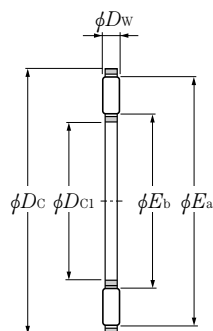
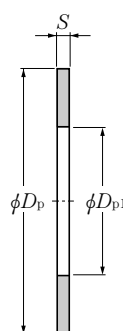


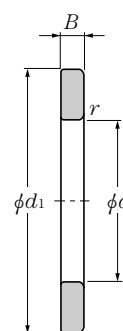
Type AXK11
Type AS11
Type WS811
Type GS811



Type AXK
(Thrust needle roller
and cage assy)



AS bearing ring
(washer)



WS bearing ring
(Inner ring)

D_{c1} 10~140mm

Boundary dimensions												Basic load ratings				
D_{c1}	D_c	D_w	D_p	D_{p1}	$S^{2)}$	mm		d_1	D	D_1	B	$r_s \min^{1)}$	dynamic	static	dynamic	static
E11	c12	$\overset{0}{-0.01}$	e13	E12	0.05			$\overset{-0.2}{-0.5}$		$\overset{+0.5}{+0.2}$			N		kgf	
													C_a	C_{oa}	C_a	C_{oa}
10	24	2	24	10	1	10	24	24	10	$2.75 \overset{0}{-0.060}$	0.3		9 150	25 300	935	2 580
12	26	2	26	12	1	12	26	26	12	$2.75 \overset{0}{-0.060}$	0.3		9 850	28 900	1 010	2 940
15	28	2	28	15	1	15	28	28	16	$2.75 \overset{0}{-0.060}$	0.3		11 300	36 000	1 150	3 700
17	30	2	30	17	1	17	30	30	18	$2.75 \overset{0}{-0.060}$	0.3		11 900	39 500	1 220	4 050
20	35	2	35	20	1	20	35	35	21	$2.75 \overset{0}{-0.060}$	0.3		13 200	46 500	1 340	4 750
25	42	2	42	25	1	25	42	42	26	$3 \overset{0}{-0.060}$	0.6		14 600	58 000	1 490	5 900
30	47	2	47	30	1	30	47	47	32	$3 \overset{0}{-0.060}$	0.6		16 300	69 500	1 660	7 100
35	52	2	52	35	1	35	52	52	37	$3.5 \overset{0}{-0.075}$	0.6		17 800	81 500	1 820	8 300
40	60	3	60	40	1	40	60	60	42	$3.5 \overset{0}{-0.075}$	0.6		27 400	110 000	2 790	11 300
45	65	3	65	45	1	45	65	65	47	$4 \overset{0}{-0.075}$	0.6		29 800	128 000	3 050	13 100
50	70	3	70	50	1	50	70	70	52	$4 \overset{0}{-0.075}$	0.6		31 500	143 000	3 250	14 500
55	78	3	78	55	1	55	78	78	57	$5 \overset{0}{-0.075}$	0.6		38 000	186 000	3 850	19 000
60	85	3	85	60	1	60	85	85	62	$4.75 \overset{0}{-0.075}$	1		44 500	234 000	4 550	23 900
65	90	3	90	65	1	65	90	90	67	$5.25 \overset{0}{-0.075}$	1		46 500	254 000	4 750	25 900
70	95	4	95	70	1	70	95	95	72	$5.25 \overset{0}{-0.075}$	1		53 500	253 000	5 500	25 800
75	100	4	100	75	1	75	100	100	77	$5.75 \overset{0}{-0.075}$	1		55 000	266 000	5 650	27 100
80	105	4	105	80	1	80	105	105	82	$5.75 \overset{0}{-0.075}$	1		56 500	279 000	5 750	28 400
85	110	4	110	85	1	85	110	110	87	$5.75 \overset{0}{-0.075}$	1		57 500	291 000	5 850	29 700
90	120	4	120	90	1	90	120	120	92	$6.5 \overset{0}{-0.090}$	1		70 500	390 000	7 200	39 500
100	135	4	135	100	1	100	135	135	102	$7 \overset{0}{-0.090}$	1		90 000	550 000	9 200	56 500
110	145	4	145	110	1	110	145	145	112	$7 \overset{0}{-0.090}$	1		93 500	590 000	9 550	60 500
120	155	4	155	120	1	120	155	155	122	$7 \overset{0}{-0.090}$	1		99 000	650 000	10 100	66 500
130	170	5	170	130	1	130	170	170	132	$9 \overset{0}{-0.090}$	1		140 000	900 000	14 300	92 000
140	180	5	180	140	1	140	178	180	142	$9.5 \overset{0}{-0.090}$	1		145 000	960 000	14 800	97 500

Note 1) Allowable minimum chamfer dimension r .

2) Subject to measured thrust load of 20kg or more.