

THK Linear Bearing Slide Guide Block

Linear Guides are [a block and rail system](#) that helps support the motion of an application.

How linear Guides Work

There are two parts to the Linear Guide System: the Linear Block and the Linear Rail. The linear block moves along the linear rail along the plane the rail is positioned for. The block moves forward and backward along the straight linear rail. Linear blocks connect to the moving components by mounting to the block to support the motion for the specified component. The motion is created along the rail through recirculating ball bearings within the block that is contacted on the rail.

Basic Types of Linear Guides

Two basic types of linear guides are predominantly used in industry today. These types are: sliding contact linear motion bearing and rolling element linear motion bearing guides. The main distinction between the two is how the motion of the linear block occurs along the linear rail.

Specification of Linear Guide Rail :

Model No.	Outer dimensions			Basic load rating					
	Height	Width	Length	Radial		Reverse radial		Side	
	H	W	L	Dynami	Static	Dynami	Static	Dynam	Static
	mm	mm	mm	c		c		ic	
				rating	rating	rating	rating	rating	rating
				C	C0	CL	C0L	CT	C0T
HSR 20LA	30	63	90	21.3	31.8	21.3	31.8	21.3	31.8
HSR 20LAM	30	63	90	21.3	31.8	21.3	31.8	21.3	31.8
HSR 25LA	36	70	102.2	27.2	45.9	27.2	45.9	27.2	45.9
HSR 25LAM	36	70	102.2	27.2	45.9	27.2	45.9	27.2	45.9
HSR 30LA	42	90	120.6	37.3	62.5	37.3	62.5	37.3	62.5
HSR 30LAM	42	90	120.6	37.3	62.5	37.3	62.5	37.3	62.5
HSR 35LA	48	100	134.8	50.2	81.5	50.2	81.5	50.2	81.5
HSR 35LAM	48	100	134.8	50.2	81.5	50.2	81.5	50.2	81.5
HSR 45LA	60	120	170.8	80.4	127	80.4	127	80.4	127
HSR 55LA	70	140	201.1	119	183	119	183	119	183
HSR 65LA	90	170	245.5	192	286	192	286	192	286
HSR 85LA	110	215	303	282	412	282	412	282	412

Applications that Use Linear Guides

Linear guides are used to move a machine table in either the X or Y direction. Applications which require high precision use linear guides due to their high accuracy and precision capabilities.

PART NUMBER/CODE	BRAND	DESCRIPTION	QTY
RA451240BNC2K02P5 3	NSK	LINEAR GUIDE 70MMX86MMX1240MM	2
30TAC62BDFFC9PN7 A	NSK	BEARING INSIDE DIA 30MM OUTER DIA 62MM WIDTH 60MM	1
RA301040ANC2K03P5 3	NSK	LINEAR GUIDE 45MMX60MMX1040MM	2
RA451000ANC2K09P5 3	NSK	LINEAR GUIDE 70MMX86MMX1000MM	2
30TAC62BDFDC9PN7 A	NSK	BEARING INSIDE DIA 30MM OUTER DIA 45MM WIDTH 60MM	2
35TAC72BDFFC9PN7 A	NSK	BEARING INSIDE DIA 35MM OUTER DIA 72MM WIDTH 60MM	2
HSR25R1SSC1+460L	THK	LINEAR GUIDE 40MMX48MMX460MM	2
HSR25R1SSC1+160L	THK	LINEAR GUIDE 40MMX48MMX160MM	2
BNT2010-2.6ZZ+410LT	THK	BALL SCREW 46MMX48MMX410MM	2

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