

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.

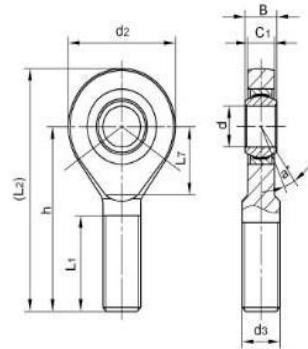
The heim joint's advantage is that the ball insert permits the rod or bolt passing through it to be misaligned to a limited degree (an angle other than 90 degrees).

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:SA-C Series



Body: Carbon steel, Zinc plated, chromate treated
SA..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	a0	Load Ratings		Weight
	d	B	C1	d2	d3-6g	h	L1	L2	L7	dia	mis.	(KN)		≈ kg
											angle	Cr	Cor	
SA5C	5	6	4.5	21	M5	36	16	46.5	12	10	13	3.6	4.6	0.017
SA6C	6	6	4.5	21	M6	36	16	46.5	12	10	13	3.6	6.9	0.017
SA8C	8	8	6.5	24	M8	42	21	54	13	13	15	5.8	12.9	0.029
SA10C	10	9	7.5	29	M10	48	26	62.5	16	16	12	8.6	17.6	0.044
SA12C	12	10	8.5	34	M12	54	28	71	18	18	10	11	24.5	0.066
SA15C	15	12	10.5	40	M14	63	34	83	22	22	8	18	36	0.121
SA17C	17	14	11.5	46	M16	69	36	92	24	25	10	22	45	0.172
SA20C	20	16	13.5	53	M20X1.5	78	43	104.5	27	29	9	31	60	0.283
SA25C	25	20	18	64	M24x2	94	53	126	33	35.5	7	51	83	0.504
SA30C	30	22	20	73	M30x2	110	65	146.5	37.5	40.7	6	65	110	0.835

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