

Drawing 1

d 120 ~ 200mm

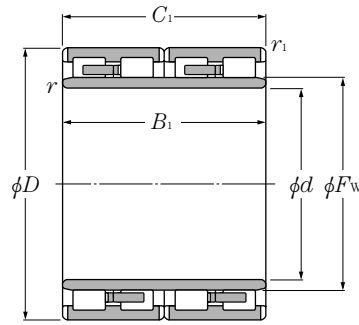
d	Boundary dimensions					Basic load ratings				
	D	B <sub>1</sub>	C <sub>1</sub>	r <sub>s min</sub> <sup>1)</sup>	r <sub>1s min</sub> <sup>1)</sup>	dynamic C <sub>r</sub> kN	static C <sub>0r</sub>	dynamic C <sub>r</sub> kgf	static C <sub>0r</sub>	
120	180	92	92	2.5	2.5	400	785	40 500	80 000	
	180	105	105	2.5	2.5	445	855	45 500	87 000	
130	200	104	104	2.5	2.5	490	955	49 500	97 000	
140	210	116	116	2.5	2.5	510	1 030	52 000	105 000	
145	210	155	155	2.5	2.5	705	1 640	71 500	168 000	
	225	156	156	2.5	2.5	810	1 750	82 500	178 000	
150	220	150	150	2.5	2.5	750	1 640	76 500	168 000	
	230	130	130	2.5	2.5	725	1 520	73 500	155 000	
	230	156	156	2.5	2.5	930	2 040	95 000	208 000	
	250	150	150	2.5	2.5	885	1 640	90 500	167 000	
160	220	180	180	2.5	2.5	920	2 490	93 500	254 000	
	230	130	130	2.5	2.5	665	1 340	68 000	136 000	
	230	168	168	2.5	2.5	915	2 170	93 500	222 000	
	240	170	170	2	2.5	980	2 290	100 000	234 000	
170	230	120	120	2.5	2.5	620	1 520	63 000	155 000	
	240	156	156	2.5	2.5	905	2 170	92 500	222 000	
	240	160	160	2.5	2.5	905	2 180	92 000	222 000	
	250	168	168	2.5	2.5	970	2 220	99 000	226 000	
	255	180	180	2.5	2.5	1 100	2 430	112 000	247 000	
	260	150	150	2.5	2.5	835	1 750	85 000	179 000	
	260	225	225	2.5	2.5	1 310	3 150	134 000	320 000	
180	250	156	156	2.5	2.5	895	2 180	91 500	223 000	
	260	168	168	2.5	2.5	1 020	2 400	104 000	244 000	
	265	180	180	2.5	2.5	1 090	2 510	111 000	256 000	
190	260	168	168	2.5	2.5	980	2 600	100 000	265 000	
	270	170	170	2.5	2.5	1 090	2 660	111 000	272 000	
	270	200	200	2.5	2.5	1 260	3 100	128 000	315 000	
	280	200	200	2.5	2.5	1 240	2 910	126 000	297 000	
200	270	170	170	2.5	2.5	970	2 610	99 000	266 000	
	280	190	190	2.5	2.5	1 190	3 150	121 000	320 000	
	280	200	200	2.5	2.5	1 310	3 300	134 000	335 000	

1) Minimal allowable dimension for chamfer dimension  $r$  or  $r_1$ . 2) An oil hole and groove are provided in the center of the outer ring. The oil groove is not provided on the side.

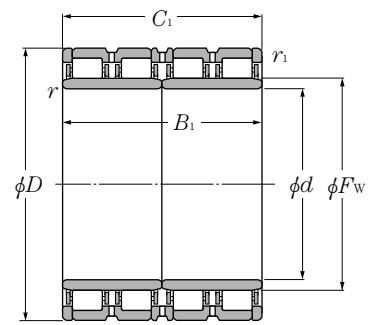
Bearing numbers	Dimensions	Drawing no.	Mass kg (approx.)
	$F_w$		
4R2437	137	1	8.2
4R2438	135	1	9.3
4R2628	150	1	12.1
4R2823	160	1	13.9
4R2906	166	1	18
4R2908	169	1	23.4
4R3031	168	1	19.4
4R3029	174	1	20
4R3040	174	1	24.5
4R3039	177	1	29.6
4R3224	177	1	20.2
4R3226	180	1	16.6
4R3232	179	1	23.4
4R3225	183	1	27.8
4R3426	187	1	14.2
4R3429	189	1	22.2
4R3423	190	1	22.8
4R3432	193	1	28.2
4R3425	193	1	19.3
4R3433	192	1	29.5
4R3431	196	1	44
4R3625	200	1	23.2
4R3628	202	1	29.4
4R3618	204	1	34.2
4R3820	212	1	26.9
4R3818	213	1	31.7
4R3821	212	1	37.5
4R3823	214	1 <sup>2)</sup>	41.5
4R4039	222	1	28.5
4R4026	223	1	36.7
4R4037	222	1	40.5

Note: **Drawing 1** represents a bearing with solid rollers and machined cage.





Drawing 1



Drawing 2

d 200 ~ 300mm

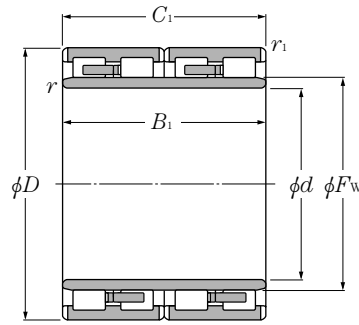
d	Boundary dimensions					Basic load ratings			
	D	B <sub>1</sub>	C <sub>1</sub>	r <sub>s min</sub> <sup>1)</sup>	r <sub>1s min</sub> <sup>1)</sup>	dynamic C <sub>r</sub> kN	static C <sub>or</sub>	dynamic C <sub>r</sub> kgf	static C <sub>or</sub>
200	290	192	192	2.5	2.5	1 290	3 150	132 000	320 000
	320	216	216	3	3	1 750	3 650	179 000	375 000
210	290	192	192	2.5	2.5	1 230	3 350	126 000	340 000
220	290	192	192	2.5	2.5	1 190	3 350	122 000	340 000
	300	160	160	2.5	2.5	1 000	2 590	102 000	264 000
	310	192	192	2.5	2.5	1 390	3 400	141 000	350 000
	310	204	204	2.5	2.5	1 420	3 750	144 000	385 000
	310	215	215	2.5	2.5	1 530	3 750	156 000	380 000
	310	225	225	2.5	2.5	1 480	3 950	151 000	405 000
	310	265	265	2.5	2.5	1 630	4 500	167 000	460 000
	320	160	160	3	3	1 190	2 550	121 000	260 000
320	210	210	2.5	2.5	1 550	3 650	158 000	370 000	
230	330	206	206	2.5	2.5	1 520	3 800	155 000	385 000
	340	260	260	3	3	2 050	5 100	209 000	520 000
240	330	220	220	3	3	1 490	4 150	152 000	420 000
	340	220	220	3	3	1 670	4 200	170 000	425 000
	360	220	220	2.5	2.5	1 760	4 050	179 000	415 000
250	350	220	220	3	3	1 730	4 300	176 000	440 000
260	370	220	220	3	3	1 760	4 450	179 000	455 000
	380	280	280	3	3	2 420	6 250	247 000	635 000
270	380	280	280	2.5	2.5	2 580	6 850	263 000	700 000
280	390	220	220	3	3	1 780	4 650	181 000	475 000
	390	275	275	2.5	2.5	2 290	6 250	233 000	635 000
	420	280	280	4	4	2 430	6 150	248 000	630 000
290	410	240	240	3	3	2 240	5 550	228 000	565 000
	420	300	300	3	3	2 830	7 500	288 000	765 000
300	400	300	300	3	3	2 480	7 500	253 000	765 000
	420	240	240	3	3	2 020	5 450	206 000	555 000
	420	300	300	3	3	2 720	7 600	278 000	775 000
	420	300	300	3	3	2 900	7 850	295 000	800 000

1) Minimal allowable dimension for chamfer dimension  $r$  or  $r_1$ . 2) An oil hole and groove are provided in the center of the outer ring.  
3) An oil hole and groove are not provided on the outer ring spacer.

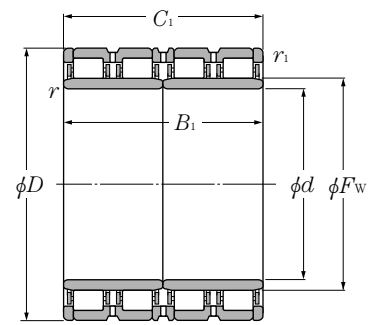
Bearing numbers	Dimensions	Drawing no.	Mass kg (approx.)
	$F_w$		
4R4041	226	1	42.5
4R4028	231	1	67
4R4206	236	1	39.5
4R4413	239	1	33.8
4R4419	245	1	32.8
4R4426	246	1	46.9
4R4425	247	1	49.8
4R4420	242	1	51.5
4R4416	245	1	54.9
4R4430	245	1	63.5
4R4428	245	1	46.5
4R4429	248	1	60.5
4R4614	258	1	58.6
4R4611	261	1	82.6
4R4811	270	1 <sup>2)</sup>	56.8
4R4806	268	1	63.6
4R4807	274	1	79.6
4R5008	278	1	66
4R5217	292	1	76.5
4R5213	294	1	109
4R5405	299.7	2 <sup>3)</sup>	105
4R5611	312	1	81.3
4R5612	312	1	105
4R5605	323	1	139
4R5806	320	1	103
4R5805	327	1	141
E-4R6014	328	1	104
E-4R6017	334	1	106
E-4R6015	334	1	125
E-4R6020	332	2	130

Note: **Drawing 1** represents a bearing with solid rollers and machined cage; **Drawing 2** represents a bearing with hollow rollers and pin type cage.





Drawing 1



Drawing 2

d 300 ~ 460mm

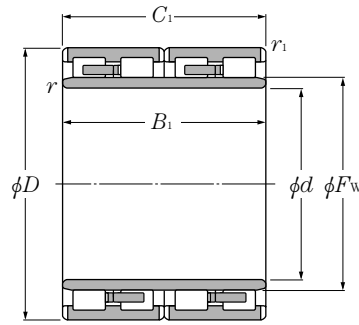
d	Boundary dimensions					Basic load ratings			
	D	B <sub>1</sub>	C <sub>1</sub>	r <sub>s min</sub> <sup>1)</sup>	r <sub>1s min</sub> <sup>1)</sup>	dynamic C <sub>r</sub> kN	static C <sub>0r</sub>	dynamic C <sub>r</sub> kgf	static C <sub>0r</sub>
300	420	320	300	3	3	2 900	7 850	295 000	800 000
	460	270	270	3	3	2 510	5 350	256 000	545 000
310	430	240	240	3	3	2 240	5 950	228 000	605 000
320	440	240	230	3	3	2 290	6 050	234 000	615 000
	450	240	240	3	3	2 370	6 150	242 000	630 000
	460	340	340	3	3	3 400	9 450	345 000	960 000
	470	350	350	3	3	4 150	10 900	425 000	1 110 000
330	440	200	200	3	3	1 820	4 850	186 000	495 000
	460	340	340	4	4	3 250	8 850	330 000	905 000
340	480	370	350	5	5	3 450	9 650	350 000	985 000
	490	300	300	4	4	3 350	8 300	340 000	845 000
360	510	400	400	5	5	4 250	11 500	435 000	1 170 000
370	480	230	230	5	5	2 100	6 250	214 000	635 000
	520	400	400	5	5	4 650	13 500	475 000	1 370 000
380	520	280	280	4	4	3 400	9 150	350 000	935 000
	520	300	300	4	4	3 550	9 600	360 000	980 000
	540	400	400	4	4	5 200	15 200	530 000	1 550 000
400	560	400	400	5	5	4 250	11 800	430 000	1 210 000
	560	410	410	4	4	5 750	17 000	585 000	1 730 000
410	546	400	400	5	5	4 200	12 700	430 000	1 290 000
420	560	280	280	4	4	3 150	8 750	320 000	895 000
	580	230	230	4	4	2 430	6 250	248 000	635 000
	620	400	400	5	5	5 000	13 400	510 000	1 360 000
440	620	450	450	5	5	6 450	18 700	660 000	1 910 000
460	620	400	400	4	4	5 350	16 700	545 000	1 700 000
	620	400	400	4	4	4 950	15 000	505 000	1 530 000
	650	470	470	5	5	7 150	20 600	730 000	2 100 000

1) Minimal allowable dimension for chamfer dimension  $r$  or  $r_1$ . 2) Oil inlet and oil groove are in center of the outer ring; no oil groove on the side. 3) Oil inlet in space of outer ring; no oil groove. 4) One-piece inner ring.

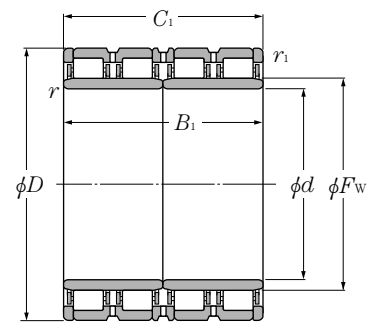
Bearing numbers	Dimensions $F_w$	Drawing no.	Mass
			kg (approx.)
<b>E-4R6018</b>	332	2	136
<b>E-4R6019</b>	344	1	162
<b>E-4R6202</b>	344.5	1	108
<b>E-4R6414</b>	351	1	106
<b>E-4R6411</b>	358	1	125
<b>E-4R6412</b>	360	1	178
<b>E-4R6406</b>	361.7	2	212
<b>E-4R6603</b>	360	1 <sup>2)</sup>	83.6
<b>E-4R6605</b>	365	1	181
<b>E-4R6811</b>	378	1	198
<b>E-4R6804</b>	377	1	187
<b>E-4R7203</b>	397	1 <sup>2)</sup>	262
<b>E-4R7405</b>	400	1	106
<b>E-4R7404</b>	409	1	273
<b>E-4R7605</b>	417	1	174
<b>E-4R7607</b>	416	2 <sup>3)</sup>	210
<b>E-4R7604</b>	422	2 <sup>3)</sup>	325
<b>E-4R8007</b>	446	1	303
<b>E-4R8010</b>	445	2	349
<b>E-4R8201</b>	444	1 <sup>2)</sup>	256
<b>E-4R8403</b>	457	1	189
<b>E-4R8404</b>	466	1	181
<b>E-4R8401</b>	478	1	410
<b>E-4R8801</b>	487	2	437
<b>E-4R9211</b>	502	2 <sup>3)4)</sup>	383
<b>E-4R9209</b>	502	1	341
<b>E-4R9216</b>	509	2	540

Note: **Drawing 1** represents a bearing with solid rollers and machined cage; **Drawing 2** represents a bearing with hollow rollers and pin type cage.





Drawing 1



Drawing 2

d 480 ~ 690mm

d	Boundary dimensions					Basic load ratings			
	D	B <sub>1</sub>	C <sub>1</sub>	r <sub>s min</sub> <sup>1)</sup>	r <sub>1s min</sub> <sup>1)</sup>	dynamic kN	static kN	dynamic kgf	static kgf
480	650	420	420	5	5	5 950	18 100	605 000	1 840 000
	650	450	450	9.5X20°	5	7 100	21 600	720 000	2 200 000
	680	500	500	6	6	7 950	24 000	810 000	2 450 000
500	680	420	405	5	5	7 100	22 900	725 000	2 340 000
	690	470	470	5	5	7 650	22 500	780 000	2 290 000
	690	510	510	5	5	7 750	24 600	790 000	2 500 000
	700	515	515	5	5	7 900	24 100	805 000	2 450 000
	710	480	480	6	6	8 650	24 700	880 000	2 520 000
510	670	320	320	5	5	4 550	13 500	465 000	1 380 000
	700	540	540	6	6	8 300	25 000	845 000	2 550 000
520	700	540	540	6	6	8 200	25 500	835 000	2 600 000
	735	535	535	5	5	9 000	26 600	915 000	2 710 000
530	700	540	540	6	6	7 850	25 400	800 000	2 590 000
	760	520	520	6	6	9 150	26 700	935 000	2 730 000
	780	570	570	6	6	10 300	29 100	1 050 000	2 970 000
550	800	520	520	6	6	9 450	27 000	965 000	2 750 000
560	680	360	360	3	3	4 650	16 500	475 000	1 680 000
570	815	594	594	6	6	11 800	34 500	1 200 000	3 500 000
600	820	575	575	12X20°	6	10 000	31 500	1 020 000	3 200 000
	870	540	540	7.5	7.5	10 600	29 600	1 090 000	3 000 000
	870	640	640	7.5	7.5	13 600	40 500	1 390 000	4 150 000
610	870	660	660	9.5	7.5	12 600	40 000	1 280 000	4 100 000
650	920	670	670	7.5	4	14 600	46 000	1 490 000	4 700 000
	920	690	690	7.5	7.5	14 300	46 500	1 460 000	4 750 000
660	820	440	440	5	4	7 300	27 800	745 000	2 840 000
690	980	715	715	7.5	7.5	16 800	54 500	1 720 000	5 550 000

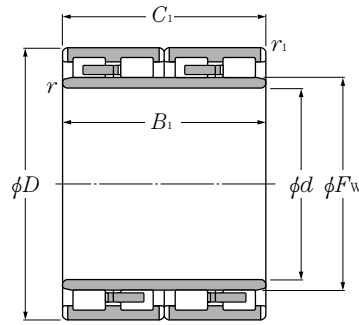
1) Minimal allowable dimension for chamfer dimension  $r$  or  $r_1$ . 2) Oil inlet and oil groove are in center of the outer ring; no oil groove on the side.  
3) Oil inlet in space of outer ring; no oil groove.

Bearing numbers	Dimensions	Drawing no.	Mass kg (approx.)
	$F_w$		
<b>E-4R9607</b>	523	2 <sup>1)</sup>	369
<b>E-4R9609</b>	525	2 <sup>1)</sup>	395
<b>E-4R9604</b>	532	2	640
<b>E-4R10010</b>	550	2 <sup>3)</sup>	495
<b>E-4R10016</b>	547	2	590
<b>E-4R10006</b>	552	2	640
<b>E-4R10011</b>	554	2	680
<b>E-4R10008</b>	556	2	675
<b>E-4R10015</b>	568	2	780
<b>E-4R10201</b>	554	2 <sup>1)</sup>	335
<b>E-4R10202</b>	558	2	689
<b>E-4R10403</b>	564	2	658
<b>E-4R10402</b>	574.5	2	740
<b>E-4R10603</b>	574	2	626
<b>E-4R10601</b>	590	2	800
<b>E-4R10602</b>	601	2	1 010
<b>E-4R11001</b>	622	2	965
<b>E-4R11202</b>	590	1	265
<b>E-4R11402</b>	628	2	1 040
<b>E-4R12003</b>	655	2	980
<b>E-4R12002</b>	672	2	1 150
<b>E-4R12001</b>	672	2	1 330
<b>E-4R12202</b>	680	2 <sup>2)</sup>	1 400
<b>E-4R13005</b>	723	2	1 500
<b>E-4R13003</b>	723	2	1 550
<b>E-4R13201</b>	702	2	580
<b>E-4R13802</b>	767.5	2	1 850

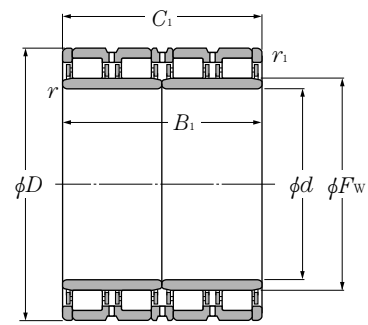
4) One-piece inner ring. Note: **Drawing 1** represents a bearing with solid rollers and machined cage; **Drawing 2** represents a bearing with hollow rollers and pin type cage.







Drawing 1



Drawing 2

$d$  700 ~ 1 200mm

$d$	Boundary dimensions					Basic load ratings			
	$D$	$B_1$	$C_1$	$r_{s \min}^{1)}$	$r_{1s \min}^{1)}$	dynamic kN $C_r$	static $C_{or}$	dynamic kgf $C_r$	static $C_{or}$
<b>700</b>	930	620	620	15X20°	6	12 900	43 000	1 320 000	4 400 000
<b>710</b>	1 000	715	715	9.5	6	16 800	54 500	1 710 000	5 550 000
<b>725</b>	1 000	700	700	6	6	15 900	53 500	1 620 000	5 450 000
<b>750</b>	1 050	745	720	7.5	7.5	17 600	58 000	1 790 000	5 900 000
	1 090	745	720	7.5	7.5	19 100	60 500	1 950 000	6 150 000
<b>760</b>	1 030	750	750	7.5	7.5	17 300	59 500	1 760 000	6 050 000
	1 080	805	790	6	6	18 700	61 000	1 900 000	6 250 000
	1 100	745	720	7.5	7.5	19 100	60 500	1 950 000	6 150 000
<b>800</b>	1 080	700	700	7.5	7.5	16 500	55 000	1 680 000	5 600 000
	1 080	750	750	6	6	17 300	59 000	1 760 000	6 000 000
<b>820</b>	1 130	800	800	7.5	7.5	19 600	66 500	2 000 000	6 800 000
	1 130	825	800	7.5	7.5	19 600	66 500	2 000 000	6 800 000
	1 160	840	840	7.5	7.5	21 600	71 000	2 200 000	7 250 000
<b>840</b>	1 160	840	840	5	7.5	21 600	71 000	2 200 000	7 250 000
<b>850</b>	1 150	650	650	9.5	9.5	15 700	51 000	1 610 000	5 200 000
	1 150	800	800	6	6	19 700	71 000	2 010 000	7 250 000
	1 180	650	650	7.5	7.5	16 400	51 500	1 670 000	5 250 000
	1 180	850	850	9.5	9.5	24 100	78 500	2 460 000	8 000 000
<b>860</b>	1 160	735	710	6	6	17 800	62 500	1 810 000	6 400 000
<b>900</b>	1 230	895	870	7.5	7.5	24 700	88 000	2 520 000	9 000 000
<b>920</b>	1 280	865	850	7.5	7.5	26 200	88 500	2 670 000	9 000 000
<b>1000</b>	1 310	880	880	9.5	9.5	23 400	88 500	2 380 000	9 000 000
	1 360	800	800	7.5	7.5	25 000	85 000	2 550 000	8 650 000
<b>1030</b>	1 380	850	850	7.5	7.5	24 400	89 000	2 490 000	9 100 000
<b>1200</b>	1 590	1 050	1 050	7.5	7.5	36 000	133 000	3 650 000	13 600 000

1) Minimal allowable dimension for chamfer dimension  $r$  or  $r_1$ . 2) Inner ring is divided into four. 3) The oil hole of the outer ring is provided with fitting nozzle for oil mist.

Bearing numbers	Dimensions	Drawing no.	Mass kg (approx.)
	$F_w$		
E-4R14003	763	2	1 200
E-4R14205	787.5	2 <sup>3)</sup>	1 900
E-4R14501	796	2	1 730
E-4R15001	830	2 <sup>3)</sup>	2 180
E-4R15002	845	2 <sup>3)</sup>	2 530
E-4R15204	828	2 <sup>3)</sup>	2 000
E-4R15207	845	2 <sup>3)</sup>	2 550
E-4R15203	855	2 <sup>3)</sup>	2 560
E-4R16004	870	2	1 950
E-4R16005	880	2	2 090
E-4R16406	903	2 <sup>3)</sup>	2 450
E-4R16405	903	2	2 520
E-4R16403	910	2	2 930
E-4R16801	920	2	2 840
E-4R17001	941	2	1 980
E-4R17003	930	2	2 430
E-4R17004	945	2	2 270
E-4R17002	928	2	2 970
E-4R17201	940	2	2 310
E-4R18001	985	2 <sup>3)</sup>	3 250
E-4R18401	1 015	2	3 560
E-4R20001	1 080	2	3 260
E-4R20002	1 090	2	3 530
E-4R20601	1 124	2	3 800
E-4R24002	1 295	2 <sup>3)</sup>	6 220

Note: **Drawing 2** represents a bearing with hollow rollers and pin type cage.

