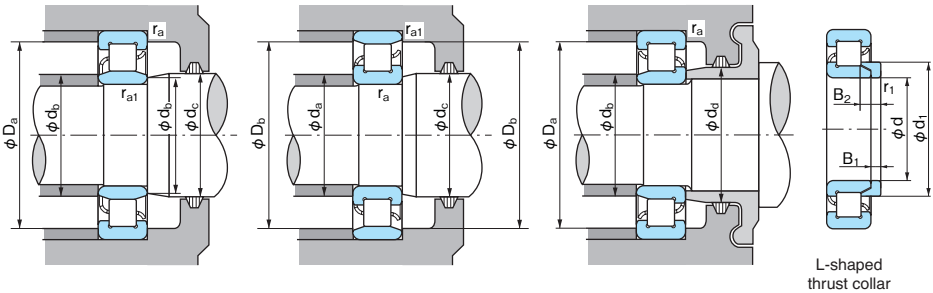
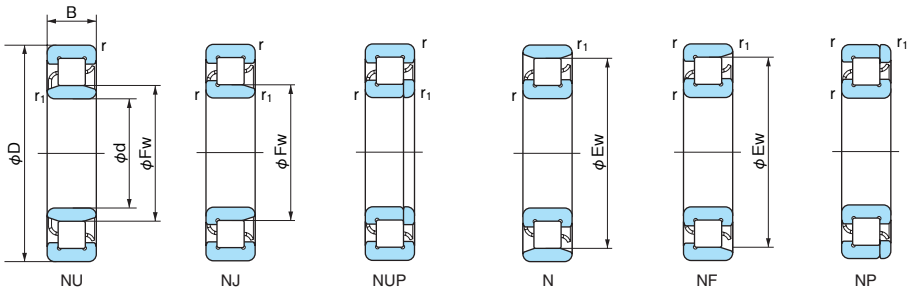


Cylindrical Roller Bearings

Bore Diameter: 17~30mm

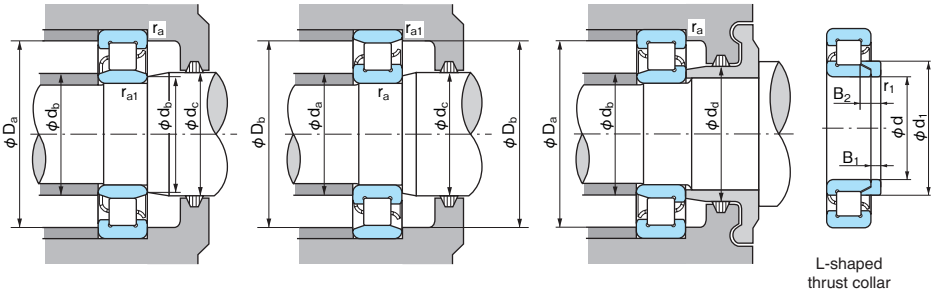
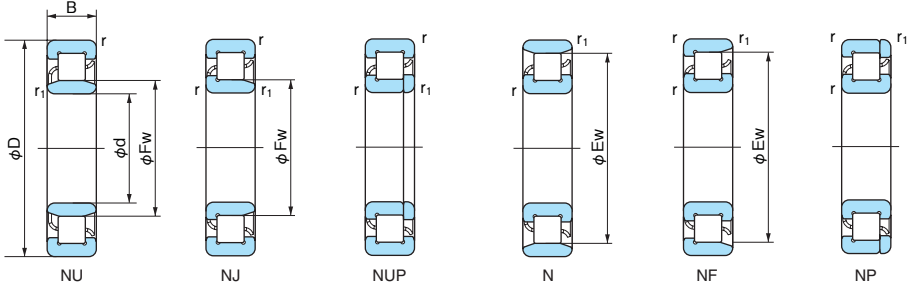


1N=0.102kgf																																				
Boundary dimensions (mm)							Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Limiting speed (min ⁻¹)(¹)		Abutment and fillet dimensions (mm)								Mass (kg)		Dimensions of L-shaped thrust collar (mm)									
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	NP			Grease lubrication	Oil lubrication		da (min)	db (min)	dc (min)	dd (min)	Da (max)	Db (max)	ra (min)	ra1 (max)	NU	N	Bearing No.	d	d1 (max)	B1	B2	r1 (min)	Mass (kg) Reference		
17	40	12	33.9	22.9	0.6	0.3	NU 203	NJ	NUP	N	NF	NP	12600	7950	16000	19000		22	19	22	24	25	35	34	34	0.6	0.3	0.082	0.080	—	—	—	—	—	—	—
20	47	14	40	27	1	0.6	NU 204	NJ	NUP	N	NF	NP	15400	12700	15000	18000		26	25	26	29	32	41	42	42	1	0.6	0.112	0.110	HJ 204	20	30	3	6.75	0.6	0.012
	47	14	—	26.5	1	0.6	NU 204 E	NJ	NUP	—	—	—	25700	22600	13000	16000		—	25	26	29	32	41	—	—	1	0.6	0.124	—	HJ 204 E	20	29.8	3	5.5	0.6	0.011
	47	18	—	27	1	0.6	NU 2204	NJ	NUP	—	—	—	20700	18400	14000	17000		—	25	26	29	32	41	—	—	1	0.6	0.144	—	HJ 2204	20	30	3	7.5	0.6	0.012
	47	18	—	26.5	1	0.6	NU 2204 E	NJ	NUP	—	—	—	30500	28300	13000	16000		—	25	26	29	32	41	—	—	1	0.6	0.162	—	HJ 2204 E	20	29.8	3	6.5	0.6	0.011
	52	15	44.5	28.5	1.1	0.6	NU 304	NJ	NUP	N	NF	NP	21400	17300	12000	15000		27	25	27	30	33	45	47	47	1	0.6	0.154	0.150	HJ 304	20	31.8	4	7.5	0.6	0.017
	52	15	—	27.5	1.1	0.6	NU 304 EG	NJ	NUP	—	—	—	31500	26900	12000	15000		—	25	27	30	33	45	—	—	1	0.6	0.150	—	HJ 304 E	20	31.4	4	6.5	0.6	0.016
	52	21	—	28.5	1.1	0.6	NU 2304	NJ	NUP	—	—	—	30500	27200	11000	14000		—	25	27	30	33	45	—	—	1	0.6	0.213	—	HJ 2304	20	31.8	4	8.5	0.6	0.018
52	21	—	27.5	1.1	0.6	NU 2304 E	NJ	NUP	—	—	—	42000	39000	11000	14000		—	25	27	30	33	45	—	—	1	0.6	0.240	—	HJ 2304 E	20	31.4	4	7.5	0.6	0.017	
25	47	12	41.5	30.5	0.6	0.3	NU 1005	—	—	N	—	—	14300	13100	15000	18000		29	27.5	30	32	—	42	45	41.8	0.6	0.3	0.086	0.084	—	—	—	—	—	—	—
	52	15	45	32	1	0.6	NU 205	NJ	NUP	N	NF	NP	17700	15700	13000	16000		31	30	31	34	37	46	47	47	1	0.6	0.133	0.130	HJ 205	25	35	3	7.25	0.6	0.015
	52	15	—	31.5	1	0.6	NU 205 EG	NJ	NUP	—	—	—	29300	27700	12000	14000		—	30	31	34	37	46	—	—	1	0.6	0.140	—	HJ 205 E	25	34.8	3	6	0.6	0.013
	52	18	—	32	1	0.6	NU 2205	NJ	NUP	—	—	—	24300	23500	12000	14000		—	30	31	34	37	46	—	—	1	0.6	0.163	—	HJ 2205	25	35	3	7.5	0.6	0.016
	52	18	—	31.5	1	0.6	NU 2205 EG	NJ	NUP	—	—	—	35000	34500	12000	14000		—	30	31	34	37	46	—	—	1	0.6	0.185	—	HJ 2205 E	25	34.8	3	6.5	0.6	0.015
	62	17	53	35	1.1	1.1	NU 305	NJ	NUP	N	NF	NP	29300	25200	10000	13000		32	32	33	37	40	55	55	55	1	1	0.238	0.230	HJ 305	25	39	4	8	1.1	0.027
	62	17	—	34	1.1	1.1	NU 305 EG	NJ	NUP	—	—	—	41500	37500	10000	12000		—	32	33	37	40	55	—	—	1	1	0.240	—	HJ 305 E	25	38.2	4	7	1.1	0.024
	62	24	—	35	1.1	1.1	NU 2305	NJ	NUP	—	—	—	42500	41000	9300	11000		—	32	33	37	40	55	—	—	1	1	0.340	—	HJ 2305	25	39	4	9	1.1	0.029
	62	24	—	34	1.1	1.1	NU 2305 E	NJ	NUP	—	—	—	57000	56000	9000	11000		—	32	33	37	40	55	—	—	1	1	0.390	—	HJ 2305 E	25	38.2	4	8	1.1	0.026
	80	21	62.8	38.8	1.5	1.5	NU 405	NJ	NUP	N	NF	NP	46500	40000	9000	11000		33.5	33.5	38	41	46	71.5	71.5	64	1.5	1.5	0.564	0.550	HJ 405	25	43.6	6	10.5	1.5	0.054
30	55	13	48.5	36.5	1	0.6	NU 1006	—	—	N	—	—	19700	19600	12000	15000		35	33.5	35	38	—	49	52	49	1	0.6	0.123	0.121	—	—	—	—	—	—	—
	62	16	53.5	38.5	1	0.6	NU 206	NJ	NUP	N	NF	NP	23500	21500	11000	13000		36	35	37	40	44	56	57	56	1	0.6	0.204	0.200	HJ 206	30	41.8	4	8.25	0.6	0.026
	62	16	—	37.5	1	0.6	NU 206 EG	NJ	NUP	—	—	—	39000	37500	9500	12000		—	35	37	40	44	56	—	—	1	0.6	0.210	—	HJ 206 E	30	41.4	4	7	0.6	0.024
	62	20	—	38.5	1	0.6	NU 2206	NJ	NUP	—	—	—	33000	33000	10000	12000		—	35	37	40	44	56	—	—	1	0.6	0.262	—	HJ 2206	30	41.8	4	8.5	0.6	0.026
	62	20	—	37.5	1	0.6	NU 2206 EG	NJ	NUP	—	—	—	49000	50000	9500	12000		—	35	37	40	44	56	—	—	1	0.6	0.295	—	HJ 2206 E	30	41.4	4	7.5	0.6	0.025
	72	19	62	42	1.1	1.1	NU 306	NJ	NUP	N	NF	NP	38500	35000	8500	11000		37	37	40	44	48	65	65	64	1	1	0.357	0.350	HJ 306	30	45.9	5	9.5	1.1	0.044
	72	19	—	40.5	1.1	1.1	NU 306 EG	NJ	NUP	—	—	—	53000	50000	8500	10000		—	37	40	44	48	65	—	—	1	1	0.370	—	HJ 306 E	30	45.1	5	8.5	1.1	0.041
	72	27	—	42	1.1	1.1	NU 2306	NJ	NUP	—	—	—	51500	51000	8200	9800		—	37	40	44	48	65	—	—	1	1	0.500	—	HJ 2306	30	45.9	5	11.5	1.1	0.048
	72	27	—	40.5	1.1	1.1	NU 2306 E	NJ	NUP	—	—	—	74500	77500	8000	9500		—	37	40	44	48	65	—	—	1	1	0.585	—	HJ 2306 E	30	45.1	5	9.5	1.1	0.043
	90	23	73	45	1.5	1.5	NU 406	NJ	NUP	N	NF	NP	62500	55000	7500	9500		38.5	38.5	44	47	52	81.5	81.5	74	1.5	1.5	0.770	0.750	HJ 406	30	50.5	7	11.5	1.5	0.080

Note: (1) The dimension table shows limiting speed for bearings made with machined cages. For bearings made with pressed steel cages, multiply the table limits by 0.8.

Cylindrical Roller Bearings

Bore Diameter: 50~60mm

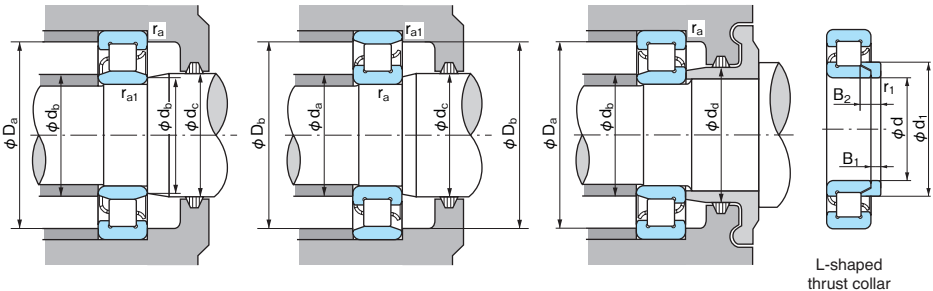
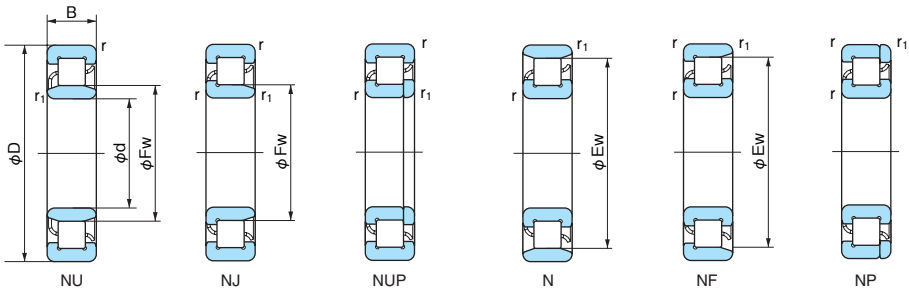


1N=0.102kgf																																				
Boundary dimensions (mm)						Bearing No.						Basic dynamic load rating Cr (N)		Basic static load rating Cor (N)		Limiting speed (min ⁻¹)(¹)		Abutment and fillet dimensions (mm)								Mass (kg)		Dimensions of L-shaped thrust collar (mm)								
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	NP							da (min)	db (min)	dc (max)	dd (min)	Da (max)	Db (max)	ra (min)	ra1 (max)	NU	N	Bearing No.	d	d1 (max)	B1	B2	r1 (min)	Mass (kg) Reference	
50	80	16	72.5	57.5	1	0.6	NU 1010	—	—	N	—	—	32000	36000	8500	10000		53	55	57	59	—	74	76	73	1	0.6	0.310	0.306	—	—	—	—	—	—	—
	90	20	80.4	60.4	1.1	1.1	NU 210	NJ	NUP	N	NF	NP	48000	51000	7100	8500		57	57	58	62	67	83	83	1	1	0.481	0.470	HJ 210	50	64.6	5	10	1.1	0.063	
	90	20	—	59.5	1.1	1.1	NU 210EG	NJ	NUP	—	—	—	69000	76500	6400	7700		—	57	58	62	67	83	—	—	1	1	0.490	—	HJ 210E	50	64.1	5	9	1.1	0.059
	90	23	—	60.4	1.1	1.1	NU 2210	NJ	NUP	—	—	—	64000	73500	6500	8000		—	57	58	62	67	83	—	—	1	1	0.580	—	HJ 2210	50	64.6	5	9.5	1.1	0.062
	90	23	—	59.5	1.1	1.1	NU 2210EG	NJ	NUP	—	—	—	83500	97000	6400	8000		—	57	58	62	67	83	—	—	1	1	0.632	—	HJ 2210E	50	64.1	5	9	1.1	0.059
	110	27	95	65	2	2	NU 310	NJ	NUP	N	NF	NP	87000	86000	5600	6700		60	60	63	67	73	100	100	98	2	2	1.17	1.14	HJ 310	50	71	8	14	2	0.145
	110	27	—	65	2	2	NU 310EG	NJ	NUP	—	—	—	110000	113000	5400	6500		—	60	63	67	73	100	—	—	2	2	1.17	—	HJ 310E	50	71.4	8	13	2	0.145
	110	40	—	65	2	2	NU 2310	NJ	NUP	—	—	—	121000	131000	5400	6500		—	60	63	67	73	100	—	—	2	2	1.69	—	HJ 2310	50	71	8	17	2	0.159
	110	40	—	65	2	2	NU 2310E	NJ	NUP	—	—	—	163000	187000	5400	6500		—	60	63	67	73	100	—	—	2	2	1.85	—	HJ 2310E	50	71.4	8	14.5	2	0.152
130	31	110.8	70.8	2.1	2.1	NU 410	NJ	NUP	N	NF	NP	138000	136000	5000	6000		62	62	69	73	81	118	118	112	2	2	2.05	2.01	HJ 410	50	78.8	9	14.5	2.1	0.230	
55	90	18	80.5	64.5	1.1	1	NU 1011	—	—	N	—	—	37500	44000	7500	9000		61.5	61	63	66	—	83	85	81.5	1	1	0.449	0.445	—	—	—	—	—	—	
	100	21	88.5	66.5	1.5	1.1	NU 211	NJ	NUP	N	NF	NP	58000	62500	6300	7500		63.5	62	65	68	73	91.5	93	91	1.5	1	0.634	0.630	HJ 211	55	70.8	6	11	1.1	0.086
	100	21	—	66	1.5	1.1	NU 211EG	NJ	NUP	—	—	—	86500	98500	5800	7100		—	62	65	68	73	91.5	—	—	1.5	1	0.670	—	HJ 211E	55	70.9	6	9.5	1.1	0.083
	100	25	—	66.5	1.5	1.1	NU 2211	NJ	NUP	—	—	—	75500	87000	6200	7400		—	62	65	68	73	91.5	—	—	1.5	1	0.780	—	HJ 2211	55	70.8	6	11	1.1	0.086
	100	25	—	66	1.5	1.1	NU 2211EG	NJ	NUP	—	—	—	101000	122000	5800	7100		—	62	65	68	73	91.5	—	—	1.5	1	0.870	—	HJ 2211E	55	70.9	6	10	1.1	0.085
	120	29	104.5	70.5	2	2	NU 311	NJ	NUP	N	NF	NP	111000	111000	5000	6300		65	65	69	72	80	110	110	107	2	2	1.43	1.40	HJ 311	55	77.2	9	15	2	0.186
	120	29	—	70.5	2	2	NU 311EG	NJ	NUP	—	—	—	137000	143000	4800	5600		—	65	69	72	80	110	—	—	2	2	1.50	—	HJ 311E	55	77.6	9	14	2	0.186
	120	43	—	70.5	2	2	NU 2311	NJ	NUP	—	—	—	148000	162000	4800	5600		—	65	69	72	80	110	—	—	2	2	2.10	—	HJ 2311	55	77.2	9	18.5	2	0.206
	120	43	—	70.5	2	2	NU 2311E	NJ	NUP	—	—	—	201000	233000	4800	5600		—	65	69	72	80	110	—	—	2	2	2.35	—	HJ 2311E	55	77.6	9	15.5	2	0.195
140	33	117.2	77.2	2.1	2.1	NU 411	NJ	NUP	N	NF	NP	139000	138000	4800	5600		67	67	76	79	87	128	128	119	2	2	2.54	2.51	HJ 411	55	85.2	10	16.5	2.1	0.292	
60	95	18	85.5	69.5	1.1	1	NU 1012	—	—	N	—	—	40000	48500	6700	8500		66.5	66	68	71	—	88	90	86.5	1	1	0.484	0.477	—	—	—	—	—	—	
	110	22	97.5	73.5	1.5	1.5	NU 212	NJ	NUP	N	NF	NP	68500	75000	6000	7100		68.5	68.5	71	75	80	101.5	101.5	100	1.5	1.5	0.835	0.820	HJ 212	60	78.4	6	11	1.5	0.109
	110	22	—	72	1.5	1.5	NU 212E	NJ	NUP	—	—	—	97500	107000	5300	6300		—	68.5	71	75	80	101.5	—	—	1.5	1.5	0.921	—	HJ 212E	60	77.7	6	10	1.5	0.104
	110	28	—	73.5	1.5	1.5	NU 2212	NJ	NUP	—	—	—	96000	116000	5300	6300		—	68.5	71	75	80	101.5	—	—	1.5	1.5	1.07	—	HJ 2212	60	78.4	6	11	1.5	0.109
	110	28	—	72	1.5	1.5	NU 2212E	NJ	NUP	—	—	—	131000	157000	5300	6300		—	68.5	71	75	80	101.5	—	—	1.5	1.5	1.23	—	HJ 2212E	60	77.7	6	10	1.5	0.104
	130	31	113	77	2.1	2.1	NU 312	NJ	NUP	N	NF	NP	124000	126000	4800	5600		72	72	75	79	86	118	118	116	2	2	1.82	1.78	HJ 312	60	84.2	9	15.5	2.1	0.224
	130	31	—	77	2.1	2.1	NU 312EG	NJ	NUP	—	—	—	150000	157000	4300	5000		—	72	75	79	86	118	—	—	2	2	1.87	—	HJ 312E	60	84.5	9	14.5	2.1	0.222
	130	46	—	77	2.1	2.1	NU 2312	NJ	NUP	—	—	—	169000	188000	4300	5300		—	72	75	79	86	118	—	—	2	2	2.69	—	HJ 2312	60	84.2	9	19	2.1	0.248
	130	46	—	77	2.1	2.1	NU 2312E	NJ	NUP	—	—	—	222000	262000	4300	5300		—	72	75	79	86	118	—	—	2	2	3.01	—	HJ 2312E	60	84.5	9	16	2.1	0.232
150	35	127	83	2.1	2.1	NU 412	NJ	NUP	N	NF	NP	167000	168000	4300	5300		72	72	82	85	94	118	118	128	2	2	3.05	3.02	HJ 412	60	91.8	10	16.5	2.1	0.336	

Note: (¹) The dimension table shows limiting speed for bearings made with machined cages. For bearings made with pressed steel cages, multiply the table limits by 0.8.

Cylindrical Roller Bearings

Bore Diameter: 65~75mm



												1N=0.102kgf																									
Boundary dimensions (mm)						Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Limiting speed (min ⁻¹)(¹)		Abutment and fillet dimensions (mm)								Mass (kg)		Dimensions of L-shaped thrust collar (mm)											
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	NP			Grease lubrication	Oil lubrication		da (min)	db (min)	dc (max)	dd (min)	Da (max)	Db (max)		ra (max)	ra1 (max)	NU	N	Bearing No.	d	d1 (max)	B1	B2	r1 (min)	Mass (kg) Reference		
65	100	18	90.5	74.5	1.1	1	NU 1013	—	—	N	—	—	41000	51000	6300	8000		71.5	71	73	75	—	93	95	91.5	1	1	0.514	0.560	—	—	—	—	—	—	—	—
	120	23	105.6	79.6	1.5	1.5	NU 213	NJ	NUP	N	NF	NP	84000	94500	5300	6300		73.5	73.5	77	81	87	111.5	111.5	108	1.5	1.5	1.06	1.04	HJ 213	65	84.8	6	11	1.5	0.127	
	120	23	—	78.5	1.5	1.5	NU 213 E	NJ	NUP	—	—	—	108000	119000	4800	5600		—	73.5	77	81	87	111.5	—	—	1.5	1.5	1.18	—	HJ 213 E	65	84.5	6	10	1.5	0.123	
	120	31	—	79.6	1.5	1.5	NU 2213	NJ	NUP	—	—	—	120000	149000	4800	6000		—	73.5	77	81	87	111.5	—	—	1.5	1.5	1.43	—	HJ 2213	65	84.8	6	11.5	1.5	0.130	
	120	31	—	78.5	1.5	1.5	NU 2213 E	NJ	NUP	—	—	—	149000	181000	4800	6000		—	73.5	77	81	87	111.5	—	—	1.5	1.5	1.65	—	HJ 2213 E	65	84.5	6	10.5	1.5	0.126	
	140	33	121.5	83.5	2.1	2.1	NU 313	NJ	NUP	N	NF	NP	135000	139000	4500	5300		77	77	81	85	93	128	128	125	2	2	2.27	2.22	HJ 313	65	91	10	17	2.1	0.286	
	140	33	—	82.5	2.1	2.1	NU 313 E	NJ	NUP	—	—	—	181000	191000	4000	4800		—	77	81	85	93	128	—	—	2	2	2.55	—	HJ 313 E	65	90.6	10	15.5	2.1	0.274	
	140	48	—	83.5	2.1	2.1	NU 2313	NJ	NUP	—	—	—	188000	212000	4000	4800		—	77	81	85	93	128	—	—	2	2	3.25	—	HJ 2313	65	91	10	20	2.1	0.309	
	140	48	—	82.5	2.1	2.1	NU 2313 E	NJ	NUP	—	—	—	247000	287000	3800	4800		—	77	81	85	93	128	—	—	2	2	3.56	—	HJ 2313 E	65	90.6	10	18	2.1	0.309	
160	37	135.3	89.3	2.1	2.1	NU 413	NJ	NUP	N	NF	NP	195000	203000	4000	4800		77	77	88	91	100	148	148	137	2	2	3.68	3.58	HJ 413	65	98.5	11	18	2.1	0.417		
70	110	20	100	80	1.1	1	NU 1014	—	—	N	—	—	58500	70500	6000	7100		76.5	76	78	82	—	103	105	100.5	1	1	0.712	0.702	—	—	—	—	—	—	—	
	125	24	110.5	84.5	1.5	1.5	NU 214	NJ	NUP	N	NF	NP	83500	95000	5000	6300		78.5	78.5	82	86	92	116.5	116.5	114	1.5	1.5	1.16	1.14	HJ 214	70	89.6	7	12.5	1.5	0.154	
	125	24	—	83.5	1.5	1.5	NU 214 E	NJ	NUP	—	—	—	119000	137000	4600	5600		—	78.5	82	86	92	116.5	—	—	1.5	1.5	1.26	—	HJ 214 E	70	89.5	7	11	1.5	0.149	
	125	31	—	84.5	1.5	1.5	NU 2214	NJ	NUP	—	—	—	119000	151000	4800	5600		—	78.5	82	86	92	116.5	—	—	1.5	1.5	1.52	—	HJ 2214	70	89.6	7	12.5	1.5	0.154	
	125	31	—	83.5	1.5	1.5	NU 2214 E	NJ	NUP	—	—	—	156000	194000	4600	5600		—	78.5	82	86	92	116.5	—	—	1.5	1.5	1.68	—	HJ 2214 E	70	89.5	7	11.5	1.5	0.152	
	150	35	130	90	2.1	2.1	NU 314	NJ	NUP	N	NF	NP	158000	220000	4000	5000		82	82	87	92	100	138	138	134	2	2	2.73	2.68	HJ 314	70	98	10	17.5	2.1	0.336	
	150	35	—	89	2.1	2.1	NU 314 E	NJ	NUP	—	—	—	205000	222000	3600	4300		—	82	87	92	100	138	—	—	2	2	3.15	—	HJ 314 E	70	97.5	10	15.5	2.1	0.315	
	150	51	—	90	2.1	2.1	NU 2314	NJ	NUP	—	—	—	223000	262000	3800	4500		—	82	87	92	100	138	—	—	2	2	3.97	—	HJ 2314	70	98	10	20.5	2.1	0.362	
	150	51	—	89	2.1	2.1	NU 2314 E	NJ	NUP	—	—	—	274000	325000	3600	4500		—	82	87	92	100	138	—	—	2	2	4.30	—	HJ 2314 E	70	97.5	10	18.5	2.1	0.343	
180	42	152	100	3	3	NU 414	NJ	NUP	N	NF	NP	228000	236000	3600	4300		84	84	99	102	112	166	166	153	2.5	2.5	5.40	5.26	HJ 414	70	110.5	12	20	3	0.607		
75	115	20	105	85	1.1	1	NU 1015	—	—	N	—	—	60000	74500	5600	6700		81.5	81	83	87	—	108	110	105.5	1	1	0.745	0.735	—	—	—	—	—	—	—	
	130	25	116.5	88.5	1.5	1.5	NU 215	NJ	NUP	N	NF	NP	96500	111000	4800	6000		83.5	83.5	87	90	96	121.5	121.5	120	1.5	1.5	1.24	1.22	HJ 215	75	94	7	12.5	1.5	0.161	
	130	25	—	88.5	1.5	1.5	NU 215 E	NJ	NUP	—	—	—	130000	156000	4300	5300		—	83.5	87	90	96	121.5	—	—	1.5	1.5	1.38	—	HJ 215 E	75	94.5	7	11	1.5	0.159	
	130	31	—	88.5	1.5	1.5	NU 2215	NJ	NUP	—	—	—	130000	162000	4500	5300		—	83.5	87	90	96	121.5	—	—	1.5	1.5	1.57	—	HJ 2215	75	94	7	12.5	1.5	0.161	
	130	31	—	88.5	1.5	1.5	NU 2215 E	NJ	NUP	—	—	—	162000	207000	4300	5300		—	83.5	87	90	96	121.5	—	—	1.5	1.5	1.80	—	HJ 2215 E	75	94.5	7	11.5	1.5	0.162	
	160	37	139.5	95.5	2.1	2.1	NU 315	NJ	NUP	N	NF	NP	190000	205000	3800	4800		87	87	93	97	106	148	148	143	2	2	3.21	3.15	HJ 315	75	104.2	11	18.5	2.1	0.406	
	160	37	—	95	2.1	2.1	NU 315 E	NJ	NUP	—	—	—	240000	263000	3400	4000		—	87	93	97	106	148	—	—	2	2	3.70	—	HJ 315 E	75	104.2	11	16.5	2.1	0.389	
	160	55	—	95.5	2.1	2.1	NU 2315	NJ	NUP	—	—	—	258000	300000	3400	4300		—	87	93	97	106	148	—	—	2	2	4.84	—	HJ 2315	75	104.2	11	21.5	2.1	0.437	
	160	55	—	95	2.1	2.1	NU 2315 E	NJ	NUP	—	—	—	330000	395000	3400	4300		—	87	93	97	106	148	—	—	2	2	5.30	—	HJ 2315 E	75	104.2	11	19.5	2.1	0.421	
190	45	160.5	104.5	3	3	NU 415	NJ	NUP	N	NF	NP	262000	274000	3400	4000		89	89	103	107	118	176	176	162	2.5	2.5	6.40	6.25	HJ 415	75	116	13	21.5	3	0.710		

