

## TEN 40 Series Linear Guide Rail and Slider Assemblies

This is a linear guide product where a slider assembly is allowed to move freely within the guide rail channel, thereby restricting movement in all but one linear direction.

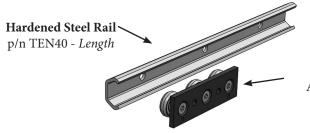
The slider assembly consists of a steel plate with three cam roller type bearings. Two of the bearings support most of the loading while the other bearing located in the center of the slider is used to preload the assembly. This preload can be adjusted to allow for higher (i.e., a high stiffness) or lower resistance to movement.

Rails are made in **lengths of 4000 mm** and cut to shorter lengths per order. Attachment **holes are 9 mm diameter** and are **spaced every 80 mm** along the length of the rail.

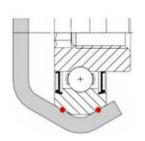
The three bearing slider overall length is 135 mm. There are four M6 threaded holes in each slider for connecting to your structure.



Each kit includes linear guide assemblies as shown above.

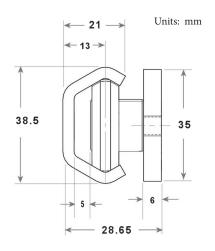


**Three Bearing Slider** Assembly p/n CEN40-135



Each cam roller bearing contacts the rail at two points in the upper and lower portion of the rail raceway as shown in figure to the left.

Each linear guide assembly only requires a cross-sectional area of 38.5 mm (1.51") wide by 28.65 mm (1.13") height between the fixed structure and moving component. Reference assembly end view to the right for more details.



In the table below are a series of preconfigured rail and slider kits. Each kit consist of two rails and two sliders.

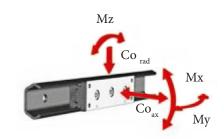
		Max	Max	One Kit Consists of the following components:					
		Travel	Travel		Rail		Rail		
	Kit Part Number	(mm)	(inch)	Rail P/N	Qty	Slider P/N	Qty		
1	TEN40KIT-L400	265	10.4	TEN40-400	2	CEN40-135	2		
2	TEN40KIT-L480	345	13.6	TEN40-480	2	CEN40-135	2		
3	TEN40KIT-L560	425	16.7	TEN40-560	2	CEN40-135	2		
4	TEN40KIT-L640	505	19.9	TEN40-640	2	CEN40-135	2		
5	TEN40KIT-L720	585	23.0	TEN40-720	2	CEN40-135	2		
6	TEN40KIT-L800	665	26.2	TEN40-800	2	CEN40-135	2		
7	TEN40KIT-L880	745	29.3	TEN40-880	2	CEN40-135	2		
8	TEN40KIT-L960	825	32.5	TEN40-960	2	CEN40-135	2		
9	TEN40KIT-L1040	905	35.6	TEN40-1040	2	CEN40-135	2		
10	TEN40KIT-L1120	985	38.8	TEN40-1040	2	CEN40-135	2		
Alternative components are LAN40 Rail and PAN40-3 Slider									

# TEN40 Rail and Slider Kits

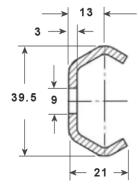


The slider assembly supports the highest load in a radial direction as shown in the diagram to the right. Axial or side loading load capacity is much less.

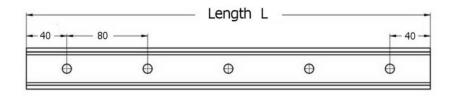
CEN40-135 SLIDER ASSEMBLY *CAPACITY											
Units	Co <sub>rad</sub>	Co <sub>ax</sub>	Mx	Му	Mz	Dynamic Coef C	Net Wt.				
Metric	2400 N	820 N	10 N-m	25 N-m	50 N-m	2720 N	430 g				
English	539 lb	184 lb	88 lb-in	221 lb-in	442 lb-in	611 lb	0.95 lb				



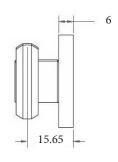
Units: mm

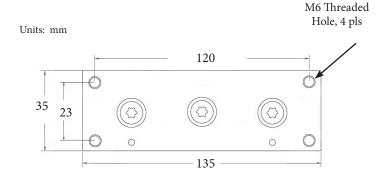


#### RAIL DIMENSIONAL DATA

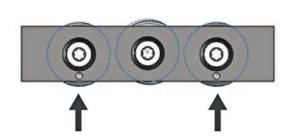


## SLIDER ASSEMBLY DIMENSIONAL DATA

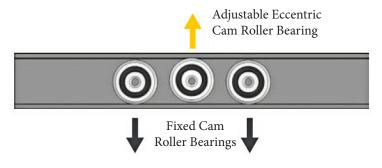




## SLIDER BEARING LOADING INFORMATION



Circular dots on the slider body identify the fixed rollers (i.e., the side with the maximum radial load capcity).



When the slider assembly is install into the rail with the circular dots down the slider will achieve its maximum radial load capacity.

The eccentric cam roller bearing located in the center of the slider is use to adjust the preload when mated with the rail.

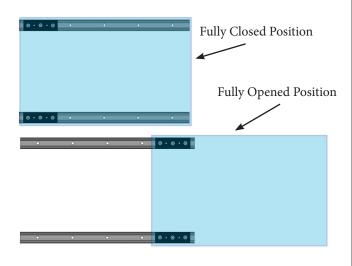
<sup>\*</sup> Capacity data is for each slider assembly



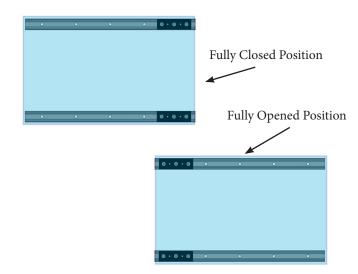
#### APPLICATION EXAMPLES

TEN rail and Slider Assemblies can be used for side to side security panel or sliding door movement as shown in Example #1 and #2 below.

Example #1 RAILS FIXED AND SLIDER MOVING



Example #2 SLIDER FIXED AND RAILS MOVING



### HIGH TEMPERATURE OPERATION

Many linear guide products are limited to operating temperatures of 80 deg C (176 deg F) due to some compponent made of plastic or rubber. That is not the case with these cam roller bearing slider assemblies. Steel shields are use in place of rubber seals to keep dirt and debris out of the bearings. This product can be used in **higher temperature environment** up to  $180 \ deg \ C \ (356 \ deg \ F)$ .

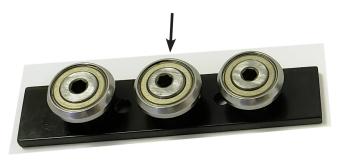
Steel shield allows for higher temperature operation.





Front view of slider assembly

Eccentric cam roller bearing preload can be adjusted with a 5mm Allen Wrench Hex Key after the 6M Torx screw on front side has been loosened.



Back view of slider assembly