Brazil and other countries. Jingpeng Machinery learns German production technology, combines European and Japanese design concepts, and has specially established an independent R&D center, introducing advanced manufacturing equipment and high-precision testing equipment at home and abroad, and has completed an annual output value of 1.5 million sets of screw guides.

The product application areas are as follows: Automation industry Robotics industry Semiconductor industry Industrial machinery Medical equipment Green energy industry Machine tools Automatic storage system products have outstanding performance in various industrial fields. Jingpeng Machinery integrates global resources, continues to innovate, and works tirelessly for the better welfare of mankind and a better working environment. In the field of transmission components, Jingpeng Machinery has become the best partner with high-quality professional manufacturing and solutions, and provides technical support and industry analysis to meet customer needs. At the same time, we have a solid business team to ensure the stability of the foreign trade sales system and strong market development capabilities, so that our products can be exported to all parts of the world at the fastest speed. Jingpeng Machinery is a global professional manufacturer of transmission control products and system technology products.

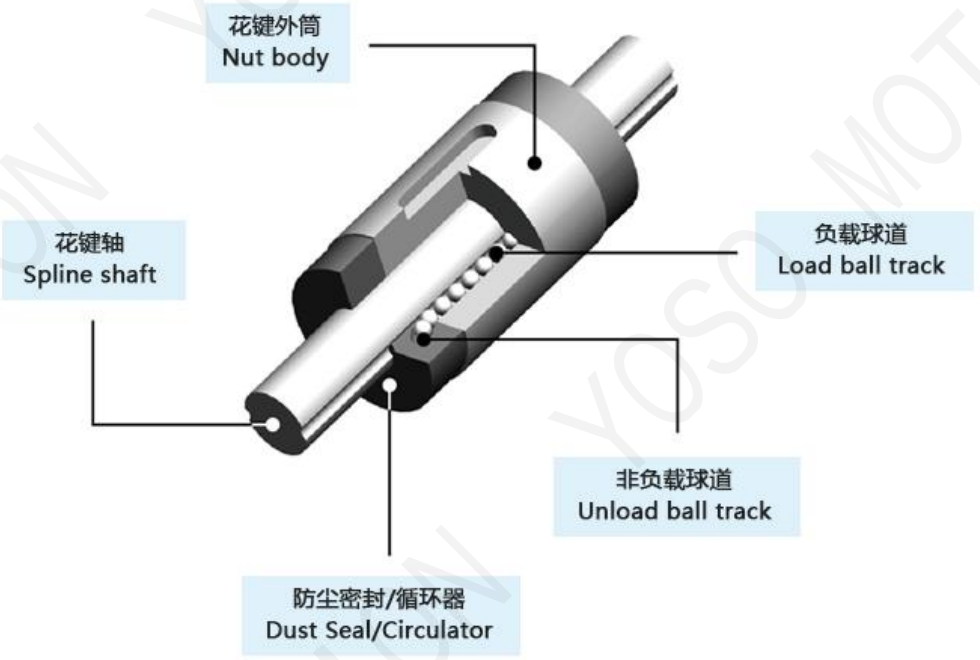
Content

1-1 Structure and Benefits of YOSO Ball Spline

The design of YOSO Ball spline is to utilize the friction through the contact of steel balls within in the Spline Nut and the grooves on the Spline Shaft. With YOSO MOTION's unique 40 ° angular contact design which enables the Ball spline delivers high sensitivity and extreme high load carrying capacity. The concept is optimal for the application involve with high speed, vibration, impacts of loading and precise positioning requirements. Also when the Ball spline is used to function as linear bushing, the Ball spline provides ten times loading capacity than the linear bush on the like model but with a compact profile. Namely, Durability and reliablility is the reason to choose YOSO Ball spline in your application.

1-2 YOSO MOTION Nut Design and Shaft Specifications

YOSO MOTION Spline Nut is available in four different designs : SLT (Non-flange design), SLF (Flange design), SOT (Round design), SOF (Cylindrical flange design), Point of contacts on the Spline shaft is provided in two grooves (180°) (SLF/SLT 6~20), (SOT/ SOF 8~25) and four grooves (70°) base on the diameter of the Spline shaft. Also YOSO provides Hollow Spline shaft for alternative.



1-3 Features of YOSO MOTION Ball Spline

● High Load-Carrying Capacity

Every groove on the YOSO Spline shaft is precision ground to form a perfect 40° angular contact point. The concept of 40° contact design is to increases the load carrying capacity and rigidity to handle a greater moment load.

● Zero Angular Clearance / Backlash

Grooves on the YOSO Spline shaft is precision ground to form a perfect Gothic arch. The design eliminates clearance that could generate deflections, and therefore best suited for the applications that required high precision.

● High Sensitivity

The unique YOSO 40° angular contact is designed to operate with the minimum friction while the design performs high sensitivity and rigidity.

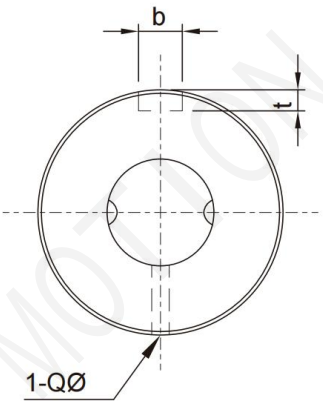
● High Rigidity

A wide contact angle and an appropriate level of preload are combined to provide high rigidity and stiffness.

● Mount-Simple on Design

YOSO Ball Spline is low maintenance design, therefore, when removing the spline nut is necessary due to the ball retaining design the steel balls will not fall apart like the traditional nut design.

SLT Series Specifications and Dimensions



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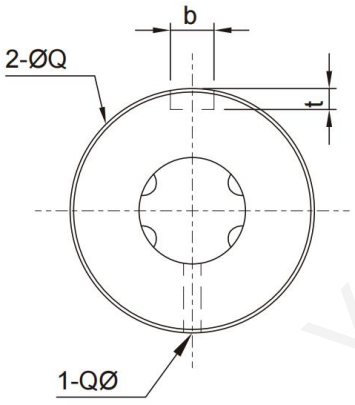
Shaft diameter d≤20



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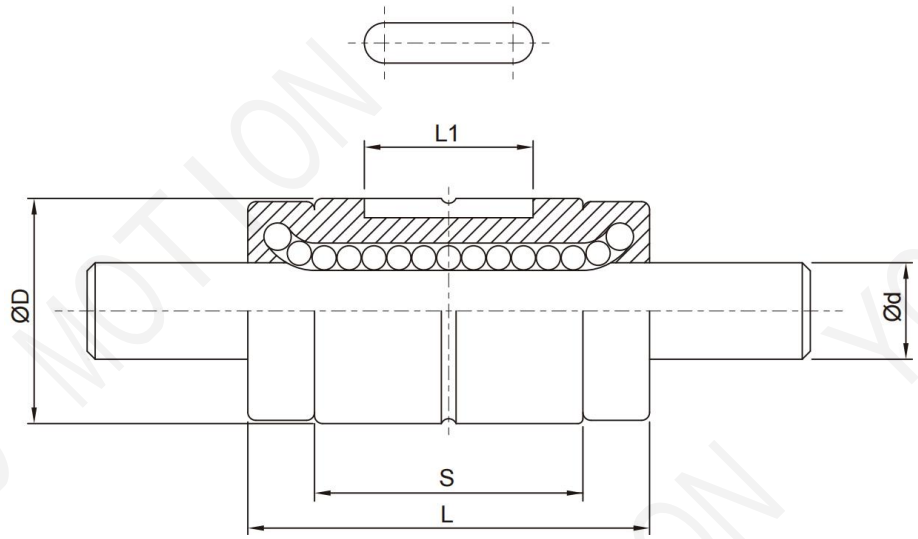
Shaft diameter d≥25

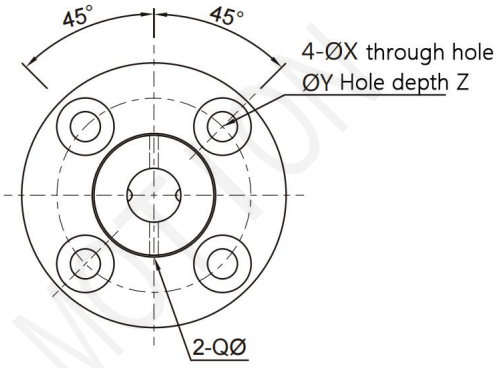
Model No.	Diameter	Row	Spline Nut Dimension					Keyway Dimensions	
	d		D	L	S	L1	Oil Hole	b	t
	h7						Q	H8	0.05 0
SLT006	6	2	14	25	16.7	10.5	1	2.5	1.2
SLT008	8	2	16	27	15.7	10.5	1.5	2.5	1.2
SLT010	10	2	21	33	20	13	1.5	3	1.5
SLT013	13	2	24	36	23	15	1.5	3	1.5
SLT016	16	2	31	50	34	17.5	2	3.5	2
SLT020	20	2	35	56	39.7	29	2	4	2.5
SLT025	25	4	42	71	50.3	36	3	4	2.5
SLT030	30	4	47	80	60	42	3	4	2.5
SLT040	40	4	64	100	70	52	4	6	3.5
SLT050	50	4	80	125	91	58	4	8	4

SLT Series Specifications and Dimensions

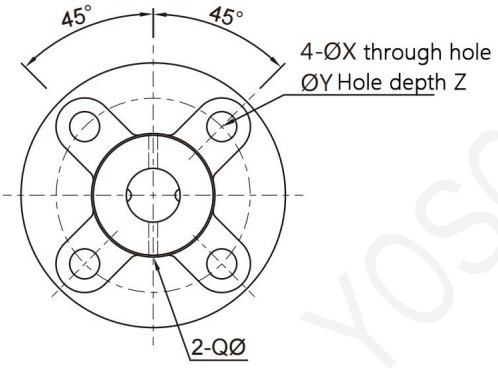


ModelNo.	BasicLoadRating		BasicTorsion		StaticPermissible Moment		Weight	
	C	C0	CT	C0T	MA1	MA2	SplineNut	SplineShaft
	kgf	kgf	kgf . m	kgf . m	kgf . m	kgf . m	g	kg/m
SLT006	137	225	0.46	0.76	0.39	3.48	14	0.22
SLT008	137	225	0.6	0.99	0.39	3.82	16	0.39
SLT010	285	397	1.62	2.25	0.95	8.53	37	0.6
SLT013	396	540	2.89	3.94	1.5	12.46	52	1.03
SLT016	545	849	4.77	7.43	3.71	26.09	130	1.56
SLT020	724	1109	7.9	12.09	5.53	38	188	2.44
SLT025	1003	1593	21.99	43.01	10.35	68.59	285	3.8
SLT030	1160	1960	30.26	62.93	15.68	93.27	395	5.49
SLT040	2972	4033	105.37	176.05	36.59	264.34	843	9.69
SLT050	4086	5615	179.89	304.35	51.58	428.72	1758	15.19

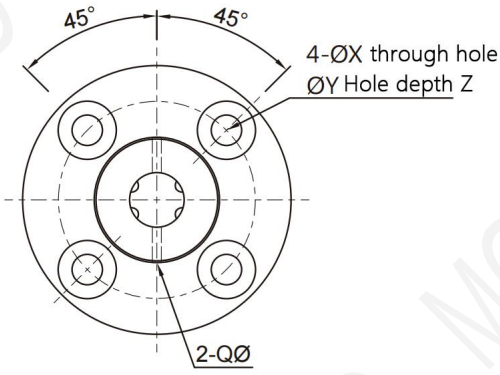
SLF Series Specifications and Dimensions



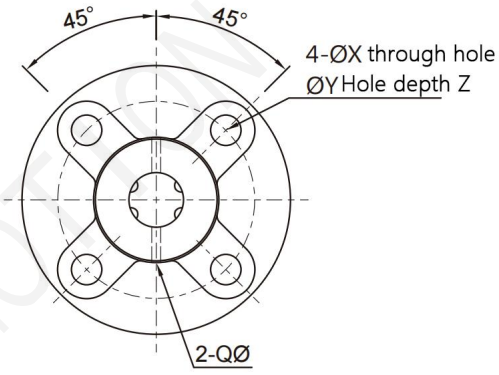
【Two Starts】Type： 06、10、13



【Two Starts】Type： 08、16、20



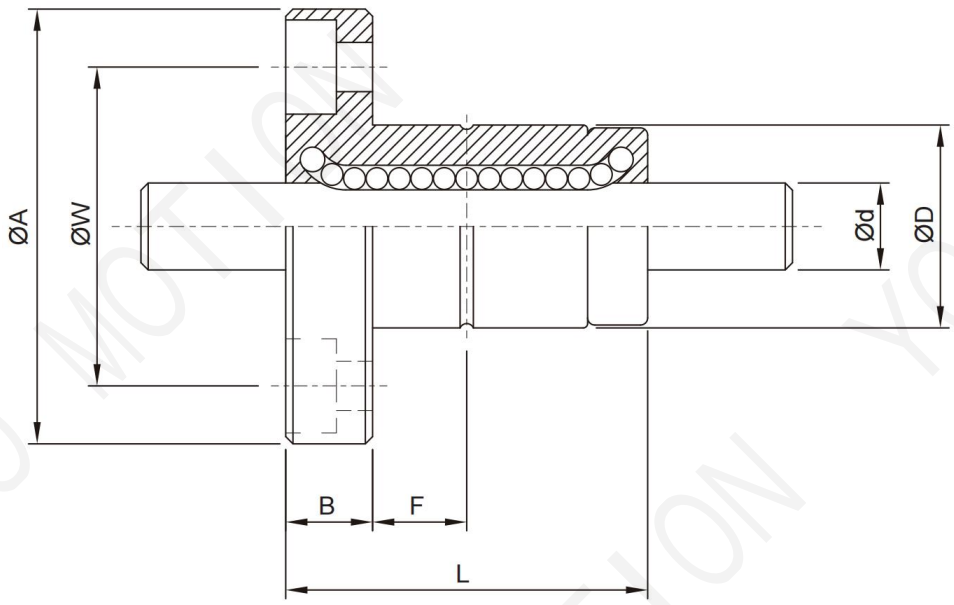
【Two Starts】Type： 40、50



【Two Starts】Type： 25、30

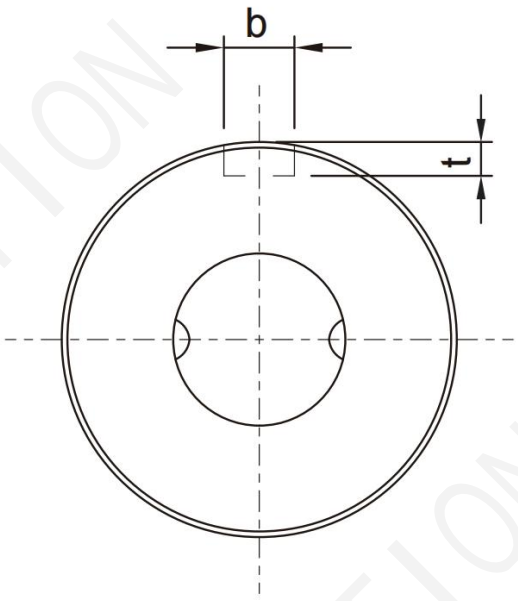
ModelNo.	Diameter d h7	Row	SplineNutDimension									
			D	L	A	B	F	Oilhole Q	W	MountingHole X	MountingHole Y	MountingHole Z
SLF006	6	2	14	25	30	6	7.5	1	22	3.4	6.5	3.5
SLF008	8	2	16	27	32	8	7.5	1.5	24	3.4	6.5	4.5
SLF010	10	2	21	33	42	9	10.5	1.5	32	4.5	8	4
SLF013	13	2	24	36	44	9	11	1.5	33	4.5	8	4.5
SLF016	16	2	31	50	51	10	18	2	40	4.5	8	6
SLF020	20	2	35	56	58	10	18	2	45	5.5	9.5	5.4
SLF025	25	4	42	71	65	13	26.5	3	52	5.5	9.5	8
SLF030	30	4	47	80	75	13	30	3	60	6.6	11	8
SLF040	40	4	64	100	100	18	36	4	82	9	14	12
SLF050	50	4	80	125	124	20	46.5	4	102	11	17.5	12

SLF Series Specifications and Dimensions



Model No.	Basic Load Rating		Basic Torsion		Static Permissible Moment		Weight	
	C	C0	CT	C0T	MA1	MA2	Spline Nut	Spline Shaft
	kgf	kgf	kgf . m	kgf . m	kgf . m	kgf . m	g	kg/m
SLF006	137	225	0.46	0.76	0.39	3.48	36.7	0.22
SLF008	137	225	0.6	0.99	0.39	3.82	47	0.39
SLF010	285	397	1.62	2.25	0.95	8.53	100	0.6
SLF013	396	540	2.89	3.94	1.5	12.46	117	1.03
SLF016	545	849	4.77	7.43	3.71	26.09	226	1.56
SLF020	724	1109	7.9	12.09	5.53	38	303	2.44
SLF025	1003	1593	21.99	43.01	10.35	68.59	458	3.8
SLF030	1160	1980	30.26	62.93	15.68	93.27	633	5.49
SLF040	2972	4033	105.37	176.05	36.59	246.34	1430	9.69
SLF050	4086	5615	179.89	304.35	51.58	428.72	2756	15.19

SOT Series Specifications and Dimensions



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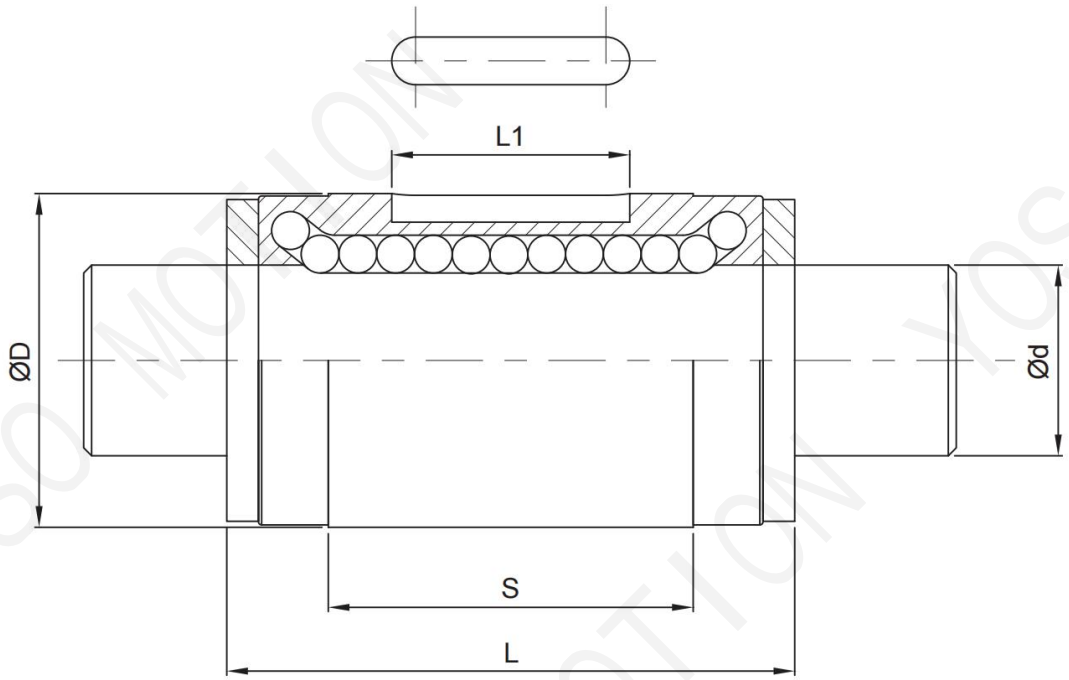
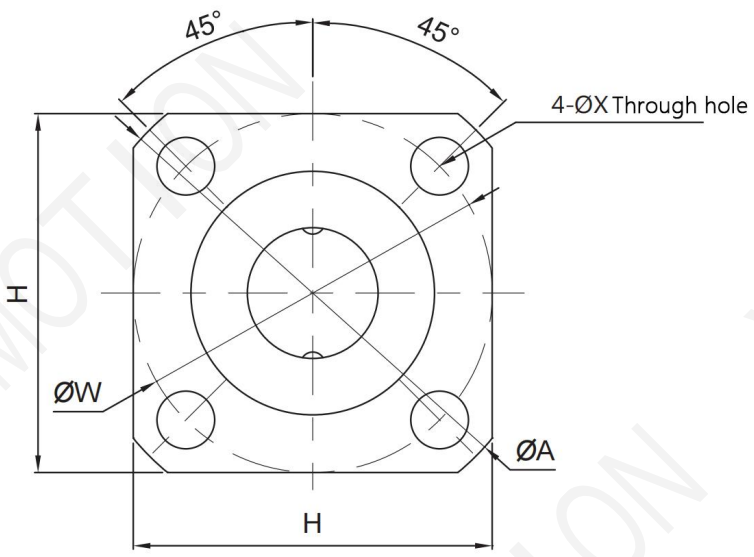
Model No.	Diameter	Row	Spline Nut Dimension				Keyway Dimensions	
	d		D	L	S	L1	b	t
	h7						H8	0.05 0
SOT008	8	2	15	25	14.6	8.5	2.5	1.5
SOT010	10	2	19	30	18.2	11	3	1.8
SOT012	12	2	21	35	23	15	3	1.8
SOT015	13.6	2	23	40	27	20	3.5	2
SOT020	18.2	2	30	50	33	26	4	2.5
SOT025	22.6	2	37	60	39.2	29	5	3

SOT Series Specifications and Dimensions



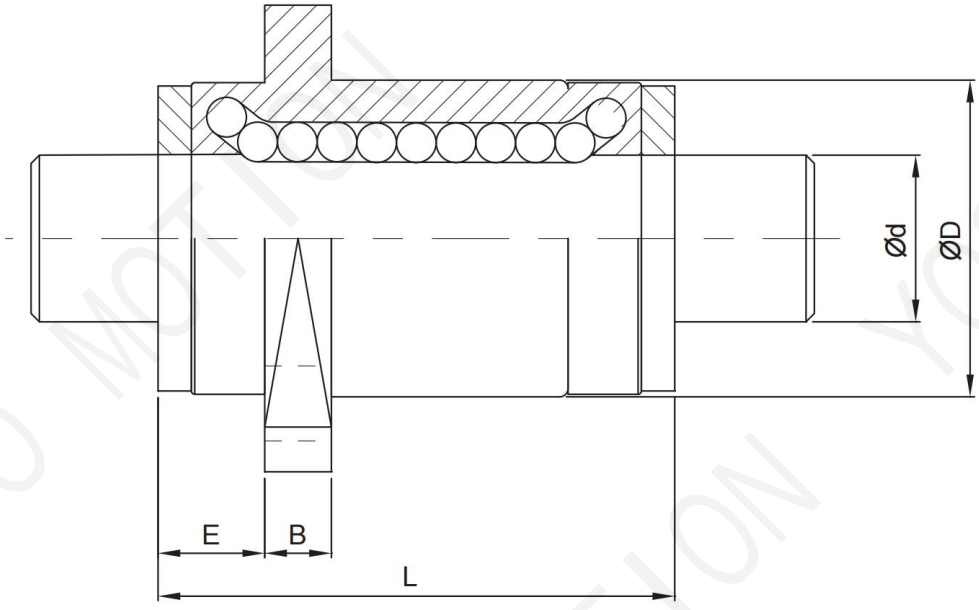
Model No.	Basic Load Rating		Basic Torsion		Static Permissible Moment		Weight	
	C	C0	CT	C0T	MA1	MA2	Spline Nut	Spline Shaft
	kgf	kgf	kgf . m	kgf . m	kgf . m	kgf . m	g	kg/m
SOT008	121	136	0.56	0.63	0.34	2.24	15.9	0.39
SOT010	192	219	1.11	1.27	0.71	4.23	31.5	0.61
SOT012	222	274	1.51	1.87	1.08	6.02	44	0.88
SOT015	426	619	3.19	4.65	2.83	15.49	59.5	1.11
SOT020	673	922	6.73	9.22	4.95	29.36	130	2.02
SOT025	1142	1458	14.17	18.14	9.46	56.17	220	3.1

SOF Series Specifications and Dimensions



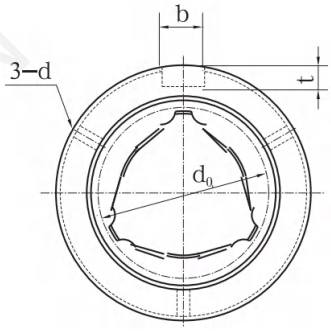
Model No.	Diameter	Row	Spline Nut Dimension							
	d		D	L	A	B	E	H	W	Mounting Hole
	h7									X
SOF008	8	2	15	25	28	3.8	5.2	22	22	3.4
SOF010	10	2	19	30	36	4.1	5.9	28	28	4.5
SOF012	12	2	21	35	38	4	6	30	30	4.5
SOF015	13.6	2	23	40	40	4.5	6.5	31	32	4.5
SOF020	18.2	2	30	50	46	5.5	8.5	35	38	4.5
SOF025	22.6	2	37	60	57	6.6	10.4	43	47	5.5

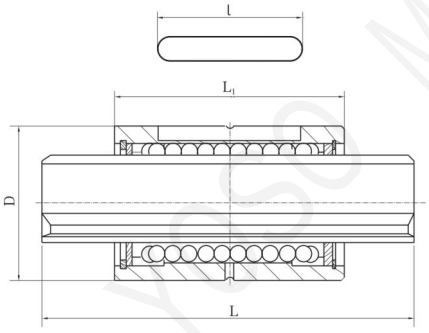
SOF Series Specifications and Dimensions



Model No.	Basic Load Rating		Basic Torsion		Static Permissible Moment		Weight	
	C	C0	CT	C0T	MA1	MA2	Spline Nut	Spline Shaft
	kgf	kgf	kgf . m	kgf . m	kgf . m	kgf . m	g	kg/m
SOF008	121	136	0.56	0.63	0.34	2.24	23.5	0.39
SOF010	192	219	1.11	1.27	0.71	4.23	45	0.61
SOF012	222	274	1.51	1.87	1.08	6.02	59	0.88
SOF015	426	619	3.19	4.65	2.83	15.49	77	1.11
SOF020	673	922	6.73	9.22	4.95	29.36	150	2.02
SOF025	1142	1458	14.17	18.14	9.46	56.17	255	3.1

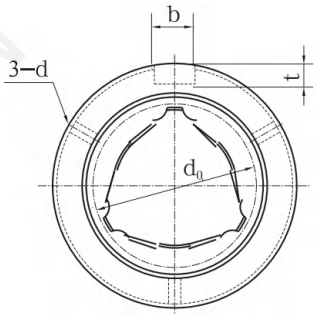
LBS Series Specifications and Dimensions

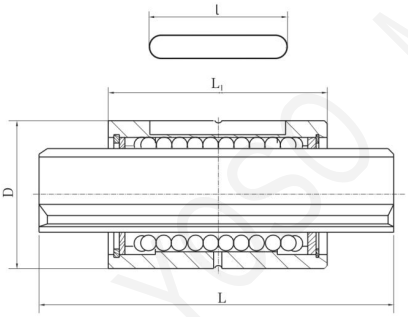




Model No.	Nominal shaft diameter	External diameter		Sleeve length		Maximum shaft length	Keyway width	Keyway depth		Keyway length	Oil hole	Basic rated torque		Basic load rating (radial)	
	d0	D		L1		L	b	t		l	d	Dynamic torque CT	Static torque C0T	Rated dynamic load	Rated static load
												N-m	N-m	C(kN)	C0(kN)
LBS15	15	23	0 -0.013	40	0 -0.3	400	3.5H8	2	0 -0.3	20	2	27.8	65.2	3.9	8.1
LBS20	20	30	0 -0.013	50	0 -0.3	600	4H8	2.5	+0.1 0	26	3	62.3	135.2	6.6	12.7
LBS25	25	38	0 -0.016	60	0 -0.3	800	5H8	3	+0.2 0	36	3	127.3	268.3	10.9	20.2
LBS30	30	45	0 -0.016	70	0 -0.3	1400	6H8	3	+0.2 0	40	3	155.7	318.7	11.1	20
LBS32	32	48	0 -0.016	70	0 -0.3	1400	8H8	4	+0.2 0	40	3	236.4	459.9	15.8	27.1
LBS40	40	60	0 -0.019	90	0 -0.3	1500	10H8	5	+0.2 0	56	4	548	1081.9	29.3	50.9
LBS50	50	75	0 -0.019	100	0 -0.3	1500	14H8	5.5	+0.2 0	60	4	880.6	1711.6	37.7	64.5
LBS70	70	100	0 -0.022	110	0 -0.3	1700	18H8	6	+0.1 0	68	2	2488	4141.1	76.1	111.5
LBS85	85	120	0 -0.022	140	0 -0.3	1900	20H8	7	+0.1 0	80	3	3978	6927.4	100.2	153.6
LBS100	100	140	0 -0.025	160	0 -0.4	1900	28H8	9	+0.1 0	93	3	6905.9	11737.2	147.9	221.3

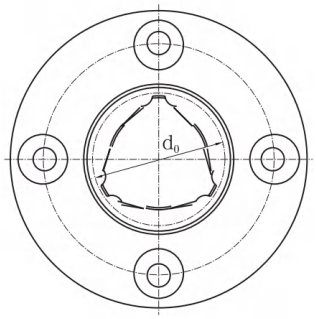
LBS Series Specifications and Dimensions

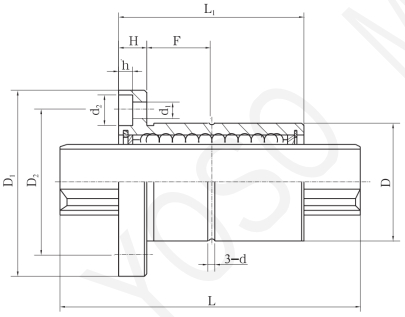




Model No.	Nominal shaft diameter	External diameter		Sleeve length		Maximum shaft length	Keyway width	Keyway depth		Keyway length	Oil hole	Basic rated torque		Basic load rating (radial)	
	d0	D		L1		L	b	t		l	d	Dynamic torque CT	Static torque C0T	Rated dynamic load	Rated static load
												N-m	N-m	C(kN)	C0(kN)
LBS15L	15	23	0 -0.013	50	0 -0.3	400	3.5H8	2	0 -0.3	20	2	38.9	105.9	5.5	13.3
LBS20L	20	30	0 -0.013	60	0 -0.3	600	4H8	2.5	+0.1 0	26	3	100	270.5	10.719	25.499
LBS25L	25	38	0 -0.016	70	0 -0.3	800	5H8	3	+0.2 0	36	3	152	345	13	26
LBS30L	30	45	0 -0.016	80	0 -0.3	1400	4H8	3	+0.2 0	26	3	192.2	425.8	16.3	33.1
LBS32L	32	48	0 -0.016	80	0 -0.3	1400	8H8	4	+0.2 0	40	3	288.9	613.2	19.3	36.1
LBS40L	40	60	0 -0.019	100	0 -0.3	1500	10H8	5	+0.2 0	56	4	651.9	1390.9	34.9	65.5
LBS50L	50	75	0 -0.019	112	0 -0.3	1500	14H8	5.5	+0.2 0	60	4	1048	2200.7	44.9	82.9
LBS60L	60	90	0 -0.022	127	0 -0.3	1500	16H8	6	+0.2 0	70	4	2135.9	4172.9	76.2	131.1
LBS70L	70	100	0 -0.022	135	0 -0.3	1700	18H8	6	+0.1 0	68	4	3153.4	5797.6	96.5	156.1
LBS85L	85	120	0 -0.022	155	0 -0.3	1900	20H8	7	+0.1 0	80	5	4437.2	8082	111.8	179.2
LBS100L	100	140	0 -0.025	175	0 -0.4	1900	28H8	9	+0.1 0	93	5	6943.8	11737.2	148.7	221.3
LBS120L	120	160	0 -0.025	200	0 -0.4	1900	28H8	9	+0.1 0	123	6	10153.5	18779.5	181.3	295
LBS150L	150	205	0 -0.029	250	0 -0.4	1900	32H8	10	+0.1 0	157	6	19564.1	33532.7	279.4	421.5

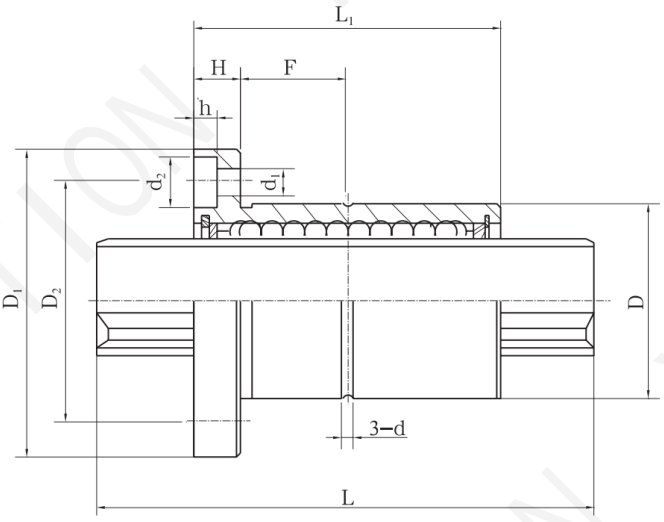
LBF Series Specifications and Dimensions





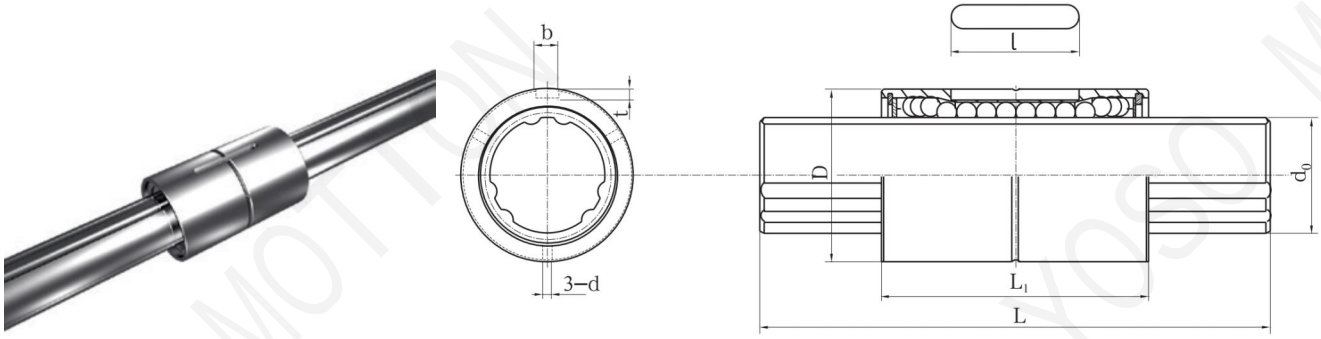
Model No.	Nominal shaft diameter d0	External diameter D		Sleeve length L1		Maximum shaft length L	Flange diameter D1		Installation hole center D2	Flange thickness H
LBF15	15	23	0 -0.013	40	0 -0.3	400	43	0 -0.2	32	7
LBF20	20	30	0 -0.013	50	0 -0.3	600	49	0 -0.2	38	7
LBF25	25	38	0 -0.016	60	0 -0.3	800	60	0 -0.2	47	9
LBF30	30	45	0 -0.016	70	0 -0.3	1400	70	0 -0.2	54	10
LBF32	32	48	0 -0.016	70	0 -0.3	1400	73	0 -0.2	57	10
LBF40	50	57	0 -0.019	90	0 -0.3	1500	90	0 -0.2	70	14
LBF50	50	70	0 -0.019	100	0 -0.3	1500	108	0 -0.2	86	16
LBF60	60	85	0 -0.022	127	0 -0.3	1500	124	0 -0.2	102	18
LBF70S	70	100	0 -0.022	110	0 -0.3	1700	142	0 -0.2	117	20
LBF70	70	100	0 -0.022	135	0 -0.3	1700	142	0 -0.2	117	20
LBF85S	85	120	0 -0.025	140	0 -0.3	1900	168	0 -0.2	138	22
LBF85	85	120	0 -0.022	155	0 -0.3	1900	168	0 -0.2	138	22
LBF100	100	135	0 -0.025	160	0 -0.4	1900	195	0 -0.2	162	25

LBF Series Specifications and Dimensions



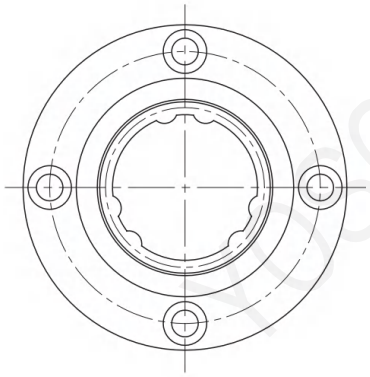
Model No.	Counterbore depth h	Oil hole d	Counterbore diameter d2	Through hole diameter d1	Oil hole position F	Basic rated torque		Basic rated load (radial)	
						Dynamic torque C_T N-m	Static torque C_{OT} N-m	Rated dynamic load C(kN)	Rated static load C_0(kN)
LBF15	4.4	2	8	4.5	13	27.8	65.2	3.9	8.1
LBF20	4.4	3	8	4.5	18	62.3	135.2	6.6	12.7
LBF25	5	3	10	5.8	21	127.3	268.3	10.9	20.2
LBF30	6	3	11	6.6	25	155.7	318.7	11.1	20
LBF32	6	3	12	7	25	236.4	459.9	15.8	27.1
LBF40	7	4	15	9	31	548	1081.9	29.3	50.9
LBF50	9	4	18	11	34	880.6	1711.6	37.7	64.5
LBF60	11	4	18	11	45.5	2135.9	4172.9	76.2	131.1
LBF70S	13	4	20	13.5	35	2488	4141.1	76.1	111.5
LBF70	13	4	20	14	47.5	3153.4	5797.6	96.5	156.1
LBF85S	13	4	20	13.5	48	3978	6927.4	100.2	153.6
LBF85	13	5	20	13	55.5	4437.2	8082	111.8	179.2
LBF100	17.5	5	26	18	55	6905.9	11737.2	147.9	221.3

LT Series Specifications and Dimensions



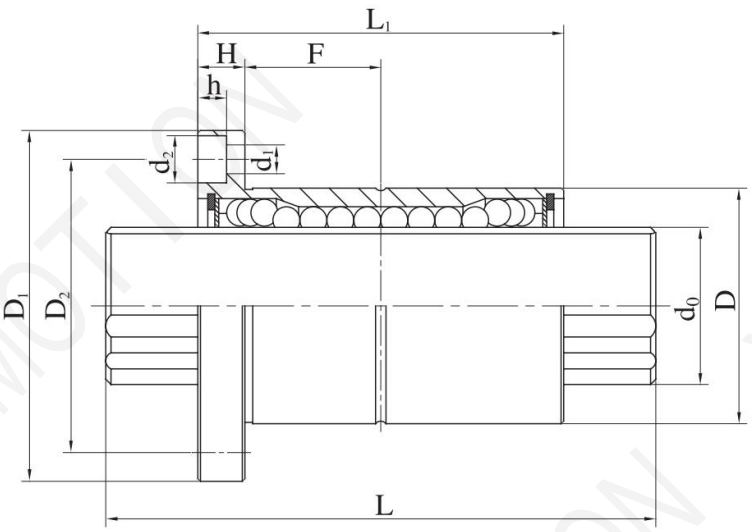
Model NO.	Shaft outer diameter d_0(h7)	External diameter D(h6)	Sleeve length L_1	Maximum shaft length L	Keyway width b	Keyway depth t	Keyway length l	Oil hole d	Basic rated torque		Basic load rating (radial)	
									Dynamic torque C_T N-m	Static torque C_{OT} N-m	Rated dynamic load C(kN)	Rated static load C_O(kN)
LT16	16 $^{0}_{-0.018}$	31 $^{0}_{-0.016}$	50 $^{0}_{-0.2}$	500	3.5H8	2 $^{+0.1}_{0}$	17.5	2	32	30	7.5	15.6
LT20	20 $^{0}_{-0.021}$	35 $^{0}_{-0.016}$	63 $^{0}_{-0.2}$	600	4H8	2.5 $^{+0.1}_{0}$	29	2	55	55	10.1	24.7
LT25	25 $^{0}_{-0.021}$	42 $^{0}_{-0.016}$	71 $^{0}_{-0.3}$	800	4H8	2.5 $^{+0.1}_{0}$	36	3	103	105	13.7	30.1
LT30	30 $^{0}_{-0.021}$	48 $^{0}_{-0.016}$	80 $^{0}_{-0.3}$	1400	4H8	2.5 $^{+0.1}_{0}$	40	3	148	171	17.1	37.1
LT40	40 $^{0}_{-0.025}$	64 $^{0}_{-0.019}$	100 $^{0}_{-0.3}$	1500	6H8	3.5 $^{+0.1}_{0}$	52	4	375	415	32.1	70.2
LT50	50 $^{0}_{-0.025}$	80 $^{0}_{-0.019}$	125 $^{0}_{-0.3}$	1500	8H8	4 $^{+0.2}_{0}$	58	4	760	840	49.4	104.9
LT60	60 $^{0}_{-0.03}$	90 $^{0}_{-0.022}$	140 $^{0}_{-0.3}$	1500	12H8	5 $^{+0.2}_{0}$	67	5	1040	1220	64.2	128.2
LT80	80 $^{0}_{-0.03}$	120 $^{0}_{-0.022}$	160 $^{0}_{-0.4}$	1700	16H8	6 $^{+0.2}_{0}$	76	5	1920	2310	87.3	170.7
LT100	100 $^{0}_{-0.035}$	150 $^{0}_{-0.025}$	190 $^{0}_{-0.4}$	1900	20H8	7 $^{+0.2}_{0}$	110	5	3010	3730	109.9	222
LT120	120 $^{0}_{-0.035}$	180 $^{0}_{-0.025}$	220 $^{0}_{-0.4}$	1900	32H8	11 $^{+0.2}_{0}$	120	6	4100	5200	176.5	347

LTF Series Specifications and Dimensions



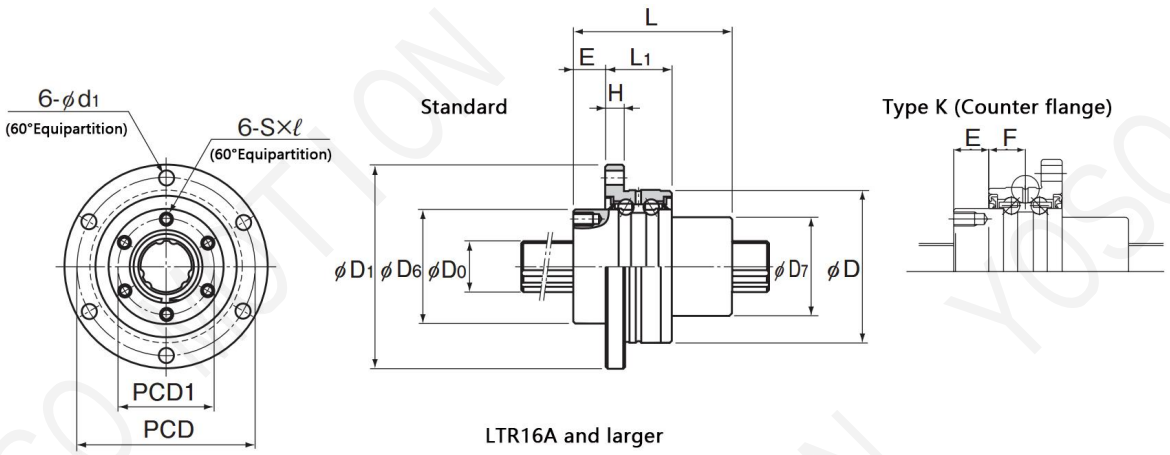
Model NO.	Shaft outer diameter d0(h7)	external diameter D(h6)	Length of outer sleeve L1	Maximum shaft length L	Flange diameter D1	Installation hole center distance D2	Flange thickness H
LTF16	16 0 -0.018	31 0 -0.016	50 0 -0.2	500	51 0 -0.2	40	7
LTF20	20 0 -0.021	35 0 -0.016	63 0 -0.2	600	58 0 -0.2	45	9
LTF25	25 0 -0.021	42 0 -0.016	71 0 -0.3	800	65 0 -0.3	52	9
LTF30	30 0 -0.021	48 0 -0.016	80 0 -0.3	1400	75 0 -0.3	60	10
LTF40	40 0 -0.025	64 0 -0.019	100 0 -0.3	1500	100 0 -0.3	82	14
LTF50	50 0 -0.025	80 0 -0.019	125 0 -0.3	1500	124 0 -0.3	102	16
LTF60	60 0 -0.003	90 0 -0.022	140 0 -0.3	1500	134 0 -0.3	112	16
LTF80	80 0 -0.003	120 0 -0.022	160 0 -0.4	1700	168 0 -0.3	144	20
LTF100	100 0 -0.035	150 0 -0.025	190 0 -0.4	1900	200 0 -0.3	170	25
LTF120	120 0 -0.035	180 0 -0.025	220 0 -0.4	1900	252 0 -0.3	216	30

LTF Series Specifications and Dimensions



Model NO.	Counterbore depth h	Counterbore diameter d2	Through hole diameter d1	Oil hole d	Oil hole position F	Basic rated torque		Basic load rating (radial)	
						Dynamic torque CT N-m	Static torque COT N-m	Rated dynamic load C(kN)	Rated static load Co(kN)
LTF16	4.4	8	4.5	2	18	32	30	7.5	15.6
LTF20	5.4	9.5	5.5	2	22.5	55	55	10.1	24.7
LTF25	5.4	9.5	5.5	3	26.5	103	105	13.7	30.1
LTF30	6.5	11	6.6	3	30	148	171	17.1	37.1
LTF40	8.6	14	9	4	36	375	415	32.1	70.2
LTF50	11	17.5	11	4	46.5	760	840	49.4	104.9
LTF60	11	18	11	5	54	1040	1220	64.2	128.2
LTF80	12.8	20	13.5	5	60	1920	2310	87.3	170.7
LTF100	16.8	26	17.5	5	70	3010	3730	109.9	222
LTF120	20.6	32	22	6	80	4100	5200	176.5	347

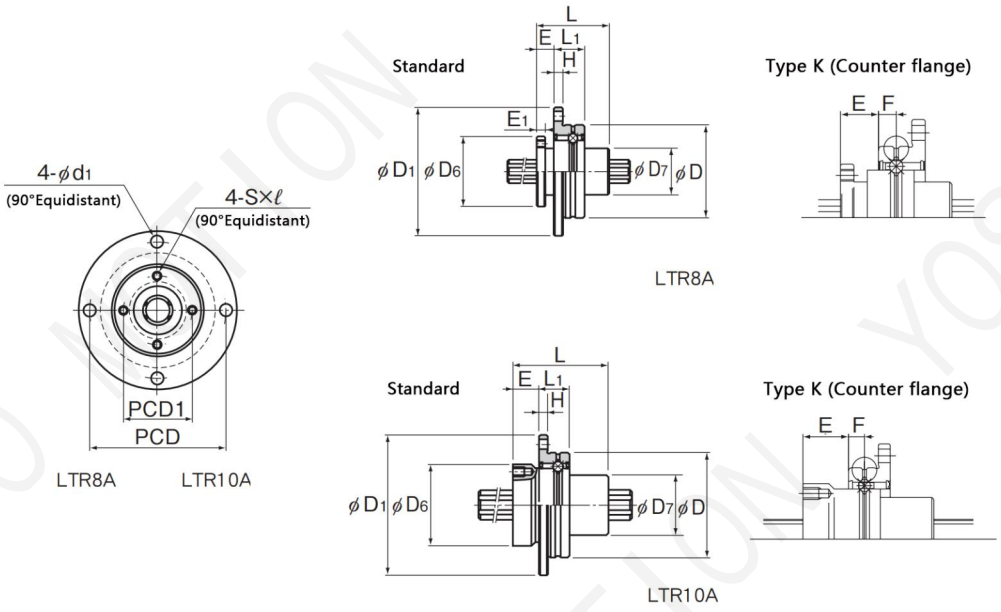
LTR-A Series Specifications and Dimensions



LTR16A and larger

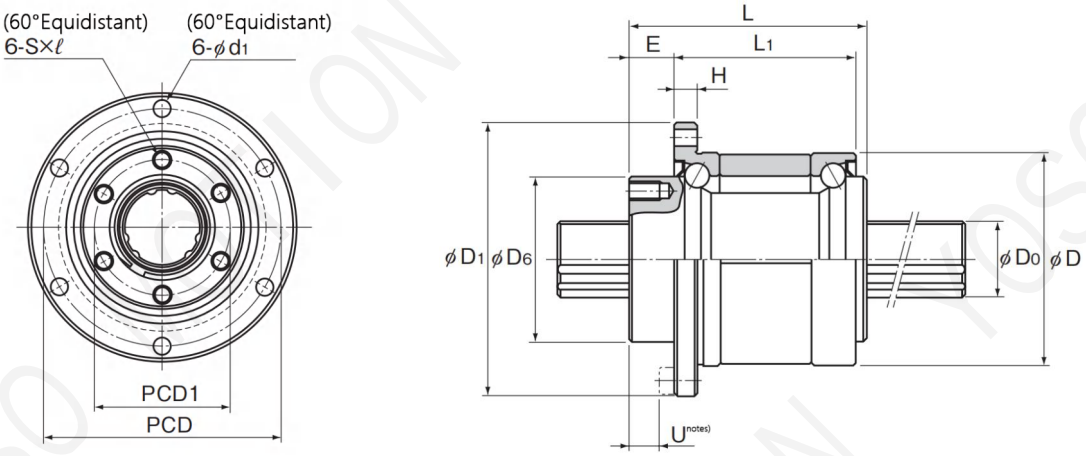
Model NO.	Female spline size															
	External diameter		length L	Flange diameter D1	D6 h7	D7	H	L1	Standard E	K Type E	Oil hole position F	E1	PCD	PCD1	s×ℓ	d1
	D	Tolerance														
LTR8 A	32	-0.009 -0.025	25	44	24	16	3	10.5	6	8.5	4	3	38	19	M2.6×3	3.4
LTR10 A	36		33	48	28	21	3	10.5	9	11.5	4	-	42	23	M3×4	3.4
LTR16 A	48		50	64	36	31	6	21	10	10	10.5	-	56	30	M4×6	4.5
LTR20 A	56	-0.010 -0.029	63	72	43.5	35	6	21	12	12	10.5	-	64	36	M5×8	4.5
LTR25 A	66		71	86	52	42	7	25	13	13	12.5	-	75	44	M5×8	5.5
LTR32 A	78		80	103	63	52	8	25	17	17	12.5	-	89	54	M6×10	6.6
LTR40 A	100	-0.012 -0.034	100	130	79.5	64	10	33	20	20	16.5	-	113	68	M6×10	9

LTR-A Series Specifications and Dimensions



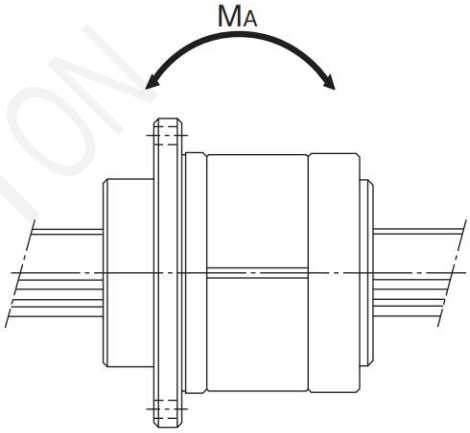
Model NO.	Spline shaft diameter D0 h7	Steel ball array	Basic rated torque		Basic load rating		Static allowable moment	Support bearing Basic load rating		Weight	
			C1 N • m	C0T N • m	C KN	C0 KN	MAnotes) N • m	C kN	C0 kN	Spline nut kg	Spline shaft kg/m
LTR8 A	8	4	1.96	2.94	1.47	2.55	5.9	0.69	0.24	0.08	0.4
LTR10 A	10	4	3.92	7.84	2.84	4.9	15.7	0.77	0.3	0.13	0.62
LTR16 A	16	6	31.4	34.3	7.06	12.6	67.6	6.7	6.4	0.35	1.6
LTR20 A	20	6	56.9	55.9	10.2	17.8	118	7.4	7.8	0.51	2.5
LTR25 A	25	6	105	103	15.2	25.8	210	9.7	10.6	0.79	3.9
LTR32 A	32	6	180	157	20.5	34	290	10.5	12.5	1.25	5.6
LTR40 A	40	6	419	377	37.8	60.5	687	16.5	20.7	2.51	9.9

LTR Series Specifications and Dimensions



Model NO.	Female spline size												
	External diameter		length	Flange diameter	D_6	H	L_1	E	PCD	PCD1	s×ℓ	d_1	$U^{notes)}$
	D	tolerance	L	D_1	h7								
LTR 16	52	0 -0.007	50	68	39.5	5	37	10	60	32	M5×8	4.5	5
LTR 20	56		63	72	43.5	6	48	12	64	36	M5×8	4.5	7
LTR 25	62		71	78	53	6	55	13	70	45	M6×8	4.5	8
LTR 32	80		80	105	65.5	9	60	17	91	55	M6×10	6.6	10
LTR 40	100	0 -0.008	100	130	79.5	11	74	23	113	68	M6×10	9	13
LTR 50	120		125	156	99.5	12	97	25	136	85	M10×15	11	13
LTR 60	134	0 -0.009	140	170	115	12	112	25	150	100	M10×15	11	13

LTR Series Specifications and Dimensions



Model NO.	Spline shaft diameter D_0 h7	Steel ball array	Basic rated torque		Basic load rating		Static allowable moment	Support bearing Basic load rating		Weight	
			C_T N • m	C_{0T} N • m	C kN	C_0 kN	MA notes) N • m	C kN	C_0 kN	Spline nut kg	Spline shaft kg/m
LTR 16	16	6	31.4	34.3	7.06	12.6	67.6	12.7	11.8	0.51	1.6
LTR 20	20	6	56.9	55.9	10.2	17.8	118	16.3	15.5	0.7	2.5
LTR 25	25	6	105	103	15.2	25.8	210	17.6	18	0.93	3.9
LTR 32	32	6	180	157	20.5	34	290	20.1	24	1.8	5.6
LTR 40	40	6	419	377	37.8	60.5	687	37.2	42.5	3.9	9.9
LTR 50	50	6	842	769	60.9	94.5	1340	41.7	54.1	6.7	15.5
LTR 60	60	6	1220	1040	73.5	111.7	1600	53.1	68.4	8.8	22.3

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