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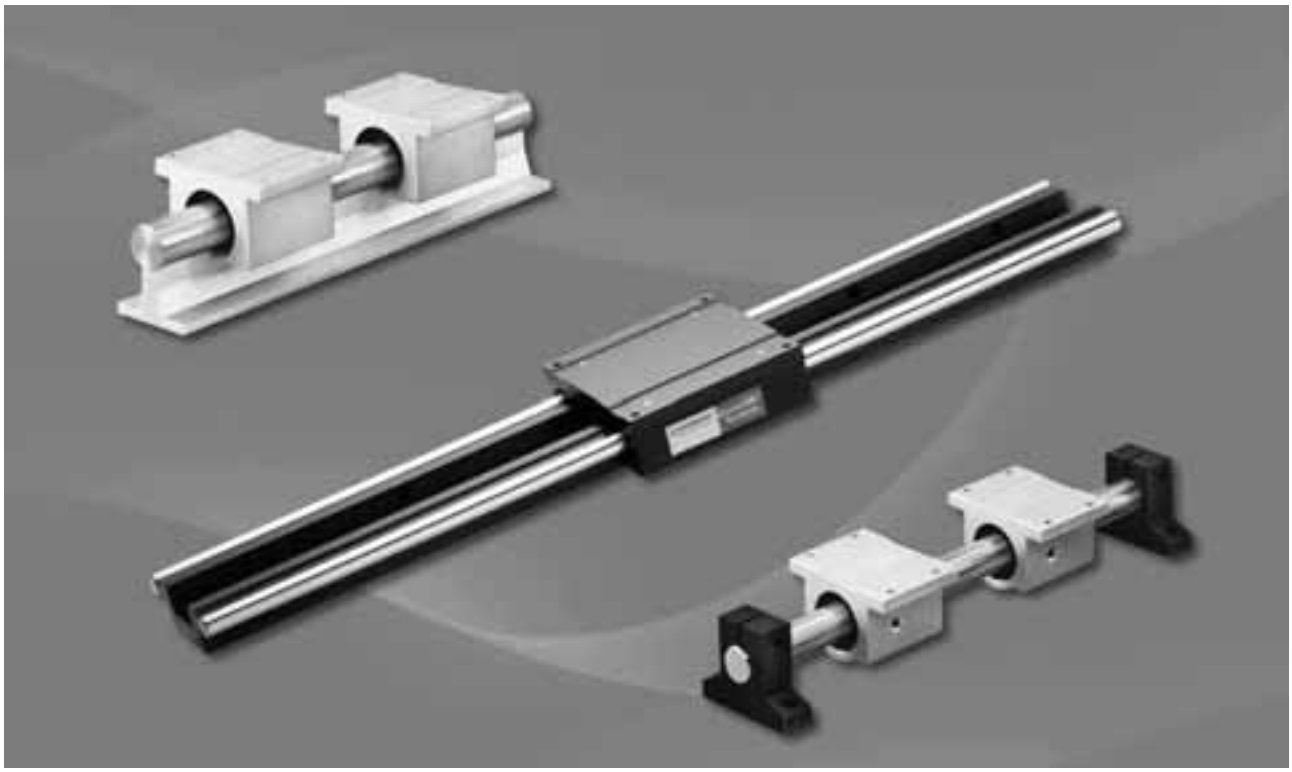
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RoundRail Linear Guides

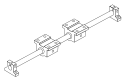
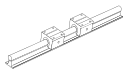
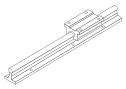
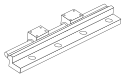
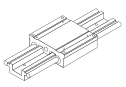
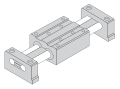


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RoundRail Linear Guides are the non-driven building blocks for linear slide tables. They offer the end user flexiblity to fit specific envelopes by allowing customized separations between shafts and between bearings on shafts to produce higher moment capacity. When combined with ballscrew assemblies, they become a driven slide table.

Because RoundRail Linear Guides are offered in a wide range of sizes, bearing types, and mounting configurations, they are typically selected by the qualitative attributes that are most appropriate for a given application (i.e. environmental considerations, mounting footprint). For this reason, we are providing the following selection chart and selection criteria for consideration:

Systems Quick Reference Guide

Application Criteria		End Support	Continuous Support	FluoroNyliner	Side Mounted	Dual Shaft Rail	Twin Shaft Web
							
		1BA / 1NA	1 CA / 1PA	1 VA	1 DA	2DA	2CA
High Loads			•	•			
Equivalent Loads in All Directions		•				•	
Ultra Compactness		•					•
Extreme Smoothness		•	•		•		•
End Supported		•				•	•
Single Rail							•
Harsh Environment				•			
Low Cost Installation (multiple rail)		•	•	•	•		
Complete Axis Solution							•
Available Sizes:	Inch	4 thru 24	8 thru 24	8 thru 24	•	•	
	Metric	8 thru 40	12 thru 40		8 thru 16	8 thru 16	8 thru 16
Page Number		233/235	238/240	243	246	249	252

Linear Guide Selection Criteria

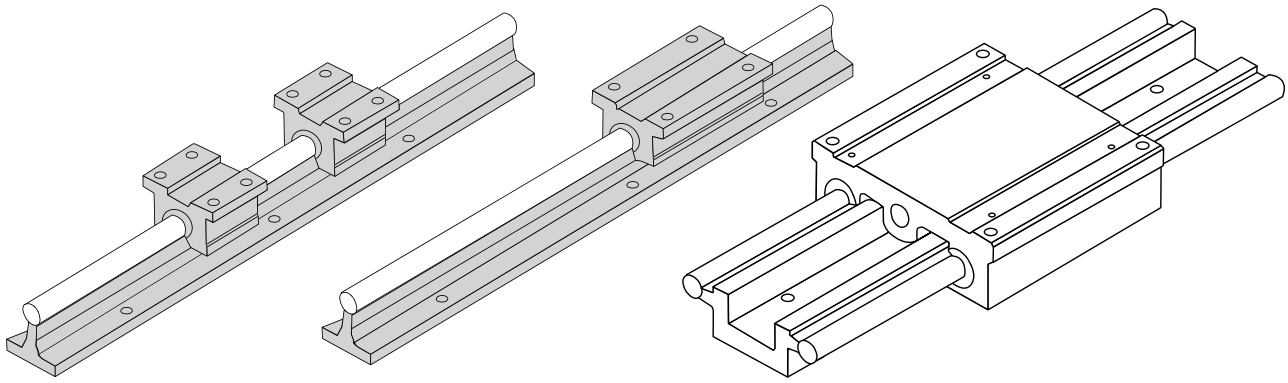
- Load/Life
- Travel Accuracy
- Rigidity
- Smoothness of Travel
- Speed & Acceleration
- Envelope
- Environment
- Cost of Product
- Cost of Installation
- Cost of Replacement

Application Examples

- Machine Tools
- Packaging Machinery
- Automotive Assembly Equipment
- Semiconductor Equipment
- Medical Equipment
- Food Processing Equipment

RoundRail Linear Guides

Thomson RoundRail Linear Guide products offer:



Pre-assembled, ready to install stages providing low friction, smooth, accurate motion for a wide range of moment or normal loading configurations. Market applications include factory automation, medical, packaging, machine tool, semiconductor, printing, automotive assembly, aerospace and food processing. Slide tables are available as customizable linear guides to multiaxis, turnkey systems complete with motors, drives, controls and electromechanical accessories.

- Applications-typically on factory machinery where accurate, smooth linear positioning is required
- Available with servo/stepper motor & drive packages
- Max thrust to 3100 lb
- Strokes to 120”
- Loads from 5 - 2000 lb
- Repeatability to 0.0002”

Linear Guides are the non-driven building blocks for linear slide tables. They offer the end user flexibility to fit specific envelopes by allowing customized separations between shafts and between bearings on shafts to produce higher moment capacity. When combined with ballscrew assemblies, they become a driven slide table.

Because RoundRail Linear Guides are offered in a wide range of sizes, bearing types, and mounting configurations, they are typically selected by the qualitative attributes that are most appropriate for a given application (i.e. environmental considerations, mounting footprint). For this reason, we are providing the following selection chart and selection criteria for consideration:

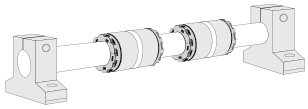
RoundRail Linear Guide Selection Criteria

- Load/Life
- Travel Accuracy
- Rigidity
- Smoothness of Travel
- Speed & Acceleration
- Envelope
- Environment
- Cost of Product
- Cost of Installation
- Cost of Replacement

Application Examples

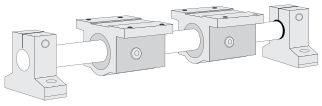
- Machine Tools
- Packaging Machinery
- Automotive Assembly Equipment
- Semiconductor Equipment
- Medical Equipment
- Food Processing Equipment

Super Smart Ball Bushing Bearings and Pillow Blocks
for End Supported Applications



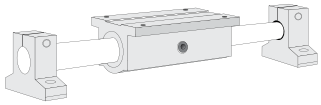
Super Smart Ball Bushing Bearings (Closed Type) Features:

- Available in sizes 1/2 to 1 1/2 inch diameters.
- Load capacity range from 265 to 3,880 lb_f.
- Available with one, two or without integral double lip wipers.
- Can be adjusted to take out diametrical clearance.
- Can be mounted in a customized housing.
- Travel speeds up to 10 ft/s.
- Interchangeable with the industry standard Thomson Super Ball Bushing bearing.



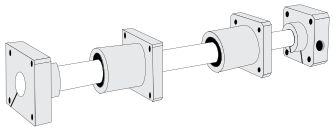
Super Smart Ball Bushing Pillow Blocks (Closed & Adjustable Type) Features:

- Available in sizes 1/2 to 1 1/2 inch diameters.
- Load capacity range from 265 to 3,880 lb_f.
- Available with standard integral double acting seals.
- Available with or without adjustment capability.
- Can be adjusted to take out diametrical clearance.
- Easily mounted and secured with four mounting bolts.
- Travel speeds up to 10 ft/s.
- Available with standard lubrication fitting.
- Interchangeable with the industry standard Thomson Super Ball Bushing Pillow Blocks.



Super Smart Ball Bushing Twin Pillow Blocks (Closed & Adjustable Type) Features:

- Available in sizes 1/2 to 1 1/2 inch diameters.
- Load capacity range from 530 to 7,760 lb_f.
- Available with standard integral double acting seals.
- Available with or without adjustment capability.
- Can be adjusted to take out diametrical clearance.
- Travel speeds up to 10 ft/s.
- Easily mounted and secured with four mounting bolts.
- Available with standard lubrication fitting.
- Interchangeable with the industry standard Thomson Super Ball Bushing Twin Pillow Block.

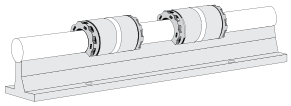


Super Smart Ball Bushing Flanged Single and Twin Pillow Blocks Features:

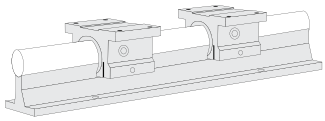
- Available in sizes 1/2 and 1 1/2 inch diameters.
- Load capacity range from 265 to 7,760 lb_f.
- Available with standard integral double acting seals.
- Without adjustment capability.
- Can be mounted perpendicular to table surface.
- Easily mounted and secured with four mounting bolts.
- Travel speeds up to 10 ft/s.
- Available with standard lubrication fitting.
- Interchangeable with the industry standard Thomson Super Ball Bushing Flanged Single and Twin Pillow Block.

RoundRail Linear Guides

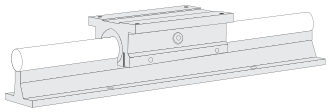
Super Smart Ball Bushing Bearings and Pillow Blocks
(Open Type) for Continuously Supported Applications



Super Smart Ball Bushing bearing (Open Type) Features:
- Available in sizes 1/2 to 1 1/2 inch diameter.
- Load capacity range from 360 to 3,880 lb_f.
- Pull off load capacity range from 250 to 1,750 lb_f.
- Available with one, two or without double lip integral wipers.
- Can be adjusted to take out diametrical clearance.
- Can be mounted in a customized open style pillow block.
- Travel speeds up to 10 ft/s.
- Interchangeable with the industry standard Thomson Super Ball Bushing bearing (Open type).

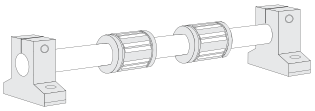


Super Smart Ball Bushing Pillow Blocks (Open Type) Features:
- Available in sizes 1/2 to 1 1/2 inch diameter.
- Load Capacity range from 360 to 3,880 lb_f.
- Pull off load capacity range from 250 to 1,750 lb_f.
- Available with standard double acting integral seals.
- Can be adjusted to take out diametrical clearance.
- Easily mounted and secured with four mounting bolts.
- Travel speeds up to 10 ft/s.
- Available with standard lubrication access.
- Interchangeable with the industry standard Thomson Super Ball Bushing Pillow Block (Open Type).



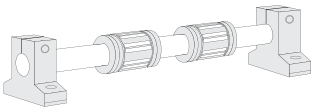
Super Smart Ball Bushing Twin Pillow Blocks (Open Type) Features:
- Available in sizes 1/2 to 1 1/2 inch diameter.
- Load Capacity range from 720 to 7,760 lb_f.
- Pull off load capacity range from 500 to 3,500 lb_f.
- Available with standard double acting integral seals.
- Can be adjusted to take out diametrical clearance.
- Easily mounted and secured with four mounting bolts.
- Travel speeds up to 10 ft/s.
- Available with standard lubrication access.
- Interchangeable with the industry standard Thomson Super Ball Bushing Twin Pillow Block (Open Type).

Super Ball Bushing Bearings and Pillow Blocks
for End Supported Applications



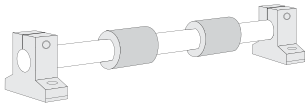
Super Ball Bushing Bearings (Closed type) Features:

- Available in sizes 3/16 to 2 inch diameter.
- Load Capacity range from 35 to 3,000 lb_f.
- Self-aligning in all directions.
- Can be mounted in a custom housing.
- Can be adjusted to take out diametrical clearance.
- Travel speeds up to 10 ft/s.
- Available with corrosion resistant components.



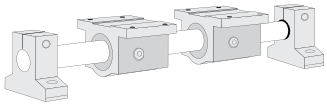
Sealed Super Ball Bushing Bearings (Closed type) Features:

- Integral double acting seals retain lubrication and keep out contamination.
- Available in sizes 1/2, 3/4 and 1 inch nominal diameter.
- Load capacity range from 255 to 1,050 lb_f.
- Self-aligning in all directions.
- Can be adjusted to take out diametrical clearance.
- Can be mounted in a custom housing.
- Travel speeds up to 10 ft/s.
- Available with corrosion resistant components.



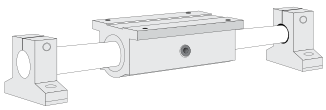
Super Ball Bushing Cartridge Bearings Features:

- Available in sizes 1/4, 3/8 and 1/2 inch diameter.
- Can be easily installed into a soft or slightly out-of-round housing.
- Available in both single or twin versions and with or without integral double acting seals.
- Single versions are self-aligning in all directions.
- Twin versions minimize installation time and cost.
- Available with corrosion resistant components.



Super Ball Bushing Pillow Blocks (Closed and Adjustable Type) Features:

- Available in sizes 1/4 to 2 inch diameter.
- Load capacity range between 60 and 3,000 lb_f.
- Available with standard integral double acting seals.
- Travel speeds up to 10 ft/s.
- Available with or without diameter adjustment capability.
- Easily mounted and secured with four mounting bolts (sizes 1/4 and 3/8 secured with two mounting bolts).
- Available with a standard lubrication access.

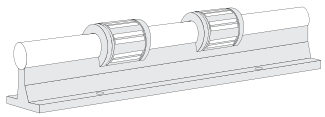


Super Ball Bushing Twin Pillow Blocks (Closed and Adjustable Type) Features:

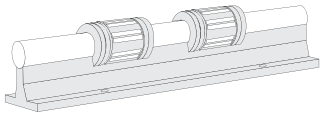
- Available in sizes 1/4 to 1 1/2 inch diameter.
- Load capacity range between 120 and 4,000 lb_f.
- Available with standard integral double acting seals.
- Travel speeds up to 10 ft/s.
- Available with or without diameter adjustment capability.
- Easily mounted and secured with four mounting bolts.
- Available with a standard lubrication access.

RoundRail Linear Guides

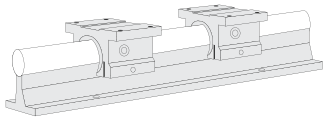
Super Ball Bushing Bearings and Pillow Blocks
(Open Type) for Continuously Supported Applications



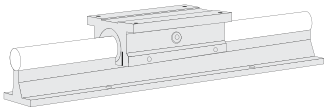
Super Ball Bushing Bearings (Open Type) Features:
- Available in sizes 1/2-2 inch diameter.
- Load capacity ranges from 230 to 2,350 lb_f.
- Self-aligning in all directions.
- Can be adjusted to take out diametrical clearance.
- Can be mounted in customized housing.
- Travel speeds up to 10 ft/s.
- Available with corrosion resistant components.



Sealed Super Ball Bushing Bearings (Open Type) Features:
- Standard integral double acting seals retain lubrication and keep out contaminants.
- Available in sizes 1/2, 3/4 and 1 inch diameter.
- Load capacity ranges from 230 to 780 lb_f.
- Self-aligning in all directions.
- Can be adjusted to take out diametrical clearance.
- Can be mounted in customized housing.
- Travel speeds up to 10 ft/s.
- Available with corrosion resistant components.

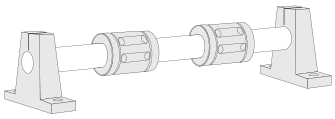


Super Ball Bushing Pillow Blocks (Open Type) Features:
- Available in sizes 1/2-2 inch diameter.
- Load capacity ranges from 230 to 2,350 lb_f.
- Self-aligning in all directions.
- Can be adjusted to take out diametrical clearance.
- Travel speeds up to 10 ft/s.
- Standard integral double acting seals retain lubrication and keep out contaminants.
- Available with corrosion resistant components.
- Easily mounted and secured with four mounting bolts.
- Available with standard lubrication access. Sizes .25, .375 and .500 have oil lubricant fitting. Sizes .625 and above have 1/4-28 access for lubrication.



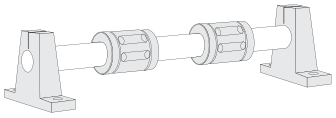
Super Ball Bushing Twin Pillow Blocks (Open Type) Features:
- Available in sizes 1/2-1 1/2 inch diameter.
- Load capacity ranges from 460 to 3,120 lb_f.
- Can be adjusted to take out diametrical clearance.
- Available with corrosion resistant components.
- Standard integral double acting seals retain lubrication and keep out contaminants.
- Easily mounted and secured with four mounting bolts.
- Maximum travel speeds up to 10 ft/s.
- Available with standard lubrication access. Sizes .25, .375 and .500 have oil lubricant fitting. Sizes .625 and above have 1/4-28 access for lubrication.
- Built-in lubrication wick for continuous lubrication.

Precision Steel Ball Bushing Bearings and Pillow Blocks
for End Supported Applications



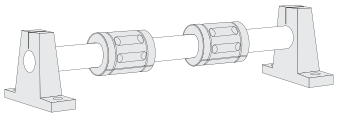
Precision Steel Ball Bushing Bearings (Closed type) Features:

- Coefficient of friction as low as .001.
- Load capacity range from 19 to 5,000 lb_f.
- High operating temperature capability.
- Available in sizes 1/4 to 4 inch bore diameter.
- Can be mounted in a custom housing.
- Travel speeds up to 10 ft/s.
- Available in corrosion resistant stainless steel for diameters up to 1 inch
- All steel construction for increased rigidity.
- Sizes 1/2, 3/4 and 1 inch available with integral, double acting wipers.



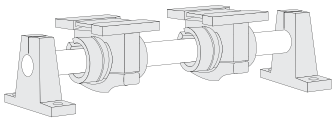
Extra Precision Steel Ball Bushing Bearings (Closed type) Features:

- Increased precision for high accuracy positioning and repeatability
- Coefficient of friction as low as .001.
- Load capacity range from 19 to 5,000 lb_f.
- High operating temperature capability.
- Available in sizes 1⁄4 to 4 inch bore diameter.
- Can be mounted in a custom housing.
- Travel speeds up to 10 ft/s.
- Available in corrosion resistant stainless steel for diameters up to 1 inch.
- All steel construction for increased rigidity.
- Sizes 1/2, 3/4 and 1 inch available with integral, double acting wipers.



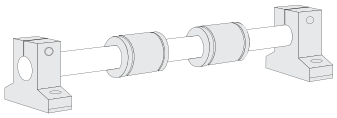
Adjustable Precision Steel Ball Bushing Bearings (Closed Type) Features:

- Adjustment capability provides minimum 60 Case LinearRace shaft and bearing clearance for improvements in positioning accuracy and repeatability.
- Coefficient of friction as low as .001.
- Load capacity range from 85 to 5,000 lb_f.
- High operating temperature capability.
- Available in sizes 1⁄2 to 4 inch bore diameter.
- Can be mounted in a custom housing.
- Travel speeds up to 10 ft/s.
- All steel construction for increased rigidity.
- Available in corrosion resistant stainless steel for diameters up to 1 inch.



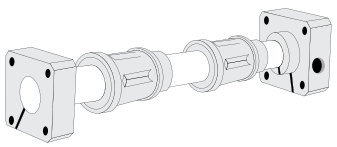
Precision Steel Ball Bushing Pillow Blocks (Closed and Adjustable Type) Features:

- Coefficient of friction as low as .001.
- Load capacity range from 85 to 1,100 lb_f.
- High operating temperature capability.
- Available in sizes 1⁄2 to 2 inch bore diameter.
- Self-aligning for easy installation.
- Travel speeds up to 10 ft/s.
- Pillow Blocks are available with corrosion resistant stainless steel Ball Bushing bearings up to 1 inch.
- Easily mounted and secured with four mounting bolts.
- All metal construction for increased rigidity.
- Available with integral, double acting seals.
- Adjustment capability provides minimum 60 Case LinearRace and bearing clearance for improvements in positioning accuracy and repeatability.



Miniature Instrument Ball Bushing Bearings Features:

- Available in sizes 1/8, 3/16 and 1/4 inch bore diameter.
- Available with a matched 60 Case LinearRace
- Coefficient of friction as low as .001.
- Compact size for low inertia and weight.
- Precision bearing balls, sleeve and 60 Case LinearRace manufactured of corrosion resistant stainless steel.
- Load Capacity range between 7 and 19 lb_f.

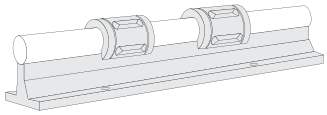


Die Set Ball Bushing Bearings Features:

- Available in sizes 1, 1 1⁄4, 1 1⁄2 and 2 inch bore diameter.
- Load Capacity range between 350 and 1,100 lb_f.
- All steel construction for maximum rigidity.
- Travel speeds up to 10 ft/s.
- Easily mounted by simply bolting toe clamps in place.
- Can be mounted perpendicular to mounting surface.
- High operating temperature capability.
- Coefficient of friction as low as .001.

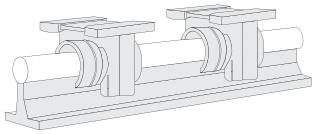
RoundRail Linear Guides

Precision Steel Ball Bushing Bearings and Pillow Blocks
(Open Type) for Continuously Supported Applications



Precision Steel Ball Bushing Bearings (Open type) Features:

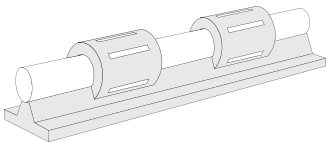
- Coefficient of friction as low as .001.
- Load Capacity range from 60 to 3,800 lb_f.
- Can be mounted in a custom housing.
- Available in sizes 1⁄2 to 4 inch diameter.
- All steel construction for maximum rigidity.
- Can be adjusted to remove clearance between the Ball Bushing bearing and 60 Case LinearRace.
- Available in corrosion resistant stainless steel in sizes up to 1 inch diameter.
- Travel speeds up to 10 ft/s.
- High operating temperature capability.
- Available with corrosion resistant components.



Precision Steel Ball Bushing Bearings and Pillow Blocks (Open type) Features:

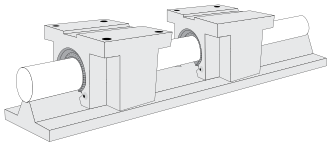
- Self-aligning for easy installation.
- Easily secured to table surface with four mounting bolts.
- Coefficient of friction as low as .001.
- Load capacity range from 60 to 860 lb_f.
- Available in sizes 1⁄2 to 2 inch diameter.
- Available with seals at both ends.
- All steel construction for maximum rigidity.
- Can be adjusted to remove clearance between the Ball Bushing bearing and 60 Case LinearRace.
- Available with corrosion resistant stainless steel Ball Bushing bearing in sizes up to 1 inch diameter.
- Travel speeds up to 10 ft/s.

XR Ball Bushing bearing Products
for Continuously Supported Applications



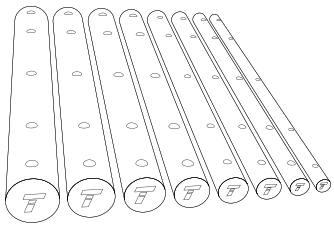
XR Ball Bushing Bearings Features:

- Available in sizes 2 and 3 inch bore diameter.
- Load capacity range from 4,500 to 10,000 lb_f.
- Pull of load capacity range between 2,100 to 8,000 lb_f.
- Can be mounted in a custom housing.
- Travel speeds up to 5 ft/s.
- System accelerations up to 160 ft/s^2.



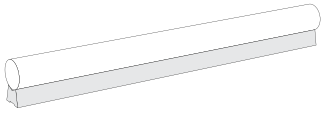
XPBO Ball Bushing Pillow Blocks Features:

- Available in 2 and 3 inch diameter sizes.
- Load capacity range from 4,500 to 10,000 lb_f.
- Pull of load capacity range between 2,100 to 4,500 lb_f.
- Easily secured to table or carriage surface with four mounting bolts.
- Travel speeds up to 5 ft/s.
- System accelerations up to 160 ft/s^2.
- When used with XL 60 Case LinearRace internal clearance is minimized.
- Integral double acting seals at both ends.



XL 60 Case LinearRace Features:

- Case hardness to 60 HRC minimum.
- Surface finish is 8 Ra microinch for 2 and 3 inch diameter and 10 Ra microinch for 4 inch diameter.
- Roundness 80 millionths of an inch.
- Straightness of .0005 inch per foot (.001 TIR) cumulative.
- Available with standard radial drilled and tapped holes.
- Minimum depth of hardness is .100 inch.

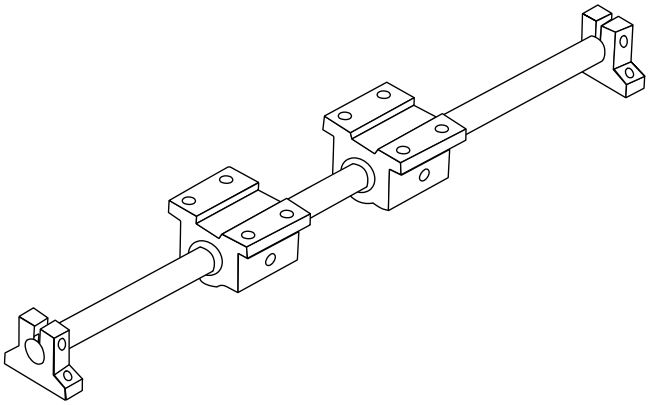


XSR 60 Case LinearRace Support Rails Features:

- All ductile iron, heavy duty design and construction.
- Available in 2 and 3 inch diameter sizes.
- Equipped with drilled thru and counterbored base mounting holes.
- Can be pre-assembled with a 60 Case LinearRace for quick and easy installation.
- Precision ground surfaces for 60 Case LinearRace and base mounting.
- Reference edge for ease of installation.

RoundRail Linear Guides

End Support Linear Ball Guides



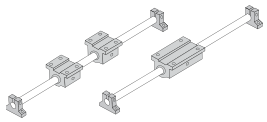
Easy to install, smooth operation, self-aligning, high speed

End Support Linear Ball Guides Offer:

- Increased life within the same envelope. RoundRail linear guides feature the new patented Super Smart Ball Bushing Bearings for up to 216X the life or 6X the load capacity of conventional bearings.
- Cost savings: save time and money preparing your mounting surfaces before bolting down RoundRail linear guides
- End supported for gantry style or 'bridge' applications
- The RoundRail Advantage. The inherent self-aligning-in-all-directions design of the Super Smart Ball Bushing bearing allows for ultra smooth travel when mounted to wider toleranced prepared surfaces
- The Super Smart Ball Bushing bearing... the most technologically advanced and most robust linear bearing in the world
- Corrosion resistant versions for maximum performance in harsh environments.

End Support 1BA

End Supported, Industry Standard Dimension Inch



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

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.

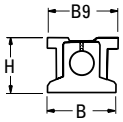
Part Numbering System

1BA-12-AHO L24

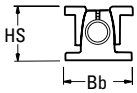
- **1BA** — Linear Guide Designation
- **12** — Nominal Diameter
- **A** — Type of Bearing Block
- **HO** — Type of Support
- **L24** — Linear Guide Length

Dimensions (Inch)

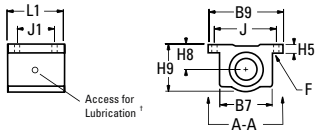
Type ASB End Support Block



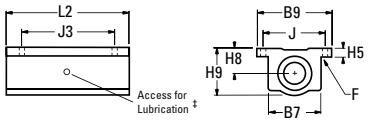
Type SB End Support Block



Type SSUPB Super Smart and SPB Super Ball Bushing Pillow Blocks

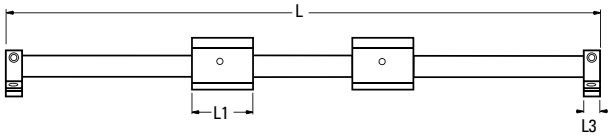


Type SSUTWN Super Smart and TWN Super Ball Bushing Twin Pillow Blocks

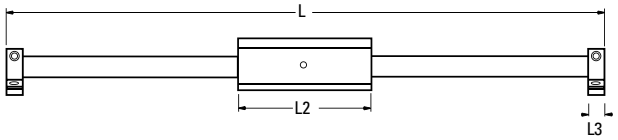


‡ Sizes .250, .375 and .500 have oil lubricant fitting. Sizes .625 and above have 1/4-28 access for lubrication.

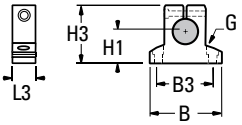
Single End Supported Linear Guide with 2 Pillow Blocks



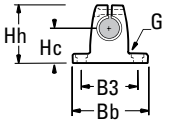
Single End Supported Linear Guide with 1 Twin Pillow Block



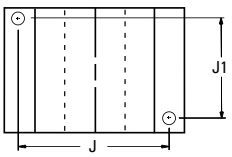
Aluminum
Type ASB LinearRace Shaft End Support Block



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

RoundRail Linear Guides

End Support Linear Guide 1BA with 2 Pillow Blocks (Dimensions in inches)

Part Number		Nominal Diameter	L1	L3	H	HS	B	Bb	B9	Pillow Block	Shaft Support	
With Type ASB Shaft Supports	With Type SB Shaft Supports										Type ASB	Type SB
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	10.62	–	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	SSPB-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	SSPB-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	SSPB-16-XS	ASB-16-XS	SB-16-XS
–	1BA-20-AJO	1.250	3.63	1.13	–	3.250	–	–	4.00	SSPB-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	SSPB-24-XS	ASB-24-XS	SB-24-XS

End Support Linear Guide 1BA with 1 Twin Pillow Block (Dimensions in inches)

Part Number		Nominal Diameter	L2	L3	H	HS	B	Bb	B9	Max Stroke Length	Pillow Block	Shaft Support	
With Type ASB Shaft Supports	With Type SB Shaft Supports											Type ASB	Type SB
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	10.62	–	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	2.75	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	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 (page 270) for Deflection calculations.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number		Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1BA-04-AHO	–	100	SPB-4-XS	50
1BA-06-AHO	–	160	SPB-6-XS	80
1BA-08-AHO	1BA-08-AJO	800	SSPB-8-XS	400
1BA-12-AHO	1BA-12-AJO	1800	SSPB-12-XS	900
1BA-16-AHO	1BA-16-AJO	3000	SSPB-16-XS	1500
–	1BA-20-AJO	3730	SSPB-20-XS	1865
1BA-24-AHO	1BA-24-AJO	6160	SSPB-24-XS	3080

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number		Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1BA-04-BHO	–	100	TWN-4-XS	100
1BA-06-BHO	–	160	TWN-6-XS	160
1BA-08-BHO	1BA-08-BJO	800	SSUTWN-8-XS	800
1BA-12-BHO	1BA-12-BJO	1800	SSUTWN-12-XS	1800
1BA-16-BHO	1BA-16-BJO	3000	SSUTWN-16-XS	3000
–	1BA-20-BJO	3730	SSUTWN-20-XS	3730
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 SSUPB Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B7	J	J1	F		Wt. (lb)
										Bolt	Hole	
SPB-4-XS	.250	1.19	.81	.437	.19	1.63	1.00	1.31	.75[2]	#6	.16	.10
SPB-6-XS	.375	1.31	.94	.500	.19	1.75	1.12	1.44	.88[2]	#6	.16	.13
SSPB-8-XS	.500	1.69	1.25	.687	.25	2.00	1.38	1.69	1.00	#6	.16	.20
SSPB-12-XS	.750	2.06	1.75	.937	.31	2.75	1.88	2.38	1.25	#8	.19	.62
SSPB-16-XS	1.000	2.81	2.19	1.187	.38	3.25	2.38	2.88	1.75	#10	.22	1.24
SSPB-20-XS	1.250	3.63	2.81	1.500	.43	4.00	3.00	3.50	2.00	#10	.22	2.57
SSPB-24-XS	1.500	4.00	3.25	1.750	.50	4.75	3.50	4.12	2.50	1/4	.28	3.94

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 256 under Accessories for P/N and dimensions.

Type TWN and SSUTWN Pillow Blocks

Part Number	Nom. Dia.	L2	J3	Wt. (lb)
TWN-4-XS	.25	2.50	2.00	.19
TWN-6-XS	.375	2.75	2.25	.25
SSUTWN-8-XS	.500	3.50	2.50	.40
SSUTWN-12-XS	.750	4.50	3.50	1.24
SSUTWN-16-XS	1.000	6.00	4.50	2.48
SSUTWN-20-XS	1.250	7.50	5.50	5.14
SSUTWN-24-XS	1.500	9.00	6.50	8.08

Housing Material: Aluminum Alloy Black Anodized and

Type ASB LinearRace Shaft End Support Block (Dim. in in.)

Part Number	Nom. Dia.	L3	H3	H1	B	B3	F		Wt. (lb)
							Bolt	Hole	
ASB-4-XS	.250	.50	.88	.500	1.50	1.12	#6	.16	.06
ASB-6-XS	.375	.56	1.00	.562	1.62	1.25	#6	.16	.08
ASB-8-XS	.500	.63	1.48	.875	2.00	1.50	#8	.19	.11
ASB-12-XS	.750	.75	1.95	1.125	2.50	2.00	#10	.22	.22
ASB-16-XS	1.000	1.00	2.48	1.375	3.25	2.50	1/4	.28	.44
ASB-24-XS	1.500	1.25	3.50	2.000	4.75	3.50	5/16	.34	1.16

End Support Material: Aluminum Alloy Black Anodized

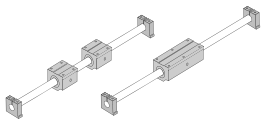
Type SB LinearRace Shaft End Support Block (Dim. in in.)

Part Number	Nom. Dia.	L3	Hh	Hc	Bb	B3	F		Wt. (lb)
							Bolt	Hole	
SB-8-XS	.500	.63	1.62	1.000	2.00	1.50	#8	.16	.3
SB-12-XS	.750	.75	2.12	1.250	2.75	2.00	#10	.16	.5
SB-16-XS	1.000	1.00	2.56	1.500	3.25	2.50	1/4	.19	1.0
SB-20-XS	1.250	1.13	3.00	1.750	4.00	3.00	5/16	.22	2.0
SB-24-XS	1.500	1.25	3.50	2.000	4.75	3.50	5/16	.28	2.6

Material: Iron

End Support 1NA

End Supported, Industry Standard Dimension Metric



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

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.

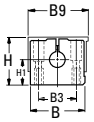
Part Numbering System

1NA-M12-N M0 L600

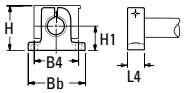
- **1NA** — Linear Guide Designation
- **M12** — Nominal Diameter
- **N** — Type of Bearing Block
- **M0** — Type of Support
- **L600** — Linear Guide Length

Dimensions (Inch)

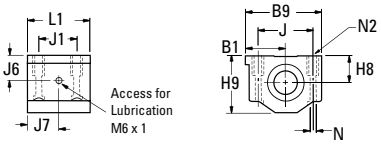
Type ASB End Support Block



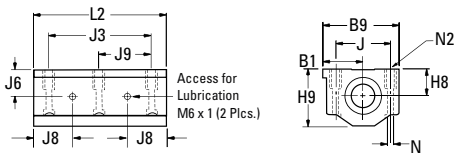
Type SB End Support Block



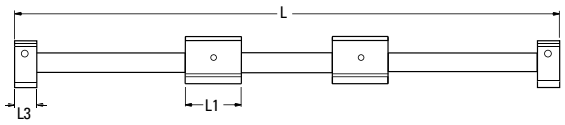
Type SPPB Super Plus and SSEPB Super Smart Ball Bushing Pillow Blocks



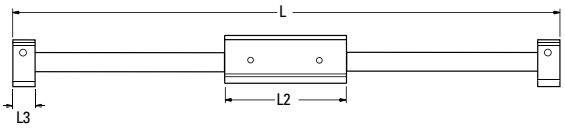
Type SPTWN Super Plus and SSETWN Super Smart Ball Bushing Twin Pillow Blocks



Supported Linear Guide with 2 Pillow Blocks

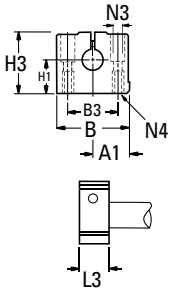


Supported Linear Guide with 1 Twin Pillow Block

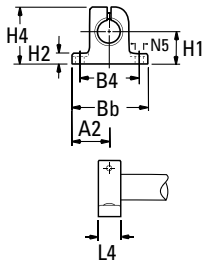


Maximum Stroke Length is determined by subtracting pillow block length (L2) and 2x support block length (L3) or (L4) from total Linear Guide length (L).

Aluminum
Type ASB LinearRace Shaft End Support Block



Steel
Type SB LinearRace Shaft End Support Block



RoundRail Linear Guides

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

Part Number		Nom. Dia.	L1	L3	L4	H	H1	B	Bb	B9	Pillow Block	Shaft Support	
With Type ASB Shaft Supports	With Type SB Shaft Supports											Type ASB	Type SB
1NA-M08-NM0	1NA-M08-NN0	8	32	18	10	30	15	32	32	35	SPPB-M08-XS	ASB-M08-XS	SB-M08-XS
1NA-M12-NM0	1NA-M12-NN0	12	39	20	12	38	20	43	42	43	SSEPB-M12-XS	ASB-M12-XS	SB-M12-XS
1NA-M16-NM0	1NA-M16-NN0	16	43	24	16	47	25	43	50	53	SSEPB-M16-XS	ASB-M16-XS	SB-M16-XS
1NA-M20-NM0	1NA-M20-NN0	20	54	30	20	55	30	60	60	60	SSEPB-M20-XS	ASB-M20-XS	SB-M20-XS
1NA-M25-NM0	1NA-M25-NN0	25	67	38	25	65	35	78	74	78	SSEPB-M25-XS	ASB-M25-XS	SB-M25-XS
1NA-M30-NM0	1NA-M30-NN0	30	79	40	28	75	40	87	84	87	SSEPB-M30-XS	ASB-M30-XS	SB-M30-XS
1NA-M40-NM0	1NA-M40-NN0	40	91	48	32	95	50	108	108	108	SSEPB-M40-XS	ASB-M40-XS	SB-M40-XS

End Support Linear Guide 1NA with 1 Twin Pillow Block (Dimensions in mm)

Part Number		Nom. Dia.	L2	L3	L4	H	H1	B	Bb	B9	Pillow Block	Shaft Support	
With Type ASB Shaft Supports	With Type SB Shaft Supports											Type ASB	Type SB
1NA-M08-PM0	1NA-M08-PN0	8	62	18	10	30	15	32	32	35	SPTWN-M08-XS	ASB-M08-XS	SB-M08-XS
1NA-M12-PM0	1NA-M12-PN0	12	76	20	12	38	20	43	42	43	SSETWN-M12-XS	ASB-M12-XS	SB-M12-XS
1NA-M16-PM0	1NA-M16-PN0	16	84	24	16	47	25	43	50	53	SSETWN-M16-XS	ASB-M16-XS	SB-M16-XS
1NA-M20-PM0	1NA-M20-PN0	20	104	30	20	55	30	60	60	60	SSETWN-M20-XS	ASB-M20-XS	SB-M20-XS
1NA-M25-PM0	1NA-M25-PN0	25	130	38	25	65	35	78	74	78	SSETWN-M25-XS	ASB-M25-XS	SB-M25-XS
1NA-M30-PM0	1NA-M30-PN0	30	152	40	28	75	40	87	84	87	SSETWN-M30-XS	ASB-M30-XS	SB-M30-XS
1NA-M40-PM0	1NA-M40-PN0	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 (page 270) for Deflection calculations.

Dynamic Load Capacity Matrix (100 km travel)

Linear Guide Assembly Part Number		Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1NA-M08-NM0	1NA-M08-NN0	100	SPPB-M08-XS	50
1NA-M12-NM0	1NA-M12-NN0	160	SSEPB-M12-XS	80
1NA-M16-NM0	1NA-M16-NN0	800	SSEPB-M16-XS	400
1NA-M20-NM0	1NA-M20-NN0	1800	SSEPB-M20-XS	900
1NA-M25-NM0	1NA-M25-NN0	3000	SSEPB-M25-XS	1500
1NA-M30-NM0	1NA-M30-NN0	3730	SSEPB-M30-XS	1865
1NA-M40-NM0	1NA-M40-NN0	6160	SSEPB-M40-XS	3080

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

Dynamic Load Capacity Matrix (100 km travel)

Linear Guide Assembly Part Number		Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1NA-M08-PM0	1NA-M08-PN0	100	SPTWN-M08-XS	100
1NA-M12-PM0	1NA-M12-PN0	160	SSETWN-M12-XS	160
1NA-M16-PM0	1NA-08-PN0	800	SSETWN-M16-XS	800
1NA-M20-PM0	1NA-12-PN0	1800	SSETWN-M20-XS	1800
1NA-M25-PM0	1NA-16-PN0	3000	SSETWN-M25-XS	3000
1NA-M30-PM0	1NA-20-PN0	3730	SSETWN-M30-XS	3730
1NA-M40-PM0	1NA-24-PN0	6160	SSETWN-M40-XS	6160

Replacement Component Dimensions

Type SPB and SSUPB Pillow Blocks (Dimensions in mm)

Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B7	J	J1	F		Wt. (lb)
										Bolt	Hole	
SPPB-M08-XS	.250	1.19	.81	.437	.19	1.63	1.00	1.31	.75[2]	#6	.16	.10
SSEPB-M12-XS	.375	1.31	.94	.500	.19	1.75	1.12	1.44	.88[2]	#6	.16	.13
SSEPB-M16-XS	.500	1.69	1.25	.687	.25	2.00	1.38	1.69	1.00	#6	.16	.20
SSEPB-M20-XS	.750	2.06	1.75	.937	.31	2.75	1.88	2.38	1.25	#8	.19	.62
SSEPB-M25-XS	1.000	2.81	2.19	1.187	.38	3.25	2.38	2.88	1.75	#10	.22	1.24
SSEPB-M30-XS	1.250	3.63	2.81	1.500	.43	4.00	3.00	3.50	2.00	#10	.22	2.57
SSEPB-M40-XS	1.500	4.00	3.25	1.750	.50	4.75	3.50	4.12	2.50	1/4	.28	3.94

Housing Material: Aluminum Alloy Grey Anodized.
Top plates are sold separately. Please refer to page 256 under Accessories.

Type TWN and SSUTWN Pillow Blocks

Part Number	Nom. Dia.	L2	J3	Wt. (lb)
SPTWN-M08-XS	.25	2.50	2.00	.19
SSETWN-M12-XS	.375	2.75	2.25	.25
SSETWN-M16-XS	.500	3.50	2.50	.40
SSETWN-M20-XS	.750	4.50	3.50	1.24
SSETWN-M25-XS	1.000	6.00	4.50	2.48
SSETWN-M30-XS	1.250	7.50	5.50	5.14
SSETWN-M40-XS	1.500	9.00	6.50	8.08

Housing Material: Aluminum Alloy Black Anodized

Type ASB LinearRace Shaft End Support Block (Dim. in mm)

Part Number	Nom. Dia.	A1	B	B3	H1	H3	L3	N3 Bolt	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

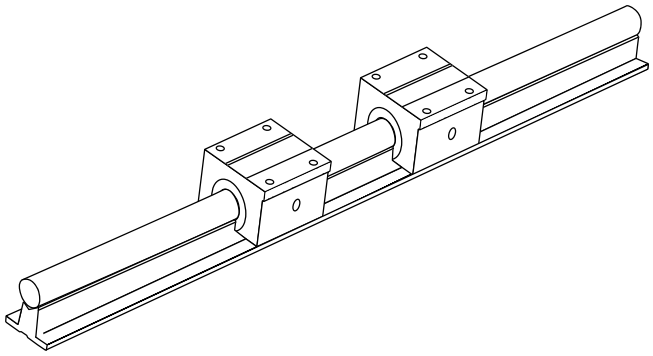
Type SB LinearRace Shaft End Support Block (Dim. in mm)

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

Continuous Support Linear Ball Guides

High speed, smooth operation, easy to install



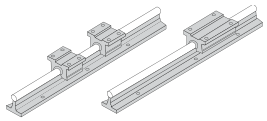
Continuous Support Linear Ball Guides Offer:

- Increased life within the same envelope. RoundRail linear guides feature the new patented Super Smart Ball Bushing Bearings for up to 216X the life or 6X the load capacity of conventional bearings.
- Cost savings: save time and money preparing your mounting surfaces before bolting down RoundRail linear guides
- Superior performance. Continuously supported for maximum (down- & side-) load applications without concerns for shaft deflection
- The RoundRail Advantage. The inherent self-aligning-in-all-directions design of the Super Smart Ball Bushing bearing allows for ultra smooth travel when mounted to wider toleranced prepared surfaces
- Unlimited travel lengths without concerns for machined reference edges or butt joint alignment
- The Super Smart Ball Bushing bearing... the most technologically advanced and most robust linear bearing in the world

RoundRail Linear Guides

Continuous Support 1CA

Fully Supported, Highest Performance, Industry Standard Dimension Inch



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

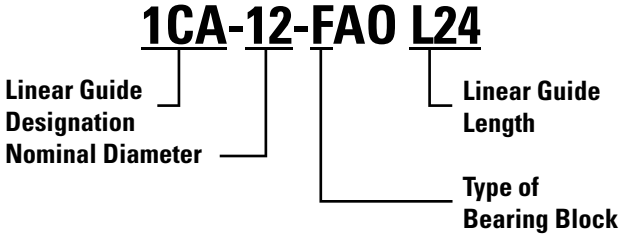
Components

- 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

Specifying this Thomson Linear Guide

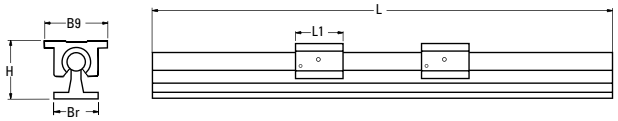
1. Determine the proper Linear Guide for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

Part Numbering System

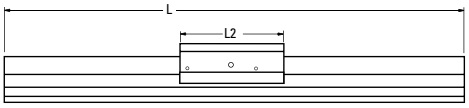


Dimensions (Inch)

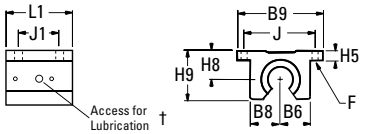
Single Continuously Supported Linear Guide with 2 Pillow Blocks



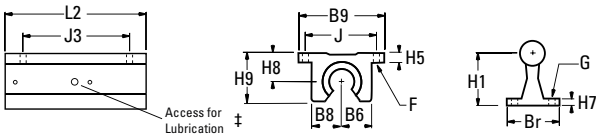
Single Continuously Supported Linear Guide with 1 Twin Pillow Block



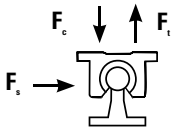
Type SSUPBO Open Type Super Smart and SPB-OPN Open Type Ball Bushing Pillow Blocks



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



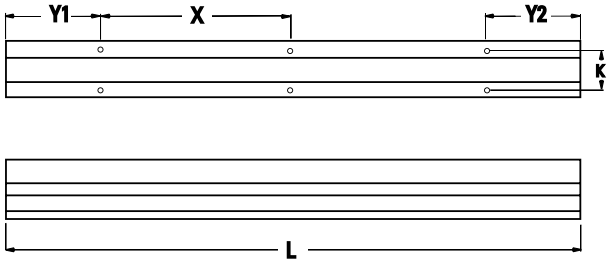
Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	C
F_t	0.5C	0.5C
F_s	C	0.5C

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

Type SRA LinearRace Shaft Support Rail Assembly



‡ Size .500 inch has oil lubricant fitting.
Sizes .625 and above have 1/4-28 access for lubrication.

RoundRail Linear Guides

Continuously Supported Linear Guide 1CA Single with 2 Pillow Blocks (Dimensions in inches)

Part Number	Nominal Diameter	L1	H	Br	B9	Pillow Block	Shaft Support Rail Assembly
1CA-08-FAO	.500	1.50	1.812	1.50	2.00	SPB-8-OPN-XS	SRA-8-XS
1CA-12-FAO	.750	1.88	2.437	1.75	2.75	SSUPBO-12-XS	SRA-12-XS
1CA-16-FAO	1.000	2.63	2.937	2.13	3.25	SSUPBO-16-XS	SRA-16-XS
1CA-20-FAO	1.250	3.38	3.625	2.50	4.00	SSUPBO-20-XS	SRA-20-XS
1CA-24-FAO	1.500	3.75	4.250	3.00	4.75	SSUPBO-24-XS	SRA-24-XS

Continuously Supported Linear Guide 1CA Single with 1 Twin Pillow Block (Dimensions in inches)

Part Number	Nominal Diameter	L2	H	Br	B9	Maximum Stroke Length	Pillow Block	Shaft Support 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 Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1CA-08-FAO	290	SPB-8-OPN-XS	400
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 Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (lb_f)
1CA-08-HAO	290	TWN-8-OPN-XS	800
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

† Super Ball Bushing Bearings are used in .500 inch size pillow blocks.

Replacement Component Dimensions

Type SPB-OPN and SSUPBO Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B8	B6	J	J1	F		Wt. (lb)
											Bolt	Hole	
SPB-8-OPN-XS	.500	1.69	1.25	.687	.25	2.00	.75	.69	1.69	1.00	#6	.16	.20
SSUPBO-12-XS	.750	2.06	1.75	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.62
SSUPBO-16-XS	1.000	2.81	2.19	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.24
SSUPBO-20-XS	1.250	3.63	2.81	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.57
SSUPBO-24-XS	1.500	4.00	3.25	1.750	.50	4.75	1.88	1.75	4.12	2.50	1/4	.28	3.94

Top plates are sold separately. Please refer to page 256 under Accessories for P/N and dimensions.

Type TWN-OPN and SSUTWNO Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L2	J3	Wt. (lb)
TWN-8-OPN-XS	.500	3.50	2.50	.40
SSUTWNO-12-XS	.750	4.50	3.50	1.24
SSUTWNO-16-XS	1.000	6.00	4.50	2.48
SSUTWNO-20-XS	1.250	7.50	5.50	5.14
SSUTWNO-24-XS	1.500	9.00	6.50	8.08

Housing Material: Aluminum Alloy Black Anodized

Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in inches)

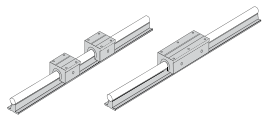
Part Number	Nom. Dia.	H1	H7	Br	K	X	G		Wt. (lb/ft)
							Bolt	Hole	
SRA-8-XS	.500	1.125	.19	1.50	1.00	4	#8	.17	1.26
SRA-12-XS	.750	1.500	.25	1.75	1.25	6	#10	.22	2.50
SRA-16-XS	1.000	1.750	.25	2.13	1.50	6	1/4	.28	4.06
SRA-20-XS	1.250	2.125	.31	2.50	1.88	6	5/16	.34	6.30
SRA-24-XS	1.500	2.500	.38	3.00	2.25	8	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.
Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

RoundRail Linear Guides

Continuous Support 1PA

Fully Supported, Highest Performance, Industry Standard Dimension Metric



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

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.

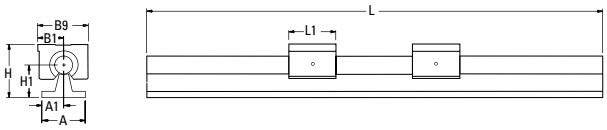
Part Numbering System

1PA-M12-LWO L600

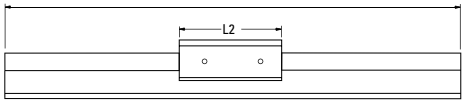
- **1PA** — Linear Guide Designation
- **M12** — Nominal Diameter
- **LWO** — Type of Bearing Block
- **L600** — Linear Guide Length

Dimensions (Inch)

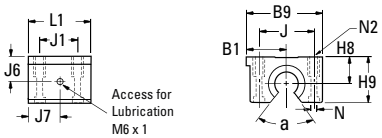
Single Continuously Supported Linear Guide with 2 Pillow Blocks



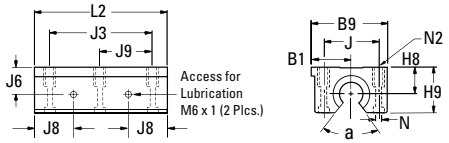
Single Continuously Supported Linear Guide with 1 Twin Pillow Block



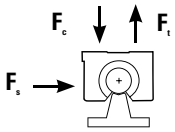
Type SSEPBO Open Type Super Smart Ball Bushing Pillow Blocks



Type SSETWNO Open Type Super Smart Ball Bushing Twin Pillow Blocks



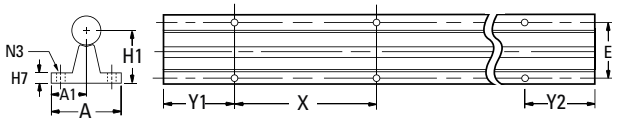
Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	C
F_t	0.5C	0.5C
F_s	C	0.5C

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

Type SRA LinearRace Shaft Support Rail Assembly



RoundRail Linear Guides

Continuously Supported Linear Guide 1PA Single with 2 Pillow Blocks (Dimensions in inches)

Part Number	Nominal Diameter	L1	H	H1	A	A1	B1	B9	Pillow Block	Shaft Support Rail 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 Supported Linear Guide 1PA Single with 1 Twin Pillow Block (Dimensions in inches)

Part Number	Nominal Diameter	L2	H	H1	A	A1	B1	B9	Maximum Stroke Length	Pillow Block	Shaft Support Rail 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 Capacity Matrix (100 km travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (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 Capacity Matrix (100 km travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (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

† Super Plus Ball Bushing Bearings are used in 12 mm size pillow blocks.

Replacement Component Dimensions

Type SSEPBO Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L1	H8	H9	B1	B9	J6	J7	J	J1	N Dia.	N2	a Deg.	Mass (kg)
SPPBO-M12-XS	12	39	18	28	215	43	16,7	19,5	32	23	43	M5	66	0,11
SSEPBO-M16-XS	16	43	22	35	265	53	22,0	21,5	40	26	53	M6	66	0,17
SSEPBO-M20-XS	20	54	25	41	300	60	25,0	27,0	45	32	66	M8	60	0,30
SSEPBO-M25-XS	25	67	30	50	390	78	31,5	33,5	46	40	84	M10	60	0,57
SSEPBO-M30-XS	30	79	35	60	435	87	33,0	39,5	68	45	84	M10	60	0,87
SSEPBO-M40-XS	40	91	45	77	540	108	43,5	45,5	86	58	105	M12	60	1,62

Housing Material: Aluminum Alloy Grey Anodized.
Top plates are sold separately. Please refer to page 256 under Accessories for P/N and dimensions.

Type SSETWNO Pillow Blocks (Dim. in in.)

Part Number	Nom. Dia.	L2	J3	J8	J9	Mass (kg)
SPTWNO-M12-XS	12	76	56	19,5	28	0,22
SSETWNO-M16-XS	16	84	64	21,5	32	0,34
SSETWNO-M20-XS	20	104	76	27,0	38	0,63
SSETWNO-M25-XS	25	130	94	33,6	47	1,18
SSETWNO-M30-XS	30	152	106	39,5	53	1,70
SSETWNO-M40-XS	40	176	124	45,5	62	3,18

Housing Material: Aluminum Alloy Grey Anodized

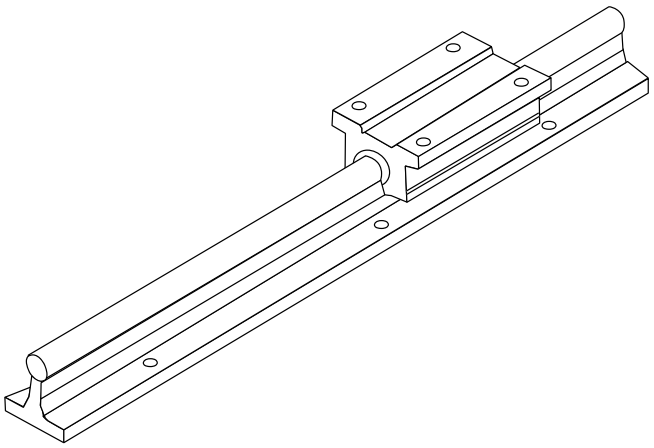
Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in inches)

Part Number	Nom. Dia.	H1	H7	A	A1	E	X	N3 Dia.	Mass (kg/m)
SRA-M12-XS	12	28	5	43	21,5	29	75	4,5	4,1
SRA-M16-XS	16	30	5	48	24,0	33	100	5,5	6,2
SRA-M20-XS	20	38	6	56	28,0	37	100	6,6	9,5
SRA-M25-XS	25	42	6	60	30,0	42	120	6,6	13,7
SRA-M30-XS	30	53	8	74	37,0	51	150	8,6	20,0
SRA-M40-XS	40	60	8	78	39,0	55	200	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.
Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

RoundRail Linear Guides

FluoroNyliner Linear Guides



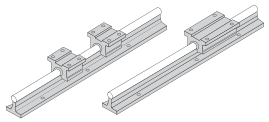
Corrosion resistant, smooth, quiet, industry standard envelope

FluoroNyliner Linear Guides Offer:

- Thomson's new FluoroNyliner Bushing Bearings that are made from the most advanced polymer components to achieve maximum performance levels
- Contamination resistance. The FluoroNyliner Linear Guides are practically immune to adverse environments, such as water wash-down conditions and magnetic interference
- Self-Aligning Pillow Blocks for ease of use
- Increased bearing load capacities (or 'PV' ratings) and obtainable travel life, when used with Thomson stainless steel, 60 Case Linear Race shaft, when compared to competitive assemblies.
- Specification conformance with FDA and non-lubricated applications
- Use in linear and rotary motion applications
- Operates in temperatures from -400 °F (-240 °C) to 550 °F (270 °C)

FluoroNyliner 1VA

Corrosive/Contaminated Environments Inch



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.

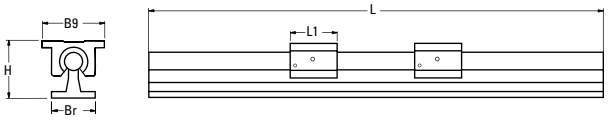
Part Numbering System

1VA-12-FAO L24

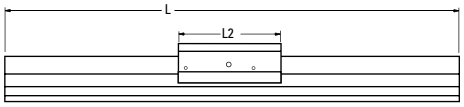
- **1VA-12** — Linear Guide Designation / Nominal Diameter
- **FAO** — Type of Bearing Block
- **L24** — Linear Guide Length

Dimensions (Inch)

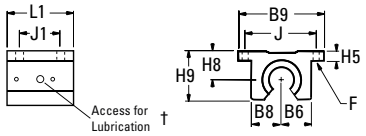
Single Continuously Supported Linear Guide with 2 Pillow Blocks



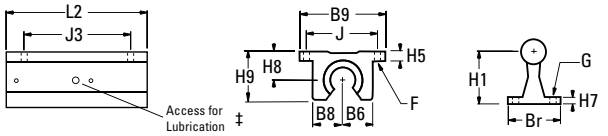
Single Continuously Supported System with 1 Twin Pillow Block



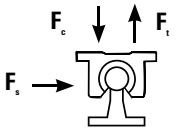
FluoroNyliner Linear Guide Pillow Block Dimensions



FluoroNyliner Linear Guide Twin Pillow Block Dimensions



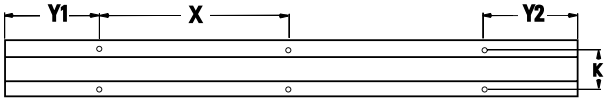
Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	C
F_t	0.5C	0.5C
F_s	C	0.5C

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

Type SRA LinearRace Shaft Support Rail Assembly





RoundRail Linear Guides

FluoroNyliner Linear Guide 1VA Single Continuously Supported with 2 Pillow Blocks (Dimensions in inches)

Part Number	Nominal Diameter	L1	H	Br	B9	Pillow Block	Shaft Support Rail Assembly
1VA-08-FAO	.500	1.50	1.812	1.50	2.00	FNYBUPBO08A-XS	SRA-8-XS-SS
1VA-12-FAO	.750	1.88	2.437	1.75	2.75	FNYBUPBO12A-XS	SRA-12-XS-SS
1VA-16-FAO	1.000	2.63	2.937	2.13	3.25	FNYBUPBO16A-XS	SRA-16-XS-SS
1VA-20-FAO	1.250	3.38	3.625	2.50	4.00	FNYBUPBO20A-XS	SRA-20-XS-SS
1VA-24-FAO	1.500	3.75	4.250	3.00	4.75	FNYBUPBO24A-XS	SRA-24-XS-SS

FluoroNyliner Linear Guide 1VA Single Continuously Supported with 1 Twin Pillow Block (Dimensions in inches)

Part Number	Nominal Diameter	L2	H	Br	B9	Maximum Stroke Length	Pillow Block	Shaft Support 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)	FNYBUTWNO12A-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
Linear 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 Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L1	H9	H8	H5	B9	B8	B7	J	J1	F		Wt. (lb)
											Bolt	Hole	
FNYBUPBO08A-XS	.500	1.69	1.25	.687	.25	2.00	.75	.69	1.69	1.00	#6	.16	.20
FNYBUPBO12A-XS	.750	2.06	1.75	.937	.31	2.75	1.00	.94	2.38	1.25	#8	.19	.51
FNYBUPBO16A-XS	1.000	2.81	2.19	1.187	.38	3.25	1.25	1.19	2.88	1.75	#10	.22	1.03
FNYBUPBO20A-XS	1.250	3.63	2.81	1.500	.43	4.00	1.63	1.50	3.50	2.00	#10	.22	2.15
FNYBUPBO24A-XS	1.500	4.00	3.25	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 Pillow Blocks (Dim. in in.)

Part Number	Nom. Dia.	L2	J3	Wt. (lb)
FNYBUTWNO08A-XS	.500	3.50	2.50	.40
FNYBUTWNO12A-XS	.750	4.50	3.50	1.02
FNYBUTWNO16A-XS	1.000	6.00	4.50	2.06
FNYBUTWNO20A-XS	1.250	7.50	5.50	4.30
FNYBUTWNO24A-XS	1.500	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 Thomson 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.

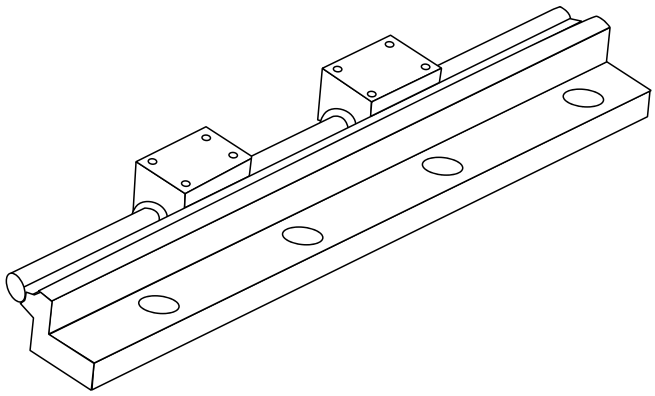
Top plates are sold separately. Please refer to page 256 under accessories for P/N and dimensions.

Type SRA LinearRace Shaft Support Rail Assembly (Dimensions in inches)

Part Number	Nom. Dia.	H1	H7	Br	K	X	G		Wt. (lb/ft)
							Bolt	Hole	
SRA-8-XS	.500	1.125	.19	1.50	1.00	4	#8	.17	1.26
SRA-12-XS	.750	1.500	.25	1.75	1.25	6	#10	.22	2.50
SRA-16-XS	1.000	1.750	.25	2.13	1.50	6	1/4	.28	4.06
SRA-20-XS	1.250	2.125	.31	2.50	1.88	6	5/16	.34	6.30
SRA-24-XS	1.500	2.500	.38	3.00	2.25	8	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 Guide Application Engineering department.
Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

Side Mounted Linear Ball Guides



Low profile, high loads in all directions, easy to install

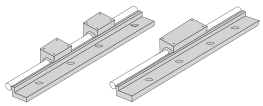
Side Mounted Linear Ball Guides Offer:

- Increased life within the same envelope. RoundRail linear guides feature the new patented Super Smart Ball Bushing Bearings for up to 216X the life or 6X the load capacity of conventional bearings.
- Cost savings: save time and money preparing your mounting surfaces before bolting down RoundRail linear guides
- Slide mounted geometry for increased mounting flexibility
- Superior performance. Continuously supported for maximum (down- & side-) load applications without concerns for shaft deflection
- The RoundRail Advantage. The inherent self-aligning-in-all-directions design of the Super Smart Ball Bushing bearing allows for ultra smooth travel when mounted to wider toleranced prepared surfaces
- Unlimited travel lengths without concerns for machined reference edges or butt joint alignment
- The Super Smart Ball Bushing bearing... the most technologically advanced and most robust linear bearing in the world
- Corrosion resistant versions for maximum performance in harsh environments.

RoundRail Linear Guides

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.

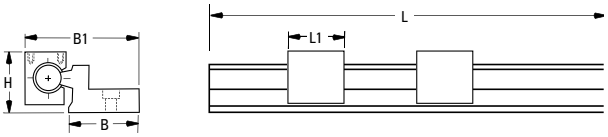
Part Numbering System

1DA-12-J00 L24

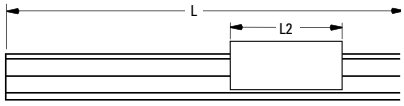
- **1DA** — Linear Guide Designation
- **12** — Nominal Diameter
- **J00** — Type of Bearing Block
- **L24** — Linear Guide Length

Dimensions (Inch)

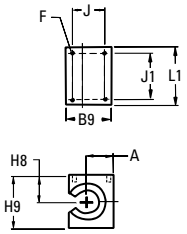
Single Side Mounted Linear Guide with 2 Pillow Blocks



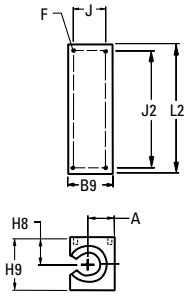
Single Side Mounted Linear Guide with 1 Twin Pillow Block



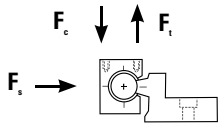
Type SSUPBO-MOD and SPB-OPN-MOD Open Type Pillow Blocks



Type SSUTWNO-MOD and TWN-OPN-MOD Pillow Blocks



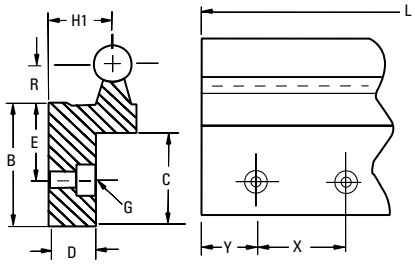
Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	C
F_t	0.5C	0.5C
F_s	C	0.5C

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

Type SSRA Side Mounted LinearRace Shaft Support Rail Assembly



RoundRail Linear Guides

Side Mounted Linear Guide 1DA Single Side Mounted with 2 Pillow Blocks (Dimensions in inches)

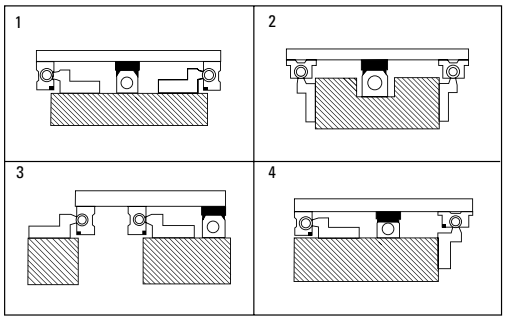
Part Number	Nominal Diameter	H	B	B1	L1	Pillow Block	Shaft Support Rail Assembly
1DA-08-J00	.500	1.562	1.44	2.61	1.50	SPB-8-0PN-MOD	SSRA-8
1DA-12-J00	.750	2.062	1.94	3.55	1.88	SSUPB0-12-MOD	SSRA-12
1DA-16-J00	1.000	2.562	2.44	4.49	2.63	SSUPB0-16-MOD	SSRA-16

Side Mounted Linear Guide 1DA Single Side Mounted with 1 Twin Pillow Block (Dimensions in inches)

Part Number	Nominal Diameter	H	B	B1	L2	Maximum Stroke Length	Pillow Block	Shaft Support Rail Assembly
1DA-08-K00	.50	1.562	1.44	2.61	3.5	L-(3.5)	TWN-8-0PN-MOD	SSRA-8
1DA-12-K00	.75	2.062	1.94	3.55	4.5	L-(4.5)	SSUTWN0-12-MOD	SSRA-12
1DA-16-K00	1.00	2.562	2.44	4.49	6.0	L-(6.0)	SSUTWN0-16-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 Thomson Application Engineering Department.



Pillow blocks shown are the standard SSUPB0 or SPB-0PN style. To order System 1DA with standard pillow blocks, order the Side Mounted Shaft Rail Assembly (SSRA) and the SSUPB0 or SPB-0PN separately.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (N) (Even Distribution)	Pillow Block Part Number	Pillow Block Dynamic Load Capacity (N)
1DA-08-J00	240	SPB-8-0PN-MOD	120
1DA-12-J00	1600	SSUPB0-12-MOD	800
1DA-16-J00	2700	SSUPB0-16-MOD	1350
1DA-08-K00	240	TWN-8-0PN-MOD	240
1DA-12-K00	1600	SSUTWN0-12-MOD	1600
1DA-16-K00	2700	SSUTWN0-16-MOD	2700

† Super Ball Bushing Bearings are used in .500 inch size pillow blocks.

Replacement Component Dimensions

Type SPB-0PN-MOD and SSUPB0-MOD Pillow Block (Dimensions in inches)

Part Number	Nom. Dia.	H8	H9	A	B9	L1	J	J1	F	Wt. (lb)
SPB-8-0PN-MOD	.500	.687	1.44	.67	1.12	1.50	.812	1.250	#8-32	.18
SSUPB0-12-MOD	.750	.937	1.94	.92	1.56	1.88	1.187	1.562	#10-32	.45
SSUPB0-16-MOD	1.000	1.187	2.44	1.17	2.00	2.63	1.438	2.250	1/4-20	.98

Housing Material: Aluminum Alloy Black Anodized

Top plates are sold separately. Please refer to page 256 under accessories for P/N and dimensions.

Type TWN-0PN-MOD and SSUTWN0-MOD Pillow Blocks (Dimensions in inches)

Part Number	Nom. Dia.	L2	J2	Wt. (lb)
TWN-8-0PN-MOD	.500	3.5	3.00	.39
SSUTWN0-12-MOD	.750	4.5	4.00	1.00
SSUTWN0-16-MOD	1.000	6.0	5.25	2.11

Housing Material: Aluminum Alloy Black Anodized

Type SSRA LinearRace Shaft Support Rail Assembly (Dimensions in inches)

Part Number	Nom. Dia.	H1	B	R	E	D	C	X	G		Wt. (lb/ft)
									Bolt	Hole	
SSRA-8-XS	.500	.875	1.44	.500	1.00	.49	1.06	4	1/4	.28	2.05
SSRA-12-XS	.750	1.125	1.94	.688	1.31	.75	1.44	6	5/16	.34	4.00
SSRA-16-XS	1.000	1.375	2.44	.875	1.63	.88	1.81	6	3/8	.41	6.25

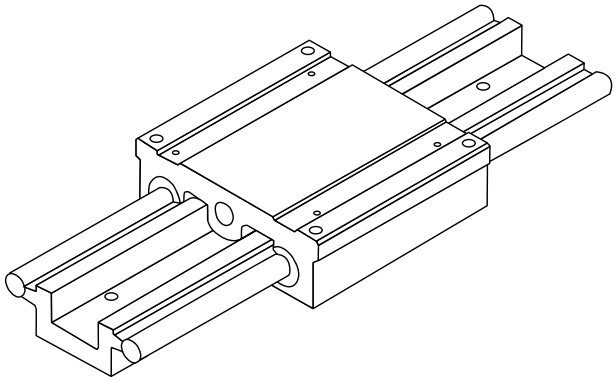
(1) For standard lengths LinearRace Shaft Support Rail Material: Aluminum Black Anodized

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 Thomson Linear Guides Application Engineering department.

Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

RoundRail Linear Guides

Dual Shaft



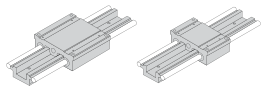
Low profile, high loads in all directions, easy to install

Dual Shafts Offer:

- This performance proven Linear guide has an extremely low profile and features external rails with maximum bearing spacing. This provides the user with high pitch, yaw and roll moment capability. The load capacity is the same when mounted in the inverted position
- Corrosion resistant options are also available for demanding environmental conditions. These include chrome plated or stainless steel shafting and corrosion resistant bearings
- The inherent self aligning design of the Super Smart Ball Bushing bearings allow for more deviation in the flatness of the mounting surface. This can dramatically reduce the installed cost of the Linear Guide
- The base extrusion has a reference edge for registration in your machine. Unlimited travel lengths can be realized by combining base and shaft segments. The shafts and bases are staggered to allow keying of the subsequent stage.

Dual Shaft Rail 2DA

with Integrated Carriage Unpack and Install Inch



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

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.

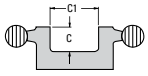
Part Numbering System

2DA-12-00B L24

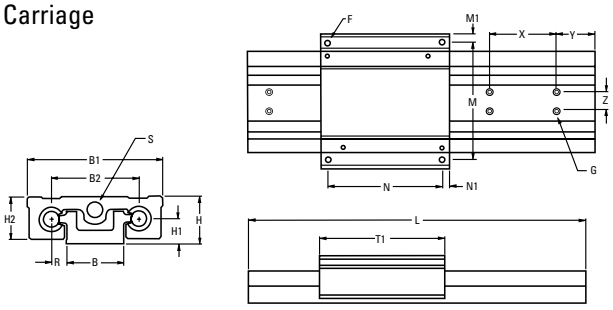
- **2DA** — Linear Guide Designation
- **12** — Nominal Diameter
- **00** — Type of Carriage
- **B** — Width of Carriage: A = Narrow, B = Wide
- **L24** — Linear Guide Length

Dimensions (Inch)

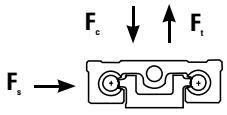
2DA XX 00B
Rail Cross Section



Dual Shaft Rail Linear Guide with Integrated Full Length Carriage



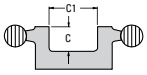
Load Rating and Limit by Direction



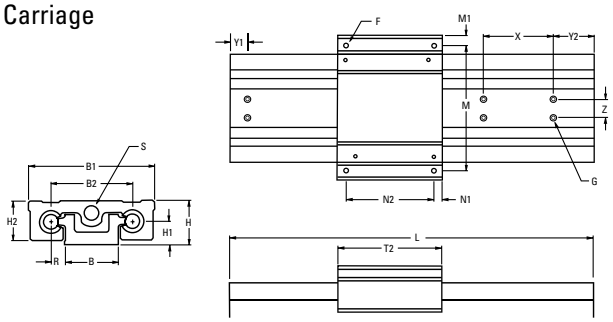
	Dynamic Load Rating	Load Limit
F_c	C	0.5C
F_t	C	0.5C
F_s	0.5C	0.5C

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

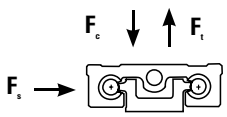
2DA XX 00A
Rail Cross Section



Dual Shaft Rail Linear Guide with Integrated Short Length Carriage



Load Rating and Limit by Direction



	Dynamic Load Rating	Load Limit
F_c	C	0.5C
F_t	C	0.5C
F_s	0.5C	0.5C

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

RoundRail Linear Guides

Dual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in inches)

Part Number	Nominal Diameter	T1	H	H1	H2	B	R	B1	B2	C	C1
2DA-08-00B	.500	4.5	1.625	.875	1.43	2.00	.500	4.6	3.0	.64	1.25
2DA-12-00B	.750	6.0	2.125	1.125	1.93	2.63	.688	6.1	4.0	.75	1.662
2DA-16-00B	1.000	7.5	2.625	1.375	2.44	3.25	.875	7.6	5.0	.99	2.00

Dual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in inches)

Part Number	N	N1	M	M1	X	Z	S As Extruded	F	G		Maximum Stroke Length	Carriage	Dual Shaft Rail Assembly
									Bolt	Hole			
2DA-08-00B	4.00	.25	4.00	.30	4.0	.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	1.0.	.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	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 Thomson Linear Guides Application Engineering department.
Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Dynamic Roll Moment ($in\text{-}lb_f$)
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 Linear Guide 2DA with Integrated Carriage (Dimensions in inches)

Part Number	Nominal Diameter	T2	H	H1	H2	B	R	B1	B2	C	C1
2DA-08-00A	.500	3.5	1.625	.875	1.43	2.00	.500	4.6	3.0	.64	1.25
2DA-12-00A	.750	4.5	2.125	1.125	1.93	2.63	.688	6.1	4.0	.75	1.662
2DA-16-00A	1.000	6.0	2.625	1.375	2.44	3.25	.875	7.6	5.0	.99	2.00

Dual Shaft Rail Linear Guide 2DA with Integrated Carriage (Dimensions in inches)

Part Number	N	N2	M	M1	X	Z	S As Extruded	F	G		Maximum Stroke Length	Carriage	Dual Shaft Rail Assembly
									Bolt	Hole			
2DA-08-00A	.25	3.00	4.00	.30	4.0	.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	1.0.	.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	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 Thomson Linear Guides Application Engineering department.
Y = distance from end of rail to the center of first mounting hole, Y1 = Y2 unless specified.

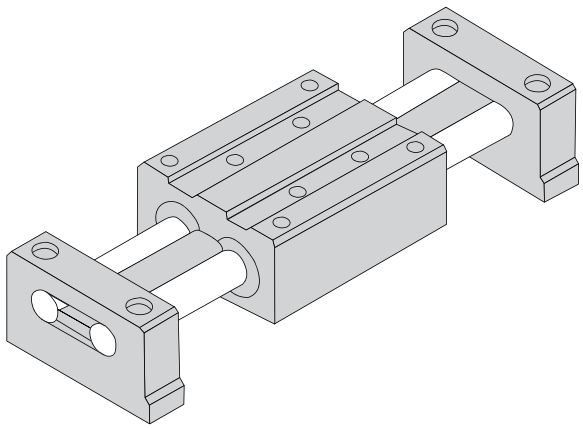
† Super Ball Bushing Bearings are used in 500 inch size carriages.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Dynamic Roll Moment ($in\text{-}lb_f$)
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%.

Twin Shaft Web



High roll moment torque resistance, high rigidity, smooth, easy to install

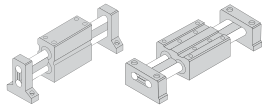
Twin Shaft Web Linear Ball Guides Offer:

- Twin Shaft Web design for high roll moment capacity, high rigidity and ultra smooth travel
- Pre-aligned shafts, end supported for gantry style or 'bridge' applications
- Available in horizontal and vertical orientations for increased mounting flexibility
- End supported for quicker and easy installation
- The Super Smart Ball Bushing bearing... the most technologically advanced and most robust linear bearing in the world
- The RoundRail Advantage. The inherent self-aligning-in-all-directions design of the Super Smart Ball Bushing bearing allows for ultra smooth travel when mounted to wider toleranced prepared surfaces
- Cost savings: save time and money preparing your mounting surfaces before bolting down RoundRail linear guides
- Corrosion resistant versions for maximum performance in harsh environments.

RoundRail Linear Guides

Twin Shaft Web 2CA

with Universal Carriage Unpack and Install Inch



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

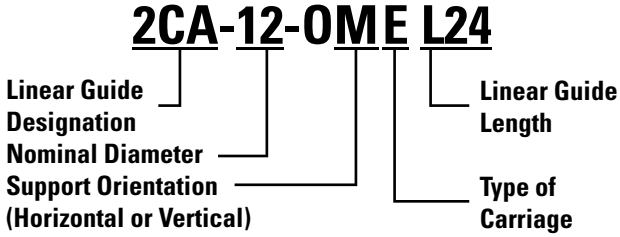
Components

- 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

Specifying this Thomson Linear Guide

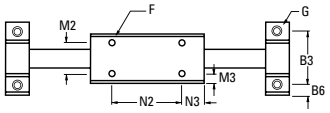
1. Determine the proper Linear Guide for your load and life requirements.
2. Select the part number.
3. Add the letter "L" followed by the overall length in inches, as a suffix to the part number.

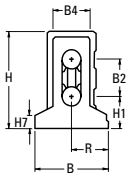
Part Numbering System

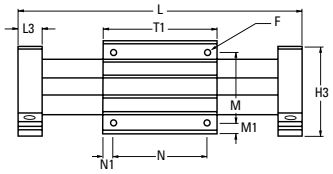


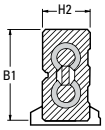
Dimensions (Inch)

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

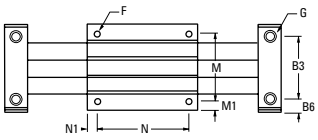


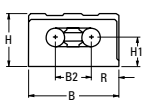


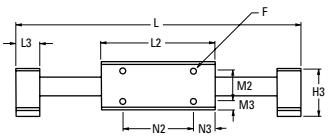


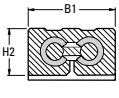


Twin Shaft Web Linear Guide with Universal Carriage (Horizontal Configuration)









RoundRail Linear Guides

Twin Shaft Web Linear Guide End Supported 2CA (Vertical Configuration) (Dimensions in inches)

Part Number	Nominal Diameter	L3	H	H1	H3	H7	B	R	B2	B3	B4	B6	T1	N
2CA-08-OKE	.500	.63	2.750	.875	2.56	.38	2.25	1.125	1.13	1.63	1.12	.31	3.5	3.00
2CA-12-OKE	.750	.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-OKE	1.000	1.00	4.625	1.375	4.50	.75	4.00	2.00	2.00	3.00	2.25	.50	6.0	5.25

Twin Shaft Web Linear Guide End Supported 2CA (Vertical Configuration) (Dimensions in inches)

Part Number	N1	N2	N3	H2	B1	M	M1	M2	M3	F	G		Maximum Stroke Length	Dual Shaft Rail Assembly
											Bolt	Hole		
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-OKE	.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-OKE	.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

Maximum Length is 72 inches.

2CA (Vertical Config.) Carriage and End Support Part No.

Linear Guide Part Number	Carriage Part Number	End Support Part Number
2CA-08-OKE	WC-08	WSB-08-V
2CA-12-OKE	WC-12	WSB-12-V
2CA-16-OKE	WC-16	WSB-16-V

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 (page 270) for Deflection calculations.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Dynamic Load Capacity (lb_f)
2CA-08-OKE	290	165
2CA-12-OKE	1800	1350
2CA-16-OKE	3000	3000

† Super Ball Bushing Bearings are used in .500 inch size carriages.

Twin Shaft Web Linear Guide End Supported 2CA (Horizontal Configuration) (Dimensions in inches)

Part Number	Nominal Diameter	L3	H	H1	H3	H7	B	R	B2	B3	B4	B6	T1	N
2CA-08-OME	.500	.63	2.750	.875	1.60	.38	2.25	1.125	1.13	1.63	1.12	.31	3.5	3.00
2CA-12-OME	.750	.75	3.625	1.125	2.00	.56	3.00	1.500	1.50	2.25	1.63	.38	4.5	4.00
2CA-16-OME	1.000	1.00	4.625	1.375	2.50	.75	4.00	2.00	2.00	3.00	2.25	.50	6.0	5.25

Twin Shaft Web Linear Guide End Supported 2CA (Horizontal Configuration) (Dimensions in inches)

Part Number	N1	N2	N3	H2	B1	M	M1	M2	M3	F	G		Maximum StrOME Length	Dual Shaft Rail Assembly
											Bolt	Hole		
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

Maximum Length is 72 inches.

2CA (Horizontal Config.) Carriage and End Support Part No.

Linear Guide Part Number	Carriage Part Number	End Support 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

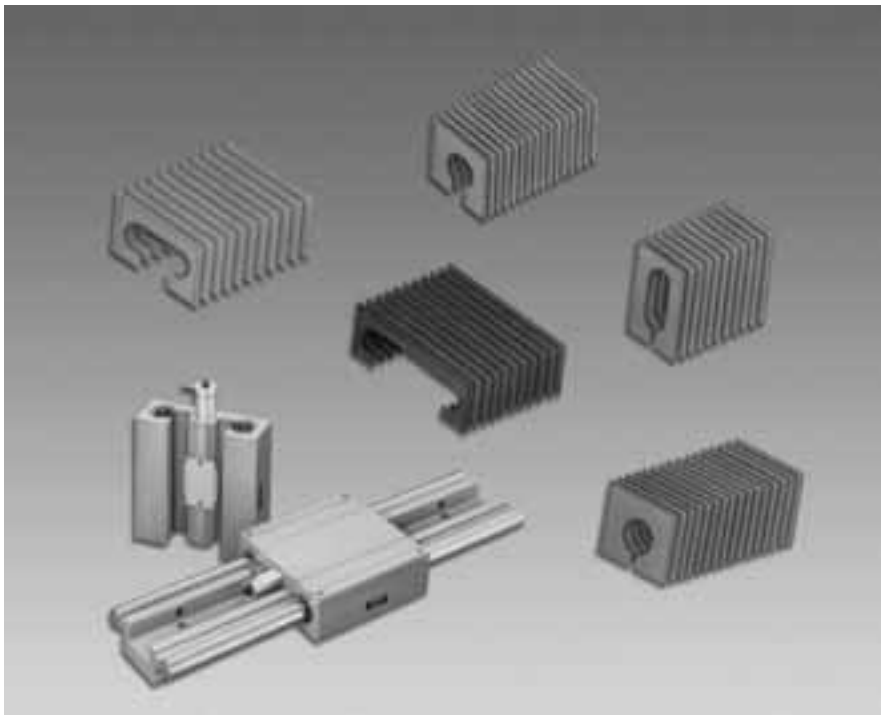
Shaft Deflection Note:
Load limit may be below the dynamic load rating due to shaft deflection.
Bearings can accommodate up to 1/2° deflection.
See Engineering section (page 270) for Deflection calculations.

Dynamic Load Capacity Matrix (4 million inches travel)

Linear Guide Assembly Part Number	Dynamic Load Capacity (lb_f) (Even Distribution)	Pillow Block Dynamic Load Capacity (lb_f)
2CA-08-OME	290	165
2CA-12-OME	1800	1350
2CA-16-OME	3000	3000

† Super Ball Bushing Bearings are used in .500 inch size carriages.

Accessories



We offer a variety of accessories for the Thomson line of RoundRail Linear Guides.

* Protective bellows are available on select models for applications where protection of the round rail guides and carriage bearings are required within harsh or dirty operating environments.

* Some linear guide models are available with manually operated locking brakes for vertical applications and operations requiring unlimited carriage position alignment in the available range of stroke.

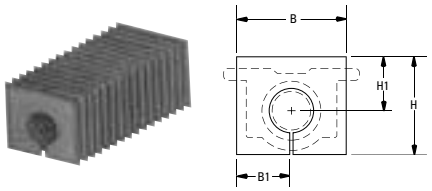
* We encourage you to inquire about linear guide accessories not shown here or any custom application needs which you may have.

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

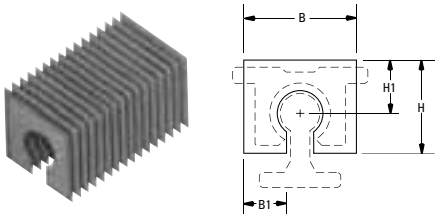
BEL-1B† (For 1BA) Moveable Protective Bellows (Dimensions in inches)



Part Number	Nominal Shaft Diameter	H	H1	B	CR
BEL-1B-04	1/4	1.187	.906	1.182	.163
BEL-1B-06	3/8	1.312	.968	1.937	.108
BEL-1B-08	1/2	1.687	1.156	2.062	.160
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	1 1/2	3.062	1.531	3.125	.108

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

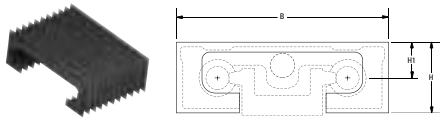
BEL-1C† (For 1CA) Moveable Protective Bellows (Dimensions in inches)



Part Number	Nominal Shaft Diameter	H	H1	B	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	1 1/2	3.125	1.531	3.125	.088

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

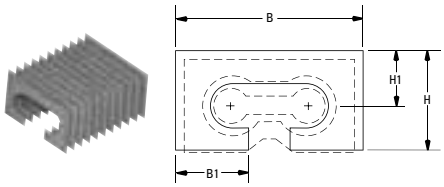
BEL-2D (For QuickSlide System 2DA) Dual Shaft Rail Bellows (Dimensions in inches)



Part Number	Nominal Shaft Diameter	H	H1	B
BEL-2DA-08	1/2	1.50	.85	4.60
BEL-2DB-08	1/2	1.89	1.34	5.13
BEL-2D-12	3/4	2.406	1.437	6.00
BEL-2D-16	1	2.875	1.687	7.50

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.

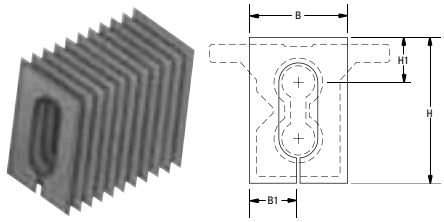
BEL-2C-H (For Horizontal Twin Shaft Web QuickSlide System 2CA) Moveable Protective Bellows (Dimensions in inches)



Part Number	Nominal Shaft Diameter	H	H1	B	CR
BEL-2C-08-H	1/2	1.688	1.031	3.250	.108
BEL-2C-12-H	3/4	2.062	1.156	3.812	.108
BEL-2C-16-H	1	2.437	1.281	4.62	.108

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

BEL-2C-V (For Vertical Twin Shaft Web QuickSlide System 2CA) Dual Shaft Rail Bellows (Dim. in in.)



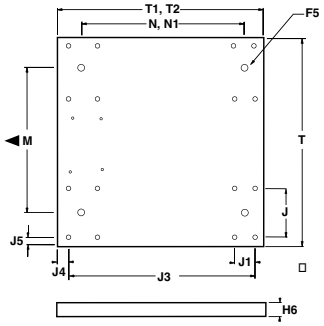
Part Number	Nominal Shaft Diameter	H	H1	B	CR
BEL-2C-08-V	1/2	2.750	1.000	2.125	.163
BEL-2C-12-V	3/4	3.750	1.125	2.375	.163
BEL-2C-16-V	1	4.375	1.250	2.625	.108

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

Accessories

Table Tops

Carriage Top Plates for Linear Guides



1BA Mounting Table Top [1] (Two mounting holes as shown in view A-A for sizes .250 and .375. Dim. in inches)

Nominal	All Table Tops					Table Top Size B					Table Top Size A				
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1
.250	4.0	2.25	1.31	.250	#8-32	4.0	.75 (2)	.22	.22	3.50	2.50	2.00	.25	.22	2.0
.375	4.5	2.50	1.44	.250	#10-32	4.5	.88 (2)	.22	.28	3.75	2.75	2.25	.25	.28	2.0
.500	5.5	3.25	1.69	.375	1/4-20	5.5	1.00	.34	.28	4.50	3.50	2.50	.50	.31	2.5
.750	7.5	4.50	2.38	.500	5/16-18	7.5	1.25	.41	.31	6.00	4.50	3.50	.50	.31	3.0
1.000	9.0	5.50	2.88	.500	3/8-16	9.0	1.75	.53	.31	7.00	6.00	4.50	.75	.31	4.0
1.250	11.0	6.75	3.50	.750	1/2-13	11.0	2.00	.82	.38	8.50	7.50	5.50	1.00	.38	5.0
1.500	13.0	8.00	4.12	.750	1/2-13	13.0	2.50	.75	.44	10.00	9.00	6.50	1.25	.44	6.0

1NA Mounting Table Top [2] (Custom mounting hole. Dimensions in mm)

Nominal	All Table Tops					Table Top Size B					Table Top Size A					
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	J9	N1
1NC-M08	85	50	25	10	M6	85	20	6,0	5,0	50	62	50	6	5,0	25	35
1NC-M12	100	55	32	10	M6	100	23	8,0	6,5	55	76	56	10	6,5	28	40
1NC-M16	125	70	40	13	M6	125	26	10,0	7,5	70	84	64	10	7,5	32	45
1NC-M20	175	110	45	16	M8	175	32	11,0	10,0	110	104	76	14	10,0	38	55
1NC-M25	225	140	60	20	M8	225	40	13,5	12,5	140	130	94	18	12,5	47	65
1NC-M30	275	180	68	20	M8	275	45	17,0	13,5	180	152	106	23	13,5	53	75
1NC-M40	325	210	86	25	M10	325	58	16,5	14,5	210	176	124	26	14,5	62	85

1CA Mounting Table Top [1] (Dimensions in inches)

Nominal	All Table Tops					Table Top Size B					Table Top Size A				
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1
.50	5.5	3.25	1.69	.375	1/4-20	5.5	1.00	.34	.28	4.5	3.5	2.5	.50	.31	2.5
.75	7.5	4.50	2.38	.500	5/16-18	7.5	1.25	.41	.31	6.0	4.5	3.5	.50	.31	3.0
1.00	9.0	5.50	2.88	.500	3/8-16	9.0	1.75	.53	.31	7.0	6.0	4.5	.75	.31	4.0
1.25	11.0	6.75	3.50	.750	1/2-13	11.0	2.00	.82	.38	8.5	7.5	5.5	1.00	.38	5.0
1.50	13.0	8.00	4.12	.750	1/2-13	13.0	2.50	.75	.44	10.0	9.0	6.5	1.25	.44	6.0

1PA Mounting Table Top [2] (Dimensions in mm)

Nominal	All Table Tops					Table Top Size B					Table Top Size A					
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	J9	N1
PC-M12	100	55	32	10	M6	100	23	8,0	6,5	55	76	56	10	6,5	28	40
1PC-M16	125	70	40	13	M6	125	26	10,0	7,5	70	84	64	10	7,5	32	45
1PC-M20	175	110	45	16	M8	175	32	11,0	10,0	110	104	76	14	10,0	38	55
1PC-M25	225	140	60	20	M8	225	40	13,5	12,5	140	130	94	18	12,5	47	65
1PC-M30	275	180	68	20	M8	275	45	17,0	13,5	180	152	106	23	13,5	53	75
1PC-M40	325	210	86	25	M10	325	58	16,5	14,5	210	176	124	26	14,5	62	85

1VA Mounting Table Top [1] (2 mounting holes as shown in view A-A for size .375. Dimensions in inches)

Nominal	All Table Tops					Table Top Size B					Table Top Size A				
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1
.375	4.5	2.50	1.44	.250	#10-32	4.5	.88 (2)	.22	.28	3.75	2.75	2.25	.25	.28	2.0
.500	5.5	3.25	1.69	.375	1/4-20	5.5	1.00	.34	.28	4.50	3.50	2.50	.50	.31	2.5
.625	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
.750	7.5	4.50	2.38	.500	5/16-18	7.5	1.25	.41	.31	6.00	4.50	3.50	.50	.31	3.0
1.000	9.0	5.50	2.88	.500	3/8-16	9.0	1.75	.53	.31	7.00	6.00	4.50	.75	.31	4.0
1.250	11.0	6.75	3.50	.750	1/2-13	11.0	2.00	.82	.38	8.50	7.50	5.50	1.00	.38	5.0
1.500	13.0	8.00	4.12	.750	1/2-13	13.0	2.50	.75	.44	10.00	9.00	6.50	1.25	.44	6.0

1DA Mounting Table Top (Dimensions in inches)

Nominal	All Table Tops					Table Top Size D					Table Top Size C				
Diameter	T	M	J	H6	F5	T1	J1	J4	J5	N	T2	J3	J4	J5	N1 [3]
.5	7.25	4.0	.91	.50	1/4-20	5.5	1.25	.25	.28	2.63	3.5	3.00	.25	.28	.75
.75	9.75	6.0	1.19	.50	5/16-18	7.5	1.58	.25	.38	3.50	4.5	4.00	.25	.38	1.00
1.00	12.00	6.0	1.44	.50	3/8-16	9.0	2.25	.34	.40	4.38	6.0	5.25	.38	.40	1.25

(1) Carriage material: Aluminum Alloy Black Anodized
(2) Carriage material: Aluminum Alloy Grey Anodized
(3) Mounting hole spacing facilitates attachment of Dual Shaft Rail 2DA Linear Guide in an X-Y orientation.

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