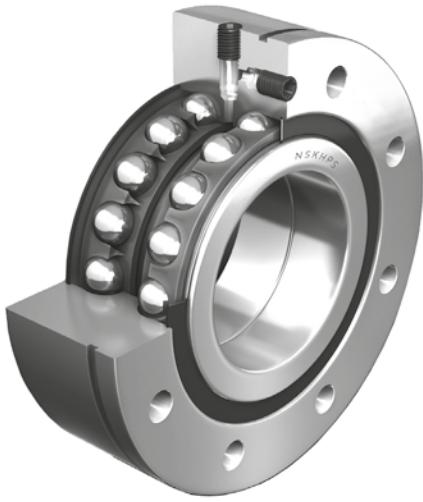
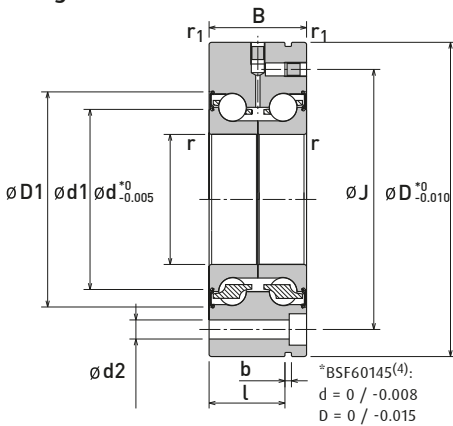


BALL SCREW SUPPORT BEARINGS: BSBD SERIES

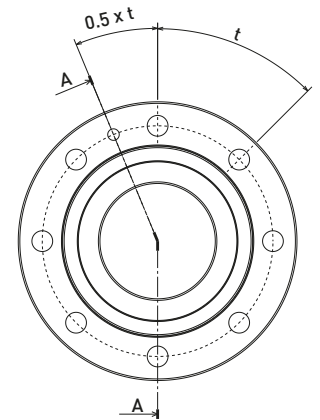
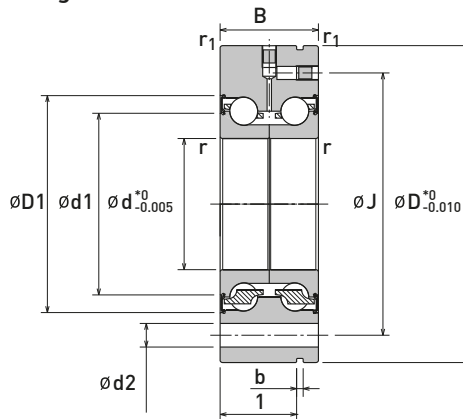
BSF TYPE



Design for $d = 60 \text{ mm}$



Design for $d \leq 50 \text{ mm}$



Bearing Numbers	Boundary Dimensions (mm)					Reference Dimensions (mm)							Fixing screws		Basic Dynamic Load Rating (kN)	Basic Static Load Rating (kN)	Limiting Axial Load ⁽³⁾ (kN)	Inertia (kg·cm ²)	Axial Rigidity (N/μm)	Tilting rigidity (Nm/mrad)	Mass (kg)	Limiting Speed (min ⁻¹) Grease	Starting torque ⁽¹⁾ (Nm)	Recommended Clamping Force (N)
	d	D	B	r (min)	r1 (min)	d1	D1	J	d2	l	b	t	Size	Qty										
BSF1255	12	55	25	0.3	0.6	23.7	32.7	42	6.8	17	3	3 x 120°	M6	3	18.5	24.0	17.6	0.068	375	50	0.370	8,000	0.05	4,030
BSF1560	15	60	25	0.3	0.6	26.7	35.7	46	6.8	17	3	3 x 120°	M6	3	19.4	26.9	19.4	0.101	400	60	0.440	7,200	0.05	4,050
BSF1762	17	62	25	0.6	0.6	28.1	37.7	48	6.8	17	3	3 x 120°	M6	3	20.3	29.7	21.2	0.130	450	80	0.460	6,700	0.05	4,400
BSF2068	20	68	28	0.6	0.6	32.6	43.0	53	6.8	19	3	4 x 90°	M6	4	26.4	41.0	29.3	0.258	650	140	0.610	5,800	0.13	7,600
BSF2575	25	75	28	0.6	0.6	37.6	48.0	58	6.8	19	3	4 x 90°	M6	4	28.3	48.0	34.0	0.413	750	210	0.730	5,100	0.16	8,100
BSF3080	30	80	28	0.6	0.6	42.6	53.0	63	6.8	19	3	6 x 60°	M6	6	30.0	55.5	38.5	0.624	850	290	0.783	4,500	0.19	8,600
BSF30100 ⁽²⁾	30	100	38	0.6	0.6	49.1	64.4	80	8.8	30	3	8 x 45°	M8	8	60.5	94.0	66.5	1.800	950	440	1.710	3,900	0.59	11,100
BSF3590	35	90	34	0.6	0.6	53.1	62.2	75	8.8	25	3	4 x 90°	M8	4	42.0	77.5	52.0	1.410	900	400	1.200	3,800	0.21	13,500
BSF40100	40	100	34	0.6	0.6	55.1	67.2	80	8.8	25	3	4 x 90°	M8	4	44.5	88.0	58.5	1.950	1000	560	1.490	3,500	0.24	14,100
BSF40115 ⁽²⁾	40	115	46	0.6	0.6	63.1	80.1	94	8.8	36	3	12 x 30°	M8	12	78.5	135.0	91.0	5.200	1200	910	2.560	3,100	1.02	18,700
BSF50115	50	115	34	0.6	0.6	70.1	82.2	94	8.8	25	3	6 x 60°	M8	6	48.0	110.0	71.5	5.000	1250	1,050	1.890	2,800	0.33	15,400
BSF50140 ⁽²⁾	50	140	54	0.6	0.6	78.1	97.5	113	11.0	45	3	12 x 30°	M10	12	116.0	219.0	149.0	14.600	1400	1,600	4.460	2,500	1.06	19,100
BSF60145	60	145	45	0.6	0.6	83.1	99.3	120	8.8	35	3	8 x 45°	M8	8	86.5	187.0	126.0	12.900	1300	1,600	4.060	2,400	0.50	20,900

⁽¹⁾ Starting torque indicates torque due to the preload of the bearing only. If you need further information please consult NSK

⁽²⁾ Heavy series

⁽³⁾ Limiting axial load is defined as the maximum load whose large contact ellipse between the ball and raceway does not cause overriding of the shoulder of the raceway groove

⁽⁴⁾ Tolerances are valid for all sizes except for sizes mentioned in the sketch