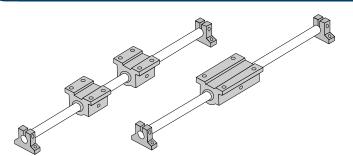


Linear Guides

Undriven Building Blocks for Customized Applications &
Ball Screw Assemblies for Actuation of Linear Guides in Custom Applications





Features

- 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 to provide increased stability or torque resistance in linear system applications

Components

- 2 Super Smart Ball Bushing* pillow blocks or 1 Super Smart Ball Bushing twin pillow block.
- 1 60 Case* LinearRace* shaft
- 2 shaft end support blocks

End Support 1BA

End Supported, Industry Standard Dimension Inch

Specifying this Thomson Linear Guide:

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

Part Numbering System



Dimensions (Inch)

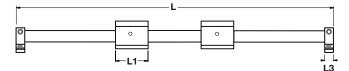




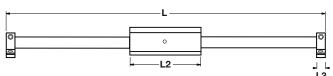


Type SB End Support Block

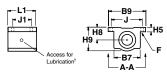
Single End Supported Linear Guide with 2 Pillow Blocks



Single End Supported Linear Guide with 1 Twin Pillow Block

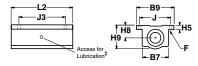


Type SSUPB Super Smart Ball Bushing Pillow Block Type SPB Super Ball Bushing Pillow Block

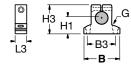


Type SSUTWN Super Smart Ball Bushing Twin Pillow Block

Type TWN Super Ball Bushing Twin Pillow Block



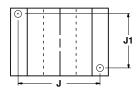
ALUMINUM
Type ASB LinearRace Shaft
End Support Block



STEEL
Type SB LinearRace Shaft
End Support Block



Type SPB Super Ball Bushing Pillow Block Mounting Hole Position for Sizes .250 and .375



View A-A

[‡] Sizes .250, .375 and .500 have oil lubricant fitting. Sizes .625 and above have ½-28 access for lubrication.



Website: www.linearactuators.com

End Support 1BA

End Support L	inear Guide 1E	BA with 2 Pil	low Bloc	ks							(Dimension	s in inches)
Part N	umber	Nominal	L1	L3	Н	HS	В	Bb	В9	Pillow	Shaft Su	ipport
W/ Type ASB	W/ Type SB	Diameter								Block	Туре	Туре
Shaft	Shaft										ASB o	r SB
Supports	Supports											
1BA-04-AHO	-	.250	1.19	.50	.937	-	1.50	-	1.63	SPB-4-XS	ASB-4-XS	-
1BA-06-AHO	_	.375	1.31	.56	1.062	_	1.63	-	1.75	SPB-6-XS	ASB-6-XS	-
1BA-08-AHO	1BA-08-AJO	.500	1.69	.63	1.562	1.687	2.00	2.00	2.00	SSUPB-8-XS	ASB-8-XS	SB-8-XS
1BA-12-AHO	1BA-12-AJO	.750	2.06	.75	2.062	2.187	2.50	2.75	2.75	SSUPB-12-XS	ASB-12-XS	SB-12-XS
1BA-16-AHO	1BA-16-AJO	1.000	2.81	1.00	2.562	2.687	3.25	3.25	3.25	SSUPB-16-XS	ASB-16-XS	SB-16-XS
-	1BA-20-AJO	1.250	3.63	1.13	-	3.250	-	-	4.00	SSUPB-20-XS	-	SB-20-XS
1BA-24-AHO	1BA-24-AJO	1.500	4.00	1.25	3.750	3.750	4.75	4.75	4.75	SSUPB-24-XS	ASB-24-XS	SB-24-XS

End Support Li	near Guide 1B	A with 1	Twin Pil	low Blo	ck							(Dimensions	in inches)
Part N	umber	Nom.	L2	L3	Н	HS	В	Bb	В9	Max.	Pillow	Shaft S	upport
W/ Type ASB	W/ Type SB	Dia.								Stroke	Block	Туре	Туре
Shaft	Shaft									Length		ASB	SB
Supports	Supports												
1BA-04-BHO	-	.250	2.50	.50	.937	-	1.50	-	1.63	L-(3.50)	TWN-4-XS	ASB-4-XS	-
1BA-06-BHO	-	.375	2.75	.56	1.062	_	1.63	_	1.75	L-(3.88)	TWN-6-XS	ASB-6-XS	-
1BA-08-BHO	1BA-08-BJO	.500	3.50	.63	1.562	1.687	2.00	2.00	2.00	L-(4.75)	SSUTWN-8-XS	ASB-8-XS	SB-8-XS
1BA-12-BHO	1BA-12-BJO	.750	4.50	.75	2.062	2.187	2.50	2.75	2.50	L-(6.00)	SSUTWN-12-XS	ASB-12-XS	SB-12-XS
1BA-16-BHO	1BA-16-BJO	1.000	6.00	1.00	2.562	2.687	3.25	3.25	3.25	L-(8.00)	SSUTWN-16-XS	ASB-16-XS	SB-16-XS
_	1BA-20-BJO	1.250	7.50	1.13	-	3.250	-	4.00	4.00	L-(9.75)	SSUTWN-20-XS	_	SB-20-XS
1BA-24-BHO	1BA-24-BJO	1.500	9.00	1.25	3.750	3.750	4.75	4.75	4.75	L-(11.50)	SSUTWN-24-XS	ASB-24-XS	SB-24-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 B-67) for Deflection calculations.

Dynamic Load	Capacity Mat	trix	(4 million i	inches travel)	Dynamic Load	l Capacity Ma	trix	(4 million i	nches travel)
Asse	,	Dynamic Load Capacity (lb _f) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (lb _f)	Asse	Guide embly t No.	Dynamic Load Capacity (lb _f) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (lb _f)
1BA-04-AHO	Part No. (Even Distribution 4-AHO — 100 6-AHO — 160		SPB-4-XS	50	1BA-04-BHO	-	100	TWN-4-XS	100
1BA-06-AHO	_	160	SPB-6-XS	80	1BA-06-BHO	-	160	TWN-6-XS	160
1BA-08-AHO	1BA-08-AJO	800	SSUPB-8-XS	400	1BA-08-BHO	1BA-08-BJO	800	SSUTWN-8-XS	800
1BA-12-AHO	1BA-12-AJO	1800	SSUPB-12-XS	900	1BA-12-BHO	1BA-12-BJO	1800	SSUTWN-12-XS	1800
1BA-16-AHO	1BA-16-AJO	3000	SPSUB-16-XS	1500	1BA-16-BHO	1BA-16-BJO	3000	SPSTWN-16-XS	3020
-	1BA-20-AJO	3730	SSUPB-20-XS	1865	-	1BA-20-BJO	3730	SSUTWN-20-XS	1865
1BA-24-AHO	1BA-24-AJO	6160	SSUPB-24-XS	3080	1BA-24-BHO	1BA-24-BJO	6160	SSUTWN-24-XS	6160

[†] Super Ball Bushing* bearings are used in .250 and .375 inch size pillow blocks.

Replacement Component Dimensions

				-													
Type SPB and SS	SUPB P	illow B	locks						(Dimens	ions in I	nches)	Type TWN an	d SSUT	WN Pill	ow Blo	cks
Part Number	Nom. Dia.	L1	Н9	Н8	H5	В9	В7	J	J1	Bolt	F Hole	Wt. Ib	Part Number	Nom. Dia.	L2	J3	Wt. Ib
SPB-4-XS	.250	1.19	.81	.437	.19	1.63	1.00	1.31	.75(2)	#6	.16	.10	TWN-4-XS	.250	2.50	2.00	.19
SPB-6-XS	.375	1.31	.94	.500	.19	1.75	1.12	1.44	.88(2)	#6	.16	.13	TWN-6-XS	.375	2.75	2.25	.25
SSUPB-8-XS	.500	1.69	1.25	.687	.25	2.00	1.38	1.69	1.00	#6	.16	.20	SSUTWN-8-XS	.500	3.50	2.50	.40
SSUPB-12-XS	.750	2.06	1.75	.937	.31	2.75	1.88	2.38	1.25	#8	.19	.62	SSUTWN-12-XS	.750	4.50	3.50	1.24
SSUPB-16-XS	1.000	2.81	2.19	1.187	.38	3.25	2.38	2.88	1.75	#10	.22	1.24	SSUTWN-16-XS	1.000	6.00	4.50	2.48
SSUPB-20-XS	1.250	3.63	2.81	1.500	.43	4.00	3.00	3.50	2.00	#10	.22	2.57	SSUTWN-20-XS	1.250	7.50	5.50	5.14
SSUPB-24-XS	1.500	4.00	3.25	1.750	.50	4.75	3.50	4.12	2.50	1/4	.28	3.94	SSUTWN-24-XS	1.500	9.00	6.50	8.08

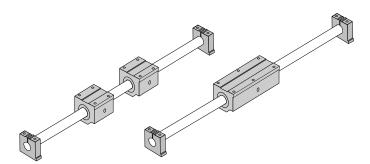
Housing Material: Aluminum Alloy Black Anodized (2)Two mounting holes as shown in view A-A for sizes .250 and .375 Top plates are sold separately. Please refer to page B-60 under Accessories for P/N and dimensions.

Housing Material: Aluminum Alloy Black Anodized

Type ASB Line	earRace	Shaft	End Su	pport B	lock					Type SB Li	nearRa	ce Sh	aft Er	nd Sup	port l	Block			
Part	Nom.	L3	НЗ	H1	В	В3	(ì	Wt.	Part	Nom.	L3	Hh	Нс	Bb	В3	(Ĵ	Wt.
Number	Dia.						Bolt	Hole	lb	Number	Dia.						Bolt	Hole	lb
ASB-04-XS	.250	.50	.88	.500	1.50	1.12	#6	.16	.06	SB-8-XS	.500	.63	1.62	1.000	2.00	1.50	#8	.19	.3
ASB-06-XS	.375	.56	1.00	.562	1.62	1.25	#6	.16	.08	SB-12-XS	.750	.75	2.12	1.250	2.75	2.00	#10	.22	.5
ASB-08-XS	.500	.63	1.48	.875	2.00	1.50	#8	.19	.11	SB-16-XS	1.000	1.00	2.56	1.500	3.25	2.50	1/4	.28	1.0
ASB-12-XS	.750	.75	1.95	1.125	2.50	2.00	#10	.22	.22	SB-20-XS	1.250	1.13	3.00	1.750	4.00	3.00	⁵ /16	.34	2.0
ASB-16-XS	1.000	1.00	2.48	1.375	3.25	2.50	1/4	.28	.44	SB-24-XS	1.500	1.25	3.50	2.000	4.75	3.50	5/16	.34	2.6
ASB-24-XS	1.500	1.250	3.50	2.000	4.75	3.50	⁵ /16	.34	1.16	Material: Iron									

End Support Material: Aluminum Alloy Black Anodized





Features

- 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 to provide increased stability or torque resistance in linear system applications

Components

- 2 Super Smart Ball Bushing* pillow blocks or 1 Super Smart Ball Bushing twin pillow block.
- 1 60 Case* LinearRace* shaft
- · 2 shaft end support blocks

End Support 1NA

End Supported, Industry Standard Dimension

Metric

Specifying this Thomson Linear Guide:

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

Part Numbering System

1NA-M12-NMO L600

Linear Guide
Designation
Nominal Diameter

Type of Bearing Block

Linear Guide
Length
Type of Support

Dimensions (Metric)

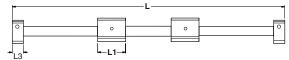




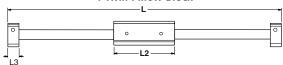


Type SB End Support Block

Supported Linear Guide with 2 Pillow Blocks

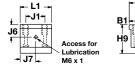


Supported Linear Guide with 1 Twin Pillow Block

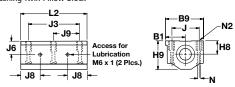


Maximum Stroke Length is determined by subtracting pillow block length (L2) and 2x support block length (L3) or (L4) from total Linear Guide length (L).

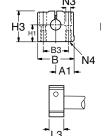
Type SPPB Super Plus Ball Bushing Pillow Block
Type SSEPB Super Smart Ball Bushing Pillow Block



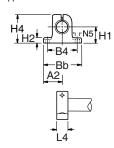
Type SPTWN Super Plus Ball Bushing Twin Pillow Block Type SSETWN Super Smart Ball Bushing Twin Pillow Block



ALUMINUM Type ASB LinearRace Shaft End Support Block



STEEL
Type SB LinearRace Shaft End
Support Block





HЯ

End Support 1NA

													_
End Support I	Linear Guide 1	NA with	2 Pillov	v Block	S							(Dimens	ions in mm)
Part Ni	umber	Nom.	L1	L3	L4	Н	H1	В	Bb	В9	Pillow	Shaft S	upport
W/ Type ASB	W/ Type SB	Dia.									Block	Type	Туре
Shaft	Shaft											ASB	SB
Supports	Supports												
1NA-M08-NMO	1NA-M08-NNO	8	32	18	10	30	15	32	32	35	SPPB-M08-XS	ASB-M08-XS	SB-M08-XS
1NA-M12-NMO	1NA-M12-NNO	12	39	20	12	38	20	43	42	43	SSEPB-M12-XS	ASB-M12-XS	SB-M12-XS
1NA-M16-NMO	1NA-M16-NNO	16	43	24	16	47	25	53	50	53	SSEPB-M16-XS	ASB-M16-XS	SB-M16-XS
1NA-M20-NMO	1NA-M20-NNO	20	54	30	20	55	30	60	60	60	SSEPB-M20-XS	ASB-M20-XS	SB-M20-XS
1NA-M25-NMO	1NA-M25-NNO	25	67	38	25	65	35	78	74	78	SSEPB-M25-XS	ASB-M25-XS	SB-M25-XS
1NA-M30-NMO	1NA-M30-NNO	30	79	40	28	75	40	87	84	87	SSEPB-M30-XS	ASB-M30-XS	SB-M30-XS
1NA-M40-NMO	1NA-M40-NNO	40	91	48	32	95	50	108	108	108	SSEPB-M40-XS	ASB-M40-XS	SB-M40-XS
End Support L	Linear Guide 1	NA with	1 Twin	Pillow I	Block							(Dimens	ions in mm)
Part N	umber	Nom.	L2	L3	L4	Н	H1	В	Bb	В9	Pillow	Shaft S	Support
W/ Type ASB	W/ Type SB	Dia.									Block	Type	Туре
Shaft	Shaft											ASB	SB
Supports	Supports												
1NA-M08-PMO	1NA-M08-PNO	8	62	18	10	30	15	32	32	35	SPTWN-M08-XS	ASB-M08-XS	SB-M08-XS
1NA-M12-PMO	1NA-M12-PNO	12	76	20	12	38	20	43	42	43	SSETWN-M12-XS	ASB-M12-XS	SB-M12-XS
1NA-M16-PMO	1NA-M16-PNO	16	84	24	16	47	25	53	50	53	SSETWN-M16-XS	ASB-M16-XS	SB-M16-XS
1NA-M20-PMO	1NA-M20-PNO	20	104	30	20	55	30	60	60	60	SSETWN-M20-XS	ASB-M20-XS	SB-M20-XS
1NA-M25-PMO	1NA-M25-PNO	25	130	38	25	65	35	78	74	78	SSETWN-M25-XS	ASB-M25-XS	SB-M25-XS
1NA-M30-PMO	1NA-M30-PNO	30	152	40	28	75	40	87	84	87	SSETWN-M30-XS	ASB-M30-XS	SB-M30-XS
1NA-M40-PMO	1NA-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 8-67) for Deflection calculations.

	43 , , , ,								
Dynamic Load	l Capacity Mat	trix	(10	0 km travel)	Dynamic Load	l Capacity Ma	trix	(100) km travel)
Asse	Guide embly t No.	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (N)	Asse	r Guide embly t No.	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part No.	Pillow Block Dynamic Load Capacity (N)
1NA-M08-NMO	M08-NMO 1NA-M08-NNO 620			310	1NA-M08-PMO	1NA-M08-PNO	500	SPTWN-M08-XS	500
1NA-M12-NMO	1NA-M12-NNO	1300	SSEPB-M12-XS	650	1NA-M12-PMO	1NA-M12-PNO	1060	SSETWN-M12-XS	1060
1NA-M16-NMO	1NA-M16-NNO	4400	SSEPB-M16-XS	2200	1NA-M16-PMO	1NA-M16-PNO	4400	SSETWN-M16-XS	4400
1NA-M20-NMO	1NA-M20-NNO	8000	SSEPB-M20-XS	4000	1NA-M20-PMO	1NA-M20-PNO	8000	SSETWN-M20-XS	8000
1NA-M25-NMO	1NA-M25-NNO	13400	SSEPB-M25-XS	6700	1NA-M25-PMO	1NA-M25-PNO	13400	SSETWN-M25-XS	13400
1NA-M30-NMO	1NA-M30-NNO	16600	SSEPB-M30-XS	8300	1NA-M30-PMO	1NA-M30-PNO	16600	SSETWN-M30-XS	16600
1NA-M40-NMO	1NA-M40-NNO	27400	SSEPB-M40-XS	13700	1NA-M40-PMO	1NA-M40-PNO	27400	SSETWN-M40-XS	27400
1NA-M40-NMO	1NA-M40-NNO	27400	SSEPB-M40-XS	13700	1NA-M40-PMO	1NA-M40-PNO	27400	SSETWN-M40-XS	27400

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

Replacement Component Dimensions

Replacement	-0po																			
Type SPPB and	SSEP	B Pillo	w Blo	cks							(Dimen	sions ii	n mm)	Type SPTWN and S	SETWI	N Pillo	w Bl	ocks		
Part Number	Nom. Dia.	L1	Н8	Н9	B1	B9	J	J1	J6	J7	N Dia.	N2	Mass kg	Part Number	Nom. Dia.	L2	J3	J8	J9	Mass kg
SPPB-M08-XS	8	32	15	28	17,5	35	25	20	15	19,5	3,3	M4	0,07	SPTWN-M08-XS	8	62	50	19,5	25	0,15
SSEPB-M12-XS	12	39	18	35	21,5	43	32	23	18	23,0	4,3	M5	0,13	SSETWN-M12-XS	12	76	56	23,0	28	0,27
SSEPB-M16-XS	16	43	22	42	26,5	53	40	26	22	25,0	5,3	M6	0,20	SSETWN-M16-XS	16	84	64	25,0	32	0,41
SSEPB-M20-XS	20	54	25	50	30,0	60	45	32	25	30,5	6,6	M8	0,35	SSETWN-M20-XS	20	104	76	30,5	38	0,73
SSEPB-M25-XS	25	67	30	60	39,0	78	60	40	30	37,0	8,4	M10	0,66	SSETWN-M25-XS	25	130	94	37,0	47	1,37
SSEPB-M30-XS	30	79	35	70	43,5	87	68	45	35	43,0	8,4	M10	0,99	SSETWN-M30-XS	30	152	106	43,0	53	2,04
SSEPB-M40-XS	40	91	45	90	54,0	108	86	58	45	49,0	10,5	M12	1,83	SSETWN-M40-XS	40	176	124	49,0	62	3,73

Housing Material: Aluminum Alloy Grey Anodized. Top plates are sold separately. Please refer to page B-60 under Accessories for P/N and dimensions.

Housing Material: Aluminum Alloy Grey Anodized

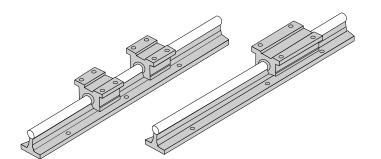
TOT 1714 dilu dilite																					
Type ASB L	.inearR	ace Sh	aft En	d Supp	ort Bloo	:k					Type SB	Linea	rRace	Shaf	t End	Supp	ort B	lock			
Part	Nom.	A1	В	В3	H1	НЗ	L3	N3	N4	Mass	Part	Nom.	A2	B4	Bb	H1	H2	H4	L4	N5	Mass
Number	Dia.							Dia.		kg	Number	Dia.								Dia.	kg
ASB-M08-XS	8	16,0	32	22	15	28	18	3,5	M4	0,04	SB-M08-XS	8	16	25	32	15	5,2	27	10	4,5	0,03
ASB-M12-XS	12	21,5	43	30	20	36	20	5,3	M6	0,10	SB-M12-XS	12	21	32	42	20	5,5	35	12	5,5	0,06
ASB-M16-XS	16	26,5	53	38	25	43	24	6,6	M8	0,15	SB-M16-XS	16	25	40	50	25	6,5	42	16	5,5	0,11
ASB-M20-XS	20	30,0	60	42	30	51	30	8,4	M10	0,23	SB-M20-XS	20	30	45	60	30	8,0	50	20	5,5	0,21
ASB-M25-XS	25	39,0	78	56	35	61	38	10,5	M12	0,41	SB-M25-XS	25	37	60	74	35	9,0	58	25	6,6	0,35
ASB-M30-XS	30	43,5	87	64	40	71	40	10,5	M12	0,53	SB-M30-XS	30	42	68	84	40	10,0	68	28	9,0	0,52
ASB-M40-XS	40	54,0	108	82	50	88	48	13,5	M16	0,99	SB-M40-XS	40	54	86	108	50	12,0	86	32	11,0	0,92

End Support Material: Aluminum Alloy Grey Anodized

TTHOMSON"

End Support Material: Iron

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Features

- Requires only one part number to specify the entire linear guide
- Used as a load support, transport, and guidance solution
- · Used in continuously supported applications when rigidity is required

Components

- 2 Super Smart Ball Bushing* opentype pillow blocks or 1 Super Smart Ball Bushing open twin pillow blocks
- 1 60 Case* LinearRace* shaft support rail assembly

Continuous Support 1CA

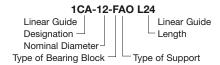
Fully Supported, Highest Performance Industry Standard Dimensions

Inch

Specifying this Thomson Linear Guide:

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

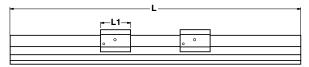
Part Numbering System



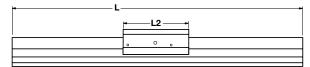
Dimensions (Inch)

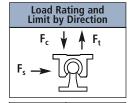






Single Continuously Supported Linear Guide with 1 Twin Pillow Block



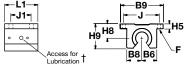


	Dynamic Load Rating	Load Limit
F _C	С	С
F _c	0.5C	0.5C
F_S	С	0.5C

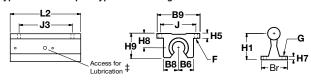
Dynamic Load Rating
Load value used in life calculation.

Maximum allowable load applied to bearing.

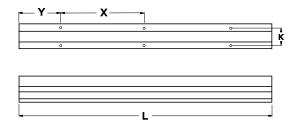
Type SSUPBO Open Type Super Smart Ball Bushing Pillow Block Type SPB-OPN Open Type Ball Bushing Pillow Block



Type SSUTWN Open Type Super Smart Ball Bushing Twin Pillow Block Type TWN-OPN Open Type Ball Bushing Twin Pillow Block



Type SRA LinearRace Shaft Support Rail Assembly



‡ Size .500 inch has oil lubricant fitting. Sizes .625 and above have ½-28 access for lubrication.



Website: www.linearactuators.com

Continuous Support 1CA

Continuously Suppo	rted Linear Guide	1CA Single with	2 Pillow Blocks			(Dime	ensions in inches)
Part Number	Nominal Diameter	L1	Н	Br	B9	Pillow Block	Shaft Support
Number	Diameter					Diock	Rail
							Assembly
1CA-08-FAO	.50	1.50	1.812	1.50	2.00	SPB-8-OPN-XS	SRA-8-XS
1CA-12-FAO	.75	1.88	2.437	1.75	2.75	SSUPBO-12-XS	SRA-12-XS
1CA-16-FAO	1.00	2.63	2.937	2.13	3.25	SSUPBO-16-XS	SRA-16-XS
1CA-20-FAO	1.25	3.38	3.625	2.50	4.00	SSUPBO-20-XS	SRA-20-XS
1CA-24-FAO	1.50	3.75	4.250	3.00	4.75	SSUPBO-24-XS	SRA-24-XS

Continuously Suppo	rted Linear Guid	le 1CA Single	with 1 Twin Pill	ow Block			(Dime	nsions in inches)
Part	Nominal	L2	Н	Br	В9	Maximum	Pillow	Shaft
Number	Diameter					Stroke	Block	Support
						Length		Rail
								Assembly
1CA-08-HAO	.50	3.5	1.812	1.50	2.00	L-(3.5)	TWN-8-OPN-XS	SRA-8-XS
1CA-12-HAO	.75	4.5	2.437	1.75	2.75	L-(4.5)	SSUTWNO-12-XS	SRA-12-XS
1CA-16-HAO	1.00	6.0	2.937	2.13	3.25	L-(6.0)	SSUTWNO-16-XS	SRA-16-XS
1CA-20-HAO	1.25	7.5	3.625	2.50	4.00	L-(7.5)	SSUTWNO-20-XS	SRA-20-XS
1CA-24-HAO	1.50	9.0	4.250	3.00	4.75	L-(9.0)	SSUTWNO-24-XS	SRA-24-XS

Dynamic Load	Rating (C) Matrix	(4 mi	llion inches travel)
Linear Guide	Dynamic Load	Pillow Block	Pillow Block
Assembly	Rating, C (lbf)	Part No.	Dynamic Load
Part No.	(Even Distribution)		Rating, C (lbf)
1CA-08-FAO	290	SPB-8-OPN-XS	145
1CA-12-FAO	1800	SSUPBO-12-XS	900
1CA-16-FAO	3000	SSUPBO-16-XS	1500
1CA-20-FAO	3730	SSUPBO-20-XS	1865
1CA-24-FAO	6160	SSUPBO-24-XS	3080

Dynamic Load	Rating (C) Matrix	(4 million inches travel)					
Linear Guide	Dynamic Load	Pillow Block	Pillow Block				
Assembly	Rating, C (lbf)	Part No.	Dynamic Load				
Part No.	(Even Distribution)		Rating, C (lbf)				
1CA-08-HAO	290	TWN-8-OPN-XS	290				
1CA-12-HAO	1800	SSUTWNO-12-XS	1800				
1CA-16-HAO	3000	SSUTWNO-16-XS	3000				
1CA-20-HAO	3730	SSUTWNO-20-XS	3730				
1CA-24-HAO	6160	SSUTWNO-24-XS	6160				

Replacement Component Dimensions

Type SPB-OPN ar	nd SSU	PBO P	illow B	locks						(Dime	nsions	in Inc	ches)	Type TWN-OPN and SSUTWNO Pillow Blocks				
Part	Nom.	L1	Н9	Н8	H5	B9	B8	B6	J	J1	F	:	Wt.	Part	Nom.	L2	J3	Wt.
Number	Dia.										Bolt	Hole	lb	Number	Dia.			lb
SPB-8-OPN-XS	.50		1.50	1.12		687	.25	2.00		75	.69		1.69	TWN-8-OPN-XS	.50	3.5	2.5	.40
SSUPBO-12-XS	.75	1.88	1.56	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.51	SSUTWNO-12-XS	.75	4.5	3.5	1.02
SSUPBO-16-XS	1.00	2.63	2.00	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.03	SSUTWNO-16-XS	1.00	6.0	4.5	2.06
SSUPBO-20-XS	1.25	3.38	2.56	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.15	SSUTWNO-20-XS	1.25	7.5	5.5	4.30
SSUPBO-24-XS	1.50	3.75	2.94	1.750	.50	4.75	1.88	1.75	4.12	2.50	1/4	.28	3.29	SSUTWNO-24-XS	1.50	9.0	6.5	6.88

Top plates are sold separately. Please refer to page B-60 under Accessories for P/N and dimensions.

Housing Material: Aluminum Alloy Black Anodized

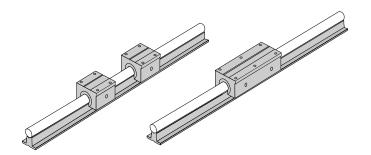
Type SRA Linea	rpe SRA LinearRace Shaft Support Rail Assembly (Dimensions in Inches)													
Part	Nom.	H1	H7	Br	K	Х	Y		G	Wt.				
Number	Dia.							Bolt	Hole	lb/ft				
SRA-8-XS	.50	1.125	.19	1.50	1.00	4	2	#6	.17	1.26				
SRA-12-XS	.75	1.500	.25	1.75	1.25	6	3	#10	.22	2.50				
SRA-16-XS	1.00	1.750	.25	2.13	1.50	6	3	1/4	.28	4.06				
SRA-20-XS	1.25	2.125	.31	2.50	1.88	6	3	5/16	.34	6.30				
SRA-24-XS	1.50	2.500	.38	3.00	2.25	8	4	5/16	.34	8.60				

LinearRace Shaft Support Rail Material: Aluminum Alloy Black Anodized Support rails are supplied in 24 inch lengths unless quoted otherwise.

Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Thomson Linear Guides Application Engineering department.



 $[\]dagger$ Super Ball Bushing* bearings are used in .500 inch size pillow blocks.



Features

- Requires only one part number to specify the entire linear guide
- · Used as a load support, transport, and guidance solution
- · Used in continuously supported applications when rigidity is required

Components

- 2 Super Smart Ball Bushing* opentype pillow blocks or 1 Super Smart Ball Bushing open twin pillow blocks
- 1 60 Case* LinearRace* shaft support rail assembly

Continuous Support 1PA

Fully Supported, Highest Performance Industry Standard Dimensions

Metric

Specifying this Thomson Linear Guide:

- Determine the proper Linear Guide for your load and life requirements.
- 2. Select the part number.
- Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

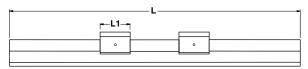
Part Numbering System



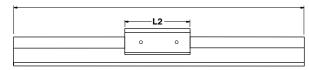
Dimensions (Metric)

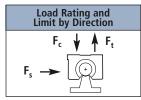
Single Continuously Supported Linear Guide with 2 Pillow Blocks





Single Continuously Supported Linear Guide with 1 Twin Pillow Block





	Dynamic Load Rating	Load Limit
F _C	С	С
Ft	0.5C	0.5C
F _S	С	0.5C

Dynamic Load Rating Load value used in life calculation. Load Limit Maximum allowable load applied to bearing.

Type SSEPBO Open Type Super Smart Ball Bushing Pillow Block

Lunion Figure 1

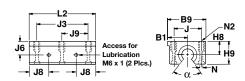






Type SRA LinearRace Shaft Support Rail Assembly

Type SSETWNO Open Type Super Smart Ball Bushing Twin Pillow Block





Website: www.linearactuators.com

Continuous Support 1PA

Continuously Supp	ported Linear (Guide 1PA	Single w	ith 2 Pillo	w Blocks					(Dimensions in mm)			
Part	Nominal	L1	Н	H1	Α	A1	B1	B9	Includes				
Number	Diameter									Shaft Support			
									Pillow	Rail			
									Block	Assembly			
1PA-M12-LWO	12	39	46	28	43	21,5	21,5	43	SPPBO-M12-XS+	SRA-M12-XS			
1PA-M16-LWO	16	43	52	30	48	24,0	26,5	53	SSEPBO-M16-XS	SRA-M16-XS			
1PA-M20-LWO	20	54	63	38	56	28,0	30,0	60	SSEPBO-M20-XS	SRA-M20-XS			
1PA-M25-LWO	25	67	72	42	60	30,0	39,0	78	SSEPBO-M25-XS	SRA-M25-XS			
1PA-M30-LWO	30	79	88	53	74	37,0	43,5	87	SSEPBO-M30-XS	SRA-M30-XS			
1PA-M40-LWO	40	91	105	60	78	39,0	54,0	108	SSEPBO-M40-XS SRA-M40-XS				

Continuously Supp	orted Linear	Guide 1PA	A Single v	with 1 Tw	in Pillow	Block				(Di	mensions in mm)	
Part	Nominal	L2	Н	H1	Α	A1	B1	В9	Maximum	Includes		
Number	Diameter								Stroke		Shaft Support	
									Length	Pillow	Rail	
										Block	Assembly	
1PA-M12-MWO	12	76	46	28	43	21,5	21,5	43	L-(76)	SPTWNO-M12-XS ⁺	SRA-M12-XS	
1PA-M16-MWO	16	84	52	30	48	24,0	26,5	53	L-(84)	SSETWNO-M16-XS SRA-M16-XS		
1PA-M20-MWO	20	104	63	38	56	28,0	30,0	60	L-(104)	SSETWNO-M20-XS SRA-M20-XS		
1PA-M25-MWO	25	130	72	42	60	30,0	39,0	78	L-(130)	SSETWNO-M25-XS SRA-M25-XS		
1PA-M30-MWO	30	152	88	53	74	37,0	43,5	87	L-(152)	SSETWNO-M30-XS SRA-M30-XS		
1PA-M40-MWO	40	176	105	60	78	39,0	54,0	108	L-(176)	SSETWNO-M40-XS SRA-M40-XS		

Dynamic Load	Rating (C) Matrix		(100 km travel)
Linear Guide	Dynamic Load	Pillow Block	Pillow Block
Assembly	Rating, C (N)	Part No.	Dynamic Load
Part No.	(Even Distribution)		Rating, C (N)
1PA-M12-LWO	1500	SPPBO-M12-XS	750
1PA-M16-LWO	4400	SSEPBO-M16-XS	2200
1PA-M20-LWO	8000	SSEPBO-M20-XS	4000
1PA-M25-LWO	13400	SSEPBO-M25-XS	6700
1PA-M30-LWO	16600	SSEPBO-M30-XS	8300
1PA-M40-LWO	27400	SSEPBO-M40-XS	13700

Dynamic Load	Rating (C) Matrix		(100 km travel)
Linear Guide	Dynamic Load	Pillow Block	Pillow Block
Assembly	Rating, C (N)	Part No.	Dynamic Load
Part No.	(Even Distribution)		Rating, C (N)
1PA-M12-MWO	1220	SPTWNO-M12-XS	1500
1PA-M16-MWO	4400	SSETWNO-M16-XS	4400
1PA-M20-MWO	8000	SSETWNO-M20-XS	8000
1PA-M25-MWO	13400	SSETWNO-M25-XS	13400
1PA-M30-MWO	16600	SSETWNO-M30-XS	16600
1PA-M40-MWO	27400	SSETWNO-M40-XS	27400

Replacement Component Dimensions

Type CCEDDO Dilley	e SSEPBO Pillow Blocks (Dimensions in n												n mm)	Type SSETWNO Pillo	ow Pla	cks					
Type 33EFBO FIIIO														Type 33ETWING FILE	OW DIO	CV2					
Part	Nom.	L1	Н8	H9	B1	В9	J6	J7	J	J1	N	N2	a	Mass	Part	Nom.	L2	J3	J8	J9	Mass
Number	Dia.										Dia.		Deg	kg	Number	Dia.					kg
SPPBO-M12-XS	12	39	18	28	21,5	43	16,7	19,5	32	23	4,3	M5	66	0,11	SPTWNO-M12-XS	12	76	56	19,5	28	0,22
SSEPBO-M16-XS	16	43	22	35	26,5	53	22,0	21,5	40	26	5,3	M6	66	0,17	SSETWNO-M16-XS	16	84	64	21,5	32	0,34
SSEPBO-M20-XS	20	54	25	41	30,0	60	25,0	27,0	45	32	6,6	M8	60	0,30	SSETWNO-M20-XS	20	104	76	27,0	38	0,63
SSEPBO-M25-XS	25	67	30	50	39,0	78	31,5	33,5	60	40	8,4	M10	60	0,57	SSETWNO-M25-XS	25	130	94	33,6	47	1,18
SSEPBO-M30-XS	30	79	35	60	43,5	87	33,0	39,5	68	45	8,4	M10	60	0,87	SSETWNO-M30-XS	30	152	106	39,5	53	1,70
SSEPBO-M40-XS	40	91	45	77	54,0	108	43,5	45,5	86	58	10,5	M12	60	1,62	SSETWNO-M40-XS	40	176	124	45,5	62	3,18

Housing Material: Aluminum Alloy Grey Anodized

Top plates are sold separately. Please refer to page B-60 under Accessories for P/N and dimensions.

Housing Material: Aluminum Alloy Grey Anodized

Type SRA Linea	rRace Shaft :	Support Rail	Assembly						(Dimension	ons in mm)
Part	Nom.	H1	H7	А	A1	E	Х	Υ	N3	Mass
Number	Dia.								Dia.	kg/m
SRA-M12-XS	12	28	5	43	21,5	29	75	37,5	4,5	4,1
SRA-M16-XS	16	30	5	48	24,0	33	100	50	5,5	6,2
SRA-M20-XS	20	38	6	56	28,0	37	100	50	6,6	9,5
SRA-M25-XS	25	42	6	60	30,0	42	120	60	6,6	13,7
SRA-M30-XS	30	53	8	74	37,0	51	150	75	8,6	20,0
SRA-M40-XS	40	60	8	78	39,0	55	200	100	8,6	32,5

LinearRace Shaft Support Rail Material: Aluminum Alloy Grey Anodized

Support rails are supplied in 600mm lengths unless quoted otherwise.

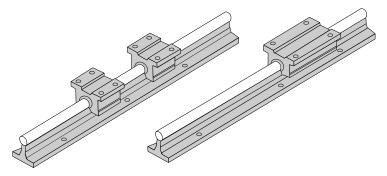
Maximum length of LinearRace Shaft Support Rail is 600mm. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Thomson Linear Guides Application Engineering department.



[†] Super Plus Ball Bushing* bearings are used in 12 mm size pillow blocks.



Corrosive/Contaminated Environments



Features

- · Requires only one part number to specify the entire linear guide
- Used as a load support, transport, and guidance solution
- · Used in continuously supported applications when rigidity is required

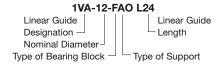
Components

- · 2 self-aligning FluoroNyliner* Bushing bearing open pillow blocks or 1 self-aligning FluoroNyliner Bushing bearing open twin pillow block
- 1 stainless steel 60 Case* LinearRace* shaft support rail assembly

Specifying this Thomson Linear Guide:

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

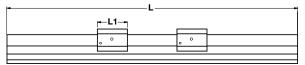
Part Numbering System



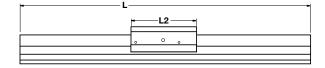
Dimensions (Inch)

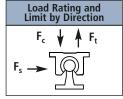
Single Continuously Supported Linear Guide with 2 Pillow Blocks





Single Continuously Supported System with 1 Twin Pillow Block





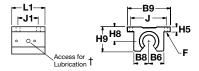
	Dynamic Load Rating	Load Limit
F _C	PV	PV
F _C F _t F _c	0.3PV	0.3PV
F _S	0.6PV	0.6PV

Dynamic Load Rating PV value used in life calculation.

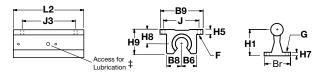
Load Limit

Maximum allowable PV applied to bearing.

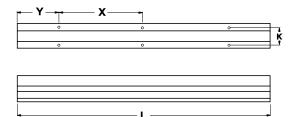
FluoroNyliner Linear Guide Pillow Block Dimensions



FluoroNyliner Linear Guide Twin Pillow Block Dimensions



Type SRA LinearRace Shaft Support Rail Assembly





Website: www.linearactuators.com

FluoroNyliner 1VA

FluoroNyliner* L	uoroNyliner* Linear Guide 1VA Single Continuously Supported with 2 Pillow Blocks											
Part	Nominal	L1	Н	Br	В9	Pillow	Shaft					
Number	Diameter					Block	Support					
							Rail					
							Assembly					
1VA-08-FAO	.50	1.50	1.812	1.50	2.00	FNYBUPBO08A-XS	SRA-8-XS-SS					
1VA-12-FAO	.75	1.88	2.437	1.75	2.75	FNYBUPBO12A-XS	SRA-12-XS-SS					
1VA-16-FAO	1.00	2.63	2.937	2.13	3.25	FNYBUPBO16A-XS	SRA-16-XS-SS					
1VA-20-FAO	1.25	3.38	3.625	2.50	4.00	FNYBUPBO20A-XS	SRA-20-XS-SS					
1VA-24-FA0	1.50	3.75	4.250	3.00	4.75	FNYBUPBO24A-XS	SRA-24-XS-SS					

FluoroNyliner Lin	ear Guide 1VA	Single Cont	w Block	(Dimensions in inches)				
Part	Nominal	L2	Н	Br	В9	Maximum	Pillow	Shaft
Number	Diameter					Stroke	Block	Support
						Length		Rail
								Assembly
1VA-08-HAO	.50	3.5	1.812	1.50	2.00	L-(3.5)	FNYBUTWNO08A-XS	SRA-8-XS-SS
1VA-12-HAO	.75	4.5	2.437	1.75	2.75	L-(4.5)	FNYBUTWNO10A-XS	SRA-12-XS-SS
1VA-16-HAO	1.00	6.0	2.937	2.13	3.25	L-(6.0)	FNYBUTWNO16A-XS	SRA-16-XS-SS
1VA-20-HAO	1.25	7.5	3.625	2.50	4.00	L-(7.5)	FNYBUTWNO20A-XS	SRA-20-XS-SS
1VA-24-HAO	1.50	9.0	4.250	3.00	4.75	L-(9.0)	FNYBUTWNO24A-XS	SRA-24-XS-SS

Maximum Operating Parameters per Bearing

Characteristic	Limit
Liner Temperature Range	-240° C to 288° C
	(-400° F to 550° F)
Velocity, dry	42.7 m/min. Continuous
Velocity, dry	122 m/min. Intermittent
Velocity, lubricated	122 m/min. Continuous
Pressure	10.35 MPa
PV	21 MPa/m/min

Replacement Component Dimensions

Self-Aligning Pillow I	elf-Aligning Pillow Blocks (Dimensions in inches)												
Part	Nom.	L1	Н9	Н8	H5	B9	B8	В7	J	J1	F		Wt.
Number	Dia.										Bolt	Hole	lb
FNYBUPBO08A-XS	.50	1.50	1.12	.687	.25	2.00	.75	.69	1.69	1.00	#6	.16	.20
FNYBUPBO12A-XS	.75	1.88	1.56	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.51
FNYBUPBO16A-XS	1.00	2.63	2.00	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.03
FNYBUPBO20A-XS	1.25	3.38	2.56	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.15
FNYBUPBO24A-XS	1.50	3.75	2.94	1.750	.50	4.75	1.88	1.75	4.12	2.50	1/4	.28	3.29

Housing Material: Aluminum Alloy Black Anodized

Self-Aligning Twin Pillow	Self-Aligning Twin Pillow Blocks									
Part	Nom.	L2	J3	Wt.						
Number	Dia.			lb.						
FNYBUTWNO08A-XS	.500	3.50	2.50	.40						
FNYBUTWNO12A-XS	.750	4.50	3.50	1.02						
FNYBUTWNO16A-XS	1.00	6.00	4.50	2.06						
FNYBUTWNO20A-XS	1.25	7.50	5.50	4.30						
FNYBUTWNO24A-XS	1.50	9.00	6.50	6.88						

Housing Material: Aluminum Alloy Black Anodized

Performance Note: For detailed explanations of FluoroNyliner Linear Guide Dynamic and Static Load Capacities, Frictional Characteristics, Wear Rates, Speeds, and Life Expectancy please contact the Danaher Motion Linear Guides Applications Engineering department.

Product Note: FluoroNyliner linear guides are shipped free of all lubricants. It is the responsibility of the product user to determine lubricant compatibility with the FluoroNyliner bearing material.

Product Options: FluoroNyliner linear guides are available with variousinner race materials and platings to accommodate different environments.

Top plates are sold separately. Please refer to p. B-60 under accessories for P/N and dimensions.

Type SRA Linea	rRace Shat	ft Support Ra	ail Assembly						(Dimensions	in Inches)
Part	Nom.	H1	H7	Br	K	Х	Y	(G	Wt.
Number	Dia.							Bolt	Hole	lb/ft
SRA-8-XS-SS	.50	1.125	.19	1.50	1.00	4	2	#6	.17	1.26
SRA-12-XS-SS	.75	1.500	.25	1.75	1.25	6	3	#10	.22	2.50
SRA-16-XS-SS	1.00	1.750	.25	2.13	1.50	6	3	1/4	.28	4.06
SRA-20-XS-SS	1.25	2.125	.31	2.50	1.88	6	3	5/16	.34	6.30
SRA-24-XS-SS	1.50	2.500	.38	3.00	2.25	8	4	5/16	.34	8.60

LinearRace Support Rail Material: Aluminum Alloy Black Anodized

Support rails are supplied in 24 inch lengths unless quoted otherwise.

Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Danaher Motion Linear Guide Application Engineering department.

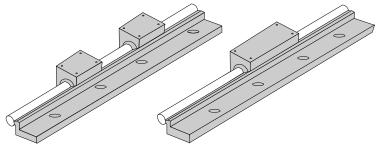


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Side Mounted 1DA

Side Mounted for Low Profile

Inch



Features

- · Continuously supported design increases rigidity and provides for unlimited linear guide travel lengths
- Versatile Side Support Rail Assembly geometry for optimizing mounting ability
- Side mounted design provides an increase in pull-off load capacity

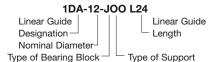
Components

- 2 Super Smart Ball Bushing* modified open type pillow blocks or 1 Super Smart Ball Bushing modified open type twin pillow block.
- 1 60 Case* LinearRace* shaft side mounted support rail assembly

Specifying this Thomson Linear Guide:

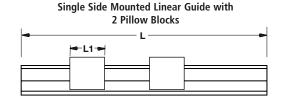
- 1. Determine the proper Linear Guide for your load and life requirements.
- 2. Select the part number.
- 3. Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

Part Numbering System

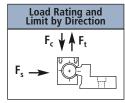


Dimensions (Inch)





Single Side Mounted Linear Guide with 1 Twin Pillow Block

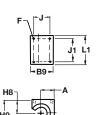


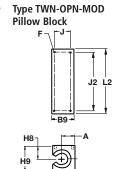
	Dynamic Load Rating	Load Limit
F _C	С	0.5C
Ft	0.5C	0.5C
F _S	С	С

Dynamic Load Rating Load value used in life calculation. Maximum allowable load applied to bearing.

Type SSUPBO-MOD Open Type **Pillow Block**

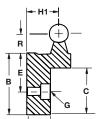
Type SPB-OPN-MOD Open Type Pillow Block

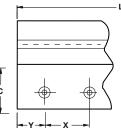


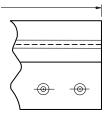


Type SSUTWNO-MOD

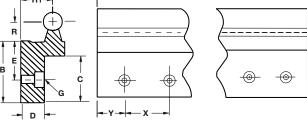
Pillow Block

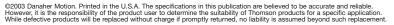






Type SSRA Side Mounted LinearRace Shaft **Support Rail Assembly**







Website: www.linearactuators.com

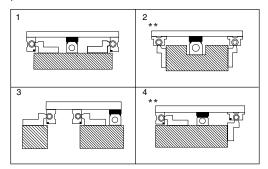
Side Mounted 1DA

Side Mounted Lin	ear Guide 1DA Si	ngle Side Mount	ed with 2 Pillow	Blocks		(Dimer	sions in inches)
Part Number	Nominal Diameter	Н	В	B1	L1	Pillow Block	Shaft Support Rail Assembly
1DA-08-J00	.50	1.562	1.44	2.61	1.50	SPB-8-OPN-MOD	SSRA-8
1DA-12-J00	.75	2.062	1.94	3.55	1.88	SSUPBO-12-MOD	SSRA-12
1DA-16-J00	1.00	2.562	2.44	4.49	2.63	SSUPBO-16-MOD	SSRA-16

Side Mounted Li	de Mounted Linear Guide 1DA Single Side Mounted with 1 Twin Pillow Block (Dimensions in i											
Part Number	Nominal Diameter	Н	В	B1	L2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly				
1DA-08-KOO	.50	1.562	1.44	2.61	3.5	L-(3.5)	TWN-8-OPN-MOD	SSRA-8				
1DA-12-KOO	.75	2.062	1.94	3.55	4.5	L-(4.5)	SSUTWNO-12-MOD	SSRA-12				
1DA-16-KOO	1.00	2.562	2.44	4.49	6.0	L-(6.0)	SSUTWNO-16-MOD	SSRA-16				

Mounting Configurations

The following mounting configurations depict ideas for combining the Side Mounted Continuously Supported Linear Guides into your linear motion application. If you need further information, contact the Danaher Motion Application Engineering Department.



^{**}Pillow blocks shown are the standard SSUPBO or SPB-OPN style. To order System 1DA with standard pillow blocks, order the Side Mounted Shaft Rail Assembly (SSRA) and the SSUPBO or SPB-OPN separately.

Dynamic Load Rating (C) Matrix (4 million inches travel) Pillow Block Linear Guide Dynamic Load Pillow Block Assembly Rating, C (lbf) Part No. Dynamic Load Part No. (Even Distribution) Rating, C (lbf) 240 SPB-8-OPN-MOD 120 1DA-08-J00 1DA-12-J00 1600 SSUPBO-12-MOD 800 1DA-16-J00 2700 SSUPBO-16-MOD 1350 1DA-08-KOO 240 TWN-8-OPN-MOD 240 1DA-12-KOO 1600 SSUTWNO-12-MOD 1600 1DA-16-KOO 2700 SSUTWNO-16-MOD 2700

Replacement Component Dimensions

Type SPB-OPN-MC	D and	SSUPBO	-MOD P	illow Blo	ck			(Dimer	nsions in i	nches)	Type TWN-OPN-MOD and SS	UTWNO-M	OD Pillow	Blocks	
Part Number	Nom. Dia.	Н8	Н9	А	В9	L1	J	J1	F	Wt. Ib	Part Number	Nom. Dia.	L2	J2	Wt. Ib
SPB-08-OPN-MOD	.50	.687	1.44	.67	1.12	1.50	.812	1.250	#8-32	.18	TWN-8-OPN-MOD	.50	3.5	3.00	.39
SSUPBO-12-MOD	.75	.937	1.94	.92	1.56	1.88	1.187	1.562	#10-32	.45	SSUTWNO-12-MOD	.75	4.5	4.00	1.00
SSUPBO-16-MOD	1.00	1.187	2.44	1.17	2.00	2.63	1.438	2.250	1/4-20	.98	SSUTWNO-16-MOD	1.00	6.0	5.25	2.11

Housing Material: Aluminum Alloy Black Anodized

Top plates are sold separately. Please refer to p. B-51 under accessories for P/N and dimensions.

Housing Material: Aluminum Alloy Black Anodized

Type SSRA Sid	ype SSRA Side Mounted LinearRace Shaft Support Rail Assembly (Dimensions in Inches)											
Part Number	Nom. Dia.	H1	В	R	E	D	С	Х	Y ⁽¹⁾	Bolt	Hole	Wt. lb/ft
SSRA-08	.500	.875	1.44	.500	1.00	.49	1.06	4	2	1/4	.28	2.05
SSRA-12	.750	1.125	1.94	.688	1.31	.75	1.44	6	3	⁵ /16	.34	4.00
SSRA-16	1.000	1.375	2.44	.875	1.63	.88	1.81	6	3	3/8	.41	6.25

(1) For standard lengths

LinearRace Shaft Support Rail Material: Aluminum Black Anodized

Support rails are supplied in 24 inch lengths unless quoted otherwise. Maximum length of LinearRace Shaft Support Rail is 72 inches. If longer continuous one-piece LinearRace Shaft Support Rails are required, contact the Danaher Motion Linear Guides Application Engineering department.



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[†] Super Ball Bushing* bearings are used in .500 inch size pillow blocks.



Unpack and Install Inch

Specifying this Thomson Linear Guide:

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

Part Numbering System



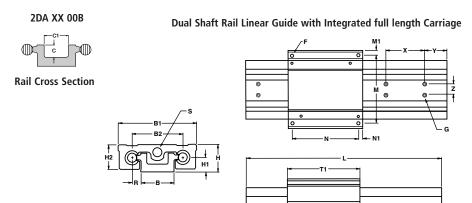
Features

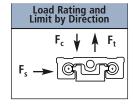
- Used in continuously supported applications when rigidity is required
- · Adaptable to any drive system
- Pre-aligned and preassembled for immediate installation and use
- Designed for medium to heavy loads

Components

- 1 Dual LinearRace* shaft rail assembly
- 1 integrated carriage with 4 open type Super Smart Ball Bushing* bearings

Dimensions (Inch)





	Dynamic Load Rating	Load Limit
F _C	С	0.5C
Ft	C	0.5C
F _S	0.5C	0.5C

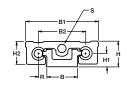
Dynamic Load Rating Load value used in life calculation.

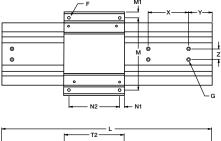
Maximum allowable load applied to bearing.





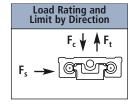
Rail Cross Section





Dual Shaft Rail Linear Guide with Integrated short length Carriage

T2	

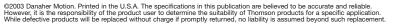


	Dynamic Load Rating	Load Limit
F _C	C	0.5C
Ft	C	0.5C
F_S	0.5C	0.5C

<u>Dynamic Load Rating</u> Load value used in life calculation.

Load Limit

Maximum allowable load applied to bearing.





Website: www.linearactuators.com

Dual Shaft Rail I	Qual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in inches												
Part Number	Nominal Diameter	T1	Н	H1	H2	В	R	B1	B2	С	C1		
2DA-08-00B	.50	4.5	1.625	.875	1.43	2.00	.500	4.6	3.0	.64	1.25		
2DA-12-00B	.75	6.0	2.125	1.125	1.93	2.63	.688	6.1	4.0	.75	1.62		
2DA-16-00B	1.00	7.5	2.625	1.375	2.44	3.25	.875	7.6	5.0	.99	2.00		

Dual Shaft Rail	Dual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in inches)													
Part	N	N1	M	M1	Х	Y	Z	S	F	G		Max.	Inc	udes
Number								As Extruded		Bolt	Hole	Stroke Length	Carriage Part Number	Dual Shaft Rail Asmbly. Part No.
2DA-08-00B	4.00	.25	4.00	.30	4.0	2.0	.75	.50	#10-32	1/4	.28	L-(4.5)	DSRC-08-SB	DSRA-08
2DA-12-00B	5.25	.37	5.25	.42	6.0	3.0	1.00	.70	1/4-20	5/16	.34	L-(6.0)	DSRC-12-SB	DSRA-12
2DA-16-00B	6.75	.37	6.75	.42	6.0	3.0	1.25	.90	5/16-18	3/8	.41	L-(7.5)	DSRC-16-SB	DSRA-16

Support rails are supplied in 24 inch lengths unless quoted otherwise.

Dual Shaft Rail Support Material: Black Anodized Aluminum Alloy

Maximum continuous length of support rails is 72". If longer continuous shaft support rails are required, please contact the Danaher Motion Linear Guides Application Engineering department.

Dynamic Load Rati	ing (C) Matrix	(4 million inches travel)
Linear Guide Assembly Part No.	Dynamic Load Rating, C (lbf) (Even Distribution)	Dynamic Roll Moment Rating, C (in - lb _f)
2DA-08-00B	480	720
2DA-12-00B	3200	6400
2DA-16-00B	5400	13500

Note: Above load ratings used for life calculations. Load limit of assembly 50%.

Dual Shaft Rail I	Dual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in incompanies)												
Part Number	Nominal Diameter	T2	Н	H1	H2	В	R	B1	B2	С	C1		
2DA-08-00A	.500	3.5	1.625	.875	1.43	2.00	.500	4.60	3.0	.64	1.25		
2DA-12-00A	.750	4.5	2.125	1.125	1.93	2.63	.688	6.10	4.0	.75	1.62		
2DA-16-00A	1.000	6.0	2.625	1.375	2.44	3.25	.875	7.60	5.0	.99	2.00		

Dual Shaft Rail	Linear C	Guide 20	A with	Integrat	ed Carri	age							(Dimen	sions in inches)
Part	N	N2	М	M1	Х	Υ	Z	S	F	G	i	Max.	Inc	ludes
Number								As		Bolt	Hole	Stroke	Carriage	Dual Shaft Rail
								Extruded				Length	Part Number	Asmbly. Part No.
2DA-08-00A	.25	3.00	4.00	.30	4.0	2.0	.75	.50	#10-32	1/4	.28	L-(3.5)	DSRC-08-SA	DSRA-08
2DA-12-00A	.37	3.75	5.25	.42	6.0	3.0	1.00	.70	1/4-20	⁵ /16	.34	L-(4.5)	DSRC-12-SA	DSRA-12
2DA-16-00A	.37	5.25	6.75	.42	6.0	3.0	1.25	.90	⁵ /16-18	3/8	.41	L-(6.0)	DSRC-16-SA	DSRA-16

Support rails are supplied in 24 inch lengths unless quoted otherwise.

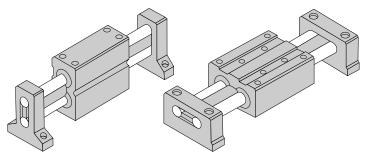
Dual Shaft Rail Support Material: Black Anodized Aluminum Alloy Maximum continuous length of support rails is 72". If longer continuous shaft support rails are required, please contact the Danaher Motion Linear Guides Application Engineering department.

† Super Ball Bushing* bearings are used in 500 inch size carriages

Dynamic Load Rat	ing (C) Matrix	(4 million inches travel)
Linear Guide Assembly Part No.	Dynamic Load Rating, C (lbf) (Even Distribution)	Dynamic Roll Moment Rating, C (in - lbf)
2DA-08-00A	480	720
2DA-12-00A	3200	6400
2DA-16-00A	5400	13500

Note: Above load ratings used for life calculations. Load limit of assembly 50%.





Features

- Used when spanning or bridging a gap
- Double LinearRace* shaft and welded integral web design maximizes torque and dramatically improves deflection characteristics
- · Pre-aligned for quick and easy installation
- Designed to move medium loads with virtually frictionless travel

Components

- Universal integrated, carriage with 4 open type Super Smart Ball Bushing* bearings
- Twin welded 60 Case* LinearRace shafts with integral web
- · 2 vertical or horizontal double end supports

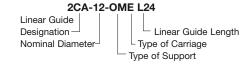
Twin Shaft Web* 2CA

with Universal Carriage
Unpack and Install
Inch

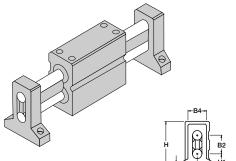
Specifying this Thomson Linear Guide:

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

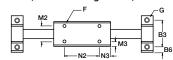
Part Numbering System

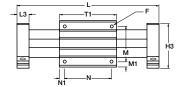


Dimensions (Inch)



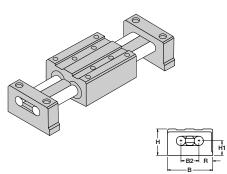
Twin Shaft Web Linear Guide with Universal Carriage (Vertical Configuration)

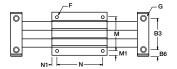


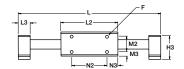




Twin Shaft Web Linear Guide with Universal Carriage (Horizontal Configuration)











Website: www.linearactuators.com

Twin Shaft Web* 2CA

Twin Shaft Web	win Shaft Web Linear Guide End Supported 2CA (Vertical Configuration) (Dimensions in inches)													
Part Number	Nominal Diameter	L3	Н	H1	Н3	H7	В	R	B2	В3	B4	В6	T1	N
2CA-08-0KE	.50	.63	2.750	.875	2.56	.38	2.25	1.125	1.13	1.63	1.12	.31	3.5	3.00
2CA-12-0KE	.75	.75	3.625	1.125	3.44	.56	3.00	1.500	1.50	2.25	1.63	.38	4.5	4.00
2CA-16-0KE	1.00	1.00	4.625	1.375	4.50	.75	4.00	2.000	2.00	3.00	2.25	.50	6.0	5.25

Twin Shaft Web	Linear (Guide Er	nd Supp	orted 2	CA (Ver	tical Cor	nfigura	tion)					(Dimens	ions in inches)
Part Number	N1	N2	N3	H2	B1	М	M1	M2	M3	F	Bolt	Hole	Max. Stroke Length	Twin Shaft Web Part Number
2CA-08-OKE	.25	2.5	.50	1.5	2.62	2.00	.31	.88	.31	#10-32	#10	.22	L-(4.75)	TSW-08
2CA-12-0KE	.25	3.5	.50	2.0	3.50	2.87	.31	1.38	.31	1/4-20	1/4	.28	L-(6.00)	TSW-12
2CA-16-0KE	.38	4.5	.75	2.5	4.50	3.62	.44	1.62	.44	⁵ /16-18	⁵ /16	.34	L-(8.00)	TSW-16

2CA (Vertical Configuration) Ca	arriage and End Support Part N	0.
Linear Guide Part Number	Carriage Part Number	End Support Part Number
2CA-08-OKE	WC-08	WSB-08-V
2CA-12-0KE	WC-12	WSB-12-V
2CA-16-0KE	WC-16	WSB-16-V

Maximum Length is 72 inches.

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 B-67) for Deflection calculations.

Dynamic Load Cap	acity Matrix	(4 million inches travel)						
Linear Guide Assembly Part No.	Dynamic Load Capacity (lb _f) (Even Distribution)	Dynamic Roll Moment Capacity (in - lb _f)						
2CA-08-0KE	290	165						
2CA-12-0KE	1800	1350						
2CA-16-0KE	2CA-16-OKE 3000							

[†] Super Ball Bushing* bearings are used in .500 inch size carriages.

Twin Shaft Web	win Shaft Web Linear Guide End Supported 2CA (Horizontal Configuration)											
Part Number	Nominal Diameter	L3	Н	H1	Н3	В	R	B2	В3	В6	T1	N
2CA-08-OME	.50	.63	1.625	.875	1.5	2.62	.750	1.13	2.00	.31	3.5	3.00
2CA-12-0ME	.75	.75	2.125	1.125	2.0	3.50	1.000	1.50	2.75	.37	4.5	4.00
2CA-16-0ME	1.00	1.00	2.625	1.375	2.5	4.50	1.250	2.00	3.62	.50	6.0	5.25

Twin Shaft Web	Linear (Guide Er	nd Supp	orted 2	CA (Hor	izontal (ration)	n) (Dimensions in inch						
Part Number	N1	N2	N3	H2	B1	М	M1	M2	M3	F	Bolt	Hole	Max. Stroke Length	Twin Shaft Web Part Number
2CA-08-OME	.25	2.5	.50	1.5	2.62	2.00	.31	.88	.31	#10-32	#10	.22	L-(4.75)	TSW-08
2CA-12-OME	.25	3.5	.50	2.0	3.50	2.87	.31	1.38	.31	1/4-20	1/4	.28	L-(6.00)	TSW-12
2CA-16-OME	.38	4.5	.75	2.5	4.50	3.62	.44	1.62	.44	⁵ /16-18	⁵ /16	.34	L-(8.00)	TSW-16

2CA (Horizontal Configuration) Carriage and End Support Part No.										
Linear Guide	Carriage	End Support								
Part Number	Part Number	Part Number								
2CA-08-OME	WC-08	WSB-08-H								
2CA-12-OME	WC-12	WSB-12-H								
2CA-16-OME	WC-16	WSB-16-H								

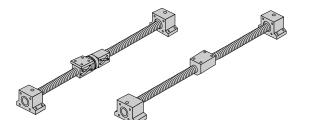
Maximum Length is 72 inches.

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 B-67) for Deflection calculations.

Dynamic Load Cap	acity Matrix	(4 million inches travel)
Linear Guide Assembly Part No.	Dynamic Load Capacity (lbf) (Even Distribution)	Dynamic Roll Moment Capacity (in - lb _f)
2CA-08-OME	290	165
2CA-12-0ME	1800	1350
2CA-16-OME	3000	3000

[†] Super Ball Bushing* bearings are used in .500 inch size carriages.





Features

- Integrated ball screw and supports with motor-ready mounting
- Designed to fit appropriately sized linear guides for custom configurations
- · Pre-engineered to meet your system needs

Components

- 1 Ball Screw Assembly with Ball Nut Mounting Surface (Preloaded or Non-Loaded)
- 2 Integrated End Supports with Angular Contact Bearings
- 1 Motor and Controller with integrated indexer (optional)

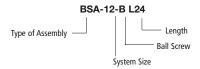
Ball Screw Assemblies

Inch and Metric

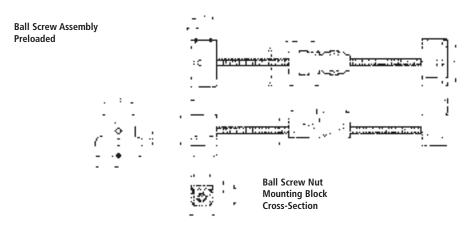
Specifying a Ball Screw Assembly:

- 1. Determine your drive requirements (torque, speed, acceleration, etc.)
- 2. Select the part number of the ball screw you have chosen.
- 3. Place your order with your local authorized distributor.

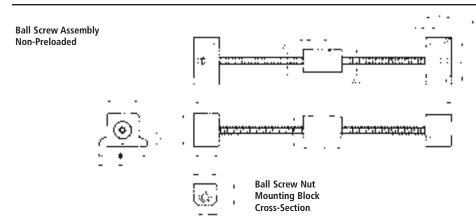
Part Numbering System



Dimensions (Inch)



Preloaded Ball Screw Assemblies are predesigned to match the base to pillow block height of 1BA, 1CA and 1VA linear guides. To utilize Ball Screw Assemblies with other linear guides contact the Thomson Systems application engineering department.



Non-Preloaded Ball Screw Assemblies are predesigned to match the base to pillow block height of 1BA, 1CA and 1VA linear guides. To utilize Ball Screw Assemblies with other linear guides contact the Thomson Systems application engineering department.

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Website: www.linearactuators.com

Ball Screw Assemblies

Ball Screw As	semblies - (Prelo	oaded)										(Din	nensions in inches
Part Number	Ball Screw Dia. x Lead	L3	L5	L6	L8	Н	НЗ	H1	В	В3	B4	R	G
BSA-08-Q	.500 x .500	1.50	0.75	0.38	2.25	1.812	2.35	1.200	3.80	3.20	2.50	1.900	0.19
BSA-12-L	.631 x 1.00	2.00	1.00	0.50	_	2.437	2.70	1.500	3.80	3.20	2.50	1.900	0.22
BSA-16-H BSA-16-T	1.00 x .250 1.00 x 1.00	2.20	1.20	0.50	2.40	2.937	3.45	1.750	5.00	4.20	3.50	2.500	0.28
BSA-24-I BSA-24-J BSA-24-Z	1.50 x .250 1.50 x 1.00 1.50 x 1.875	2.80	1.50	0.65	2.82	4.250	5.000	2.500	7.25	6.20	5.00	3.625	0.34

Ball Screw As	ssemblies - (Prel	oaded)										(Dimensions in inches)
Part	Ball Screw	Υ	V1	W	W1	F3	L9	Α	A1	A5	A7	Motor
Number	Dia. x Lead											Frame Size
BSA-08-Q	.500 x .500	1.00	0.25	0.95	0.14	#6-32	4.50	1.23	1.20	0.23	0.76	NEMA 23
BSA-12-L	.631 x 1.00	1.93	0.25	1.33	0.18	#8-32	3.44	1.69	1.80	-	-	NEMA 23
BSA-16-H	1.00 x .250	1.90	0.25	1.63	0.26	#10-32	4.85	2.15	2.03	0.44	2.12	NEMA 34
BSA-16-T	1.00 x 1.00						5.70					NEMA 34
BSA-24-I	1.50 x .250						6.38					NEMA 42
BSA-24-J	1.50 x 1.00	2.00	0.41	2.00	0.37	1/4-20	7.34	2.75	3.25	0.63	2.25	NEMA 42
BSA-24-Z	1.50 x 1.875						10.63					NEMA 42

Ball Screw Ass	Ball Screw Assemblies (Non-Preloaded) (Dimension in inches)												
Part	Ball Screw	L3	L5	L6	L9	Н	Н3	H1	В	В3	B4	R	G
Number	Dia. x Lead												
BSA-08-F	.500 x .200	1.50	0.75	0.38	2.25	1.812	2.35	1.200	3.80	3.20	2.50	1.90	0.19
BSA-12-G	.750 x .200	2.00	1.00	0.50	1.80	2.437	2.70	1.500	3.80	3.20	2.50	1.90	0.22
BSA-M12-B	12mm x 5mm	1.50	0.75	0.38	2.25	1.812	2.35	1.200	3.80	3.20	2.50	1.90	0.19
BSA-M20-D	20mm x 5mm	2.00	1.00	0.50	2.46	2.437	2.70	1.500	3.80	3.20	2.50	1.90	0.22

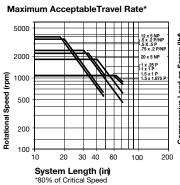
Ball Screw Ass	emblies (Non-Pre	eloaded)				Ball Screw Assemblies (Non-Preloaded) (Dimension in inches)												
Part	Ball Screw	A2	A3	A8	V2	V3	W2	W3	W4	F3								
Number	Dia. x Lead																	
BSA-08-F	.500 x .200	1.19	1.23	0.48	1.00	0.25	0.95	0.12	1.19	#6-32								
BSA-12-G	.750 x .200	1.69	1.80	0.72	1.93	0.25	1.33	0.18	1.69	#8-32								
BSA-M12-B	12mm x 5mm	1.19	1.23	0.48	1.00	0.25	0.95	0.12	1.19	#6-32								
BSA-M20-D	20mm x 5mm	1.69	1.80	0.72	1.93	0.25	1.33	0.18	1.69	#8-32								

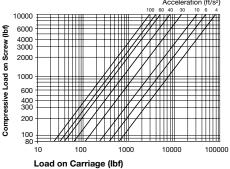
Ball Screw A	all Screw Assembly Standard Lengths												(Lengths in inches)				s)
Part No.	18	24	30	32	36	40	42	48	54	60	64	66	72	80	84	88	96
BSA-08-Q																	
BSA-12-L																	
BSA-16-H					П												П
BSA-16-T																	
BSA-24-I																	
BSA-24-J																	
BSA-24-Z																	

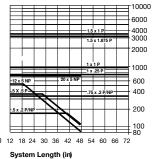
Custom Lengths

Custom lengths are also available. For special requirements, please contact the Danaher Motion application engineering department.

For Motion Control Options, see page B-66. To determine system Torque Requirements of Ball Screw travel life refer to the Engineering Support Appendix, page B-67. For Motor Adaptor and Motor Coupling information, see page B-55.







The SuperSlide has a pre-designed Maximum Acceptable Travel Rate. Calculate maximum rotational speed (rpm) by dividing your required maximum linear speed (in/min) by the corresponding system ball screw load (in/rev.). Enter the chartwith the required system length and your maximum rotational speed. Select the system with a maximum acceptable travel rate curve above the plotted line. Compressive load on the ball screw is a key factor in selecting the proper System. Using maximum load and acceleration requirements, plot compressive load on the left side of the chart. Using System length and compressive load, plot the maximum allowable compressive load plot the maximum allowable compressive force on the right chart. Select the System with a rated maximum compressive force above your plotted point.

above your plotted point.

If you have questions concerning your system requirements, contact the Thomson Systems application engineering department.

Note: Ball screw should never exceed recommended critical speed.

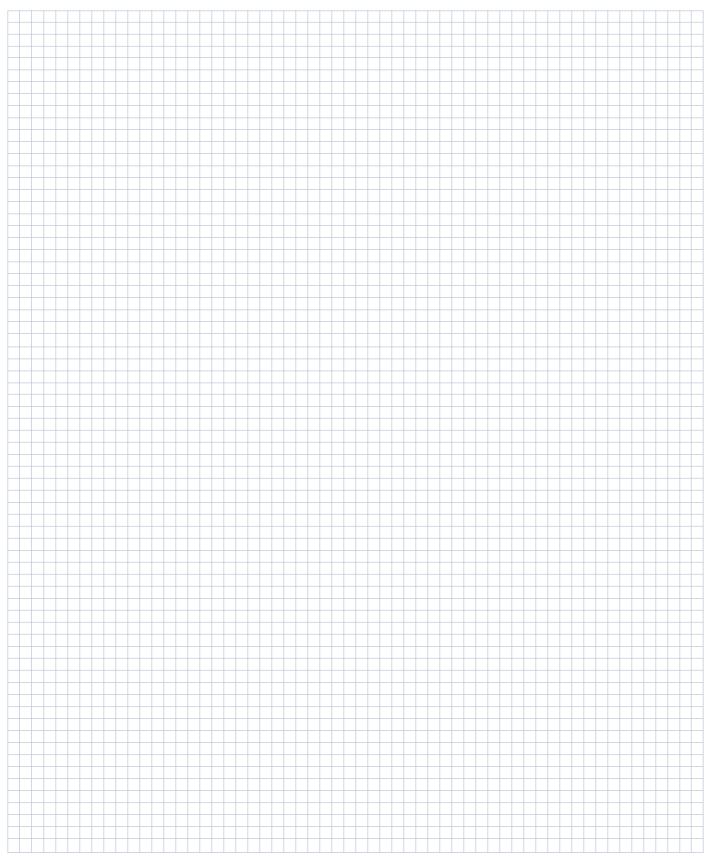


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Worksheet

Phone: 1-800-554-8466 Website: www.linearactuators.com

NOTES:













Accessories



Collapsable Bellows

Bellows will reduce available stroke length of slide by approximately 28%.

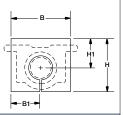
Bellows P/N should be succeeded by a length when ordering

Bellows Materials:

- Polyester Cover
- PVC Stiffeners

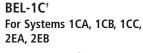




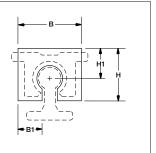


BEL-1B Moveable	Protective Bell	ows			
Part	Nom.	Di	mension (ii	า.)	CR
Number	Shaft Dia.	Н	H1	В	Ch
BEL-1B-04	1/4	1.187	.906	1.812	.163
BEL-1B-06	3/8	1.312	.968	1.937	.108
BEL-1B-08	1/2	1.687	1.156	2.062	.163
BEL-1B-12	3/4	2.000	1.156	2.312	.108
BEL-1B-16	1	2.375	1.281	2.625	.163
BEL-1B-24	11/2	3.062	1.531	3.125	.108

[†]Each moveable bellows comes with 1 section of bellows and 2 pairs of Velcro® Fasteners.







BEL-1C Moveable Protective Bellows									
Part	Nom.	Nom. Dimension (in.)							
Number	Shaft Dia.	Н	H1	В	CR				
BEL-1C-08	1/2	1.375	.968	2.062	.088				
BEL-1C-12	3/4	1.812	1.062	2.312	.120				
BEL-1C-16	1	2.375	1.218	2.625	.088				
BEL-1C-24	11/2	3.125	1.531	3.125	.088				

† Each moveable bellows comes with 1 section of bellows and 2 pairs of Velcro® Fasteners.

BEL-2AE For QuickSlide* Systems 2AA, 2EA and SuperSlide* Systems 2AB, 2EB

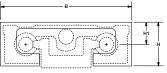


BEL-2AE Moveable Protective Bellows									
Part	Nom. Dimension (in.)								
Number	Shaft Dia.	Н	H1	В					
BEL-2AE-08	1/2	1.4	1.24	5.25					
BEL-2AE-12	3/4	2.1	1.35	6.85					
BEL-2AE-16	1	2.8	1.68	8.10					
BEL-2AE-24	11/2	4.2	2.44	11.18					

Each moveable bellows comes with 1 section of bellows and 2 pairs of Velcro® fasteners.

BEL-2D For Dual Shaft Rail QuickSlide System 2DA[†] and SuperSlide System 2DB



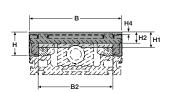


BEL-2D Dual Shaft Rail Bellows								
Part	Nom.	Dimension (in.)						
Number	Shaft Dia.	Н	H1	В				
BEL-2DA-08	1/2	1.50	0.85	4.60				
BEL-2DB-08	1/2	1.89	1.34	5.13				
BEL-2D-12	3/4	2.406	1.437	6.000				
BEL-2D-16	1	2.875	1.687	7.500				

Each moveable bellows comes with 1 section of bellows and 2 mounting brackets and mounting screws.

BEL-2H For SuperSlide Systems 2HB, 2HE





BEL-2H Move	BEL-2H Moveable Protective Bellows								
Part	Nom.	Dimension (mm)							
Number	Sys. size	В	B2	Н	H1	H2	H4		
BEL-2H-10	10	103	81	26	11	10	0		
BEL-2H-20	20	199	167	48	30	15	5		

Each moveable bellows comes with 1 section of bellows and 2 mounting brackets and mounting screws.

BEL-2R For SuperSlide Systems 2RB, 2RE

BEL-2K Moveable Protective Bellows									
	Part	Nom.	Dimension (mm)						
	Number	Shaft Dia.	В	B2	Н	H1	H2	Н3	H4
	BEL-2R-12	12	128	75	48	37	29	15	12
	BEL-2R-16	16	158	95	52	426	30	150	10

Each moveable bellows comes with 1 section of bellows and 2 mounting brackets and mounting screws.

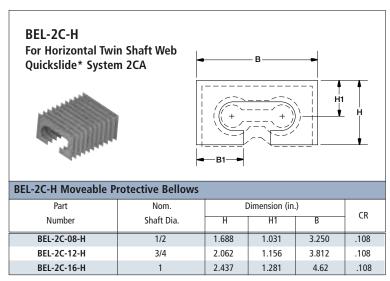


[†]Appropriate arrangements for afixing the Bellows at each end of the QuickSlide 2DA System are required.

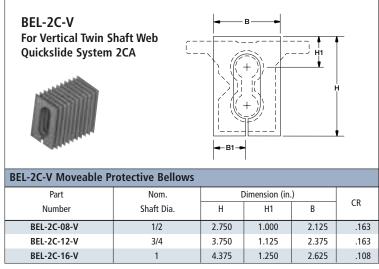
Website: www.linearactuators.com

Collapsable Bellows

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