

# HIGH CAPACITY CYLINDRICAL ROLLER BEARINGS

**NACHI**

## EG Series



- High Capacity
- High Reliability
- Low Noise & Less Heat Generation

### ■ Large Rollers Provide High Load capacity

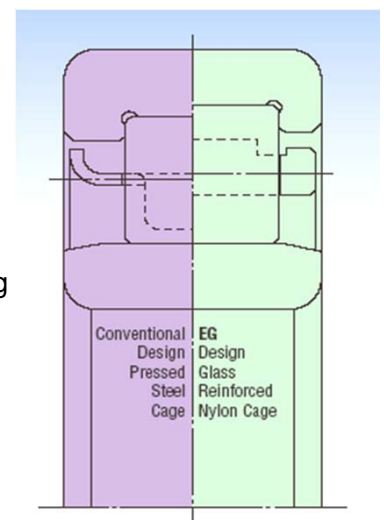
**NACHI EG series** of cylindrical roller bearings have maximized load capacity for the same standard boundary dimensions by adopting an optimum design of roller with larger diameters and increased length.

### ■ High Capacity Cylindrical Roller Bearing EG series

This high capacity bearing allows you to plan a more compact design by selecting smaller bearing or to improve the reliability of the existing bearing arrangement. Contributing to the design is **NACHI EXCEL CROWNING** (PAT. pending) which optimizes the internal geometry which optimizes the internal geometry in the contacting area between roller and raceway under various loading conditions.

### ■ Low Temperature Rise and Long Life

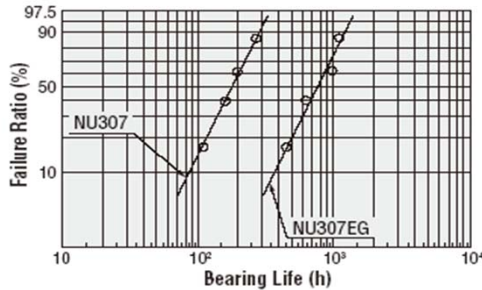
By utilizing a NACHI glass reinforced nylon cage, a lower rise and less heat generating operation is realized. In particular, the unique design of **NACHI** nylon cage provides the additional benefit of low temperature operation in a grease lubricated application.



# HIGH CAPACITY CYLINDRICAL ROLLER BEARINGS

## Technical Info

< Weibull Distribution Chart >



### Test evaluation for high capacity cylindrical roller bearing (EG-Series)

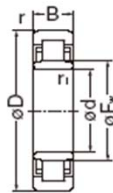
● Test conditions

- (1) Test bearing  
 NU307 (Pressed Steel Cage)  
 NU307EG (Glass Reinforced Nylon Cage)
- (2) Rotating Speed : 2000 min<sup>-1</sup>
- (3) Radial Load : 19600 N
- (4) Lubricating Oil : 75W10 (Oil Bath)

● Calculated and measured service life

	Unit : h	
	Calculated service life	Measured service life
NU307	1	1
NU307EG	3.2 times	3.5 times or more

### Dimensional Table



NU Type



NJ Type



NUP Type

d	Boundary Dimensions (mm)					Bearing No.	Dynamic Capacity (N)	Static Capacity (N)
	D	B	FW	r (min.)	r1 (min.)			
20	52	15	27.5	1.1	0.6	304	31500	26900
25	52	15	31.5	1	0.6	205	29300	27700
	62	17	35	1.1	1.1	305	29300	25200
30	62	16	37.5	1	0.6	206	39000	37500
	62	20	37.5	1	0.6	2206	49000	50000
35	72	19	40.5	1.1	1.1	306	53000	50000
	72	17	44	1.1	0.6	207	50500	50000
40	80	21	46.2	1.5	1.1	307	66500	65500
	80	18	49.5	1.1	1.1	208	55500	55500
45	90	23	52	1.5	1.5	308	83000	81500
	85	19	54.5	1.1	1.1	209	63000	66500
50	100	25	58.5	1.5	1.5	309	97500	98500
	100	36	58.5	1.5	1.5	2309	137000	153000
55	90	20	59.5	1.1	1.1	210	69000	76500
	110	27	65	2	2	310	110000	113000
60	110	40	65	2	2	2310	163000	187000
	100	21	66	1.5	1.5	211	86500	98500
65	120	29	70.5	2	2	311	137000	143000
	120	43	70.5	2	2	2311	201000	233000
70	130	31	77	2.1	2.1	312	150000	157000
	130	46	77	2.1	2.1	2312	222000	262000
75	140	33	82.5	2.1	2.1	313	181000	191000
	140	48	82.5	2.1	2.1	2313	247000	287000
70	150	35	89	2.1	2.1	314	205000	222000
75	160	37	95	2.1	2.1	315	240000	263000

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