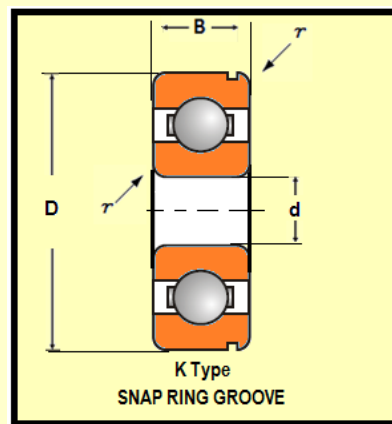
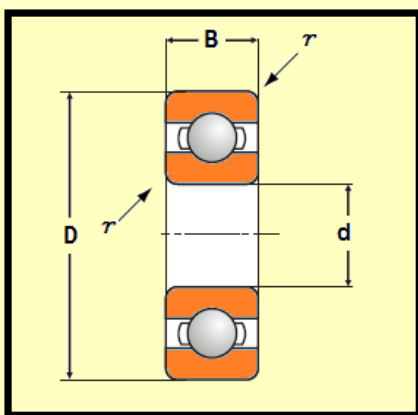


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The shaft dimensions and housing dimensions around us in various Industrial applications are still continuing with Imperial standards along with Metric standards. To cater to the requirement of such applications, JK Pioneer “Inch Series” Deep Groove Industrial Ball Bearings are being introduced. The Bearing dimensions under these series conform to British Standard BS 292 : Part 2 : 1982.

JK Pioneer deep groove “Inch series” Industrial Ball Bearings are having the same deep raceway grooves like metric series, while all dimensional accuracies are maintained as per Imperial standards. These bearings can carry axial loads acting on both directions, in addition to radial loads, even at higher rotational speeds. JK Pioneer “Inch Series” bearings are being introduced in open type under LS and MS series



LS Series

JK Pioneer Bearing Size	Bearing Dimension					OTHER EQUIVALENT MAKE				
	Unit	BORE (d)	O/D (D)	WIDTH (B)	Radius (r)	NBC / FAG / HOFFMAN	SKF	R&M, RHP	NACHI/ KOYO/ NTN / NSK	RIV
LS 8	Inch	3/4	1.7/8	9/16	3/50	LS 8	RLS 6	LJ 3/4	RLS 6	PA 6
	mm	19.050	47.625	14.288	1.600					
LS 9	Inch	7/8	2	9/16	3/50	LS 9	RLS 7	LJ 7/8	RLS 7	PA 7
	mm	22.225	50.800	14.288	1.600					
LS 10	Inch	1	2.1/4	5/8	3/50	LS 10	RLS 8	LJ 1	RLS 8	PA 8
	mm	25.400	57.150	15.875	1.600					
LS 11 K	Inch	1.1/8	2.1/2	5/8	3/50	LS 11 K	RLS 9	LJ 1.1/8	RLS 9	PA 9
	mm	28.575	63.500	15.875	1.600					
LS 12 K	Inch	1.1/4	2.3/4	11/16	3/50	LS 12 K	RLS 10	LJ 1.1/4	RLS 10	PA 10
	mm	31.750	69.850	17.463	1.600					
LS 12 1/2	Inch	1.3/8	3	11/16	3/50	LS 12 1/2	RLS 11	LJ 1.3/8	RLS 11	PA 11
	mm	34.925	76.200	17.463	1.600					
LS 13	Inch	1.1/2	3.1/4	3/4	1/11	LS 13	RLS 12	LJ 1.1/2	RLS 12	PA 12
	mm	38.100	82.550	19.050	2.400					
LS 13 1/2	Inch	1.5/8	3.1/2	3/4	1/11	LS 13 1/2	RLS 13	LJ 1.5/8	RLS 13	PA 13
	mm	41.275	88.900	19.050	2.400					
LS 14	Inch	1.3/4	3.3/4	13/16	1/11	LS 14	RLS 14	LJ 1.3/4	RLS 14	PA 14
	mm	44.450	95.250	20.638	2.400					
LS 14 1/2	Inch	1.7/8	4	13/16	1/11	LS 14 1/2	RLS 15	LJ 1.7/8	RLS 15	PA 15
	mm	47.625	101.600	20.638	2.400					
LS 15	Inch	2	4	13/16	1/11	LS 15	RLS 16	LJ 2	RLS 16	PA 16
	mm	50.800	101.600	20.638	2.400					

Note : The “K” type bearing in this category should not be confused as Taper Bore. It is actually Snap Ring groove bearing, without any snap ring.

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MS Series

JK Pioneer Bearing Size	Bearing Dimension					OTHER EQUIVALENT MAKE				
	Unit	BORE (d)	O/D (D)	WIDTH (B)	Radius (r)	NBC / FAG / HOFFMAN	SKF	R&M, RHP	NACHI/ KOYO/ NTN / NSK	RIV
MS 9	Inch	7/8	2.1/4	11/16	3/50	MS 9	RMS 7	MJ 7/8	RMS 7	PB 7
	mm	22.225	57.150	17.463	1.600					
MS 10	Inch	1	2.1/2	3/4	1/11	MS 10	RMS 8	MJ 1	RMS 8	PB 8
	mm	25.400	63.500	19.050	2.400					
MS 11	Inch	1.1/8	2.13/16	13/16	1/11	MS 11	RMS 9	MJ 1.1/8	RMS 9	PB 9
	mm	28.575	71.438	20.638	2.400					
MS 12	Inch	1.1/4	3.1/8	7/8	1/11	MS 12	RMS 10	MJ 1.1/4	RMS 10	PB 10
	mm	31.750	79.375	22.225	2.400					
MS 12 1/2	Inch	1.3/8	3.1/2	7/8	1/11	MS 12 1/2	RMS 11	MJ 1.3/8	RMS 11	PB 11
	mm	34.925	88.900	22.225	2.400					
MS 13	Inch	1.1/2	3.3/4	15/16	1/11	MS 13	RMS 12	MJ 1.1/2	RMS 12	PB 12
	mm	38.100	95.250	23.813	2.400					
MS 13 1/2	Inch	1.5/8	4	15/16	1/11	MS 13 1/2	RMS 13	MJ 1.5/8	RMS 13	PB 13
	mm	41.275	101.600	23.813	2.400					
MS 14	Inch	1.3/4	4.1/4	1.1/16	1/11	MS 14	RMS 14	MJ 1.3/4	RMS 14	PB 14
	mm	44 9/20	107 19/20	26 82/83	2 2/5					
MS 14 1/2	Inch	1.7/8	4.1/2	1.1/16	1/11	MS 14 1/2	RMS 15	MJ 1.7/8	RMS 15	PB 15
	mm	47.625	114.300	26.988	2.400					
MS 15	Inch	2	4.1/2	1.1/16	1/11	MS 15	RMS 16	MJ 2	RMS 16	PB 16
	mm	50.800	114.300	26.988	2.400					

Applications :

The major applications of this category of Bearings are in Jute Industries, Textile Industries, Line shaft applications, Tanneries, Rice Mills and all machinery equipment following Imperial standards.

Few of Jute Mill Application details are as follows :

Bearing Size	Application Area
LS-8, LS-9, LS-10, LS-11, LS-12 ½,	Drawing Machine
LS-11, LS-12, LS-12 ½,	Mackroll Winding Machine
MS-7, MS-8, MS-9, MS-10	Jockey Pulley applications
MS-13 ½, Ms-14, MS-14 ½,	Carding Machine

Apart from the above, there are host of Machinery applications where Inch shaft are maintained

For 1 ¼ "shaft : MS-12 is used

For 1 ½" shaft : MS-13 is used

For 1 ¾" shaft : MS-14 is used

For 2" shaft : MS-15 is used.

As per market information, for MS-12 , MS-15 and LS-15, there is a huge scarcity in the market and shortage of such bearings. JK Pioneer Bearings can get an easy entry to Industrial segment through these particular ranges of Bearings, where, very few manufacturers could basically focus on these range.

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TECHNICAL DETAILS:

JK Pioneer Bearing Size	Bearing Dimension (In Inch)					Basic Load Rating (N)		Limiting Speed (rpm)		Mass (Kg)
	Unit	BORE (d)	O/D (D)	WIDTH (B)	Radius (r)	Dynamic C	Static C ₀	Grease	Oil	(Approx)
LS 8	Inch	3/4	1.7/8	9/16	3/50	11400	5900	15000	18000	0.110
	mm	19.050	47.625	14.288	1.600					
LS 9	Inch	7/8	2	9/16	3/50	12600	6800	14000	17000	0.125
	mm	22.225	50.800	14.288	1.600					
LS 10	Inch	1	2.1/4	5/8	3/50	16000	8700	12500	15000	0.166
	mm	25.400	57.150	15.875	1.600					
LS 11 K	Inch	1.1/8	2.1/2	5/8	3/50	17500	10100	12000	14000	0.225
	mm	28.575	63.500	15.875	1.600					
LS 12 K	Inch	1.1/4	2.3/4	11/16	3/50	20200	11800	10000	13000	0.307
	mm	31.750	69.850	17.463	1.600					
LS 12 1/2	Inch	1.3/8	3	11/16	3/50	24300	13700	10000	12000	0.364
	mm	34.925	76.200	17.463	1.600					
LS 13	Inch	1.1/2	3.1/4	3/4	1/11	27600	17000	9000	10000	0.439
	mm	38.100	82.550	19.050	2.400					
LS 13 1/2	Inch	1.5/8	3.1/2	3/4	1/11	29800	19400	8500	10000	0.518
	mm	41.275	88.900	19.050	2.400					
LS 14	Inch	1.3/4	3.3/4	13/16	1/11	31600	20800	8000	9500	0.654
	mm	44.450	95.250	20.638	2.400					
LS 14 1/2	Inch	1.7/8	4	13/16	1/11	48700	31200	7800	9200	0.710
	mm	47.625	101.600	20.638	2.400					
LS 15	Inch	2	4	13/16	1/11	48700	31200	7800	9200	0.671
	mm	50.800	101.600	20.638	2.400					
MS 9	Inch	7/8	2.1/4	11/16	3/50	16700	8300	13000	15000	0.213
	mm	22.225	57.150	17.463	1.600					
MS 10	Inch	1	2.1/2	3/4	1/11	20200	10400	12000	14000	0.267
	mm	25.400	63.500	19.050	2.400					
MS 11	Inch	1.1/8	2.13/16	13/16	1/11	25000	14400	10500	12500	0.363
	mm	28.575	71.438	20.638	2.400					
MS 12	Inch	1.1/4	3.1/8	7/8	1/11	29800	17100	9200	10500	0.480
	mm	31.750	79.375	22.225	2.400					
MS 12 1/2	Inch	1.3/8	3.1/2	7/8	1/11	36900	21600	8600	10000	0.639
	mm	34.925	88.900	22.225	2.400					
MS 13	Inch	1.1/2	3.3/4	15/16	1/11	36900	21600	8000	9500	0.764
	mm	38.100	95.250	23.813	2.400					
MS 13 1/2	Inch	1.5/8	4	15/16	1/11	47400	28300	7600	9000	0.862
	mm	41.275	101.600	23.813	2.400					
MS 14	Inch	1.3/4	4.1/4	1.1/16	1/11	55600	34200	7000	8300	1.084
	mm	44 9/20	107 19/20	26 82/83	2 2/5					
MS 14 1/2	Inch	1.7/8	4.1/2	1.1/16	1/11	62100	38500	6700	8000	1.240
	mm	47.625	114.300	26.988	2.400					
MS 15	Inch	2	4.1/2	1.1/16	1/11	62100	38500	6700	8000	1.189
	mm	50.800	114.300	26.988	2.400					