

Ball, Needle & Roller Bearing NOMENCLATURE GUIDE





August 2013

EE Extra Light Inch Series/Miniature Ball Bearings



NOMENCLATURE Ball Bearings



Angular Contact Ball Bearings



Cylindrical Roller Bearings



Interchanges Tapered Roller Bearing Sets

Tapered Set Number	Koyo Part Number			BCA		Timelyon
	Cone	Cup	CR Bearing	Mogul	L & S Bearing	Timken
K 1	LM11749R	LM11710	BR1	A1	S1	SET 1
K2	LM11949	LM11910	BR2	A2	S2	SET 2
К3	M12649	M12610	BR3	A3	S3	SET 3
K4	L44649R	L44610	BR4	A4	S4	SET 4
K5	LM48548	LM48510	BR5	A5	S5	SET 5
K6	LM67048	LM67010	BR6	A6	S6	SET 6
K12	LM12749	LM12710	BR12	A12	S12	SET 12
K13	L68149	L68110	BR13	A13	S13	SET 13
K14	L44643R	L44610	BR14	A14	S14	SET 14
K15	L45449	L45410	BR15	A15	S15	SET 8
K16	LM12749	LM12711	BR16	A16	S16	SET 16
K17	L68149	L68111	BR17	A17	S17	SET 17
K18	JL69349	JL69310	BR18	A18	S18	SET 11
K29	LM67049A	LM67010	BR22	A29	S29	SET 22
K35	LM501349	LM501310	BR35	A35	S35	N/A
K36	LM603049	LM603012	BR36	A36	S36	SET 36
K37	LM603049	LM603011	BR37	A37	S37	SET 37
K38	LM104949	LM104911	BR38	A38	S38	SET 38
K39	JL26749	JL26710	BR39	A39	S39	SET 46
K41	57410 LFT	LM29710	BR41	A41	S41	SET 41

NOMENCLATURE Spherical Roller Bearings



* Oil hole quantity & dimensions may vary from Koyo Catalog 20014

Please consult Koyo Engineering department when using locating pins in oil holes

** 21308 through 21320 same as above.

Needle Roller & Cage Assemblies

Radial Needle Roller and Cage Assemblies – Metric Nominal Dimensions



Radial Needle Roller and Cage Assemblies – Inch Nominal Dimensions



Drawn Cup Needle Roller Bearings

Drawn Cup Needle Roller Bearings – Metric Nominal Dimensions



Inner Rings – Metric Nominal Dimensions



Drawn Cup Needle Roller Bearings – Inch Nominal Dimensions



Inner Rings (with four-digit number) Inch Nominal Dimensions



Drawn Cup Roller Clutches

Drawn Cup Roller Clutches



Bore

 $10 = \frac{10}{16} = \frac{5}{8}$ in.

Width

 $10 = \frac{10}{16} = \frac{5}{8}$ in.

Solid Race Needle Roller Bearings

Needle Roller Bearings with Inner Rings – Metric Nominal Dimensions



Solid Race Needle Roller Bearings

Needle Roller Bearings without Inner Rings – Metric Nominal Dimensions



Inner Rings for Needle Roller Bearings – Metric Nominal Dimensions



Solid Race Needle Roller Bearings

Needle Roller Bearings – Inch Nominal Dimensions



Inner Rings (six-digit number) – Inch Nominal Dimensions



Cylindrical Roller Radial Bearings - Metric Nominal Dimensions



NOMENCLATURE Track Rollers / Cam Followers



Thrust Needle Roller Bearings & Washers

Needle Roller Thrust Bearings – Metric Nominal Dimensions



Thrust Washers – Metric Nominal Dimensions



Prefix		Bore Diameter					
G5.811, G5.812 W5.811, W5.812	housing washer shaft washer	for WS.811, WS.812: 02 = 15 mm 03 = 17 mm (for bore $\ge 20 \text{ mm}$): bore code x 5 = bore diameter	for GS.811: 02 = 16 mm 03 = 18 mm 04 = 21 mm 05 = 26 mm	for GS.812: 02 = 16 mm 03 = 17mm 04 = 21 mm 05 = 26 mm			
GS.	811 (04 = 4 x 5 = 20 mm	(for bore ≥ 30 mm): [bore code x 5]+2 = bore diameter 06 = [6 x 5] +2 = 32 mm	(tor bore ≥ 30 mm): [bore code x 5]+2 = bore diameter 06 = [6 x 5]+2 = 32 mm (for bore > 85 mm): [bore code x 5]+3 = bore diameter 17 = [17 x 5] +3 = 88 mm			

Thrust Bearings – Inch Nominal Dimensions



Thrust Washers – Inch Nominal Dimensions







What type of bearing do I use?





How does load affect bearing life?

 $L_{10_{h}} = \frac{10^{6}}{60_{n}} \begin{pmatrix} C \\ P \end{pmatrix}$

Can you interchange this part number?

6206 2RSC3P5 Call 1-866-K0Y0TECH_{SM}