

KHS-LG[®]



ISO 9001:2015



Rod End Bearings



MAKING INDIA PROUD



KHS-LG[®]
ISO 9001:2015

KHS Innovation & Engineering LLP

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Sonale, Bhiwandi, Dist - Thane, Mumbai, Maharashtra, India.
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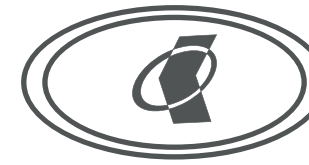
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INDEX

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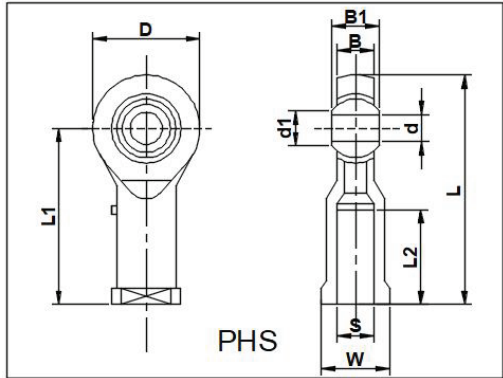
Rod End Bearings

Rod end bearings are compact, self aligning spherical bushings that can support a large radial load and a bi-directional axial load at the same time. they have either a female thread in the body or a male thread on the body, and they can be easily assembled on to machines. The PB type consists of spherical inner ring, an outer ring and a bushing and is assembled with a shaft and housing. The LHSA type are self aligning rod ends consisting of a special die-cast zinc alloy body and studded ball which has its axis at right angles to the body.

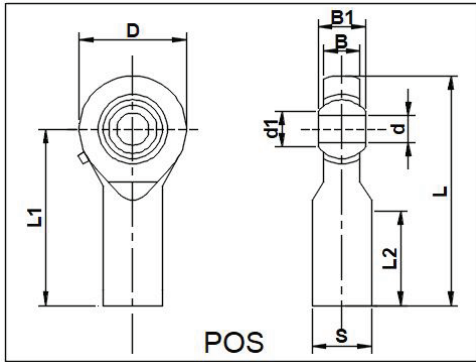
Bearings and rod ends requiring maintenance must be greased prior to being put into operation. With the exception of a few applications, they must be re-lubricated periodically. KHS -LG steel/steel radial spherical plain bearings are made of bearing steel and are through-hardened. These bearings are used primarily in applications where there are:

- Heavy static loads
- Heavy alternating loads
- Shock loads

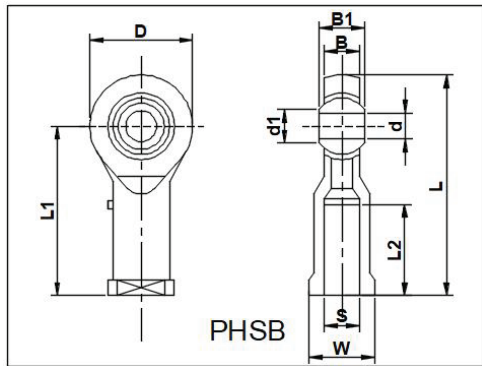
They are also relatively insensitive to contaminants and high temperatures. To facilitate re lubrication, lubrication holes and grooves are provided in both the inner and outer rings of all steel/steel radial spherical plain bearings – with the exception of a few small sizes.



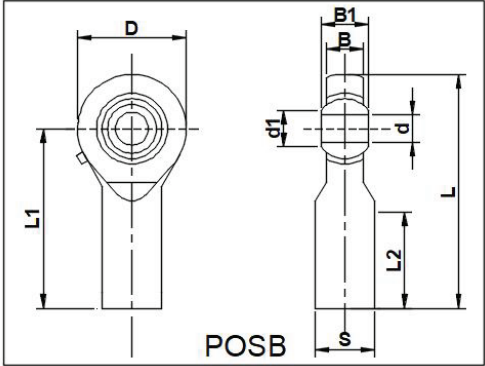
Designation	Weight (g)	Dimensions (mm)					Dimensions (mm)					Dynamic load capacity C (kN)	Static load capacity C ₀ (kN)
		d	Thread (s)	D	B	B1	d1	L	L1	L2	W		
PHS 3	5.7	3	M3 X 0.5	12	4.5	6	5.2	27	21	10	5.5	1.77	3.63
PHS 4	11.9	4	M4 X 0.7	14	5.3	7	6.5	31	24	12	8	2.45	4.61
PHS 5	16.5	5	M5 X 0.8	16	6	8	7.7	35	27	14	9	3.24	5.69
PHS 6	25	6	M6 X 1	20	6.75	9	9	40	30	14	11	4.22	6.96
PHS 8	43	8	M8 X 1.25	24	9	12	10.4	48	36	17	14	6.96	10.20
PHS 10	72	10	M10 X 1.5/1.25	28	10.5	14	12.9	57	43	21	17	9.81	13.34
PHS 12	107	12	M12 X 1.75/1.25/1.5	32	12	16	15.4	66	50	24	19	13.04	16.97
PHS 14	160	14	M14 X 2	36	13.5	19	16.9	75	57	27	22	16.77	20.89
PHS 16	210	16	M16 X 2/1.5	42	15	21	19.4	84	64	33	22	20.99	25.40
PHS 18	295	18	M18 X 1.5	46	16.5	23	21.9	93	71	36	27	25.69	30.21
PHS 20	380	20	M20 X 1.5/2.5	50	18	25	24.4	101	77	40	30	30.79	35.50
PHS 22	490	22	M22 X 1.5	54	20	28	25.8	109	84	43	32	37.36	41.78
PHS 25	750	25	M24 X 2	60	22	31	29.6	124	94	48	36	46.19	72.67
PHS 28	950	28	M27 X 2	66	25	35	32.3	136	103	53	41	58.35	86.99
PHS 30	1130	30	M30 X 2	70	25	37	34.8	145	110	56	41	62.27	92.19



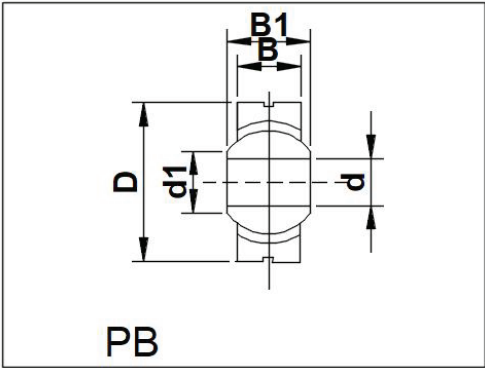
Designation	Weight (g)	Dimensions (mm)					Dimensions (mm)				Dynamic load capacity C (kN)	Static load capacity Co (kN)
		d	Thread (s)	D	B	B1	d1	L	L1	L2		
POS 3	5	3	M3 X 0.5	12	4.5	6	5.2	33	27	15	1.77	3.63
POS 4	8.1	4	M4 X 0.7	14	5.3	7	6.5	37	30	17	2.45	4.61
POS 5	12.5	5	M5 X 0.8	16	6	8	7.7	41	33	20	3.24	5.69
POS 6	19	6	M6 X 1	20	6.75	9	9	46	36	22	4.22	6.96
POS 8	32	8	M8 X 1.25	24	9	12	10.4	54	42	25	6.96	10.20
POS 10	54	10	M10 X 1.5/1.25	28	10.5	14	12.9	62	48	29	9.81	13.34
POS 12	85	12	M12 X 1.75/1.25	32	12	16	15.4	70	54	33	13.04	16.97
POS 14	126	14	M14 X 2	36	13.5	19	16.9	78	60	36	16.77	20.89
POS 16	185	16	M16 X 2	42	15	21	19.4	86	66	40	20.99	25.40
POS 18	260	18	M18 X 1.5	46	16.5	23	21.9	94	72	44	25.69	30.21
POS 20	340	20	M20 X 1.5	50	18	25	24.4	102	78	47	30.79	35.50
POS 22	435	22	M22 X 1.5	54	20	28	25.8	109	84	51	37.36	41.78
POS 25	650	25	M24 X 2	60	22	31	29.6	124	94	57	46.19	72.67
POS 28	875	28	M27 X 2	66	25	35	32.3	136	103	62	58.35	86.99
POS 30	1070	30	M30 X 2	70	25	37	34.8	145	110	66	62.27	92.19



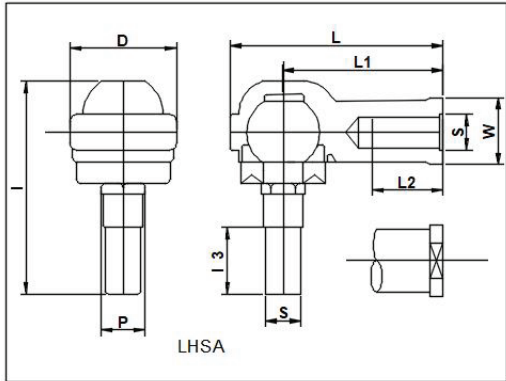
Designation	Weight (g)	Dimensions inch (mm)										Dimensions inch (mm)								Dynamic load capacity C (kN)	Static load capacity C ₀ (kN)		
		d		Thread (s)	D		B		B1		d1		L	L1		L2		W					
		inch	mm		inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	inch	mm				
PHSB 2	7	0.125	3.175	.1380-32 UNC	0.469	11.91	0.187	4.75	0.25	6.35		0.187	4.75	1.046	26.57	0.812	20.62	0.375	9.53	0.25	6.35	1.86	5.98
PHSB 2.5	11	0.1562	3.967	.1640-32 UNC	0.562	14.27	0.219	5.56	0.281	7.14		0.249	6.32	1.156	29.36	0.875	22.23	0.375	9.53	0.281	7.14	2.55	8.43
PHSB 3	15	0.19	4.826	.1900-32 UNF	0.625	15.88	0.25	6.35	0.312	7.92		0.306	7.77	1.375	34.93	1.062	26.97	0.562	14.27	0.312	7.92	3.43	9.32
PHSB 4	25	0.25	6.35	.2500-28 UNF	0.75	19.05	0.281	7.14	0.375	9.53		0.355	9.02	1.687	42.85	1.312	33.32	0.75	19.05	0.375	9.53	4.61	13.53
PHSB 5	36	0.3125	7.938	.3125-24 UNF	0.875	22.23	0.344	8.74	0.437	11.1		0.447	11.35	1.812	46.02	1.375	34.93	0.75	19.05	0.437	11.1	6.77	16.87
PHSB 6	61	0.375	9.525	.3750-24 UNF	1	25.4	0.406	10.31	0.5	12.7		0.517	13.13	2.125	53.98	1.625	41.28	0.937	23.8	0.562	14.27	9.22	22.16
PHSB 7	81	0.4375	11.112	.4375-20 UNF	1.125	28.58	0.437	11.1	0.562	14.27		0.586	14.88	2.375	60.33	1.812	46.02	1.062	26.97	0.625	15.38	11.28	26.77
PHSB 8	133	0.5	12.7	.5000-20 UNF	1.312	33.32	0.5	12.7	0.625	15.88		0.698	17.73	2.781	70.64	2.125	53.98	1.187	30.15	0.75	19.05	14.81	37.27
PHSB 10	190	0.625	15.875	.6250-18 UNF	1.5	38.1	0.562	14.27	0.75	19.05		0.839	21.31	3.25	82.55	2.5	63.5	1.5	38.1	0.875	22.23	20.01	40.21
PHSB 12	285	0.75	19.05	.7500-16 UNF	1.75	44.45	0.687	17.45	0.875	22.23		0.978	24.84	3.75	95.25	2.875	73.03	1.75	44.45	1	25.4	28.54	56.49
PHSB 16	1000	1	25.4	1.2500-12 UNF	2.75	69.85	1	25.4	1.375	34.925		1.269	32.23	5.5	139.7	4.125	104.78	2.125	53.98	1.5	38.1	59.33	86.79



Designation	Weight(g)		Dimensions inch (mm)								Dimensions inch (mm)								Dynamic load capacity C (kN)	Static load capacity Co (kN)	
			d		Thread(s)	D		B		B1		d1		L		L1		L2			
			inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			mm
POSB 2	5.5	0.125	3.175	.1380-32 UNC	0.469	11.91	0.187	4.75	0.25	6.35	0.187	4.75	1.172	29.77	0.937	23.8	0.5	12.7	1.86	2.26	
POSB 2.5	9	0.1562	3.967	.1640-32 UNC	0.562	14.27	0.219	5.56	0.281	7.14	0.249	6.32	1.406	35.71	1.125	28.58	0.625	15.88	2.55	3.43	
POSB 3	12.5	0.19	4.826	.1900-32 UNF	0.625	15.88	0.25	6.35	0.312	7.92	0.306	7.77	1.563	39.7	1.25	31.75	0.75	19.05	3.43	5.00	
POSB 4	22	0.25	6.35	.2500-28 UNF	0.75	19.05	0.281	7.14	0.375	9.53	0.355	9.02	1.937	49.2	1.562	39.67	1	25.4	4.61	9.12	
POSB 5	37	0.3125	7.938	.3125-24 UNF	0.875	22.23	0.344	8.74	0.437	11.1	0.447	11.35	2.312	58.72	1.875	47.63	1.25	31.75	6.77	14.61	
POSB 6	55	0.375	9.525	.3750-24 UNF	1	25.4	0.406	10.31	0.5	12.7	0.517	13.13	2.438	61.93	1.938	49.23	1.25	31.75	9.22	22.16	
POSB 7	78	0.4375	11.112	.4375-20 UNF	1.125	28.58	0.437	11.1	0.562	14.27	0.586	14.88	2.688	68.28	2.125	53.98	1.375	34.93	11.28	26.77	
POSB 8	120	0.5	12.7	.5000-20 UNF	1.312	33.32	0.5	12.7	0.625	15.88	0.698	17.73	3.094	78.59	2.438	61.93	1.5	38.1	14.81	37.27	
POSB 10	184	0.625	15.875	.6250-18 UNF	1.5	38.1	0.562	14.27	0.75	19.05	0.839	21.31	3.375	85.73	2.625	66.68	1.625	41.28	20.01	40.21	
POSB 12	293	0.75	19.05	.7500-16 UNF	1.75	44.45	0.687	17.45	0.875	22.23	0.978	24.84	3.75	95.25	2.875	73.03	1.75	44.45	28.54	56.49	
POSB 16	1100	1	25.4	1.2500-12 UNF	2.75	69.85	1	25.4	1.375	34.925	1.269	32.23	5.5	139.7	4.125	104.78	2.125	53.98	59.33	112.78	



Designation	Weight (g)	Dimensions (mm)					Dynamic load capacity C (kN)	Static load capacity Co (kN)
		d	D	B	B1	d1		
PB 5	8.5	5	16	6	8	7.7	3.24	7.85
PB 6	13	6	18	6.75	9	9	4.22	10.10
PB 8	24	8	22	9	12	10.4	6.96	16.77
PB 10	39	10	26	10.5	14	12.9	9.81	23.54
PB 12	58	12	30	12	16	15.4	13.04	31.38
PB 14	84	14	34	13.5	19	16.9	16.77	40.31
PB 16	111	16	38	15	21	19.4	20.99	50.41
PB 18	160	18	42	16.5	23	21.9	25.69	61.69
PB 20	210	20	46	18	25	24.4	30.79	73.94
PB 22	265	22	50	20	28	25.8	37.36	89.64
PB 25	390	25	56	22	31	29.6	46.19	110.82
PB 25	410	28	62	25	35	32.3	58.35	140.24
PB 30	610	30	66	25	37	34.8	62.27	149.07



Designation	Weight (g)	Dimensions (mm)				Dimensions (mm)				Static load capacity Co (kN)		
		Thread (S)	V	D	L	L1	L2	W	L	P	I 3	
LHSA 4	11	M4 X 0.7	4	14	25.5	18	8	8	19.5	5.5	5	0.88
LHSA 5	27	M5 X 0.8	5	17	38.5	30	16	10	32.5	8	10	1.18
LHSA 6	27	M6 X 1	6	19	39.5	30	16	10	32.5	8	10	1.67
LHSA 8	64	M8 X 1.25	8	24	48	36	19	14	41.5	10	12.5	4.32
LHSA 10	106	M10 X 1.25	10	28	57	43	23	17	49	12	17	7.36
LHSA 10 M	106	M10 X 1.5	10	28	57	43	23	17	49	12	17	7.36
LHSA 12	180	M12 X 1.75	12	34	67	50	27	19	64	14	20	9.91
LHSA 14	260	M14 X 2	14	38	76	57	30	22	72	17	22	14.61
LHSA 16	300	M16 X 2	16	40	84	64	36	22	74	19	23	19.52
LHSA 18	445	M18 X 1.5	18	45	93.5	71	40	27	84	22	25	25.60
LHSA 20	580	M20 X 1.5	20	49	101.5	77	43	30	90.5	24	27	31.48
LHSA 22	765	M22 X 1.5	22	54	111	84	47	32	99	27	30	39.72