

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.

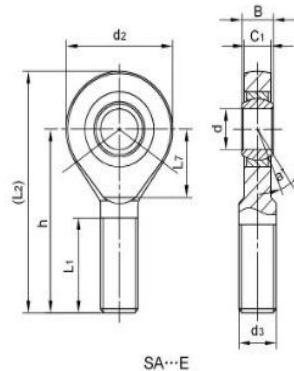
The heim joint's advantage is that the ball insert permits the rod or bolt passing through it to be misaligned to a limited degree (an angle other than 90 degrees).

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-E Series**



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



SA...E

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	
SA5E	5	6	4.5	21	M5	36	16	46.5	12	10	13	3.4	4.6	0.017
SA6E	6	6	4.5	21	M6	36	16	46.5	12	10	13	3.4	6.9	0.017
SA8E	8	8	6.5	24	M8	42	21	54	13	13	15	5.5	12.9	0.029
SA10E	10	9	7.5	29	M10	48	26	62.5	16	16	12	8.1	17.6	0.044
SA12E	12	10	8.5	34	M12	54	28	71	18	18	10	10	24.5	0.066

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