

滚珠丝杠轴承 Ball screw bearing

Ball screw bearing is a one-way angular contact thrust ball bearing with contact angle of 60°. It has good performance of high precision, high speed, high axial stiffness, low friction, long life and high&low speed transition conversion. ZYS ball screw bearing is particularly suitable for ball bearing lead screw and similar transmission components in high speed precision CNC machine tools.

Ball screw thrust bearings have 7602 and 7603 series, which are standard metric with internal diameters from 12mm to 130mm in accordance with JB/T8564 standard.

Ball screw bearings also have BS and BSS series; BS stands for non-standard metric series while BSS stands for Inch series.

滚珠丝杠轴承是一种接触角为 60°的单向推力角接触球轴承，具有高精度、高转速、高轴向刚度、低摩擦、长寿命及瞬时高低速转换性能好等特点，该轴承特别适合于高速精密数控机床滚柱丝杠副及其类似传动原件的支承。

精密滚珠丝杠球轴承有 7602、7603、BS、 BSS 四种产品系列。其中标准公制 7602 和 7603 尺寸系列符合 JB/T8564 标准。

滚珠丝杠轴承还有 BS 和 BSS 系列； BS 代表非标准公制系列，BSS 代表英制系列。

Bearing model 型号	Dimensions (mm)尺寸					Rated load (K N)额定载荷		Limit speed (r/min)极限转速	MAX axial load (K N)最大轴向载荷	Preload (K N)预载	Friction torque (N. mm)摩擦扭矩	Weight (kg)重量
	d	D	B	r _{smi} n	a	Ca	Coa	Grease				
760201	12	32	10	0.6	24	11.6	12.5	17000	5.2	1.4	15	0.04
760202	15	35	11	0.6	27	12.5	15	15000	6.3	1.4	20	0.05
760203	17	40	12	0.6	31	16.6	20	13000	8.5	1.7	30	0.07
760204	20	47	14	1.0	36	19.3	25	12000	10.6	2.3	50	0.13
760205	25	52	15	1.0	41	22	30.5	11000	13.2	2.5	65	0.16
760206	30	62	16	1.0	48	26	39	9000	17.0	2.9	85	0.24
760207	35	72	17	1.1	55	30	50	8000	21.2	3.3	115	0.34

760208	40	80	1 8	1.1	62	37.5	64	7000	28.0	4.3	170	0.44
760209	45	85	1 9	1.1	66	38	68	6700	28.0	4.5	190	0.50
760210	50	90	2 0	1.1	71	39	75	6300	31.5	4.6	230	0.57
760211	55	10 0	2 1	1.5	78	40.5	81.5	6000	33.5	4.9	250	0.75
760212	60	11 0	2 2	1.5	86	56	112	5000	47.5	6.5	350	0.96
760213	65	12 0	2 3	1.5	92	57	122	4800	50.0	7.0	410	1.20
760214	70	12 5	2 4	1.5	96	65.5	137	4500	56.0	7.0	440	1.32
760215	75	13 0	2 5	1.5	10 1	67	150	4300	63.0	7.6	480	1.45
760216	80	14 0	2 6	2.0	10 8	76.5	175	4000	75.0	8.9	600	1.76
760217	85	15 0	2 8	2.0	11 6	86.5	196	3800	85.0	10.5	760	2.19

760218	90	16 0	3 0	2.0	12 3	98	224	3600	100	11.0	790	2.69
760219	95	17 0	3 2	2.1	13 1	110	255	3400	112	12.5	950	3.26
760220	10 0	18 0	3 4	2.1	13 8	122	285	3200	125	14.0	1100	3.91
760222	11 0	20 0	3 8	2.1	15 3	146	355	2800	153	16.4	1400	5.5
760224	12 0	21 5	4 0	2.1	16 5	176	425	2600	185	20.6	2000	6.5
760226	13 0	23 0	4 0	3.0	17 6	180	455	2400	200	20.6	2100	7.4
760304	20	52	1 5	1.1	39	24.5	32	11000	14.0	2.9	60	0.17
760305	25	62	1 7	1.1	46	28.5	41.5	9000	18.0	3.3	85	0.28
760306	30	72	1 9	1.1	53	34.5	55	8000	23.6	4.3	130	0.41
760307	35	80	2 1	1.5	60	36.5	61	7000	26.5	4.8	170	0.55

760307X3	35	90	2 3	1.5	68	50	83	6300	35.5	5.6	225	0.81
760308	40	90	2 3	1.5	68	50	83	6300	35.5	5.6	225	0.76
760309	45	10 0	2 5	1.5	75	58.5	104	5600	45.0	7.0	300	1.02
760309X3	45	11 0	2 7	2.0	83	69.5	127	5000	53.0	7.6	360	1.41
760310	50	11 0	2 7	2.0	83	69.5	127	5000	53.0	7.6	360	1.33
760311	55	12 0	2 9	2.0	90	78	146	4800	63.0	8.8	460	1.69
760312	60	13 0	3 1	2.1	98	88	166	4500	75.0	10.0	540	2.12
760313	65	14 0	3 3	2.1	1.5	100	196	4000	90.0	12.0	700	2.60
760314	70	15 0	3 5	2.1	11 3	110	220	3800	95.0	12.0	760	3.16
760315	75	16 0	3 7	2.1	12 0	125	255	3600	118.0	14.5	920	3.79

760319	80	170	39	2.1	128	137	285	3400	132.0	16.0	1100	4.50
760320	100	215	47	3.0	160	193	430	2600	212.0	21.5	1700	8.73
760322	110	240	50	3.0	176	250	560	2400	265.0	29.3	2500	11.8
760324	120	260	55	3.0	192	265	620	2200	280.0	31.3	2750	14.6
760326	130	280	58	3.0	206	290	695	2000	305.0	33.7	3100	18.7

Bearing model 型号	Dimensions (mm)尺寸					Rated load (KN)额定载荷		Limit speed (r/min)极限转速	MAX axial load (KN)最大轴向载荷	Preload (KN)预载	Friction torque (N.mm)摩擦扭矩	Weight (kg)重量
	d	D	B	r _{smi} n	a	Ca	Coa	Grease				
BS1547	15	47	15	1.0	35	21.5	27	12000	11.5	2.6	50	0.13
BS1747	17	47	15	1.0	35	21.5	27	12000	11.5	2.6	50	0.14

BS2047	20	47	15	1.0	37	19.3	25	12000	10.6	2.3	50	0.13
BS2562	25	62	15	1.0	46	28.5	41.5	9000	18.0	3.3	85	0.24
BS3062	30	62	15	1.0	48	26	39	9000	17.0	2.9	85	0.23
BS3072	30	72	15	1.0	52	31	54	8000	22.0	3.4	115	0.35
BS3572	35	72	15	1.0	54	30	50	8000	21.2	3.3	115	0.30
BS4072	40	72	15	1.0	56	28	49	8000	21.2	2.9	115	0.26
BS4090	40	90	20	1.5	67	50	83	6300	35.5	5.6	225	0.65
BS4575	45	75	15	1.0	60	28.5	52	7500	22.4	3.1	130	0.26
BS45100	45	100	20	1.5	74	58.8	104	5600	45.0	6.9	300	0.81
BS50100	50	100	20	1.5	76	58.5	104	5600	45.0	7.0	330	0.75
BS5590	55	90	15	1.0	70	32.5	65.5	6300	28.0	3.6	190	0.38
BS55100	55	100	20	1.5	77	40.5	81.5	6000	33.5	4.6	250	0.75

BS55120	55	120	20	1.5	86	60	116	5000	50.0	6.8	360	1.18
BS60120	60	120	20	1.5	88	61	120	4800	53.0	7.0	380	1.11
BS75110	75	110	15	1.5	88	35.5	83	5000	33.5	4.6	250	0.75
BS100150	100	150	22.5	2.0	120	69.5	173	3800	71.0	7.5	600	1.37
INCH 英制												
BSS2047	20.0000	47	15.875	1.0	38	19.3	25	12000	10.6	2.3	50	0.13
BSS2362	23.838	62	15.875	1.0	45	28.5	41.5	9000	18.0	3.3	85	0.24
BSS3872	38.100	72	15.875	1.0	56	28	49	8000	21.2	2.9	115	0.26
BSS4476	44.475	76.2	15.875	1.0	60	28.5	52	7500	22.4	3.1	130	0.26
BSS5790	57.150	90	15.875	1.0	72	32.5	65.5	6300	28.0	3.6	190	0.38

BSS76110	76.200	110	15.87 5	1.0	88	35.5	83	5000	33.5	4.6	250	0.75
BSS101145	101.60 0	145	22.22 5	1.5	11 8	69.5	173	3800	71.0	7.5	600	1.37