4.10 Thomson Shafting (continued)

4.10.2 ULTRA LIGHT ALUMINUM LINEARRACE® SHAFTING



Industries it caters to

- Tyre industry
- Polyfilm industry
- Packaging industry

Selection parameters

Parameters	Min	Max
Diameter(inch)	1/4 inch	1 inch
Diameter(mm)	-	+/- 1/32

Thomson Ultra Light Aluminum LinearRace shafting is a lightweight alterative to standard Thomson 60 Case® in bush bearing applications. It is 65% lighter, the Ultra Light aluminum shafting also offers superior corrosion resistance for washdown and submerged environments - as compared to most steel shafting that corrodes over time. Being a non-magnetic material, aluminum shafting is ideal for medical imaging applications.

4.10.3 THOMSON SHAFT SUPPORT RAILS



Industries it caters to

- Tyre industry
- Polyfilm industry
- Packaging industry

Selection parameters

Parameters	Min	Max
Diameter(inch)	0.25 inch	3 inch
Diameter(mm)	12 mm	40 mm

Support rails are used for continuous shafting support and can be mounted horizontally or vertically. Available in different types and sizes. Ypu can specify the required length to make it as long as yopu need!

4.10.4 LINEARRACE® SHAFT RAIL ASSEMBLIES



Industries it caters to

- Tyre industry
- Polyfilm industry
- Packaging industry

Selection parameters

Parameters	Min	Max
Diameter(inch)	0.25 inch	3 inch
Diameter(mm)	12 mm	40 mm

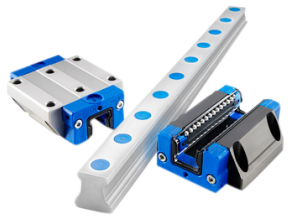
Support rails are combined with shaft , used for continuous shafting support and can be mounted horizontally or vertically. Available in different types and sizes. Ypu can specify the required length to make it as long as yopu need!

4.11 Thomson Profile Rail and Block



4.11 Thomson Profile Rail and Block (continued)

4.11.1 500 SERIES BALL LINEAR GUIDES



The ball rails are available as per series 500 with various preload option and standard rail length upto 6 m. We can increase the length further by "butting" it

Selection parameters

Parameters	Min	Max
Rail width	15 mm	65 mm
Dynamic Load	-	2950001 N
Rating	-	20913 Nm
Static roll	-	17931 Nm
Static pitch	-	17931 Nm

4.11.2 500 SERIES ROLLER LINEAR GUIDES



Thomson roller rail and carriage , series 500 are available , with various preload option and standard rail length upto 6 m. We can increase the length further by "butting" it . Series 500

Selection parameters

Parameters	Min	Max
Rail width	15 mm	65 mm
Dynamic Load	-	2950001 N
Rating	-	20913 Nm
Static roll	-	17931 Nm
Static pitch	-	17931 Nm

4.11.3 400 SERIES PROFILE RAIL LINEAR GUIDES



These are transport grade LM rails typically used in packaging machines, printing machines, general purpose applications. Series 400

Selection parameters

Parameters	Min	Max
Rail width	15 mm	55 mm
Dynamic Load	-	125168 N
Rating	-	6285 Nm
Static roll	-	6463 Nm
Static pitch	-	6463 Nm

4.11.4 ACCUMINI LINEAR GUIDES

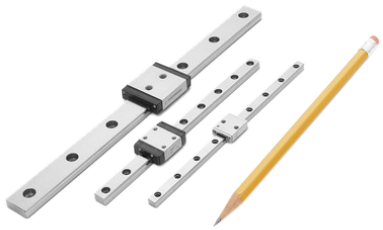


These are classic Thomson LM rails used in various applications

Selection parameters

Parameters	Min	Max
Rail width	10 mm	20 mm
Dynamic Load Rating	-	11871 N
Static roll	-	236 Nm
Static pitch	-	141 Nm
Static yaw	-	141 Nm

4.11.5 MICROGUIDE® LINEAR GUIDES



These are miniature rails and carriages used in medical/ semicon applications

Selection parameters

Parameters	Min	Max
Rail width	7 mm	15 mm
Dynamic Load Rating	-	5287 N
Static roll	-	138 Nm
Static pitch	-	36 Nm
Static yaw	-	39 Nm

4.11 Thomson Profile Rail and Block (continued)

4.11.6 MICROGUIDE® LINEAR GUIDES

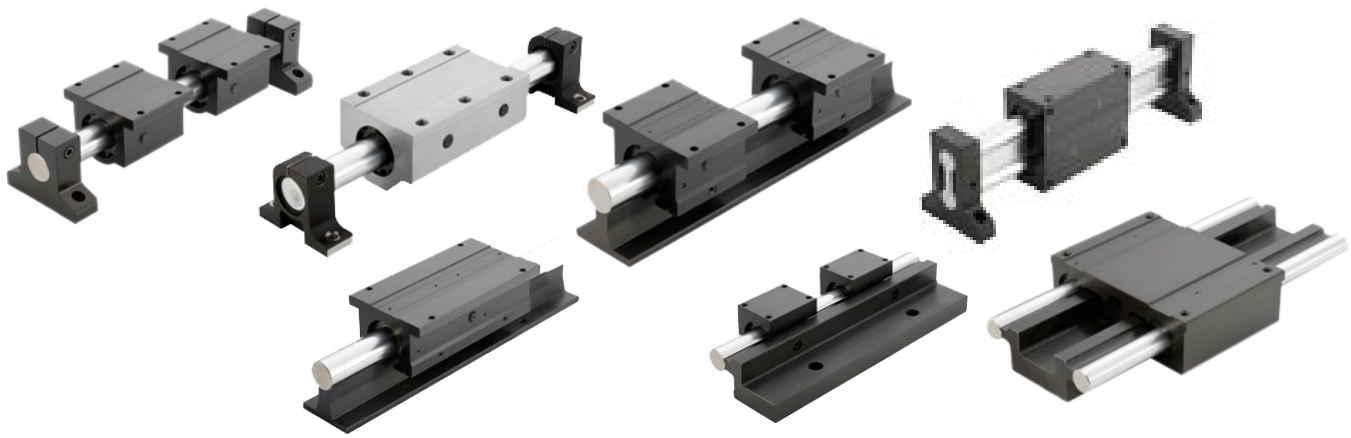


Selection parameters

Parameters	Min	Max
Rail width	20 mm	35 mm
Rail length	-	3000 mm
Dynamic Load Rating	9000 N	25000 N
Static load rating	11000 N	28000 N

Thomson's T-Series is a lightweight, flexible alternative to all-steel profile rails. This is made from aircraft aluminum alloy with hardened steel load bearing plates and ball paths.It is an ideal choice for applications requiring reduced weight inertia. This aluminum guidance system uses hardened steel inserts in carriages and rails . It gives a low-weight solution for critical, high performance applications.

4.12 Thomson Roundrail Guide System



4.12.1 1BX END SUPPORT ROUND-RAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	0.25 inch	1.5 inch
Load Capacity	-	27413 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is shaft with end support and Super Smart bearings mounted on it

4.12 Thomson Roundrail Guide System (continue)

4.12.2 1NX END SUPPORT ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	8 mm	40 mm
Load Capacity	-	27413 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is shaft with end support and Super Smart bearings mounted on it

4.12.3 1CX CONTINUOUS SUPPORT ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	0.50 inch	1.5 inch
Load Capacity	-	27413 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is shaft support with Super smart Open type bearing mounted on it, inch series.

4.12.4 1PX CONTINUOUS SUPPORT ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	12 mm	40 mm
Load Capacity	-	27401 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is shaft support with Super smart Open type bearing mounted on it, metric series.

4.12 Thomson Roundrail Guide System (continue)

4.12.5 1VX FLUORONYLINER® ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	0.50 inch	1.5 inch
Load Capacity	-	63301 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is combo of Fluoro Nyliner bearing and case 60 shaft with support

4.12.6 1DX CONTINUOUS SUPPORT ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	0.50 inch	1 inch
Load Capacity	-	2701 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is combo of Thomson Linear bearing and case 60 shaft with support

4.12.7 2DA DUAL SHAFT ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

Parameters	Min	Max
Shaft diameter	0.50 inch	1 inch
Load Capacity	-	24031 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is combo of Thomson Linear bearing and case 60 shaft with support

4.12 Thomson Roundrail Guide System (continue)

4.12.8 2CA TWIN SHAFT WEB ROUNDRAIL LINEAR GUIDE SYSTEM



Selection parameters

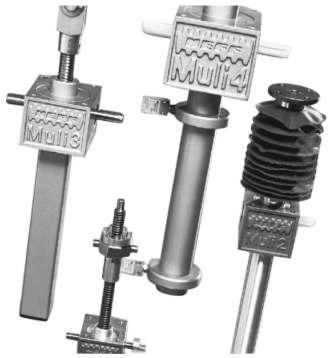
Parameters	Min	Max
Shaft diameter	0.50 inch	1 inch
Load Capacity	-	13351 N

Industries it caters to

- Material Handling Equipment Manufacturer
- Aerospace and Defence
- Machine Tool Manufacturer
- Clean energy
- Packaging Equipment Manufacturer

It is combo of Thomson Super smart Linear bearing and case 60 shaft with end support

4.13 Thomson Worm Gear Screw Jacks



Selection parameters

Parameters	Min	Max
Maximum Lifting Capacity	5 KN	500 KN
Screw Diameter and Pitch	18 x 4 (mm)	120 x
Gear Ratio High	4:1	14(mm)
Gear Ratio Low	16:1	14:1
Idling Torque Ratio High	0.04 Nm	56:1
Idling Torque Ratio Low	0.03 Nm	1.98 Nm

Industries it caters to

- Solar and Wind energy

Product application

- Scissor-lift system
- Lifting device for an automatic
- bar-machining installation
- Surveying axles for rod locomotives
- Hood lifting and parking brakes-wind

Thomson makes the Muli and Jumbo screw jacks in Germany. Max load capacity 50 ton per screw jack and stroke 5 m is possible. There is trapezoidal screw or ball screw design available. Motor is in customer scope.