

Selection by Dimensions (Inch)

Bore Diameter $\frac{5}{8}$ – 1 Inch

Bore Diameter	OD	Width	Part Number	Type	Bearing Type
$\frac{5}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	RLS5DDU	B2	Single Row Radial Ball Bearings
	$\frac{7}{16}$	$\frac{7}{16}$	RLS5ZZ	B1	Single Row Radial Ball Bearings
$\frac{3}{4}$	$1\frac{1}{8}$	$\frac{9}{16}$	KLNJ $\frac{3}{4}$ J	B	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	R12	B	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{7}{16}$	KLNJ $\frac{3}{4}$ -ZZJ	B1	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{7}{16}$	R12DDU	B2	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{7}{16}$	R12ZZ	B1	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LJ $\frac{3}{4}$ -2RSJ	B2	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LJ $\frac{3}{4}$ -ZZJ	B1	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LJ $\frac{3}{4}$ J	B	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LJT $\frac{3}{4}$ M	D	Single Row Angular Contact Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LLRJ $\frac{3}{4}$ J	H2	Cylindrical Roller Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LRJ $\frac{3}{4}$ J	H	Cylindrical Roller Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	LRJA $\frac{3}{4}$ J	H4	Cylindrical Roller Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	RLS6	B	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{9}{16}$	RLS6ZZ	B1	Single Row Radial Ball Bearings
	2	$\frac{7}{16}$	MJ $\frac{3}{4}$ -2RSJ	B2	Single Row Radial Ball Bearings
	2	$\frac{7}{16}$	MJ $\frac{3}{4}$ -ZZJ	B1	Single Row Radial Ball Bearings
	2	$\frac{7}{16}$	MJ $\frac{3}{4}$ J	B	Single Row Radial Ball Bearings
	2	$\frac{7}{16}$	MJT $\frac{3}{4}$ M	D	Single Row Angular Contact Ball Bearings
	2	$\frac{7}{16}$	MMRJ $\frac{3}{4}$ J	H2	Cylindrical Roller Bearings
	2	$\frac{7}{16}$	RMS6	B	Single Row Radial Ball Bearings
	2	$\frac{7}{16}$	RMS6DDU	B2	Single Row Radial Ball Bearings
$\frac{7}{8}$	$1\frac{1}{8}$	$\frac{1}{2}$	KLNJ $\frac{7}{8}$ -ZZJ	B1	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{1}{2}$	R14ZZ	B1	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{3}{8}$	KLNJ $\frac{7}{8}$ J	B	Single Row Radial Ball Bearings
	$1\frac{1}{8}$	$\frac{3}{8}$	R14	B	Single Row Radial Ball Bearings
	2	$\frac{9}{16}$	LJ $\frac{7}{8}$ -2RSJ	B2	Single Row Radial Ball Bearings
	2	$\frac{9}{16}$	LJ $\frac{7}{8}$ -ZZJ	B1	Single Row Radial Ball Bearings
	2	$\frac{9}{16}$	LJ $\frac{7}{8}$ J	B	Single Row Radial Ball Bearings
	2	$\frac{9}{16}$	LJT $\frac{7}{8}$ M	D	Single Row Angular Contact Ball Bearings
	2	$\frac{9}{16}$	LLRJ $\frac{7}{8}$ J	H2	Cylindrical Roller Bearings
	2	$\frac{9}{16}$	LRJ $\frac{7}{8}$ J	H	Cylindrical Roller Bearings
	2	$\frac{9}{16}$	LRJA $\frac{7}{8}$ J	H4	Cylindrical Roller Bearings
	2	$\frac{9}{16}$	RLS7	B	Single Row Radial Ball Bearings
	2	$\frac{9}{16}$	RLS7ZZ	B1	Single Row Radial Ball Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MJ $\frac{7}{8}$ -2RSJ	B2	Single Row Radial Ball Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MJ $\frac{7}{8}$ J	B	Single Row Radial Ball Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MJT $\frac{7}{8}$ M	D	Single Row Angular Contact Ball Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MMRJ $\frac{7}{8}$ J	H2	Cylindrical Roller Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MRJ $\frac{7}{8}$ J	H	Cylindrical Roller Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	MRJA $\frac{7}{8}$ J	H4	Cylindrical Roller Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	NMJ $\frac{7}{8}$ M	G	Double Row Self Aligning Ball Bearings
	$2\frac{1}{4}$	$\frac{7}{16}$	RMS7	B	Single Row Radial Ball Bearings
1	2	$\frac{1}{2}$	KLNJ1-2RSJ	B2	Single Row Radial Ball Bearings
	2	$\frac{1}{2}$	KLNJ1-ZZJ	B1	Single Row Radial Ball Bearings
	2	$\frac{1}{2}$	R16DDU	B2	Single Row Radial Ball Bearings
	2	$\frac{1}{2}$	R16ZZ	B1	Single Row Radial Ball Bearings
	2	$\frac{3}{8}$	KLNJ1J	B	Single Row Radial Ball Bearings
	2	$\frac{3}{8}$	R16	B	Single Row Radial Ball Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MJT1M	D	Single Row Angular Contact Ball Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MJ1J	B	Single Row Radial Ball Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MMRJ1J	H2	Cylindrical Roller Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MMRJN1M	H2	Cylindrical Roller Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MRJ1J	H	Cylindrical Roller Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	MRJA1J	H4	Cylindrical Roller Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	NMJ1M	G	Double Row Self Aligning Ball Bearings
	$2\frac{1}{2}$	$\frac{3}{4}$	RMS8	B	Single Row Radial Ball Bearings
	$2\frac{1}{2}$	$\frac{7}{8}$	MJ1-2RSJ	B2	Single Row Radial Ball Bearings

Single Row Deep Groove Ball Bearings



Basic Type & Series

- 600: Metric, extra small
- 16000: Metric, thin section
- 6000: Metric, extra light
- 6200: Metric, light
- 6300: Metric, medium
- 6800: Metric, extra thin section
- 6900: Metric, very thin section
- BL 200: Metric, maximum capacity, light
- BL 300: Metric, maximum capacity, medium
- KLNJ: Inch, small
- XLJ: Inch, extra light
- IJ: Inch, light
- MJ: Inch, medium

Features

- V: Single non-contact seal
- VV: Double non-contact seal
- Z: Single shield
- ZZ: Double shield
- DU: Single contact seal
- DDU: Double contact seal
- NR: Snap ring and groove
- M: Brass cage
- Blank: Steel cage

- Noise Level
- E: Electric Motor Grade

62

05

ZZ

C3

E

Bore Diameter
(04 and up: multiply last two numbers by 5 to get bore in mm)
00: 10 mm 03: 17 mm 12: 60 mm
01: 12 mm 04: 20 mm 20: 100 mm
02: 15 mm 05: 25 mm
Inch: directly indicated

Internal Clearance
C2: Tight
Blank: Normal
C3: Loose
C4: Extra Loose

Single Row Deep Groove Ball Bearings (Inch)

Bore Diameter 3¼ – 5½ Inch



Boundary Dimensions (Inch)			Basic Bearing (N)	Variants						Basic Load Ratings		Limiting Speeds (min ⁻¹) GreaseOil			Mass (kg)
d	D	B		Z	-ZZ	RS	-2RS	N	NR	C _r	C _{0r}	Open Z ZZ	RS 2RS	Open Z	approx
3¼	4¼	¾	XLJ3¼							30 500	28 300	2 700		5 400	0,807
	6	1⅞	LJ3¼							87 500	62 000	4 500		6 100	1,87
	7½	1⅞	MJ3¼							139 000	99 000	3 800		5 100	4,99
3⅝	7½	1⅞	MJ3⅝							139 000	99 000	3 800		5 100	4,9
3½	5	¾	XLJ3½							34 100	31 400	5 000		6 800	0,785
	6½	1⅞	LJ3½							100 000	72 000	4 200		5 600	2,33
	8⅞	1¾	MJ3½							169 000	129 000	3 400		4 600	6,53
3¾	5¼	¾	XLJ3¾							40 600	38 500	4 700		6 400	0,844
	6¾	1⅞	LJ3¾							106 000	80 500	3 900		5 300	2,47
	8¼	1¾	MJ3¾							169 000	129 000	3 400		4 600	6,53
4	5⅝	7⁄8	XLJ4							41 400	40 500	2 200		4 400	1,15
	7¼	1¼	LJ4							120 000	88 500	3 800		5 100	3,18
	8½	1¾	MJ4							170 000	132 000	3 200		4 400	6,71
4¼	6	7⁄8	XLJ4¼							48 400	48 800	4 100		5 500	1,13
	7½	1¼	LJ4¼							127 000	104 000	3 500		4 700	3,86
	8¾	1¾	MJ4¼							171 000	184 000	3 100		4 200	8,16
4½	6¼	7⁄8	XLJ4½							55 500	58 800	3 900		5 200	1,14
	8	1⅞	LJ4½							147 000	117 000	3 300		4 400	4,67
	9⅞	2	MJ4½							203 000	168 000	2 800		3 800	10,7
4¾	6½	7⁄8	XLJ4¾							57 000	56 700	3 700		5 000	1,21
	8¼	1⅞	LJ4¾							134 000	107 000	3 100		4 200	4,9
	10	2	MJ4¾							209 000	183 000	2 600		3 500	13,2
5	7	1	XLJ5							68 000	67 000	3 400		4 600	1,68
	9	1⅞	LJ5							154 000	133 000	2 700		3 700	6,35
	10	2	MJ5							209 000	183 000	2 600		3 500	12,2
5¼	7¼	1	XLJ5¼						51 000	52 000	1 600		3 200	2,1	
5½	7½	1	XLJ5½							57 000	62 500	1 500		3 100	2,2
	9½	1⅞	LJ5½							153 000	146 000	2 500		3 400	6,85
	11	2	MJ5½							221 000	202 000	2 300		3 100	14,9

Radial Internal Clearances

Bore Diameter (mm)		Radial Internal Clearance Groups (µm)			
over	include	CN		C3	
		min.	max.	min.	max.
6	10	2	13	8	23
10	18	3	18	11	25
18	24	5	20	13	28
24	30	5	20	13	28
30	40	6	20	15	33
40	50	6	23	18	36
50	65	8	28	23	43
65	80	10	30	25	51
80	100	12	36	30	58

Interchange

	Description	NSK	SKF	FAG
Part Number	See Interchange list			
Suffixes	Polyamide cage Steel cage Brass cage Normal clearance Loose clearance	TNG J M Blank C3	TN9 J M Blank C3	TVH J M Blank C3