

A rod end bearing, also known as a heim joint (N. America) or rose joint (U.K. and elsewhere), is a mechanical articulating joint. Such joints are used on the ends of control rods, steering links, tie rods, or anywhere a precision articulating joint is required, and where a clevis end (which requires perfect 90 degree alignment between the attached shaft and the second component) is unsuitable. A ball swivel with an opening through which a bolt or other attaching hardware may pass is pressed into a circular casing with a threaded shaft attached. The threaded portion may be either male or female.

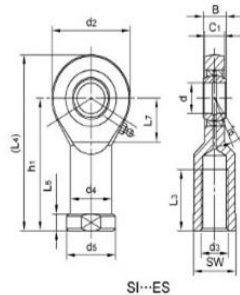
The heim joint's advantage is that the ball insert permits the rod or bolt passing through it to be misaligned to a limited degree (an angle other than 90 degrees).

A link terminated in two heim joints permits misalignment of their attached shafts (viz., other than 180 degrees) when used in tension. When used in compression, the through-rods are forced to the extreme ends of their ball's misalignment range, which cocks the link at an oblique angle.

Rod end bearing:SI-ES Series



Body: Carbon steel, Zinc plated, chromate treated
 SI...ES: Mounted with GE...ES type of radial spherical plain bearings
 Sliding contact surfaces: Steel/Steel



Motion(shanghai)Industrial Development Co.,Ltd

Part No.	Dimensions(mm)													Ball	a°	Load		Weight	
	d	B	C1	d2	d3-6H	h1	L3	(L4)	L5	L7	d4	d5	w	dia	mis.	angle	Cr	Cor	(KN)
SI15ES	15	12	10.5	40	M14	61	30	81	8	21	21	26	21	22	8	16	36	0.162	
SI17ES	17	14	11.5	46	M16	67	32	90	10	23	25	29	27	25	10	21	45	0.233	
SI20ES	20	16	13.5	53	M20x1.5	77	38	104	10	25.5	28	34	30	29	9	30	60	0.324	
SI25ES	25	20	18	64	M24x2	94	45	126	12	33	35	42	36	35.5	7	48	83	0.625	
SI30ES	30	22	20	73	M30x2	110	54	147	15	37.5	42	50	46	40.7	6	62	110	0.976	
SI35ES	35	25	22	82	M36x3	125	60	166	15	40	48	58	55	47	6	79	146	1.52	
SI40ES	40	28	24	92	M39x3	142	65	188	18	47	52	65	60	53	7	99	180	2.06	
SI45ES	45	32	28	102	M42x3	145	65	196	20	52	58	70	65	60	7	127	240	2.72	
SI50ES	50	35	31	112	M45x3	160	68	216	20	57	62	75	70	66	6	156	290	3.57	
SI60ES	60	44	39	135	M52x3	175	70	243	20	68.5	70	88	80	80	6	245	450	5.63	
SI70ES	70	49	43	160	M56x4	200	80	280	20	81	80	98	85	92	6	313	610	8.33	
SI80ES	80	55	48	180	M64x4	230	85	320	25	91	95	110	95	105	6	400	750	13.04	

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