

# Compact Linear Systems

Modular and Comprehensive Solutions for Space-Conscious Applications



# Let's Build Your Ideal Linear Solution

Specifying multiple components for a linear motion system design can sometimes come with obstacles – delays, misapplications, additional costs and a general uncertainty about your selections just to name a few. Take the guesswork out of this process with Thomson compact linear systems. You'll be able to work closely with our experts to mix and match our trusted components for a tailor-fit solution.





### **Modular To Match Your Needs**

With our compact linear systems, there is no "one size fits all" model. Your application requirements will determine the selection and sizing of components that go into configuring your ideal solution.

- Choose from our wide standard offering of lead screws, linear bearings, guides and more.
- If one of our three standard architectures (see next page) don't meet your design specifications, we can work with you on a completely "from scratch" system.
- Mounting blocks can be machined to virtually any shape or size.

### **Consult With Us On Your Design**

No matter how simple or complex your system requirements, you can take advantage of a virtual design consultation with a Thomson application engineer. It's like having a linear motion expert by your side as you build your solution.

- Our application engineers are familiar with working in a 3D CAD environment and bring decades of expertise to your design project.
- Your compact linear system project isn't considered complete until you are 100% satisfied.

### **Shorten Your Design Cycle**

With our experts' knowledge of Thomson components and a virtual design consultation focused on getting your compact linear system right the first time, you can rest easy knowing your project's timeline will remain on track.

- Systems can be produced and delivered quickly due to the automation of back-end modularity processes (populating drawings, computing machining requirements, etc.).
- Tailor your compact linear system up front with attachments and mounting holes to integrate into your existing machine design.
- A 3D model of your system is made available to you in real time or typically within one business day.

# Standard Configuration Options

After decades of working closely with customers and learning which solutions best meet their application needs, we've utilized our knowledge to configure three linear system options to cover most design requirements.

Narrow/Vertical Configuration (CLSV)

Achieve a smaller footprint by vertically stacking the screw and profile rail bearing.

## Wide/Horizontal Configuration (CLSH) Achieve a shorter system height by horizontally

arranging the lead screw and profile rail bearing.



A.Thomson lead screw and motor (MLS) B. Thomson profile rail and carriage C. Thomson anti-backlash nut.



- A.Thomson lead screw and motor (MLS)
- B. Thomson profile rail and carriage
- C. Thomson anti-backlash nut.

## Round Rail Configuration (CLSR)

Achieve a cost-effective solution capable of withstanding high moment loading by using a dual round rail guidance system.



A.Thomson lead screw and motor (MLS) B. Thomson 60 Case® round rail and linear bearings C. Thomson anti-backlash nut.

## Linear System Design Tips

Consider the environmental conditions under which the system will operate, including temperatures, dust and dirt levels, chemical exposure, washdown processes, vibration and shock load, and radiation.

When defining the direction and magnitude of your load, the system orientation can be important. With a horizontal orientation, the drive load is equal to the payload weight times the frictional coefficient, while with a vertical orientation, the drive load is equal to the weight.

For applications that require accurate positioning, the mounting surface of the rail can be machined.

Lead screw drives, which are used in low to medium duty cycle positioning applications, operate at low noise levels and provide excellent repeatability of 0.005 mm

Purchasing a configured linear motion system can typically reduce engineering time and assembly cost by 90% or more, while providing a 20-30% cost savings in material.

# Linear Motion Solutions Your Way

With more than 75 years of experience in solving linear motion challenges, Thomson engineers understand that not every design or application is straightforward. Considerations such as spatial requirements, harsh environments or conditions, and heavy or unbalanced loads can significantly affect component selection and sizing. Our engineers also appreciate that design engineers often have to work on tight timelines. All of these factors were top of mind when developing Thomson compact linear systems.



## Compact Linear System Components

## Why a Profile Rail System?

Also known as "square" rail, this technology has a higher load capacity and much tighter accuracy than round rail. Its compactness can help reduce the overall size of the system, but higher preloads can increase in drag. Profile rail's unforgiving design can either benefit or complicate your design. For instance, the mounting and installation process can be a challenge if poor parallelism is a factor.





Given our collaborative and thorough approach to helping you reach your ideal compact linear system, you might assume this level of customer service comes at a premium. However, you'll be pleased to know that these configurable systems have been created to maximize efficiencies in not only time and accuracy but cost as well. You won't need to waste time listening to sales pitches. Thomson application engineers' only concern is solving your design challenges with the ideal compact linear system.

In building a Thomson compact linear system, you can configure a unit or combination of units from a wide variety of components based on your specific application requirements.



### Why a Round Rail System?

While this technology has a lower load capacity and looser accuracy, it provides a smooth and low drag platform. The only option for end-supported applications, round rail is self-aligning and forgiving of issues that arise from poor parallelism or variation in rail height for systems utilizing multiple rails. Its simplistic profile boasts highly effective sealing and a natural contamination resilience.





# Design Your Compact Linear System in Four Easy Steps

Whether your application requirements lead you to choosing a standard or tailor-made Thomson compact linear system, our engineers are ready to work alongside you to discover your ideal solution. Here's how it works:





## OR

Use our online product selector tool to narrow your choices from our large selection of predesigned linear motion systems.



## Your compact linear system solution is only minutes away

Following months of development, the compact linear system online selector tool is ready to simplify your search and selection process, and help you quickly identify the right solution for your application.

- Access new, verified 3D models, catalog links and product details.
- Visual selection process immediately narrows your compact linear system search.
- Up-front lead times and prices are listed with the option to purchase.
- Real-time adjustments per your defined filter parameters.
- "Recommended Products" are provided based on the applications expertise of Thomson engineers.

## **Application Examples**

Thomson compact linear systems are ideal for applications requiring high-accuracy linear axes in confined spaces, such as 3D printers, semiconductor manufacturing, microscope stage positioners and many other medical devices. Below are just a few examples.



## Key Markets



## **Fluid Pumps**

Compact linear systems can increase pump pressure, reduce equipment footprint and more accurately disperse fluid.



SECURITY - MILITARY







## **Technical Specifications**



\*Longer strokes are available with lower load capacities - Please contact Thomson

\*\*The dynamic load and moment ratings are based upon 127 km travel life

# Ordering Key

Compact Linear Systems																			
1	2	3	4		5	6	7	8	9		10	11	12	13	14	15	16	17	18
CLSV	14	Α	13	-	31	0500	S	06000	Ν	-	X	MT	2	Ρ	09	Α	0	XX	
<b>1.</b> Ser CLSV = CLSV = CLSR = only) CLSR = <b>2.</b> Mo <b>3.</b> Mo A = Sii B = Dc <b>4.</b> Mo OB = 0 <b>10</b> = 1 <b>13</b> = 1 <b>13</b> = 1 <b>13</b> = 1 <b>13</b> = 3 <b>39</b> = 3 <b>39</b> = 3 <b>5.</b> Scr <b>31</b> = 0 <b>6.</b> Linu OD50 = OD63 = OD79 = OD60 = OD75 = OD60 = OD75 = OD60 = OD75 = OD75 = OD750 =	ies = Vertica = Horizor = Roundf tor size EMA 14 EMA 17 EMA 23 tor stac ngle uble tor curr 8 amps 0 amps 5 amps 9 amps 0 amps 9 amps 9 amps 0 amps 9 amps 9 amps 0 attravi 0.050 in 0.025 in 0.125 in 0.125 in 0.210 ir 0.200 ir 0.200 ir 0.250 ir 0.250 ir 1.000 ir 0.375 ir 0.250 ir 0.375 ir 0.250 ir 0.	I Architental Arch	cture itecture ail size 9, <b>ng (in 0.</b> <b>M08</b> = 8 M10 = 1 020 = 2. 030 = 3. 040 = 4. 050 = 5. 060 = 6. 080 = 8. 100 = 11 120 = 12 200 = 20	(Profil 12 or 1 amp 3.0 mn 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm	e rail siz Ily) n m	e 15F	7. A $S = P = P$ P = 1 8. S 060011500 1500 sele 9. L1 $N = T = 1$ 10. 1 $X = L = L$ R = 11. MT XF = nut1 12. 1 $2 = 3 = 1$ and	ccuracy gr Standard 0.1 Precision 0.0 troke lengt 00 = 6 in 00 = 150 mn cted) ead screw None PTFE Motor/Rail For CLSV an Left (CLSH 0 Right (CLSH 0 Right (CLSH 0 Triangular 1 Triangular 1 0.3125 in an 0.3125 in an 10 mm scre	rade 210 in/f 203 in/fit th coatin Coatin Orient d CLSR 2019) Only) Only) Dount (M Flange, - d 8 mm ws for 1	t (250 t (125 <b>g</b> ation Anti-b screw screv MT an	µm/300 µm/300 c diame n n ies nut acklash vs for N vs for X d XF nu	) mm) ) mm) eter is h (XC Seri 1T nut F nut, 0.3 ts	ies 875 in	<b>13.</b> L P = P R = F <b>14.</b> L 09 = 12 = 15. E A = S S = S C = C D = S 08 b F = 4 size <b>16.</b> L 0 = N *Lim fering Thon <b>17.</b> E XX = * A vail one t <b>18.</b> C (blan 001-S	inear Be rofile Rai loundrail inear Be Profile Ra Profile Ra Profile Ra Round Ra Round Ra Round Ra Bearing I Corrosion Super Sm Jorrosion Super Sc Jorrosion Super Sc Jorrosion	earing T I (CLSV a (CLSR or earing S ail, Size 9 ail,	ype and CLSF nly) Sizes 9 (NEMA 12 (NEM. 15 (CLSR on (CLSR on (CLSR on t (CLSR or rosion re R 08 bear t (CLSR or rosion re Rail <sup>(2),(3)</sup> ( bt yet a s vided - Pl der option tact Thor ur applica tion figuratio	I) 14 only) A 14, 17 Iy) Iy) sistant (I Profile ra tandard ( ease con ns are nson to s ation. n	only) Sonly) CLSR ail of- itact select

<sup>(1)</sup> See below for the definition of orientation.
 <sup>(2)</sup> Not compatible with NEMA 14 or CLSR.
 <sup>(3)</sup> CLSH must use option F.



# Lead Screw Sizes

Incl	n Lead Screv	NS	Diameter Designator [hundredths of in. diameter]			
Linear Travel / Full Step [µ in] Lead [in]		Lead Designator	31	37		
0.250	0.050	0050		Х		
0.313	0.063	0063		Х		
0.394	0.079	0079		Х		
0.417	0.083	0083	Х	Х		
0.500	0.100	0100		Х		
0.625	0.1235	0125		Х		
0.833	0.167	0167	Х	Х		
1.000	0.200	0200		Х		
1.250	0.250	0250	Х	Х		
1.500	0.300	0300		Х		
1.875	0.375	0375		Х		
2.500	0.500	0500	Х	Х		
3.750	0.750	0750		Х		
5.000	1.000	1000	Х	Х		
6.000	1.200	1200		Х		
Metr	ric Lead Scre	ews	Diameter Designator			
Linear Travel / Full Step [µm]	Lead [mm]	Lead Designator	M08	M10		
10	2.0	020	Х	Х		
15	3.0	030		Х		
20	4.0	040	Х			
25	5.0	050		Х		
30	6.0	060		Х		
40	8.0	080	Х			
50	10.0	100		Х		
60	12.0	120	Х	Х		
100	20.0	200	Х	Х		

# Specifications

Basic Specifications						
Lead Screw						
Material	300 Series Stainless Steel					
Standard Coating <sup>1</sup>	None					
Standard Lead Accuracy	Standard Lead Accuracy [in./ft. (µm/300 mm)]					
Precision Lead Accuracy	[in./ft. (µm/300 mm)]	0.003 (75)				
Straightness	[in./ft. (µm/300 mm)]		0.005 (125)			
Lead Nut						
Standard Material		Inter	nally lubricated	acetal		
Nut Efficiency <sup>2</sup>	[%]		Up to 85			
Typical Linear Travel Life	[in. (km)]		10 x 10 <sup>6</sup> (250)			
Positional Repeatability with Standard Nut <sup>3</sup>	0.005 to 0.010 (0.127 to 0.254)					
Positional Repeatability with Anti-Backlash Nut	<0.002 (0.051)					
Motor						
Frame Size		NEMA 14	NEMA 17	NEMA 23		
Frame Size Step Size	[°]	NEMA 14	NEMA 17 1.8	NEMA 23		
Frame Size Step Size Concentricity of Mounting Pilot to Shaft	[°] [in. (mm)]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR	NEMA 23		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting Face	[°] [in. (mm)] [in. (mm)]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR	NEMA 23		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting FaceMax. Case Temperature	[°] [in. (mm)] [in. (mm)] [°F (°C)]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80)	NEMA 23		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting FaceMax. Case TemperatureStorage Temperature	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)]	NEMA 14 -4	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5	NEMA 23 0)		
<ul> <li>Frame Size</li> <li>Step Size</li> <li>Concentricity of Mounting Pilot to Shaft</li> <li>Perpendicularity of Shaft to Mounting Face</li> <li>Max. Case Temperature</li> <li>Storage Temperature</li> <li>Ambient Temperature</li> </ul>	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [°F (°C)]	NEMA 14 -4 -4	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 to 122 (-20 to 5	NEMA 23 0) 0)		
<ul> <li>Frame Size</li> <li>Step Size</li> <li>Concentricity of Mounting Pilot to Shaft</li> <li>Perpendicularity of Shaft to Mounting Face</li> <li>Max. Case Temperature</li> <li>Storage Temperature</li> <li>Ambient Temperature</li> <li>Max. Humidity (non-condensing)</li> </ul>	[°] [in. (mm)] [îr. (mm)] [°F (°C)] [°F (°C)] [°F (°C)] [%]	NEMA 14 -4 -4	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 85	NEMA 23 0)		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting FaceMax. Case TemperatureStorage TemperatureAmbient TemperatureMax. Humidity (non-condensing)Magnet Wire Insulation	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [°F (°C)] [%] [%]	NEMA 14 -4 -4	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 to 122 (-20 to 5 85 Class B 130 (266	NEMA 23 0) 0)		
<ul> <li>Frame Size</li> <li>Step Size</li> <li>Concentricity of Mounting Pilot to Shaft</li> <li>Perpendicularity of Shaft to Mounting Face</li> <li>Max. Case Temperature</li> <li>Storage Temperature</li> <li>Ambient Temperature</li> <li>Max. Humidity (non-condensing)</li> <li>Magnet Wire Insulation</li> <li>Insulation Resistance</li> </ul>	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [%] [%] [°F (°C)]	NEMA 14 -4 -4 C @ 5	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 to 122 (-20 to 5 85 Class B 130 (266 00 VDC [Mohm]	NEMA 23 0) 0) ) 100		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting FaceMax. Case TemperatureStorage TemperatureAmbient TemperatureMax. Humidity (non-condensing)Magnet Wire InsulationInsulation ResistanceDielectric Strength	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [°F (°C)] [%] [°F (°C)]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 85 Class B 130 (266 00 VDC [Mohm] r 1 min. [Vac] 50	NEMA 23 0) 0) 100 00		
Frame SizeStep SizeConcentricity of Mounting Pilot to ShaftPerpendicularity of Shaft to Mounting FaceMax. Case TemperatureStorage TemperatureAmbient TemperatureMax. Humidity (non-condensing)Magnet Wire InsulationInsulation ResistanceDielectric StrengthAssembly	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [°F (°C)] [%]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 to 122 (-20 to 5 85 Class B 130 (266 00 VDC [Mohm] r 1 min. [Vac] 50	NEMA 23 0) 0) 100 00		
<ul> <li>Frame Size</li> <li>Step Size</li> <li>Concentricity of Mounting Pilot to Shaft</li> <li>Perpendicularity of Shaft to Mounting Face</li> <li>Max. Case Temperature</li> <li>Storage Temperature</li> <li>Ambient Temperature</li> <li>Max. Humidity (non-condensing)</li> <li>Magnet Wire Insulation</li> <li>Insulation Resistance</li> <li>Dielectric Strength</li> <li>Assembly</li> <li>Max. Backlash with Standard Nut<sup>5</sup></li> </ul>	[°] [in. (mm)] [in. (mm)] [°F (°C)] [°F (°C)] [°F (°C)] [%] [°F (°C)]	NEMA 14	NEMA 17 1.8 0.003 (0.08) TIR 0.003 (0.08) TIR 176 (80) to 122 (-20 to 5 85 Class B 130 (266 00 VDC [Mohm] r 1 min. [Vac] 50 0.010 (0.25)	NEMA 23 0) 0) 100 00		

1. Contact Thomson for optional lead screw coatings.

2. Depends on lead, nut material and lubrication.

3. Depends on nut, load and orientation.

4. For best positional repeatability, load should be kept well below design system.

5. Nut fit can be adjusted depending on backlash requirements.



### **Features and Benefits**

- All CLS configurations are available with rear-mounted optical encoders
- Two channel quadrature square wave outputs with optional third channel index output

Encoders							
Motor Size	E2	E3	E5	E6			
NEMA 14	•		•				
NEMA 17	•	•	•	•			
NEMA 23		•		•			

 Various cycles per revolution (CPR) or pulses per revolution (PPR) available – from 32 to 10,000 CPR or 128 to 40,000 PPR

## Available Configurations

0					
Motors	Encoder	Cycles Per Revolution (CPR)	Index	Output	
NEMA 14, NEMA 17	E2	32, 50, 96, 100, 192, 200, 250, 256, 360, 400, 500, 512, 540, 720, 900, 1000, 1024, 1250, 2000 <sup>1</sup> , 2048 <sup>1</sup> , 2500 <sup>1</sup> , 4000 <sup>1</sup> , 4096 <sup>1</sup> , 5000 <sup>1</sup>		NI/A	
NEMA 17, NEMA 23	E3	64, 100, 200, 400, 500, 512, 1000, 1024, 1800, 2000, 2048, 2500, 3600 <sup>1</sup> , 4000 <sup>1</sup> , 4096 <sup>1</sup> , 5000 <sup>1</sup> , 7200 <sup>1</sup> , 8000 <sup>1</sup> , 8192 <sup>1</sup>	Index or No Index	IV/A	
NEMA 14, NEMA 17	E5	32, 50, 96, 100, 192, 200, 250, 256, 360, 400, 500, 512, 540, 720, 900, 1000, 1024, 1250, 2000 <sup>1</sup> , 2048 <sup>1</sup> , 2500 <sup>1</sup> , 4000 <sup>1</sup> , 4096 <sup>1</sup> , 5000 <sup>1</sup>	muex of no muex	Single-Ended or	
NEMA 17, NEMA 23	E6	64, 100, 200, 400, 500, 512, 1000, 1024, 1800, 2000, 2048, 2500, 3600 <sup>1</sup> , 4000 <sup>1</sup> , 4096 <sup>1</sup> , 5000 <sup>1</sup> , 7200 <sup>1</sup> , 8000 <sup>1</sup> , 8192 <sup>1</sup> , 10000 <sup>1</sup>		Differential	

1. CPR available with Index only

Note: Please specify encoder model, CPR, Index and Output (if applicable)

## Dimensions – Encoders





Encoder Specifications											
Encoder	Dimensions (inch)			Input/Output (VDC)			Operating Tempe	rature (°C)	Acceleration (rad/sec <sup>2</sup> )	Mating Connector <sup>2</sup>	
	T <sup>1</sup>	L	D	W	Min	Тур	Max	Min	Max	Max	US Digital
E2	0.62	0.82	1.19	1.19	4.5 5.0		.0 5.5	40			CON-C5
E3	0.02	0.57	2.20	1.62		5.0		-40	100	250 000	CON-LC5
E5	0.65	1.24	1.22	1.22				-40 (CPR<2000) -25 (CPR≥2000)	100	230,000	CON-FC5 (5 PIN) CON-FC10 (10 PIN)
E6	0.00	1.42	2.22	1.39				-40 (CPR<3600) -25 (CPR≥3600)			

1. NEMA 17 motor requires mounting plate, which increases dimension T by approximately 0.15 in.

2. All single-ended encoders are 5 pin connections. All differential encoders are 10 pin connections.

Pinouts								
Pin	Single-Ended	Differential <sup>1</sup>						
1	Ground	Crewed						
2	Index	Ground						
3	A Channel	Index-						
4	+5 VDC Power	Index+						
5	B Channel	A- Channel						
6	-	A+ Channel						
7	-							
8	-	+3 VDC FOWEI						
9	-	B- Channel						
10	-	B+ Channel						





DIFFERENTIAL





1. E5 and E6 only

## Wiring and Connectors

Thomson offers standard wiring and connector pin-outs (shown below). However, if you have unique application requirements such as a specific mating connector you'd like to easily plug into, we also offer custom wiring and connectors to match your needs. Just contact us with your request, and we'll find a solution.

Flying Leads		A+ Red
Lead Color	Phase	
Red	A+	
Blue	A-	A Blue
Green	B+	B+ Green
Black	В-	B- Black

## NEMA 14, NEMA 17 and NEMA 23

- Standard wiring diagram for NEMA 14, NEMA 17 and NEMA 23 configurations
- 26 AWG lead wires for NEMA 14
- 22 AWG lead wires for NEMA 17 and NEMA 23
- Other lead wire gauges available contact Thomson for more details

	Compact Linear Systems
Notes	
NOLES	

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