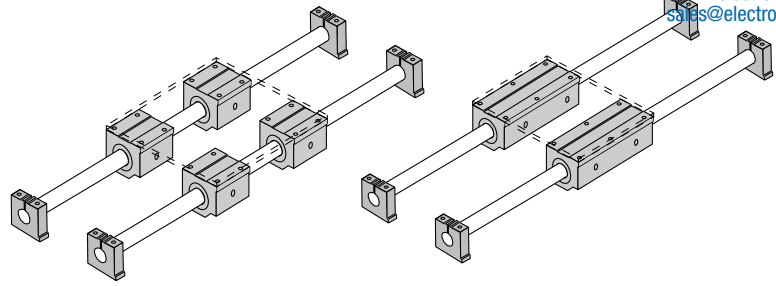


End Support 1NB

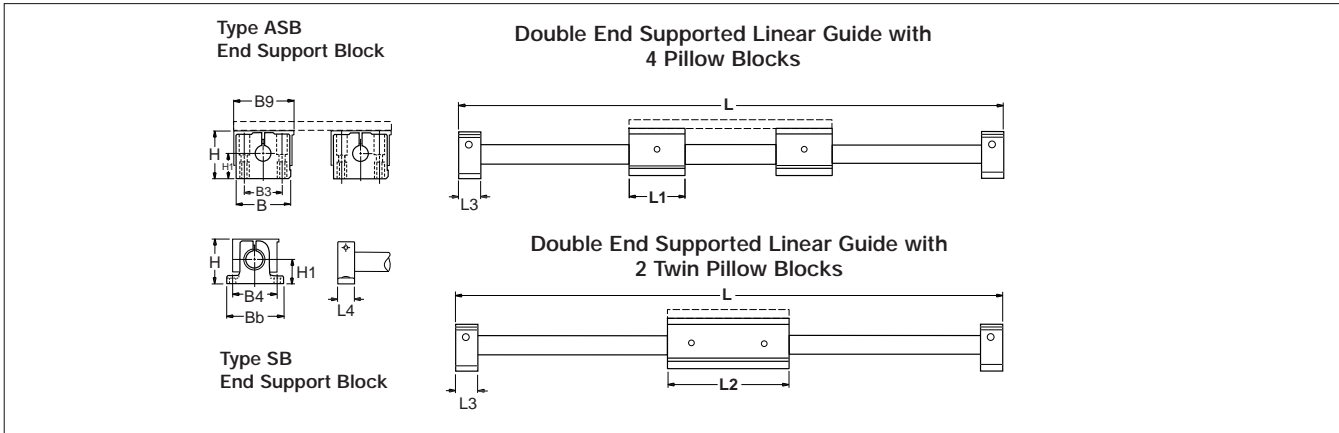
Linear Guide #9

End Supported,
Industry Standard Dimension



Linear Guides

METRIC



End Support Linear Guide 1NB with 4 Pillow Blocks (Dimensions in mm)

Part Number		Nom. Dia.	L1	L3	L4	H	H1	B	Bb	B9	Pillow Block	Shaft Support	
W/ Type ASB Shaft Supports	W/ Type SB Shaft Supports											Type ASB	Type SB
1NB-M08-NMO	1NB-M08-NNO	8	32	18	10	30	15	32	32	35	SPPB-M08-XS	ASB-M08-XS	SB-M08-XS
1NB-M12-NMO	1NB-M12-NNO	12	39	20	12	38	20	43	42	43	SSEPBM12-XS	ASB-M12-XS	SB-M12-XS
1NB-M16-NMO	1NB-M16-NNO	16	43	24	16	47	25	53	50	53	SSEPBM16-XS	ASB-M16-XS	SB-M16-XS
1NB-M20-NMO	1NB-M20-NNO	20	54	30	20	55	30	60	60	60	SSEPBM20-XS	ASB-M20-XS	SB-M20-XS
1NB-M25-NMO	1NB-M25-NNO	25	67	38	25	65	35	78	74	78	SSEPBM25-XS	ASB-M25-XS	SB-M25-XS
1NB-M30-NMO	1NB-M30-NNO	30	79	40	28	75	40	87	84	87	SSEPBM30-XS	ASB-M30-XS	SB-M30-XS
1NB-M40-NMO	1NB-M40-NNO	40	91	48	32	95	50	108	108	108	SSEPBM40-XS	ASB-M40-XS	SB-M40-XS

End Support Linear Guide 1NB with 2 Twin Pillow Blocks (Dimensions in mm)

Part Number		Nom. Dia.	L2	L3	L4	H	H1	B	Bb	B9	Pillow Block	Shaft Support	
W/ Type ASB Shaft Supports	W/ Type SB Shaft Supports											Type ASB	Type SB
1NB-M08-PMO	1NB-M08-PNO	8	62	18	10	30	15	32	32	35	SPTWN-M08-XS	ASB-M08-XS	SB-M08-XS
1NB-M12-PMO	1NB-M12-PNO	12	76	20	12	38	20	43	42	43	SSETWN-M12-XS	ASB-M12-XS	SB-M12-XS
1NB-M16-PMO	1NB-M16-PNO	16	84	24	16	47	25	53	50	53	SSETWN-M16-XS	ASB-M16-XS	SB-M16-XS
1NB-M20-PMO	1NB-M20-PNO	20	104	30	20	55	30	60	60	60	SSETWN-M20-XS	ASB-M20-XS	SB-M20-XS
1NB-M25-PMO	1NB-M25-PNO	25	130	38	25	65	35	78	74	78	SSETWN-M25-XS	ASB-M25-XS	SB-M25-XS
1NB-M30-PMO	1NB-M30-PNO	30	152	40	28	75	40	87	84	87	SSETWN-M30-XS	ASB-M30-XS	SB-M30-XS
1NB-M40-PMO	1NB-M40-PNO	40	176	48	32	95	50	108	108	108	SSETWN-M40-XS	ASB-M40-XS	SB-M40-XS

Shaft Deflection Note:

Load limit may be below the dynamic load rating due to shaft deflection. Bearings can accommodate up to 1/2° deflection. See Engineering Section (pg 204) for Deflection calculations.

End Support Linear Guide

1NB Benefits:

- Requires only one part number to specify entire linear guide.
- Available with 60 Case* LinearRace* shaft end support blocks in either light weight aluminum or rigid iron materials.
- Used in end supported applications when spanning or bridging a gap.

End Support Linear Guide

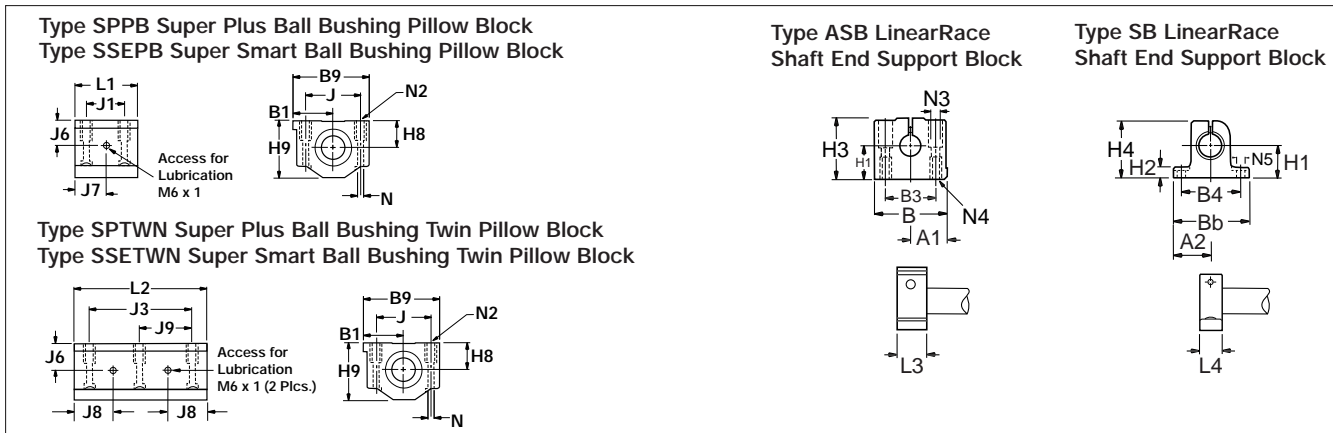
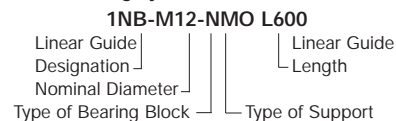
1NB Components: †

- 4 Super Smart Ball Bushing* pillow blocks or 2 Super Smart Ball Bushing twin pillow blocks.
- 2 60 Case LinearRace shafts.

Specifying a Thomson Linear guide:

1. Determine the proper system for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in millimeters, as a suffix to the part number.

Part Numbering System



Type SPPB and SSEPB Pillow Blocks (Dimensions in mm)

Part Number	Nom. Dia.	L1	H8	H9	B1	B9	J	J1	J6	J7	N Dia.	N2	Mass kg
SPPB-M08-XS	8	32	15	28	17,5	35	25	20	15	19,5	3,3	M4	0,07
SSEPBM12-XS	12	39	18	35	21,5	43	32	23	18	23,0	4,3	M5	0,13
SSEPBM16-XS	16	43	22	42	26,5	53	40	26	22	25,0	5,3	M6	0,20
SSEPBM20-XS	20	54	25	50	30,0	60	45	32	25	30,5	6,6	M8	0,35
SSEPBM25-XS	25	67	30	60	39,0	78	60	40	30	37,0	8,4	M10	0,66
SSEPBM30-XS	30	79	35	70	43,5	87	68	45	35	43,0	8,4	M10	0,99
SSEPBM40-XS	40	91	45	90	54,0	108	86	58	45	49,0	10,5	M12	1,83

Housing Material: Aluminum Alloy Grey Anodized

Type SPTWN and SSETWN Pillow Blocks

Part Number	Nom. Dia.	L2	J3	J8	J9	Mass kg
SPTWN-M08-XS	8	62	50	19,5	25	0,15
SSETWN-M12-XS	12	76	56	23,0	28	0,27
SSETWN-M16-XS	16	84	64	25,0	32	0,41
SSETWN-M20-XS	20	104	76	30,5	38	0,73
SSETWN-M25-XS	25	130	94	37,0	47	1,37
SSETWN-M30-XS	30	152	106	43,0	53	2,04
SSETWN-M40-XS	40	176	124	49,0	62	3,73

Housing Material: Aluminum Alloy Grey Anodized

Type ASB LinearRace Shaft End Support Block

Part Number	Nom. Dia.	A1	B	B3	H1	H3	L3	N3 Dia.	N4	Mass kg
ASB-M08-XS	8	16,0	32	22	15	28	18	3,5	M4	0,04
ASB-M12-XS	12	21,5	43	30	20	36	20	5,3	M6	0,10
ASB-M16-XS	16	26,5	53	38	25	43	24	6,6	M8	0,15
ASB-M20-XS	20	30,0	60	42	30	51	30	8,4	M10	0,23
ASB-M25-XS	25	39,0	78	56	35	61	38	10,5	M12	0,41
ASB-M30-XS	30	43,5	87	64	40	71	40	10,5	M12	0,53
ASB-M40-XS	40	54,0	108	82	50	88	48	13,5	M16	0,99

End Support Material: Aluminum Alloy Grey Anodized

Type SB LinearRace Shaft End Support Block

Part Number	Nom. Dia.	A2	B4	Bb	H1	H2	H4	L4	N5 Dia.	Mass kg
SB-M08-XS	8	16	25	32	15	5,2	27	10	4,5	0,03
SB-M12-XS	12	21	32	42	20	5,5	35	12	5,5	0,06
SB-M16-XS	16	25	40	50	25	6,5	42	16	5,5	0,11
SB-M20-XS	20	30	45	60	30	8,0	50	20	5,5	0,21
SB-M25-XS	25	37	60	74	35	9,0	58	25	6,6	0,35
SB-M30-XS	30	42	68	84	40	10,0	68	28	9,0	0,52
SB-M40-XS	40	54	86	108	50	12,0	86	32	11,0	0,92

End Support Material: Iron

Dynamic Load Capacity Matrix (100 km travel)

Linear Guide Assembly Part No.	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (N)
1NB-M08-NMO	1240	SPPB-M08-XS	310
1NB-M12-NMO	2600	SSEPBM12-XS	650
1NB-M16-NMO	8800	SSEPBM16-XS	2200
1NB-M20-NMO	16000	SSEPBM20-XS	4000
1NB-M25-NMO	26800	SSEPBM25-XS	6700
1NB-M30-NMO	33200	SSEPBM30-XS	8300
1NB-M40-NMO	54800	SSEPBM40-XS	13700

Dynamic Load Capacity Matrix (100 km travel)

Linear Guide Assembly Part No.	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (N)
1NB-M08-PMO	1000	SPTWN-M08-XS	500
1NB-M12-PMO	2120	SSETWN-M12-XS	1060
1NB-M16-PMO	8800	SSETWN-M16-XS	4400
1NB-M20-PMO	16000	SSETWN-M20-XS	8000
1NB-M25-PMO	26800	SSETWN-M25-XS	13400
1NB-M30-PMO	33200	SSETWN-M30-XS	16600
1NB-M40-PMO	54800	SSETWN-M40-XS	27400

† Super Plus Ball Bushing* bearings are used in 8 mm size pillow blocks.