



## New Product

Needle Rollers with Synthetic resin cage for General Use

# KT...N



### NIPPON THOMPSON CO., LTD. (JAPAN)

Head Office : 19-13 Takanawa 2-chome Minato-ku  
Tokyo 108-8586, Japan  
Phone : +81 (0)3-3448-5850  
Fax : +81 (0)3-3447-7637  
E-mail : ntt@ikonet.co.jp  
URL : <http://www.ikont.co.jp/eg>  
Plant : Gifu, Kamakura

### IKO INTERNATIONAL, INC. (U.S.A.)

#### East Coast Operations (Sales Head Office)

91 Walsh Drive  
Parsippany, NJ 07054  
U.S.A.  
Phone : +1 973-402-0254  
Toll Free : 1-800-922-0337  
Fax : +1 973-402-0441  
E-mail : eco@ikonet.co.jp

#### Midwest Operations

101 Mark Street Suite-G,  
Wood Dale, IL 60191  
U.S.A.  
Phone : +1 630-766-6464  
Toll Free : 1-800-323-6694  
Fax : +1 630-766-6869  
E-mail : mwo@ikonet.co.jp

#### Minnesota Sales Office

1500 McAndrews Road West, Suite 210  
Burnsville, MN 55337  
U.S.A.  
Phone : +1 952-892-8415  
Toll Free : 1-800-323-6694  
Fax : +1 952-892-1722  
E-mail : mwo@ikonet.co.jp

#### West Coast Operations

9830 Norwalk Boulevard, Suite 198  
Santa Fe Springs, CA 90670  
U.S.A.  
Phone : +1 562-941-1019  
Toll Free : 1-800-252-3665  
Fax : +1 562-941-4027  
E-mail : wco@ikonet.co.jp

#### Silicon Valley Sales Office

1500 Wyatt Drive, Suite 10  
Santa Clara, CA 95054  
U.S.A.  
Phone : +1 408-492-0240  
Toll Free : 1-800-252-3665  
Fax : +1 408-492-0245  
E-mail : wco@ikonet.co.jp

#### Southeast Operations

2150 Boggs Road, Suite 100  
Duluth, GA 30096  
U.S.A.  
Phone : +1 770-418-1904  
Toll Free : 1-800-874-6445  
Fax : +1 770-418-9403  
E-mail : seo@ikonet.co.jp

#### Southwest Operations

8105 N. Beltline Road, Suite 130  
Irving, TX 75063  
U.S.A.  
Phone : +1 972-929-1515  
Toll Free : 1-800-295-7886  
Fax : +1 972-915-0060  
E-mail : swo@ikonet.co.jp

### IKO THOMPSON BEARINGS CANADA, INC.(CANADA)

731-2425 Matheson Boulevard East 7th floor  
Mississauga, Ontario L4W 5K4, Canada  
Phone : +1 905-361-2872  
Fax : +1 905-361-6401  
E-mail : itc@ikonet.co.jp

### IKO THOMPSON BRAZIL SERVICE CO.,LTD. (BRAZIL)

Av.Paulista, 854 10th floor, Top Center,  
01310-100, Sao Paulo, SP, Brazil  
Phone : +55 (0)11-2186-0221  
Fax : +55 (0)11-2186-0299  
E-mail : itb@ikonet.co.jp

### NIPPON THOMPSON EUROPE B.V. (EUROPE)

#### The Netherlands (Sales Head Office)

Sheffieldstraat 35-39  
3047 AN Rotterdam  
The Netherlands  
Phone : +31 (0)10-462 68 68  
Fax : +31 (0)10-462 60 99  
E-mail : nte@ikonet.co.jp

#### Germany Branch

Mündelheimer Weg 54  
40472 Düsseldorf  
Germany  
Phone : +49 (0)211-41 40 61  
Fax : +49 (0)211-42 76 93  
E-mail : ntd@ikonet.co.jp

#### Regensburg Sales Office

Im Gewerbepark D 30  
93059 Regensburg  
Germany  
Phone : +49 (0)941-20 60 70  
Fax : +49 (0)941-20 60 719  
E-mail : ntdr@iko-nt.de

#### Neunkirchen Sales Office

Gruben Str. 95c  
66540 Neunkirchen  
Germany  
Phone : +49 (0)6821-99 98 60  
Fax : +49 (0)6821-99 98 626  
E-mail : ntdn@iko-nt.de

#### U.K. Branch

2 Vincent Avenue, Crownhill  
Milton Keynes, Bucks, MK8 0AB  
United Kingdom  
Phone : +44 (0)1908-566144  
Fax : +44 (0)1908-565458  
E-mail : sales@iko.co.uk

#### Spain Branch

Autovia Madrid-Barcelona, Km. 43,700  
Polig. Ind. AIDA - Nove A-8, Ofic. 2-1<sup>a</sup>  
19200 Azuqueca de Henares  
(Guadalajara) Spain  
Phone : +34 949-26 33 90  
Fax : +34 949-26 31 13  
E-mail : nts@ikonet.co.jp

#### France Branch

Roissypole Le Dôme  
2 rue de La Haye  
BP 15950 Tremblay en France  
95733 Roissy C. D. G. Cedex  
France  
Phone : +33 (0)1-48 16 57 39  
Fax : +33 (0)1-48 16 57 46  
E-mail : contact@iko-france.com

### IKO THOMPSON KOREA CO.,LTD. (KOREA)

2F, 111, Yeouigongwon-ro,  
Yeongdeungpo-gu, Seoul, Korea  
Phone : +82 (0)2-6337-5851  
Fax : +82 (0)2-6337-5852  
E-mail : itk@ikonet.co.jp

### IKO THOMPSON ASIA CO., LTD. (THAILAND)

1-7 Zuellig House, 3rd Floor  
Silom Road, Silom, Bangrak  
Bangkok 10500, Thailand  
Phone : +66 (0)21-637-5115  
Fax : +66 (0)21-637-5116  
E-mail : ita@ikonet.co.jp

### IKO-THOMPSON (SHANGHAI) LTD. (CHINA)

#### Shanghai (Sales Head Office)

1608-10 MetroPlaza No.555 LouShanGuan  
Road  
ChangNing District Shanghai  
People's Republic of China 200051  
Phone : +86 (0)21-3250-5525  
Fax : +86 (0)21-3250-5526  
E-mail : ntc@ikonet.co.jp

#### Beijing Branch

Room1506, Jingtai Tower,  
NO.24,Jianguomenwai Avenue,  
Chaoyang District, Beijing People's Republic of  
China 100022  
Phone : +86 (0)10-6515-7681  
Fax : +86 (0)10-6515-7681\*106  
E-mail : ntc@ikonet.co.jp

#### Guangzhou Branch

Room 834, Garden Tower, Garden Hotel  
368 Huanshi East Road, Yuexiu District,  
Guangzhou, Guangdong  
People's Republic of China 510064  
Phone : +86 (0)20-8384-0797  
Fax : +86 (0)20-8381-2863  
E-mail : ntc@ikonet.co.jp

#### Wuhan Branch

Room 2300, Truroll Plaza No.72 Wusheng  
Road, Qiao kou District, Wuhan, Hubei  
People's Republic of China 430033  
Phone : +86 (0)27-8556-1610  
Fax : +86 (0)27-8556-1630  
E-mail : ntc@ikonet.co.jp

#### Shenzhen Office

Room 420, Oriental Plaza,  
1072 Jianshe Road, Luohu District,  
Shenzhen, Guangdong  
People's Republic of China 518001  
Phone : +86 (0)755-2265-0553  
Fax : +86 (0)755-2298-0665  
E-mail : ntc@ikonet.co.jp

#### Ningbo Office

Room 3406, Zhongnongxin Building, No.181  
Zhongshan East Road, Haishu Ward, Ningbo,  
Zhejiang  
People's Republic of China 315000  
Phone : +86 (0)574-8718-9535  
Fax : +86 (0)574-8718-9533  
E-mail : ntc@ikonet.co.jp

#### Qingdao Office

2107 Block A, World Trade Center Building,  
No.230  
Changjiang Middle Road, Development Zone  
Qingdao  
People's Republic of China 266555  
Phone : +86 (0)532-8670-2246  
Fax : +86 (0)532-8670-2242  
E-mail : ntc@ikonet.co.jp

#### Shenyang Office

2-1203 Tower I, City Plaza Shenyang, No.206  
Nanjing North Street Heping District,  
Shenyang  
People's Republic of China 110001  
Phone : +86 (0)24-2334-2662  
Fax : +86 (0)24-2334-2442  
E-mail : ntc@ikonet.co.jp



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



Synthetic resin cage  
 Needle roller

## » 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

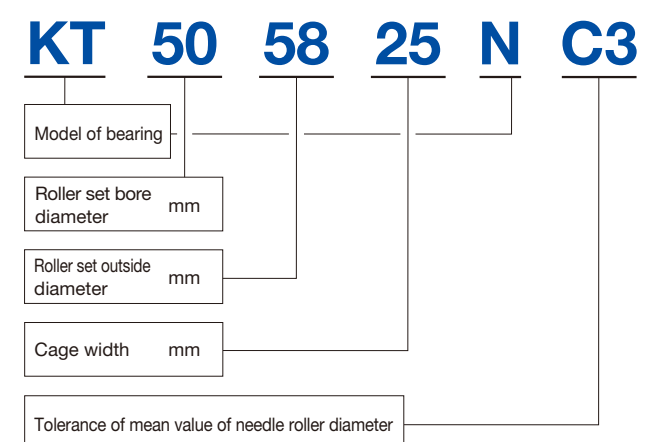
Item	Model of bearing	
	Single row needle roller	Double row needle roller
High carbon steel cage type	KT	KTW
Synthetic resin cage type	KT...N	-

## » 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.

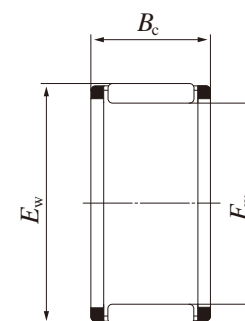
## » Identification number

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 <sub>0</sub> N	Allowable <sup>(1)</sup> rotational speed min <sup>-1</sup>
			F <sub>w</sub>	E <sub>w</sub>	B <sub>C</sub>			
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
	KT 8118N	0.96	8	11	8	3 190	3 060	60 000
8	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 <sup>(1)</sup> 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**.