

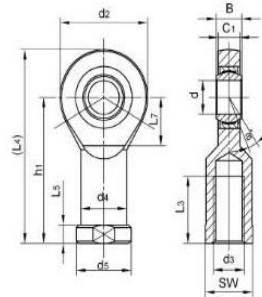
A rod end bearing, also known as a heim joint (N. America) or rose joint (U.K. and elsewhere), is a mechanical articulating joint. Such joints are used on the ends of control rods, steering links, tie rods, or anywhere a precision articulating joint is required, and where a clevis end (which requires 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-C Series



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



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.	(KN)		≈ kg	
															angle	Cr	Cor		
SI5C	5	6	4.5	21	M5	30	11	40.5	5	11.5	11	13	11	10	13	3.6	8.1	0.021	
SI6C	6	6	4.5	21	M6	30	11	40.5	5	11.5	11	13	11	10	13	3.6	8.1	0.021	
SI8C	8	8	6.5	24	M8	36	15	48	5	13	13	16	13	13	15	5.8	12.9	0.039	
SI10C	10	9	7.5	29	M10	43	20	57.5	6.5	15	16	19	16	16	12	8.6	17.6	0.061	
SI12C	12	10	8.5	34	M12	50	22	67	7	18	18	22	19	18	10	11	24.5	0.096	
SI15C	15	12	10.5	40	M14	61	30	81	8	21	21	26	21	22	8	18	36	0.162	
SI17C	17	14	11.5	46	M16	67	32	90	10	23	25	29	27	25	10	22	45	0.233	
SI20C	20	16	13.5	53	M20X1.5	77	38	103.5	10	25.5	28	34	30	29	9	31	60	0.324	
SI25C	25	20	18	64	M24x2	94	45	126	12	33	35	42	36	35.5	7	51	83	0.625	
SI30C	30	22	20	73	M30x2	110	54	146.5	15	37.5	42	50	46	40.7	6	65	110	0.976	

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