

# TEN Rail and Slider Kits

TPA Motion, LLC  
800-284-9784



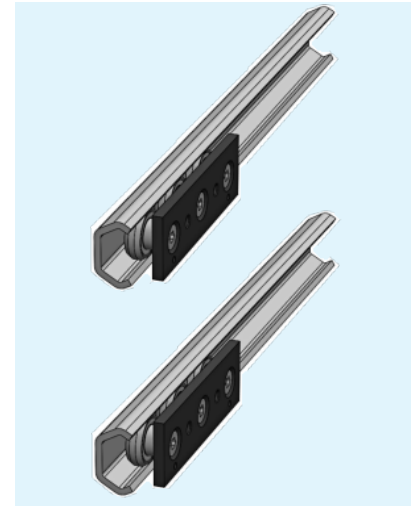
## TEN 26 Series Linear Guide Rail and Slider Assemblies

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.

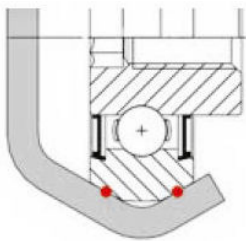
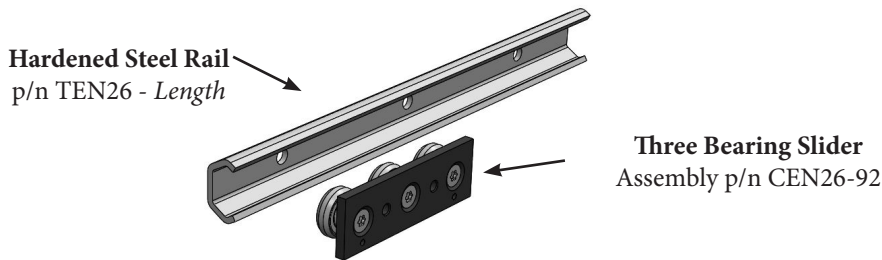
The slider assembly consists of a steel plate with three cam roller type bearings. Two of the bearings support most of the loading while the other bearing located in the center of the slider is used to preload the assembly. This preload can be adjusted to allow for higher (i.e., a high stiffness) or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

Rails are made in lengths of 4000 mm and cut to shorter lengths per order. Attachment holes are 6.5 mm diameter and are spaced every 80 mm along the length of the rail.

The three bearing slider overall length is 92 mm. There are two M5 threaded holes in each slider for connecting to your structure.

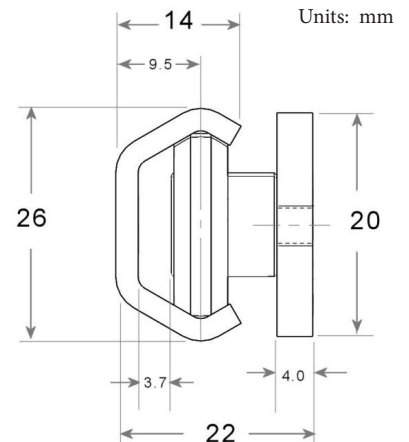


Each kit includes linear guide assemblies as shown above.



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 22 mm (0.87") wide by 26 mm (1.0") 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.

|    | Kit Part Number | Max Travel (mm) | Max Travel (inch) | One Kit Consists of the following components: |          |            |          |
|----|-----------------|-----------------|-------------------|---|----------|------------|----------|
|    |                 |                 |                   | Rail P/N                                      | Rail Qty | Slider P/N | Rail Qty |
| 1  | TEN26KIT-L320   | 228             | 9.0               | TEN26-320                                     | 2        | CEN26-92   | 2        |
| 2  | TEN26KIT-L400   | 308             | 12.1              | TEN26-400                                     | 2        | CEN26-92   | 2        |
| 3  | TEN26KIT-L480   | 388             | 15.3              | TEN26-480                                     | 2        | CEN26-92   | 2        |
| 4  | TEN26KIT-L560   | 468             | 18.4              | TEN26-560                                     | 2        | CEN26-92   | 2        |
| 5  | TEN26KIT-L640   | 548             | 21.6              | TEN26-640                                     | 2        | CEN26-92   | 2        |
| 6  | TEN26KIT-L720   | 628             | 24.7              | TEN26-720                                     | 2        | CEN26-92   | 2        |
| 7  | TEN26KIT-L800   | 708             | 27.9              | TEN26-800                                     | 2        | CEN26-92   | 2        |
| 8  | TEN26KIT-L880   | 788             | 31.0              | TEN26-880                                     | 2        | CEN26-92   | 2        |
| 9  | TEN26KIT-L960   | 868             | 34.2              | TEN26-960                                     | 2        | CEN26-92   | 2        |
| 10 | TEN26KIT-L1040  | 948             | 37.3              | TEN26-1040                                    | 2        | CEN26-92   | 2        |

Alternative components are LAN26 Rail and PAN26-3 Slider

# TEN Rail and Slider Kits

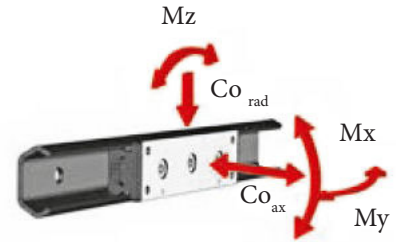
TPA Motion, LLC  
800-284-9784



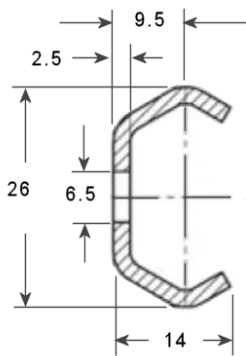
The slider assembly supports the highest load in a radial direction as shown in the diagram to the right. Axial or side loading load capacity is much less.

| CEN26-92 SLIDER ASSEMBLY *CAPACITY |                   |                  |                |                |                |                |         |
|------------------------------------|-------------------|------------------|----------------|----------------|----------------|----------------|---------|
| Units                              | Co <sub>rad</sub> | Co <sub>ax</sub> | M <sub>x</sub> | M <sub>y</sub> | M <sub>z</sub> | Dynamic Coef C | Net Wt. |
| Metric                             | 1120 N            | 380 N            | 3 N-m          | 9 N-m          | 16 N-m         | 1280 N         | 100 g   |
| English                            | 251 lb            | 85 lb            | 26 lb-in       | 79 lb-in       | 141 lb-in      | 287 lb         | 0.2 lb  |

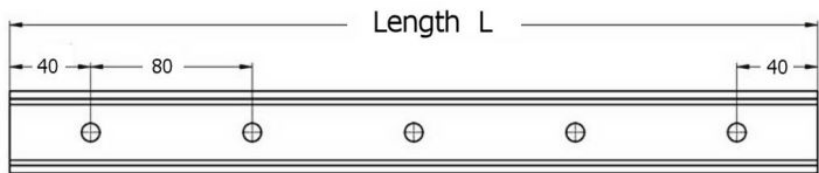
\* Capacity data is for each slider assembly



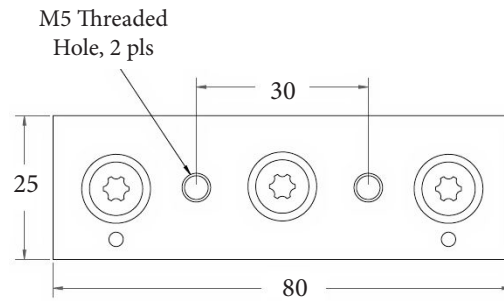
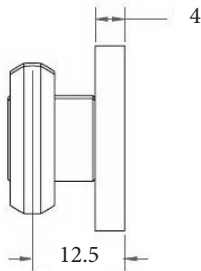
Units: mm



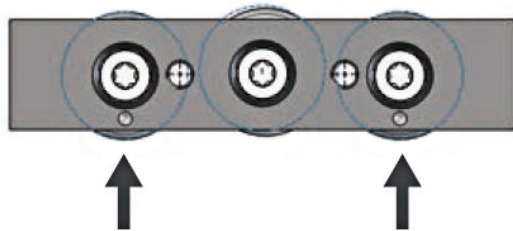
## RAIL DIMENSIONAL DATA



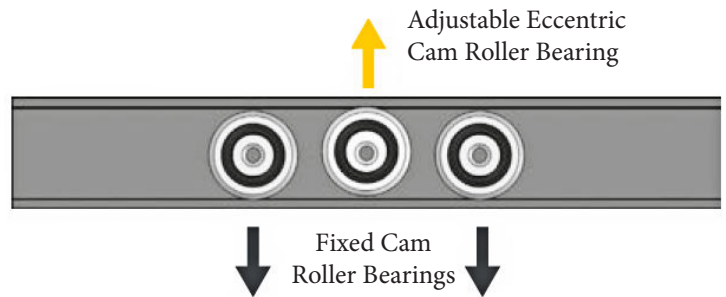
## SLIDER ASSEMBLY DIMENSIONAL DATA



## SLIDER BEARING LOADING INFORMATION



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



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

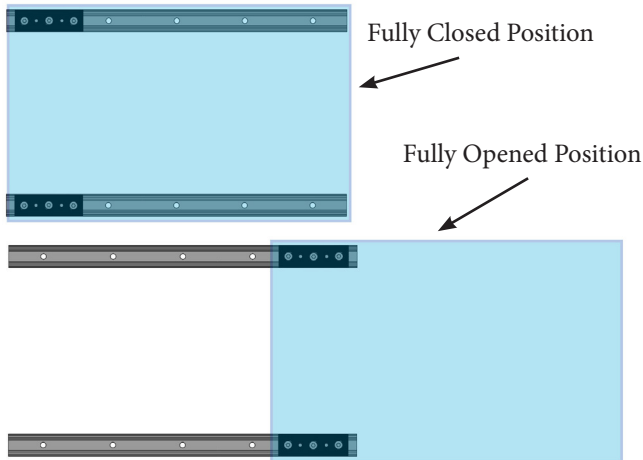
**The eccentric cam roller bearing located in the center of the slider is use to adjust the preload when mated with the rail.**



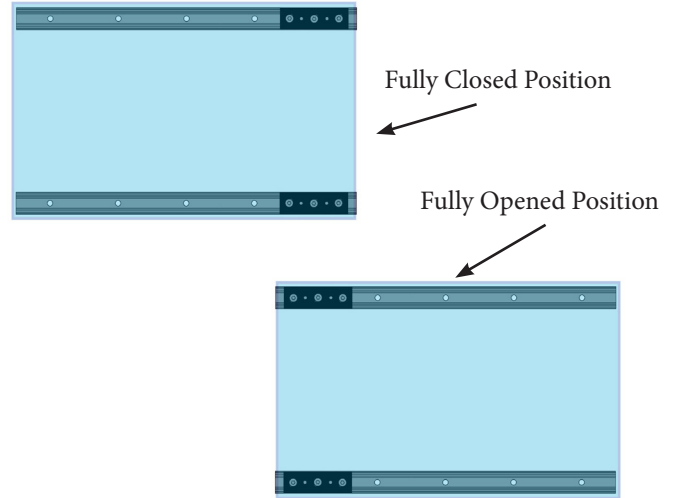
## APPLICATION EXAMPLES

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



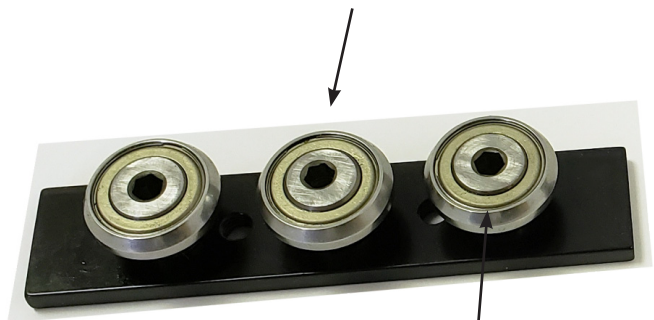
## HIGH TEMPERATURE OPERATION

Many linear guide products are limited to operating temperatures of 80 deg C (176 deg F) due to some component made of plastic or rubber. That is not the case with these cam roller bearing slider assemblies. Steel shields are used 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)**.

Eccentric cam roller bearing preload can be adjusted with a 4mm Allen Wrench Hex Key after the 5M Torx screw on front side has been loosened.



Front view of slider assembly



Back view of slider assembly

Cam roller bearing steel shield