

# LAN40+LUN40 SELF-ALIGNING SYSTEMS

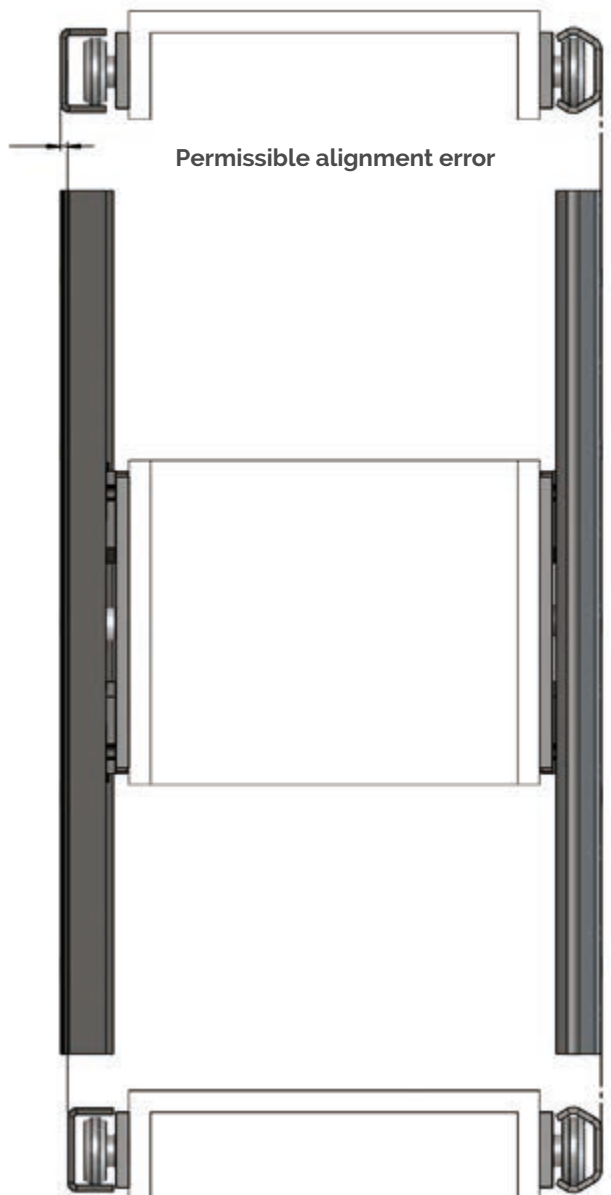
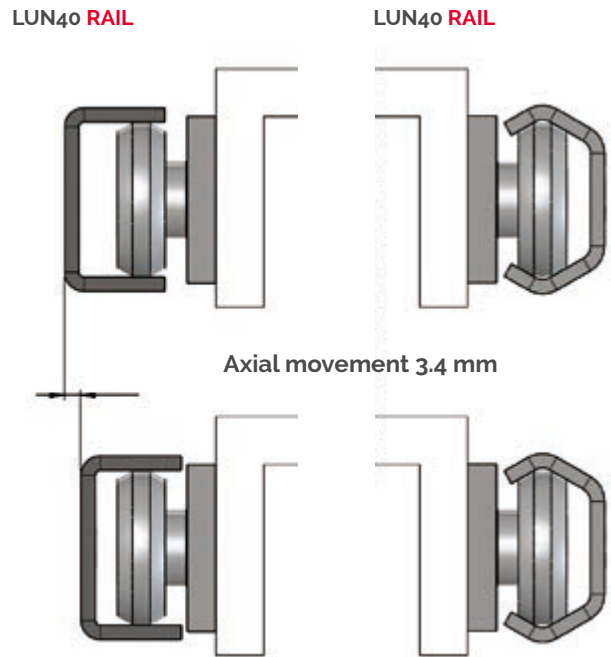
In two-slide linear motion systems, you can use one LAN40 rail with one LUN40 rail, with PAN40 sliders in both. This combination creates a self-aligning system capable of tolerating alignment errors of up to 3.4 mm.

The sliders in the LAN40 guiding rail are rigidly connected, via the mobile element, to the sliders in the LUN40 floating rail on the other side. The LAN40 guiding rail ensures play-free linear motion (see the description of points of contact on page 5). The sliders in the LUN40 floating rail are therefore also play-free but able to move axially across the flat raceways. This system avoids overload on the sliders as the result of rail alignment error.

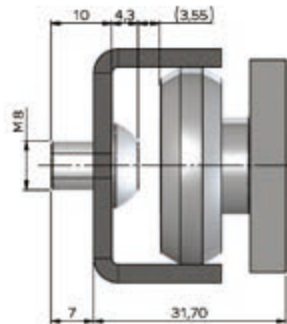
The limit of axial movement of PAN40 sliders towards the inside of LUN40 rails is determined by the size of the heads of the rail fixing screws (see figures below). In particular, T RACE's special flat head 40.VC -SP01 screws permit approximately 1 mm of extra axial movement compared to standard ISO 7380 screws.

The limit of axial movement towards the outside of the LUN40 rail is determined by the point of departure of the roller from the raceway. The limit specified in the catalogue guarantees sufficient contact between rollers and raceway to support rated load.

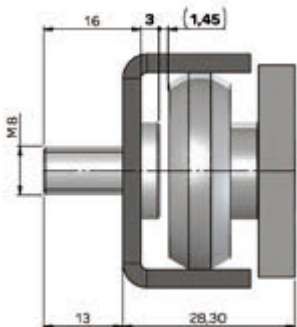
Sliders in LUN40 rails offer less load capacity than the same sliders in LAN40 rails. (See the table on page 9).



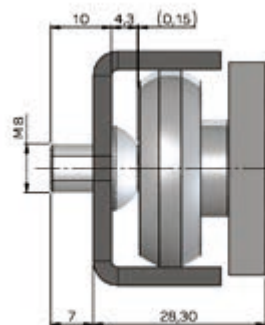
Min-max movement



Limit towards outside of rail



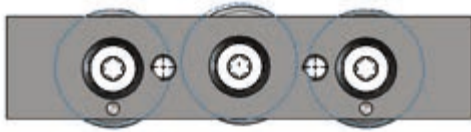
Limit towards inside of rail with special 40.VC-SP01 screws



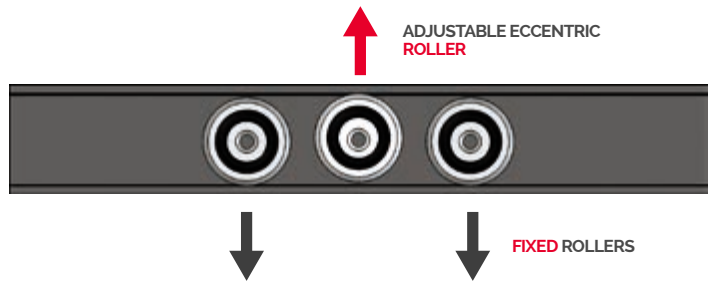
Limit towards inside of rail with ISO 7380 screws



## 3-ROLLER SLIDER



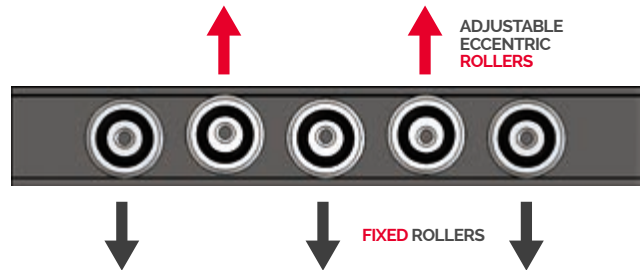
Dots on the slider body identify the side with the fixed rollers.



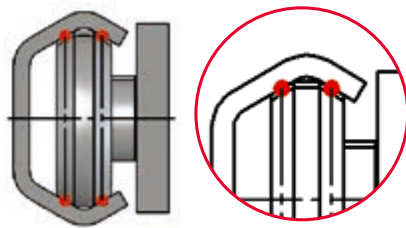
## ROLLER CONTACT POINTS



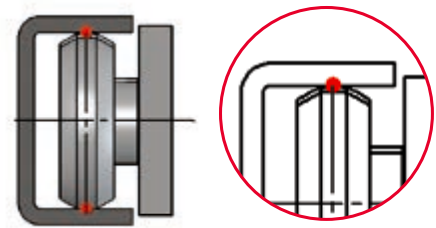
Dots on the slider body identify the side with the fixed rollers.



## ROLLER CONTACT POINTS



LAN GUIDING RAIL



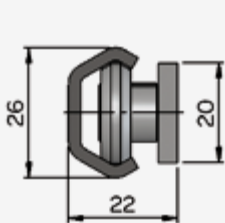
LUN FLOATING RAIL

The two bevelled surfaces of the roller run on the two slopes of the V-shaped raceway in the LAN rail to create 4 points of contact (two per roller). These guide linear motion both radially and axially.

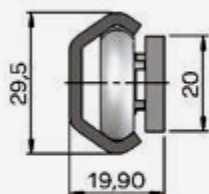
The flat central surface of the roller runs on the flat raceway of the LUN rail to create 2 points of contact (one per roller). This guides linear motion radially but allows axial float.

## LAN SERIES GUIDING RAILS

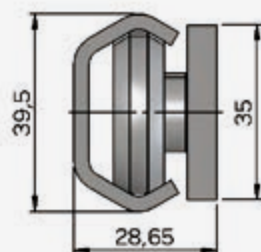
## LUN SERIES FLOATING RAILS



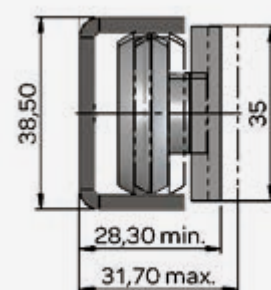
GUIDING RAIL  
LAN 26



LAN 30



LAN 40



FLOATING RAIL  
LUN 40

