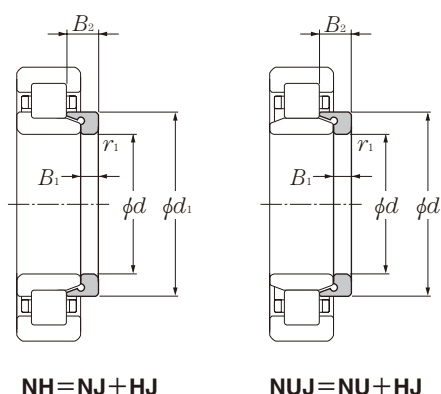


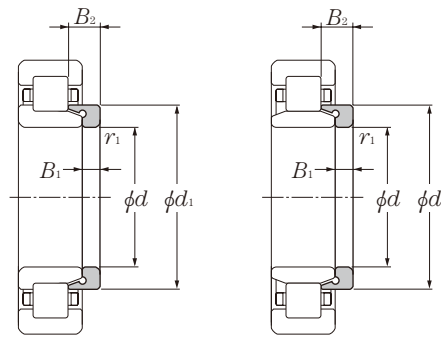
L type collar ring



d 20 ~ 60mm

Dimensions mm						Bearing numbers	Mass kg
d	d_1	B_1	B_2	$r_{1s \min}^{1)}$			(approx.)
20	29.9	3	6.75	0.6		HJ204	0.012
	29.5	3	5.5	0.6		HJ204E	0.009
	29.9	3	7.5	0.6		HJ2204	0.013
	29.5	3	6.5	0.6		HJ2204E	0.01
	31.8	4	7.5	0.6		HJ304	0.017
	31.1	4	6.5	0.6		HJ304E	0.014
	31.8	4	8.5	0.6		HJ2304	0.018
	31.1	4	7.5	0.6		HJ2304E	0.015
25	34.8	3	7.25	0.6		HJ205	0.015
	34.5	3	6.	0.6		HJ205E	0.012
	34.8	3	7.5	0.6		HJ2205	0.015
	34.5	3	6.5	0.6		HJ2205E	0.013
	39	4	8	1.1		HJ305	0.025
	38	4	7	1.1		HJ305E	0.021
	39	4	9	1.1		HJ2305	0.027
	38	4	8	1.1		HJ2305E	0.024
30	43.6	6	10.5	1.5		HJ405	0.057
	41.7	4	8.25	0.6		HJ206	0.025
	41.1	4	7	0.6		HJ206E	0.017
	41.7	4	8.5	0.6		HJ2206	0.025
	41.1	4	7.5	0.6		HJ2206E	0.02
	45.9	5	9.5	1.1		HJ306	0.039
	44.9	5	8.5	1.1		HJ306E	0.035
	45.9	5	11.5	1.1		HJ2306	0.043
35	44.9	5	9.5	1.1		HJ2306E	0.035
	50.5	7	11.5	1.5		HJ406	0.08
	47.6	4	8	0.6		HJ207	0.03
	48	4	7	0.6		HJ207E	0.027
	47.6	4	8.5	0.6		HJ2207	0.031
	48	4	8.5	0.6		HJ2207E	0.031
	50.8	6	11	1.1		HJ307	0.056
	51	6	9.5	1.1		HJ307E	0.048
40	50.8	6	14	1.1		HJ2307	0.064
	51	6	11	1.1		HJ2307E	0.055
	59	8	13	1.5		HJ407	0.12
	54.2	5	9	1.1		HJ208	0.046
	53.9	5	8.5	1.1		HJ208E	0.042
	54.2	5	9.5	1.1		HJ2208	0.047
	53.9	5	9	1.1		HJ2208E	0.045
	58.4	7	12.5	1.5		HJ308	0.083
45	57.6	7	11	1.5		HJ308E	0.07
	58.4	7	14.5	1.5		HJ2308	0.09
	57.6	7	12.5	1.5		HJ2308E	0.08
	64.8	8	13	2		HJ408	0.14
	59	5	9.5	1.1	*	HJ209	0.053
	58.9	5	8.5	1.1		HJ209E	0.047
	58.9	5	9	1.1		HJ2209E	0.05
	64	7	12.5	1.5		HJ309	0.099
50	64.5	7	11.5	1.5		HJ309E	0.093
	64	7	15	1.5		HJ2309	0.109
	64.5	7	13	1.5		HJ2309E	0.103
	71.8	8	13.5	2		HJ409	0.175
	64.6	5	10	1.1		HJ210	0.063
	63.9	5	9	1.1	*	HJ210E	0.055
	64.6	5	9.5	1.1		HJ2210	0.061
	71	8	14	2		HJ310	0.142
55	71.4	8	13	2		HJ310E	0.134
	71	8	17	2		HJ2310	0.157
	71.4	8	14.5	2		HJ2310E	0.15
	78.8	9	14.5	2.1		HJ410	0.23
	70.8	6	11	1.1	*	HJ211	0.084
	70.8	6	9.5	1.1		HJ211E	0.072
	70.8	6	10	1.1		HJ2211E	0.076
	77.2	9	15	2		HJ311	0.182
60	77.7	9	14	2		HJ311E	0.168
	77.2	9	18.5	2		HJ2311	0.203
	77.7	9	15.5	2		HJ2311E	0.185
	85.2	10	16.5	2.1		HJ411	0.29
	78.4	6	11	1.5	*	HJ212	0.108
	77.6	6	10	1.5	*	HJ212E	0.094

1) Minimal allowable dimension for chamfer dimension r . Note: 1. This L type collar ring is used with **NU** type cylindrical roller bearings; in duplex arrangements with **NJ** or **NU** type bearing numbers, they become **NH** type and **NUJ** type respectively. For bearing dimensions, allowable rotations, and mass, please refer to pages B-94 to B-98. 2. " * " indicates L type collar rings that can also be used with dimension series **22** bearings.



NH = NJ + HJ

NUJ = NU + HJ

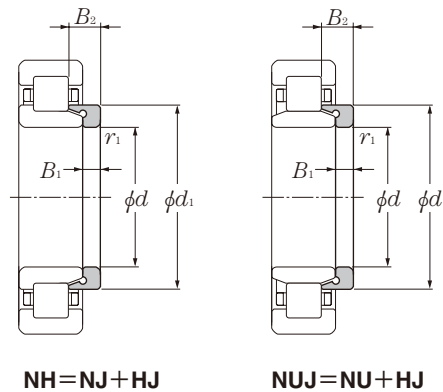
d 60 ~ 105mm

Dimensions mm					Bearing numbers	Mass kg
d	d_1	B_1	B_2	$r_{1s \min}^{1)}$		(approx.)
60	84.2	9	15.5	2.1	HJ312	0.22
	84.6	9	14.5	2.1	HJ312E	0.205
	84.2	9	19	2.1	HJ2312	0.245
	84.6	9	16	2.1	HJ2312E	0.23
	91.8	10	16.5	2.1	HJ412	0.34
65	84.8	6	11	1.5	HJ213	0.123
	84.5	6	10	1.5	HJ213E	0.111
	84.8	6	11.5	1.5	HJ2213	0.126
	84.5	6	10.5	1.5	HJ2213E	0.118
	91	10	17	2.1	HJ313	0.28
	91	10	15.5	2.1	HJ313E	0.25
	91	10	20	2.1	HJ2313	0.304
	91	10	18	2.1	HJ2313E	0.29
70	98.5	11	18	2.1	HJ413	0.42
	89.6	7	12.5	1.5	* HJ214	0.15
	89.5	7	11	1.5	HJ214E	0.13
	89.5	7	11.5	1.5	HJ2214E	0.138
	98	10	17.5	2.1	HJ314	0.33
	98	10	15.5	2.1	HJ314E	0.293
	98	10	20.5	2.1	HJ2314	0.358
	98	10	18.5	2.1	HJ2314E	0.35
75	110.5	12	20	3	HJ414	0.605
	94	7	12.5	1.5	* HJ215	0.156
	94.5	7	11	1.5	HJ215E	0.141
	94.5	7	11.5	1.5	HJ2215E	0.164
	104.2	11	18.5	2.1	HJ315	0.4
	104.6	11	16.5	2.1	HJ315E	0.35
	104.2	11	21.5	2.1	HJ2315	0.432
	104.6	11	19.5	2.1	HJ2315E	0.41
80	116.0	13	21.5	3	HJ415	0.71
	101.2	8	13.5	2	* HJ216	0.207
	101.7	8	12.5	2	* HJ216E	0.193
	111.8	11	19.5	2.1	HJ316	0.47
	111	11	17	2.1	HJ316E	0.405
	111.8	11	23	2.1	HJ2316	0.511

Dimensions mm					Bearing numbers	Mass kg
d	d_1	B_1	B_2	$r_{1s \min}^{1)}$		(approx.)
80	111	11	20	2.1	HJ2316E	0.45
	122	13	22	3	HJ416	0.78
85	108.2	8	14	2	* HJ217	0.25
	107.7	8	12.5	2	HJ217E	0.21
	107.7	8	13	2	HJ2217E	0.216
	117.5	12	20.5	3	HJ317	0.56
	118.4	12	18.5	3	HJ317E	0.505
	117.5	12	24	3	HJ2317	0.606
90	118.4	12	22	3	HJ2317E	0.55
	114.2	9	15	2	HJ218	0.305
	114.6	9	14	2	HJ218E	0.272
	114.2	9	16	2	HJ2218	0.315
	114.6	9	15	2	HJ2218E	0.308
	125	12	21	3	HJ318	0.63
95	124.7	12	18.5	3	HJ318E	0.548
	125	12	26	3	HJ2318	0.704
	124.7	12	22	3	HJ2318E	0.69
	121	9	15.5	2.1	HJ219	0.352
	121	9	14.0	2.1	HJ219E	0.304
	121	9	16.5	2.1	HJ2219	0.363
100	121	9	15.5	2.1	HJ2219E	0.335
	132	13	22.5	3	HJ319	0.76
	132.7	13	20.5	3	HJ319E	0.7
	132	13	26.5	3	HJ2319	0.826
	132.7	13	24.5	3	HJ2319E	0.8
	128	10	17	2.1	HJ220	0.444
105	128	10	15	2.1	HJ220E	0.38
	128	10	18	2.1	HJ2220	0.456
	128	10	16	2.1	HJ2220E	0.385
	140.5	13	22.5	3	HJ320	0.895
	140.3	13	20.5	3	HJ320E	0.8
	140.5	13	27.5	3	HJ2320	0.986
	140.3	13	23.5	3	HJ2320E	0.92
105	135.0	10	17.5	2.1	HJ221	0.505

1) Minimal allowable dimension for chamfer dimension r . Note: 1. This L type collar ring is used with **NU** type cylindrical roller bearings; in duplex arrangements with **NJ** or **NU** type bearing numbers, they become **NH** type and **NUJ** type respectively. For bearing dimensions, allowable rotations, and mass, please refer to pages **B-98** to **B-102**. 2. " * " indicates L type collar rings that can also be used with dimension series **22** bearings.

L type collar ring

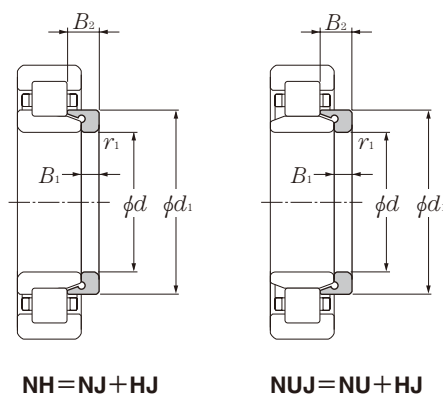


d 105 ~ 200mm

Dimensions mm					Bearing numbers	Mass kg (approx.)
d	d ₁	B ₁	B ₂	r _{1s min} ¹⁾		
105	147.0	13	22.5	3	HJ321	0.97
110	141.5	11	18.5	2.1	HJ222	0.615
	142.1	11	17	2.1	HJ222E	0.553
	141.5	11	20.5	2.1	HJ2222	0.645
	142.1	11	19.5	2.1	HJ2222E	0.605
	155.5	14	23	3	HJ322	1.17
	156.6	14	22	3	HJ322E	1.09
	155.5	14	28	3	HJ2322	1.28
120	156.6	14	26.5	3	HJ2322E	1.25
	153	11	19	2.1	HJ224	0.715
	153.9	11	17	2.1	HJ224E	0.634
	153	11	22	2.1	HJ2224	0.767
	153.9	11	20	2.1	HJ2224E	0.705
	168.5	14	23.5	3	HJ324	1.4
	169.2	14	22.5	3	HJ324E	1.28
130	168.5	14	28	3	HJ2324	1.53
	169.2	14	26	3	HJ2324E	1.42
	165.5	11	19	3	HJ226	0.84
	164.7	11	17	3	HJ226E	0.684
	165.5	11	25	3	HJ2226	0.953
	164.7	11	21	3	HJ2226E	0.831
	182	14	24	4	HJ326	1.62
140	183	14	23	4	HJ326E	1.53
	182	14	29.5	4	HJ2326	1.8
	183	14	28	4	HJ2326E	1.75
	179.5	11	19	3	HJ228	1
	180.2	11	18	3	HJ228E	0.929
	179.5	11	25	3	HJ2228	1.14
	180.2	11	23	3	HJ2228E	1.11
150	196	15	26	4	HJ328	1.93
	196.8	15	25	4	HJ328E	1.91
	196	15	33.5	4	HJ2328	2.21
	196.8	15	31	4	HJ2328E	2.3
	193	12	20.5	3	HJ230	1.24

Dimensions mm					Bearing numbers	Mass kg (approx.)
d	d ₁	B ₁	B ₂	r _{1s min} ¹⁾		
150	194	12	19.5	3	HJ230E	1.18
	193	12	26.5	3	HJ2230	1.39
	194	12	24.5	3	HJ2230E	1.42
	210	15	26.5	4	HJ330	2.37
	211	15	25	4	HJ330E	2.25
	210	15	34	4	HJ2330	2.69
	211	15	31.5	4	HJ2330E	2.6
160	207	12	21	3	HJ232	1.48
	207.8	12	20	3	HJ232E	1.34
	207	12	28	3	HJ2232	1.69
	206.6	12	24.5	3	HJ2232E	1.61
	225	15	28	4	HJ332	2.75
	223.2	15	25	4	HJ332E	2.4
	225	15	37	4	HJ2332	3.16
170	223.2	15	32	4	HJ2332E	2.85
	220.5	12	22	4	HJ234	1.7
	221.4	12	20	4	HJ234E	1.51
	220.5	12	29	4	HJ2234	1.93
	220.2	12	24	4	HJ2234E	1.82
	238	16	29.5	4	HJ334	3.25
	238	16	38.5	4	HJ2334	3.71
180	230.5	12	22	4	HJ236	1.8
	231.4	12	20	4	HJ236E	1.7
	230.5	12	29	4	HJ2236	2.04
	230.2	12	24	4	HJ2236E	1.91
	252	17	30.5	4	HJ336	3.85
	252	17	40	4	HJ2336	4.42
190	244.5	13	23.5	4	HJ238	2.2
	245.2	13	21.5	4	HJ238E	1.94
	244.5	13	31.5	4	HJ2238	2.52
	244	13	26.5	4	HJ2238E	2.38
	265	18	32	5	HJ338	4.45
	265	18	41.5	5	HJ2338	5.05
200	258	14	25	4	HJ240	2.6

1) Minimal allowable dimension for chamfer dimension r . Note: 1. This L type collar ring is used with **NU** type cylindrical roller bearings; in duplex arrangements with **NJ** or **NU** type bearing numbers, they become **NH** type and **NUJ** type respectively. For bearing dimensions, allowable rotations, and mass, please refer to pages **B-102** to **B-108**. 2. " * " indicates L type collar rings that can also be used with dimension series **22** bearings.



d 200 ~ 320mm

Dimensions					Bearing numbers	Mass
mm						kg
d	d_1	B_1	B_2	$r_{1s\min}^{1)}$		(approx.)
200	259	14	23	4	HJ240E	2.35
	258	14	34	4	HJ2240	2.99
	257.8	14	28	4	HJ2240E	2.86
	280	18	33	5	HJ340	5
	280	18	44.5	5	HJ2340	5.76
220	286	15	27.5	4	HJ244	3.55
	307	20	36	5	HJ344	7.05
240	313	16	29.5	4	HJ248	4.65
	335	22	39.5	5	HJ348	8.2
260	340	18	33	5	HJ252	6.2
	362	24	43	6	HJ352	11.4
280	360	18	33	5	HJ256	7.39
	390	26	46	6	HJ356	13.9
300	387	20	34.5	5	HJ260	9.14
320	415	21	37	5	HJ264	11.3

1) Minimal allowable dimension for chamfer dimension *r*. Note: 1. This L type collar ring is used with **NU** type cylindrical roller bearings; in duplex arrangements with **NJ** or **NU** type bearing numbers, they become **NH** type and **NUJ** type respectively. For bearing dimensions, allowable rotations, and mass, please refer to pages **B-108** to **B-111**. 2. " * " indicates L type collar rings that can also be used with dimension series **22** bearings.