

# Stainless Steel Bearing Assemblies

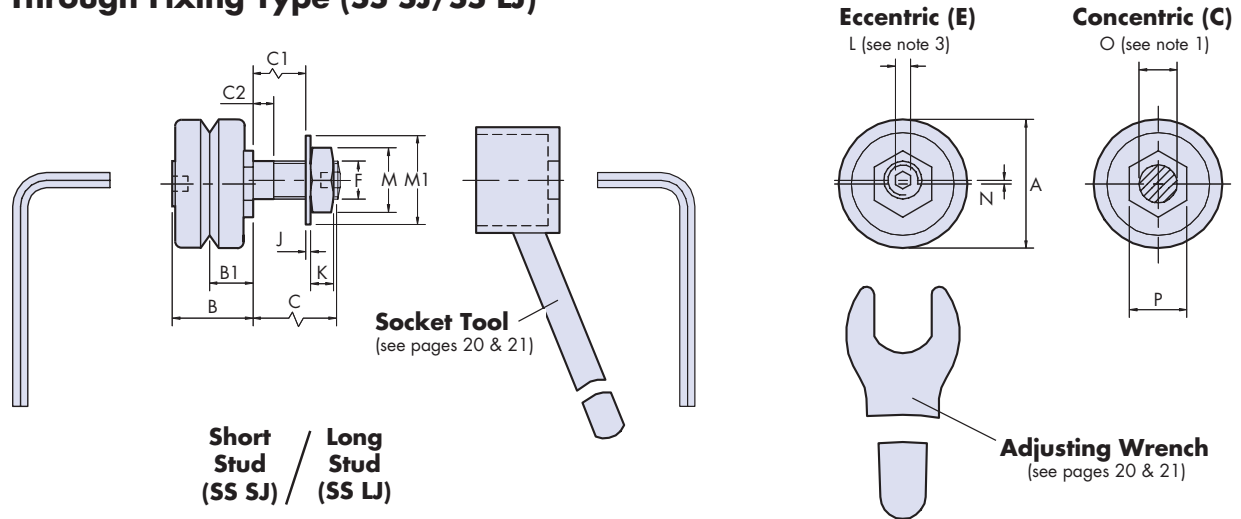


A number of Bearing Assembly options are available from Hepco in order to cater for most design requirements. The **Through Hole Fixing type** is available in two stud lengths covering most thicknesses of carriage or mounting plate, the short stud version being compatible with the Hepco Carriage Plates.

The **Blind Hole Fixing type** allows mounting into a solid machine base where through mounting holes are not possible, or where the thickness of the mounting plate is too great. The Blind Hole Fixing type is also useful where adjustment from the front is preferred, or where access to the opposite side of the mounting hole is restricted.

The Blind Hole Fixing eccentric type Bearing Assemblies will not accommodate Cap Seals, however Hepco Lubricators may be specified, as a means of applying lubrication to the system. Both varieties of Bearing Assembly are available with two types of bearing configuration.

## Through Fixing Type (SS SJ/SS LJ)



### Extended range of journals available - Contact our technical department for details

Part Number	For use with Slide Reference (see note 6)	A	B	B1	SS SJ	SS LJ	SS SJ	SS LJ	
					C	C	C1	C1	
SS SJ/SS LJ 13 C/E / SS BHJ 13 C/E	MS/NMS	12.7	10.1	5.46	5.8	9.5	3	6	
SS SJ/SS LJ 25 C/E / SS BHJ 25 C/E	S/NS	25	16.6	9	9.8	19	4	13	
SS SJ/SS LJ 34 C/E / SS BHJ 34 C/E	M/NM	34	21.3	11.5	13.8	22	6	14	
SS SJ/SS LJ 54 C/E / SS BHJ 54 C/E	L/NL	54	34.7	19	17.8	30	8	20	

Q	R	S	S1	T	T1	T2	±0.2 U	U1	V	W	X	Y	
1.5	1.0	6.25	8	8	3.75	6.75	30	47.5	8	20	M3 x 0.5	5.5	
3	1.5	7	8.5	12	5	10	50	72	14	32	M5 x 0.8	8.5	
4	2.0	9.5	8.5	17.5	6.5	12.5	60	90.5	17	42	M6 x 1	10	
8	3.0	14.5	14	23.5	10.5	18.5	89.5	133	25	62	M8 x 1.25	13	

#### Notes:

- It is recommended that holes to suit Bearing Assembly mounting studs should be reamed to tolerance as per dimension R on page 15.
- Thread form is metric fine. See dimension 'F' in table above.
- All Through Fixing type eccentric Bearing Assembly studs are supplied with sockets for adjustment as shown, with the exception of size 13.
- Nuts and washers are supplied with all Through Fixing type Bearing Assemblies.
- 'R' dimension is both the eccentric offset of the adjusting nut and the total adjustment available at the bearing centre line for 360° rotation of the adjusting nut.
- Each size of Bearing Assembly has been designed for use with a specific thickness of Slide. This is designated within the Slide part number by references as shown in the table above. However, any Bearing Assembly may be used in conjunction with any Slide according to practicality of design (see note 1 page 6).
- Double Row Bearing Assemblies are not available for size 13 Bearing Assemblies.
- Controlled height (CHK) bearings are selected ± 0.010mm bands in respect of the B1 dimension. They are supplied in sets of up to 50 parts as standard, with larger sets on request.

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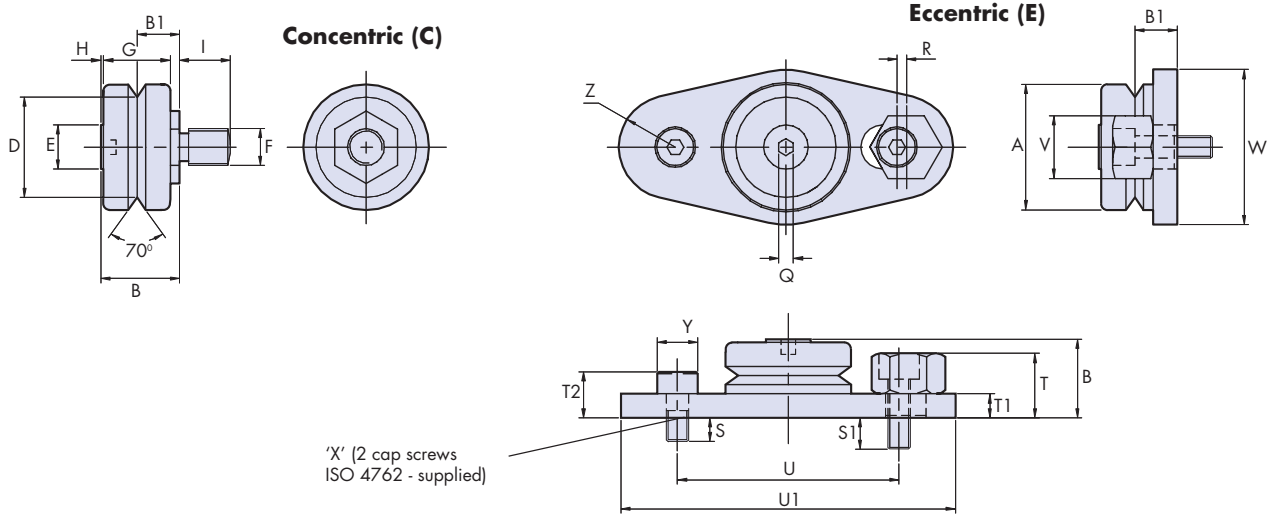


The **Twin Bearing type** comprises two individual deep groove ball bearings on a single stud. This construction offers some compliance, which allows smoother running and is more tolerant of misalignment or uneven mounting surface. The **Double Row type** (see note 7) is a one piece construction bearing with two ball tracks. This removes potential dirt traps and offers higher load capacity (particularly radially), plus longer life.

Both types of bearing have been designed specially for slide system applications and the performance confirmed by rigorous testing. Their external dimensions are identical.

The **Controlled Height Bearing** option (CHK) minimises variation between bearings in respect of the important 'B1' dimension. This is desirable in high precision applications\*8.

## Blind Hole Fixing Type (SS BHJ)

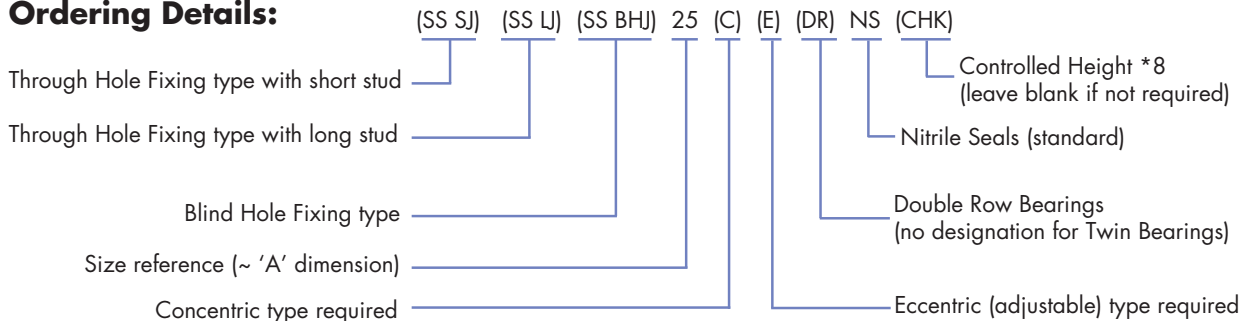


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		$\pm 0.025$												$+0.00$ $-0.03$	
	<b>C2</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>M1</b>	<b>N</b>	<b>O</b>	<b>P</b>
	2.5	9.51	5	M4 x 0.5	8	0.5	6	0.8	2	-	7	9	0.5	4	7
	2.5	20.27	10	M8 x 1	14	0.5	10	1	5	3	13	17	0.75	8	13
	5.5	27.13	12	M10 x 1.25	18	0.7	14	1.25	6	4	17	21	1.0	10	15.2
	6	41.76	25	M14 x 1.5	28	1.6	18	1.6	8	6	22	28	1.5	14	27

	<b>Z</b>	<b>Mass ~g</b>				<b>Part Number</b>
		<b>SS SJ C/E</b>	<b>SS LJ C/E</b>	<b>SS BHJ C</b>	<b>SS BHJ E</b>	
	8	8	8	7	27	SS SJ/LJ 13 C/E / SS BHJ 13 C/E
	10	48	51	43	105	SS SJ/LJ 25 C/E / SS BHJ 25 C/E
	14	115	120	105	235	SS SJ/LJ 34 C/E / SS BHJ 34 C/E
	20	415	425	390	800	SS SJ/LJ 54 C/E / SS BHJ 54 C/E

## Ordering Details:



## Example:

2 x SS SJ 34 C NS Stainless steel short stud size 34 concentric Bearing Assemblies with Twin bearings and standard Nitrile Seals  
 2 x SS SJ 34 E NS Stainless steel short stud size 34 eccentric Bearing Assemblies with Twin Bearings and standard Nitrile Seals