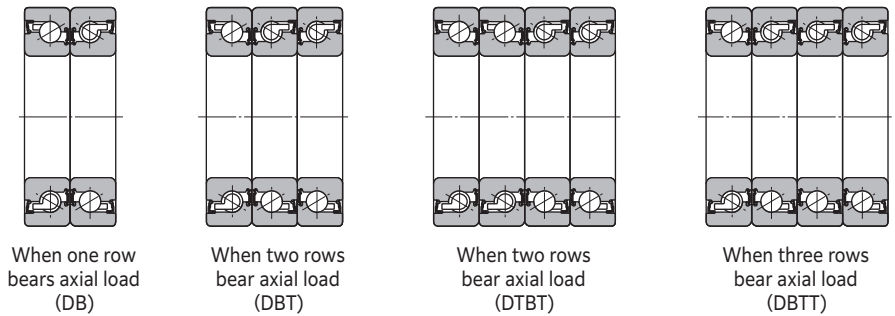
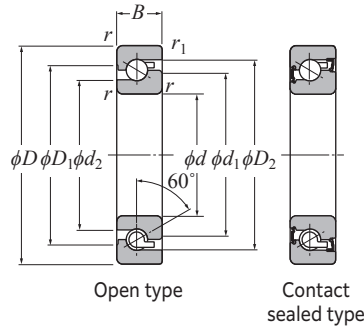


Dynamic equivalent axial load  $P_a = XF_r + YF_a$

Number of rows in bearing arrangement	2		3			4				
	1	2	1	2	3	1	2	3	4	
$F_a / F_r \leq 2.17$	X	1.90	—	1.43	2.32	—	1.17	1.90	2.52	—
	Y	0.55	—	0.76	0.35	—	0.88	0.55	0.26	—
$F_a / F_r > 2.17$	X	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	Y	1	1	1	1	1	1	1	1	1

Static equivalent axial load

$P_{0a} = F_a + 3.98F_r$



Contact angle 60° **d** 17–60 mm

Part number	Boundary dimensions						Basic dynamic rated load $C_a^{(2)}$			Basic static rated load $C_{0a}^{(2)}$			Dimensions				Internal free space $\text{cm}^2$ Single-row (approx.)	Allowable axial load $^{(2)}$ (static) kN kgf			Allowable speed	
	mm						kN kgf			kN kgf			mm					1-row 2-row 3-row			grease lubrication	oil lubrication
	d	D	B	$r_{s \min}^{(1)}$	$r_{is \min}^{(1)}$		1-row	2-row	3-row	1-row	2-row	3-row	$d_1$	$d_2$	$D_1$	$D_2$		1-row	2-row	3-row	min <sup>-1</sup>	
BST17X47-1B	17	47	15	1	0.6	24.3	39.5	52.5	37.5	75.0	113	29.9	27.1	37.1	40.7	4.4	25.7	51.5	77.0	6 500	10 000	
BST17X47-1BLXL						2 470	4 000	5 350	3 850	7 650	11 500						2 620	5 250	7 850		—	
BST20X47-1B	20	47	15	1	0.6	24.3	39.5	52.5	37.5	75.0	113	29.9	27.1	37.1	40.7	4.4	25.7	51.5	77.0	6 500	10 000	
BST20X47-1BLXL						2 470	4 000	5 350	3 850	7 650	11 500						2 620	5 250	7 850		—	
BST25X62-1B	25	62	15	1	0.6	29.2	47.5	63.0	59.0	118	177	44.4	41.6	51.6	55.2	5.9	40.0	80.5	121	4 600	7 000	
BST25X62-1BLXL						2 980	4 850	6 450	6 050	12 100	18 100						4 100	8 200	12 300		—	
BST30X62-1B	30	62	15	1	0.6	29.2	47.5	63.0	59.0	118	177	44.4	41.6	51.6	55.2	5.9	40.0	80.5	121	4 600	7 000	
BST30X62-1BLXL						2 980	4 850	6 450	6 050	12 100	18 100						4 100	8 200	12 300		—	
BST35X72-1B	35	72	15	1	0.6	31.0	50.5	67.0	70.0	140	210	52.4	49.6	59.6	63.2	6.7	47.5	95.0	143	3 900	6 000	
BST35X72-1BLXL						3 150	5 150	6 850	7 150	14 300	21 400						4 850	9 700	14 600		—	
BST40X72-1B	40	72	15	1	0.6	31.0	50.5	67.0	70.0	140	210	52.4	49.6	59.6	63.2	6.7	47.5	95.0	143	3 900	6 000	
BST40X72-1BLXL						3 150	5 150	6 850	7 150	14 300	21 400						4 850	9 700	14 600		—	
BST40X90-1B	40	90	20	1	0.6	58.5	95.0	126	130	261	390	64.8	60.7	75.2	80.4	15	88.5	177	265	3 100	5 400	
BST40X90-1BLXL						6 000	9 700	12 900	13 300	26 600	40 000						9 000	18 000	27 000		—	
BST45X75-1B	45	75	15	1	0.6	32.0	52.0	69.5	77.5	155	232	58.4	55.6	65.6	69.2	7.4	52.5	105	158	3 500	6 000	
BST45X75-1BLXL						3 300	5 350	7 100	7 900	15 800	23 700						5 350	10 700	16 100		—	
BST45X100-1B	45	100	20	1	0.6	62.0	101	134	153	305	460	75.8	71.7	86.2	91.4	18	104	208	315	2 700	4 400	
BST45X100-1BLXL						6 350	10 300	13 700	15 600	31 000	47 000						10 600	21 200	32 000		—	
BST50X100-1B	50	100	20	1	0.6	62.0	101	134	153	305	460	75.8	71.7	86.2	91.4	18	104	208	315	2 700	4 400	
BST50X100-1BLXL						6 350	10 300	13 700	15 600	31 000	47 000						10 600	21 200	32 000		—	
BST55X100-1B	55	100	20	1	0.6	62.0	101	134	153	305	460	75.8	71.7	86.2	91.4	18	104	208	315	2 700	4 400	
BST55X100-1BLXL						6 350	10 300	13 700	15 600	31 000	47 000						10 600	21 200	32 000		—	
BST55X120-1B	55	120	20	1	0.6	66.5	108	143	183	365	550	90.8	86.7	101.2	106.4	21	124	249	375	2 300	3 700	
BST55X120-1BLXL						6 750	11 000	14 600	18 700	37 500	56 000						12 700	25 400	38 000		—	
BST60X120-1B	60	120	20	1	0.6	66.5	108	143	183	365	550	90.8	86.7	101.2	106.4	21	124	249	375	2 300	3 700	
BST60X120-1BLXL						6 750	11 000	14 600	18 700	37 500	56 000						12 700	25 400	38 000		—	

1) Minimum allowable value for corner radius dimension  $r$  or  $r_1$ .

2) The number of rows means the number of bearings that bear the axial load.

Ball Screw Support Bearings

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