

TECHNICAL DESCRIPTION

LAN rails are made from sheet steel and shaped by high precision, ultra-smooth forming rollers. They are then case hardened using our revolutionary TRACE-NOX nitriding and black oxidising process to ensure an extended lifetime and excellent corrosion resistance.

The slider bodies are cathodically blackened for maximum corrosion resistance. The rollers are made from core tempered and precision ground, bearing grade steel. The ball bearings are lubricated for life with wide temperature range bearing grease and protected by Z2 rated metal shields.

Robust elastomer raceway wipers are fitted at both ends of the slider to protect the rollers and keep the raceways clean. The wipers incorporate oil-impregnated felt pads to keep the points of contact between raceway and roller properly lubricated, even for the lifetime of the rail. Wipers are held in place by a simple clip and can be removed and replaced easily.



LAN AND LUN SERIES RAILS GUIDING AND FLOATING LINEAR MOTION SOLUTIONS

CONFIGURATIONS

- **Sliders are available in 3 and 5-roller configurations.**
In 3-roller versions, the two lateral rollers run on the same raceway while the central roller runs on the opposite raceway. The lateral rollers are fixed, concentric rollers, while the central roller has an eccentric pivot for preload adjustment.
- In 5-roller versions, the two lateral rollers and the central roller are fixed concentric rollers and run on the same raceway, while the second and fourth rollers run on the opposite raceway and have eccentric axles for preload adjustment.

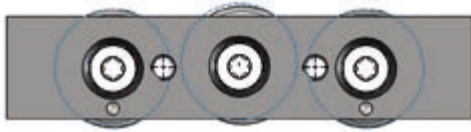
MAXIMUM LOAD CAPACITY

The asymmetric arrangement of the rollers means that the two sides of the slider have different load capacities. Sliders must therefore be oriented correctly on assembly. Maximum radial load capacity is achieved by orienting the slider so that radial load acts in the direction of the raceway contacted by the largest number of rollers. The side of the slider capable of supporting the greater load is identified by two relief dots.

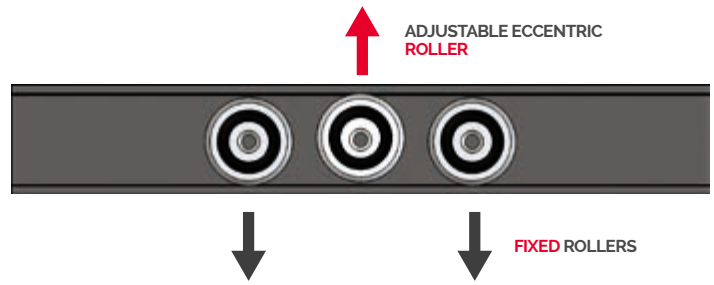




3-ROLLER SLIDER



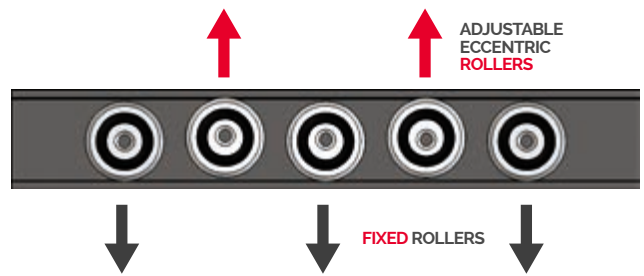
Dots on the slider body identify the side with the fixed rollers.



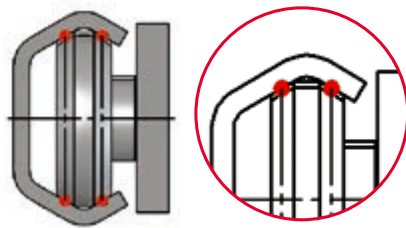
ROLLER CONTACT POINTS



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

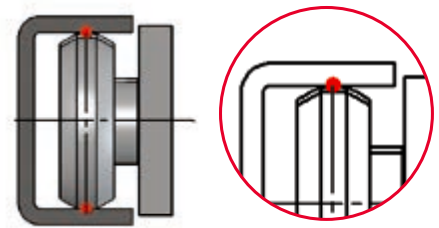


ROLLER CONTACT POINTS



LAN GUIDING RAIL

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.

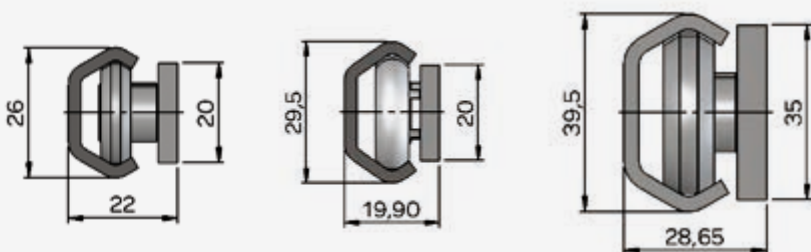


LUN FLOATING RAIL

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

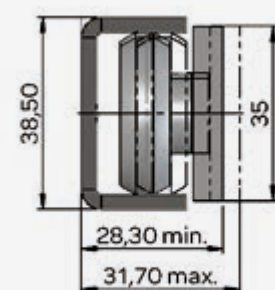
LUN SERIES FLOATING RAILS



GUIDING RAIL
LAN 26

LAN 30

LAN 40



FLOATING RAIL
LUN 40

