



New Product

Needle Rollers with Synthetic resin cage for General Use

KT...N



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Strong, lightweight, and low-cost. New sizes are now available for Needle Roller Cages with the superior characteristics of synthetic resin.



>> Structure and features

Needle Roller Cages for General Usage are bearings that provide excellent rotational performance. Specially designed cage precisely guides the needle rollers. They create extremely low-sectional height high-precision rolling guides when combined with accurately ground heat treated shafts and housing bores. **IKO** offers both high carbon style cage types and synthetic resin cage types. New sizes have been recently added to the synthetic resin cage type.

● Features of synthetic resin cages

1 High load capacity

The narrow formed cage stays between the rollers allows for an increase in the number of needle rollers. Thus raising the load capacity by almost 20% when compared against same sized with high carbon steel cage. (In case of KT505825N)

2 Ultra-small sizes are available

Ultra-small sizes (bore diameter 3 to 5 mm), are available unlike those having high carbon steel cages.

3 Lightweight/Low-cost

Synthetic resin cages help reduce equipment weight and costs.

4 Special models for your applications

We offer special versions such as non-standard sizes or materials depending on situation to fit your applications. Please feel free to contact us for more details.

>> Model

Needle Roller Cages for General Usage are available in the types shown in Table 1.

Table 1 Model of bearing

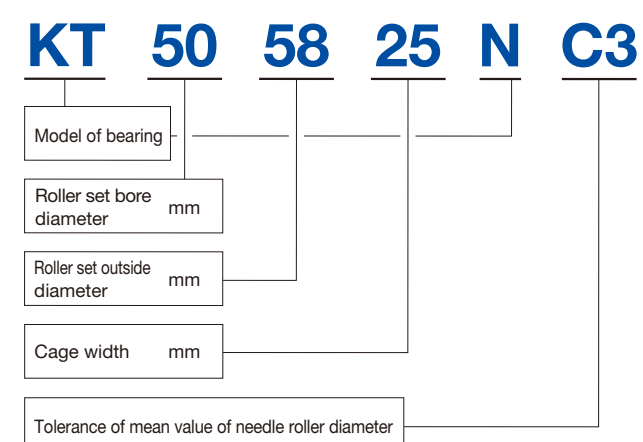
Item	Model of bearing	
	Single row needle roller	Double row needle roller
High carbon steel cage type	KT	KTW
Synthetic resin cage type	KT...N	-

>> Operating Temperature Range

The operating temperature range for synthetic resin cages is -20 to 110°C. For continuous use, keep the temperature at 100°C or below.

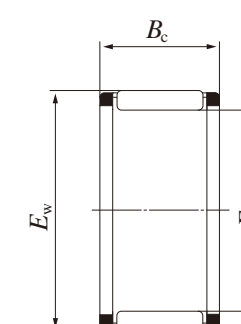
>> Identification number

Examples of the identification number of Needle Roller Cages for General Usage are shown below.



For details of accuracy, fit, or mounting, please contact **IKO**.

>> Dimensions



Shaft diameter mm	Identification number	Mass (Ref.) g	Boundary dimensions mm			Basic dynamic load rating C N	Basic static load rating C ₀ N	Allowable (1) rotational speed min ⁻¹
			F _w	E _w	B _C			
3	KT 367N	0.39	3	6	7	1 480	990	140 000
4	KT 477N	0.47	4	7	7	1 800	1 300	100 000
5	KT 587N	0.53	5	8	7	2 070	1 600	85 000
	KT 588N	0.66	5	8	8	2 420	1 950	85 000
6	KT 697N	0.63	6	9	7	2 310	1 900	75 000
	KT 698N	0.75	6	9	8	2 700	2 320	75 000
7	KT 7108N	0.86	7	10	8	2 960	2 690	65 000
8	KT 8118N	0.96	8	11	8	3 190	3 060	60 000
29	KT 81110N	1.2	8	11	10	3 630	3 600	60 000
	KT 293825N	40.7	29	38	25	35 800	47 800	17 500
50	KT 505825N	66.3	50	58	25	51 400	97 800	10 000

Note (1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 50% of this value is allowable. 1N=0.102kgf
For dimensions not listed, please contact **IKO**.