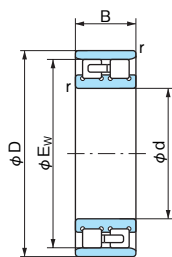
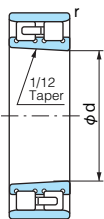


## ■ Rolamentos de Rolos Cilíndricos de Duas Carreiras

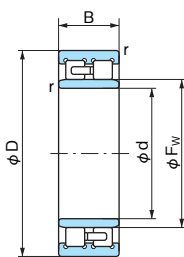
Diâmetro de Furo: 25~180mm



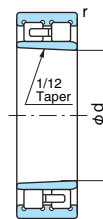
NN  
Furo cilíndrico



NN  
Furo cônico  
(Conicidade: 1/12)



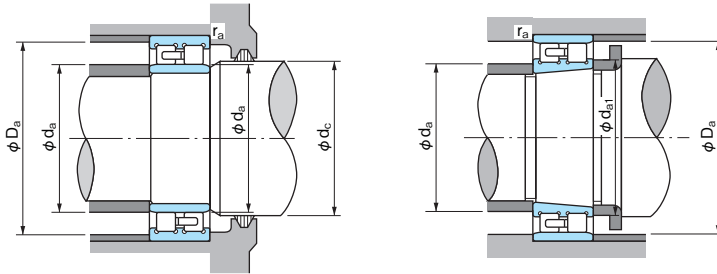
NNU  
Furo cilíndrico



NNU  
Furo cônico  
(Conicidade: 1/12)  
1N=0,102kgf

Dimensões principais (mm)						Identificação do Rolamento		Capacidade de carga dinâmica Cr (N)	Capacidade de carga estática Cor (N)
d	D	B	Ew	Fw	r (mín.)	Furo cilíndrico	Furo cônico		
25	47	16	41,3	—	0,6	NN3005	NN3005K	25800	30000
30	55	19	48,5	—	1	NN3006	NN3006K	31000	37000
35	62	20	55	—	1	NN3007	NN3007K	39500	50000
40	68	21	61	—	1	NN3008	NN3008K	43500	55500
45	75	23	67,5	—	1	NN3009	NN3009K	52000	68500
50	80	23	72,5	—	1	NN3010	NN3010K	53000	72500
55	90	26	81	—	1,1	NN3011	NN3011K	69500	96500
60	95	26	86,1	—	1,1	NN3012	NN3012K	73500	106000
65	100	26	91	—	1,1	NN3013	NN3013K	77000	116000
70	110	30	100	—	1,1	NN3014	NN3014K	97500	148000
75	115	30	105	—	1,1	NN3015	NN3015K	96500	149000
80	125	34	113	—	1,1	NN3016	NN3016K	119000	186000
85	130	34	118	—	1,1	NN3017	NN3017K	125000	201000
90	140	37	127	—	1,5	NN3018	NN3018K	143000	228000
95	145	37	132	—	1,5	NN3019	NN3019K	150000	246000
100	140	40	—	113	1,1	NNU4920	NNU4920K	155000	305000
	150	37	137	—	1,5	NN3020	NN3020K	157000	265000
105	145	40	—	118	1,1	NNU4921	NNU4921K	161000	325000
	160	41	146	—	2	NN3021	NN3021K	198000	320000
110	150	40	—	123	1,1	NNU4922	NNU4922K	167000	335000
	170	45	155	—	2	NN3022	NN3022K	229000	375000
120	165	45	—	134,5	1,1	NNU4924	NNU4924K	183000	360000
	180	46	165	—	2	NN3024	NN3024K	239000	405000
130	180	50	—	146	1,5	NNU4926	NNU4926K	275000	565000
	200	52	182	—	2	NN3026	NN3026K	284000	475000
140	190	50	—	156	1,5	NNU4928	NNU4928K	283000	585000
	210	53	192	—	2	NN3028	NN3028K	298000	515000
150	210	60	—	168,5	2	NNU4930	NNU4930K	350000	715000
	225	56	206	—	2,1	NN3030	NN3030K	335000	585000
160	220	60	—	178,5	2	NNU4932	NNU4932K	365000	760000
	240	60	219	—	2,1	NN3032	NN3032K	375000	660000
170	230	60	—	188,5	2	NNU4934	NNU4934K	375000	805000
	260	67	236	—	2,1	NN3034	NN3034K	450000	805000
180	250	69	—	202	2	NNU4936	NNU4936K	480000	1020000
	280	74	255	—	2,1	NN3036	NN3036K	565000	995000

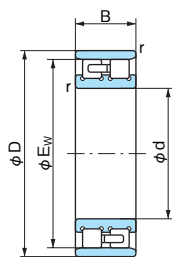
Nota: O sufixo k indica rolamentos com furo de conicidade 1/12.



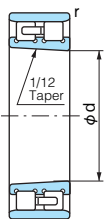
	Limite de rotação (min <sup>-1</sup> )		Dimensões internas e de raio (mm)						Massa (kg) (Referência Furo cônico)	Rolamento	
	Lubrificação com graxa	Lubrificação com óleo	d <sub>a</sub>		d <sub>a1</sub>	d <sub>c</sub>	D <sub>a</sub>				r <sub>a</sub>
			(mín.)	(máx.)	(mín.)	(mín.)	(máx.)	(mín.)	(máx.)		
	15000	17000	30	—	30	—	42	41,8	0,6	0,123	NN3005K
	12000	15000	36	—	37	—	49	49	1	0,199	NN3006K
	11000	13000	41	—	42	—	56	56	1	0,258	NN3007K
	9800	11000	46	—	48	—	62	62	1	0,312	NN3008K
	8800	10000	51	—	52	—	69	69	1	0,405	NN3009K
	8200	9600	56	—	58	—	74	74	1	0,454	NN3010K
	7300	8600	62	—	64	—	83	82	1	0,651	NN3011K
	6800	8000	67	—	68	—	88	87	1	0,704	NN3012K
	6400	7600	72	—	74	—	93	92	1	0,758	NN3013K
	5700	6800	77	—	78	—	103	101	1	1,04	NN3014K
	5500	6400	82	—	84	—	108	106	1	1,14	NN3015K
	5000	6000	87	—	90	—	118	114	1	1,52	NN3016K
	4800	5600	92	—	96	—	123	119	1	1,61	NN3017K
	4500	5200	98,5	—	100	—	131,5	129	1,5	2,07	NN3018K
	4300	5000	103,5	—	106	—	136,5	134	1,5	2,17	NN3019K
	4200	5000	106,5	111	110	115	133,5	—	1	1,77	NUU4920K
	4000	4800	108,5	—	112	—	141,5	139	1,5	2,26	NN3020K
	4000	4800	111,5	116	115	120	138,5	—	1	1,85	NUU4921K
	3800	4500	115	—	116	—	150	148	2	2,89	NN3021K
	3900	4600	116,5	121	120	125	143,5	—	1	1,93	NUU4922K
	3600	4300	120	—	122	—	160	157	2	3,68	NN3022K
	3500	4200	126,5	133	130	137	158,5	—	1	2,65	NUU4924K
	3300	3900	130	—	132	—	170	167	2	3,98	NN3024K
	3200	3800	138	144	142	148	172	—	1,5	3,55	NUU4926K
	3000	3600	140	—	144	—	190	183	2	5,92	NN3026K
	3000	3600	148	154	151	158	182	—	1,5	3,80	NUU4928K
	2800	3400	150	—	154	—	200	194	2	6,44	NN3028K
	2700	3300	159	166	162	171	201	—	2	5,95	NUU4930K
	2600	3100	162	—	164	—	213	208	2	7,81	NN3030K
	2600	3100	169	176	172	182	211	—	2	6,25	NUU4932K
	2500	2900	172	—	174	—	228	221	2	8,92	NN3032K
	2400	2900	179	186	182	192	221	—	2	6,60	NUU4934K
	2300	2700	182	—	184	—	248	238	2	12,6	NN3034K
	2200	2700	189	199	194	205	241	—	2	9,50	NUU4936K
	2100	2500	192	—	196	—	268	257	2	16,6	NN3036K

## ■ Rolamentos de Rolos Cilíndricos de Duas Carreiras

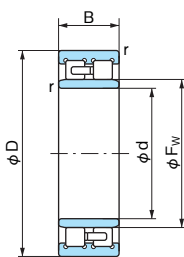
Diâmetro de Furo: 190~320mm



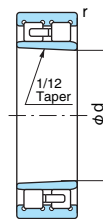
NN  
Furo cilíndrico



NN  
Furo cônico  
(Conicidade: 1/12)



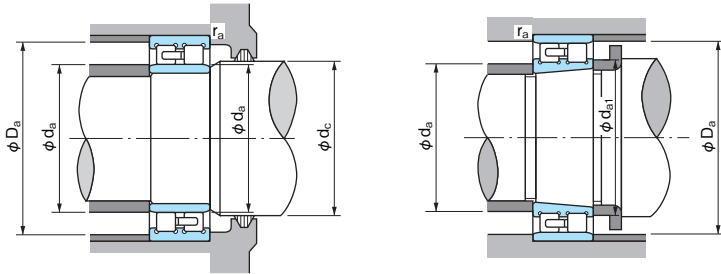
NNU  
Furo cilíndrico



NNU  
Furo cônico  
(Conicidade: 1/12)  
1N=0,102kgf

Dimensões principais (mm)						Identificação do Rolamento		Capacidade de carga dinâmica Cr (N)	Capacidade de carga estática Cor (N)
d	D	B	Ew	Fw	r (mín.)	Furo cilíndrico	Furo cônico		
190	260	69	—	212	2	NNU4938	NNU4938K	485000	1060000
	290	75	265	—	2,1	NN3038	NN3038K	595000	1080000
200	280	80	—	225	2,1	NNU4940	NNU4940K	570000	1220000
	310	82	282	—	2,1	NN3040	NN3040K	655000	1170000
220	300	80	—	245	2,1	NNU4944	NNU4944K	600000	1330000
	340	90	310	—	3	NN3044	NN3044K	815000	1480000
240	320	80	—	265	2,1	NNU4948	NNU4948K	625000	1450000
	360	92	330	—	3	NN3048	NN3048K	855000	1600000
260	360	100	—	292	2,1	NNU4952	NNU4952K	935000	2100000
	400	104	364	—	4	NN3052	NN3052K	1080000	2070000
280	380	100	—	312	2,1	NNU4956	NNU4956K	960000	2230000
	420	106	384	—	4	NN3056	NN3056K	1080000	2080000
300	420	118	—	339	3	NNU4960	NNU4960K	1230000	2880000
	460	118	418	—	4	NN3060	NN3060K	1430000	2740000
320	440	118	—	359	3	NNU4964	NNU4964K	1270000	3050000
	480	121	438	—	4	NN3064	NN3064K	1430000	2750000

Nota: O sufixo k indica rolamentos com furo de conicidade 1/12.



	Limite de rotação (min <sup>-1</sup> )		Dimensões internas e de raio (mm)						Massa (kg) (Referência Furo cônico)	Rolamento	
	Lubrificação com graxa	Lubrificação com óleo	d <sub>a</sub>		d <sub>a1</sub>	d <sub>c</sub>	D <sub>a</sub>				r <sub>a</sub>
			(mín.)	(máx.)	(mín.)	(mín.)	(máx.)	(mín.)	(máx.)		
	2100	2600	199	209	204	215	251	—	2	10,0	NNU4938K
	2000	2400	202	—	206	—	278	267	2	17,5	NN3038K
	2000	2400	211	222	214	228	269	—	2	10,1	NNU4940K
	1900	2200	212	—	216	—	298	285	2	21,6	NN3040K
	1800	2200	231	242	234	248	289	—	2	15,5	NNU4944K
	1700	2000	234	—	238	—	326	313	2,5	28,4	NN3044K
	1700	2000	251	262	254	269	309	—	2	17,0	NNU4948K
	1600	1900	254	—	256	—	346	333	2,5	31,8	NN3048K
	1500	1800	271	288	276	296	349	—	2	28,3	NNU4952K
	1400	1700	278	—	280	—	382	367	3	46,0	NN3052K
	1400	1700	291	308	296	316	369	—	2	30,3	NNU4956K
	1300	1600	298	—	300	—	402	387	3	49,6	NN3056K
	1300	1500	313	335	320	343	407	—	2,5	46,7	NNU4960K
	1200	1400	318	—	325	—	442	421	3	68,7	NN3060K
	1200	1400	333	335	340	363	427	—	2,5	49,6	NNU4964
	1200	1400	338	—	345	—	462	442	3	74,0	NN3064K