



# INTERCHANGE GUIDE

## KB EUROPEAN SERIES (METRIC) LINEAR BEARINGS

### NB Part Numbering System

TYPE / SERIES	MATERIAL	SIZE	RETAINER	WIDTH	SEAL	-	TYPE	PRECISION
<b>KB</b>	<b>S</b>	<b>20</b>	<b>G</b>			<b>-</b>	<b>AJ</b>	<b>P</b>
<b>KB</b> = European Series (Metric)	<b>NO CODE</b> Steel <b>S</b> = Stainless Steel	First one or two digits indicates the nominal shaft diameter in mm	<b>NO CODE</b> Steel <b>G</b> = Resin	<b>NO CODE</b> Standard <b>W</b> = Double wide	<b>NO CODE</b> No Seal <b>UU</b> = Seals on both sides		<b>NO CODE</b> Standard <b>AJ</b> = Clearance Adjustable <b>OP</b> = Open	<b>NO CODE</b> High <b>P</b> = Precision

#### KB Series - Standard Type

Nominal Diameter (mm)	STEEL RETAINER		
	NB Part Number	STAR	THK
3	<b>KB 3</b>	--	--
4	<b>KB 4</b>	--	--
5	<b>KB 5</b>	--	LME 5A
8	<b>KB 8</b>	--	LME 8A
10	<b>KB 10</b>	--	--
12	<b>KB 12</b>	0600-012-00	LME 12A
16	<b>KB 16</b>	0600-016-00	LME 16A
20	<b>KB 20</b>	0600-020-00	LME 20A
25	<b>KB 25</b>	0600-025-00	LME 25A
30	<b>KB 30</b>	0600-030-00	LME 30A
40	<b>KB 40</b>	0600-040-00	LME 40A
50	<b>KB 50</b>	0600-050-00	LME 50A
60	<b>KB 60</b>	0600-060-00	LME 60A
80	<b>KB 80</b>	0600-080-00	LME 80A

RESIN RETAINER				
NB Part Number	STAR	THK	Thomson	INA
<b>KB 3G</b>	--	--	--	--
<b>KB 4G</b>	--	--	--	--
<b>KB 5G</b>	0600-305-00	LME 5	--	--
<b>KB 8G</b>	0600-308-00	LME 8	MA M08	--
<b>KB 10G</b>	--	--	--	--
<b>KB 12G</b>	--	LME 12	MA M12	KB 1232
<b>KB 16G</b>	--	LME 16	MA M16	KB 1636
<b>KB 20G</b>	--	LME 20	MA M20	KB 2045
<b>KB 25G</b>	--	LME 25	MA M25	KB 2558
<b>KB 30G</b>	--	LME 30	MA M30	KB 3068
<b>KB 40G</b>	--	LME 40	MA M40	KB 4080
<b>KB 50G</b>	--	LME 50	--	KB 50100
<b>KB 60G</b>	--	LME 60	--	--

Seals are available for all NB Standard Type sizes except 3mm and 4mm.

Stainless Steel, Double Wide and Flange Slide Bushings are also available in the NB Series.

#### KB-OP Series - Open Type

Nominal Diameter (mm)	STEEL RETAINER		
	NB Part Number	STAR	THK
10	--	--	--
12	<b>KB 12-OP</b>	0630-012-00	LME 12A-OP
16	<b>KB 16-OP</b>	0630-016-00	LME 16A-OP
20	<b>KB 20-OP</b>	0630-020-00	LME 20A-OP
25	<b>KB 25-OP</b>	0630-025-00	LME 25A-OP
30	<b>KB 30-OP</b>	0630-030-00	LME 30A-OP
40	<b>KB 40-OP</b>	0630-040-00	LME 40A-OP
50	<b>KB 50-OP</b>	0630-050-00	LME 50A-OP
60	<b>KB 60-OP</b>	0630-060-00	LME 60A-OP
80	<b>KB 80-OP</b>	0630-080-00	LME 80A-OP

RESIN RETAINER				
NB Part Number	STAR	THK	Thomson	INA
<b>KB 10G-OP</b>	--	--	--	--
<b>KB 12G-OP</b>	--	LME 12-OP	MA M12 OPN	KBO 1232
<b>KB 16G-OP</b>	--	LME 16-OP	MA M16 OPN	KBO 1636
<b>KB 20G-OP</b>	--	LME 20-OP	MA M20 OPN	KBO 2045
<b>KB 25G-OP</b>	--	LME 25-OP	MA M25 OPN	KBO 2558
<b>KB 30G-OP</b>	--	LME 30-OP	MA M30 OPN	KBO 3068
<b>KB 40G-OP</b>	--	LME 40-OP	MA M40 OPN	KBO 4080
<b>KB 50G-OP</b>	--	LME 50-OP	--	KBO 50100
<b>KB 60G-OP</b>	--	LME 60-OP	--	--

Seals are available for all NB Clearance Adjustable Type sizes.

Stainless Steel, Double Wide and Flange Slide Bushings are also available in the NB Series.

#### KB-AJ Series - Clearance Adjustable Type

Nominal Diameter (mm)	STEEL RETAINER		
	NB Part Number	STAR	THK
5	--	--	--
8	--	--	--
10	--	--	--
12	<b>KB 12-AJ</b>	0610-012-00	LME 12A-AJ
16	<b>KB 16-AJ</b>	0610-016-00	LME 16A-AJ
20	<b>KB 20-AJ</b>	0610-020-00	LME 20A-AJ
25	<b>KB 25-AJ</b>	0610-025-00	LME 25A-AJ
30	<b>KB 30-AJ</b>	0610-030-00	LME 30A-AJ
40	<b>KB 40-AJ</b>	0610-040-00	LME 40A-AJ
50	<b>KB 50-AJ</b>	0610-050-00	LME 50A-AJ
60	<b>KB 60-AJ</b>	0610-060-00	LME 60A-AJ
80	<b>KB 80-AJ</b>	0610-080-00	LME 80A-AJ

RESIN RETAINER				
NB Part Number	STAR	THK	Thomson	INA
<b>KB 5G-AJ</b>	0610-305-00	LME 5-AJ	--	--
<b>KB 8G-AJ</b>	0610-308-00	LME 8-AJ	MA M08 ADJ	--
<b>KB 10G-AJ</b>	--	--	--	--
<b>KB 12G-AJ</b>	--	LME 12-AJ	MA M12 ADJ	KBS 1232
<b>KB 16G-AJ</b>	--	LME 16-AJ	MA M16 ADJ	KBS 1636
<b>KB 20G-AJ</b>	--	LME 20-AJ	MA M20 ADJ	KBS 2045
<b>KB 25G-AJ</b>	--	LME 25-AJ	MA M25 ADJ	KBS 2558
<b>KB 30G-AJ</b>	--	LME 30-AJ	MA M30 ADJ	KBS 3068
<b>KB 40G-AJ</b>	--	LME 40-AJ	MA M40 ADJ	KBS 4080
<b>KB 50G-AJ</b>	--	LME 50-AJ	--	KBS 50100
<b>KB 60G-AJ</b>	--	LME 60-AJ	--	--

Seals are available for all NB Open Type sizes.

Stainless Steel, Double Wide and Flange Slide Bushings are also available in the NB Series.

Vancouver  
1-800-680-7686

Toronto  
1-800-387-7494

Montreal  
1-800-495-4395

**///RotoPRECISION Inc.**  
Precision in Motion



# KB EUROPEAN SERIES METRIC LINEAR BEARINGS

**NB is one of the largest manufacturers of linear bearings in the world offering more configurations and sizes than any other manufacturer.**



NB linear bearing products are fully interchangeable with competitive offerings and always provide some technical improvement or ease-of-use benefit... at a competitive price.

In the European metric KB linear bearing series, NB bearings out-perform competitive offerings because they offer:

## **CHOICE OF RETAINER MATERIAL**

NB offers ball retainers in both resin and steel materials for greater flexibility. Choose resin where quiet running conditions are desired and steel where higher temperatures exist.

## **HIGH PRECISION I.D. TOLERANCES**

Greater precision on the I.D. tolerances provide for better shaft-to-bearing fit and more accurate positioning. NB's standard series offers similar precision tolerances to the "high precision" options of competitors. For even greater accuracy, specify RotoPrecision shafting.

## **INTEGRAL WIPER SEALS**

Integral wiper seals are available on virtually all configurations which provide economical protection from contamination, with minimal increase in friction. Competitive seal options tend to be more limited.

## **MULTIPLE FLANGE OPTIONS**

All configurations of NB European metric KB series up to 80 mm bearings are available with various flange options including end-mount, centre-mount, round and square.

## **DID YOU KNOW?**

NB offers more stainless steel configurations of linear bearings than any other manufacturer in the world. Stainless steel is available as a material for all bearing components, on all sizes and configurations up to 60 mm. Competitive offerings are more limited.

## **DID YOU KNOW?**

NB Linear Motion Products are fully supported by trained engineers at RotoPrecision's Canadian Application Support Centre.

For over 40 years, RotoPrecision has engineered precision anti-friction components for the world's leading manufacturers into some of the most demanding industrial, high tech, medical and military applications. This engineering expertise is available to support you as you strive to offer your customer the highest level of service.

## **DID YOU KNOW?**

Our mission at RotoPrecision is "To deliver the perfect customer experience in the markets we serve".

We have a dedicated division specifically to serve and respond to the needs of the distribution sector. We do not sell end-use. We support OEM business through distribution. We have systems specifically designed to take feedback from our customers and to respond.

Try us! Our products, support and service are second-to-none.

