



- **Expected working life and load capacity:** in automated applications, the rail must often operate for long periods (a few million cycles) with long maintenance intervals and carrying heavy loads. With this in mind, the characteristics of the materials become extremely important: a process of hardening the raceways, such as induction tempering or deep nitriding, can confer the hardness necessary to manage these situations in the best possible way.
- **Maintenance intervals:** self-lubricated systems, slow release grease tanks and raceway cleaners are elements that considerably prolong maintenance intervals on telescopic rails, and sometimes even manage to eliminate them. Needless to say, this quickly develops into a huge advantage in terms of cost and performance.
- **Speed and acceleration:** a telescopic rail system is typically made up of a fixed part, a mobile part and an intermediate element. For high dynamics applications, the latter element often does not slide with optimal performance due to high stress. Accessories like synchronization systems and bumpers help increase efficiency in applications like these.

- **Misalignment:** the alignment between the fixed and mobile parts of an extraction is not always precise. Often, misalignments of several millimeters are found and these reduce the life span of the rails considerably. In these cases, it is possible to undertake costly surface adjustment processes, which double assembly times, or opt for a rail that can absorb these misalignments.
- **Reliability in difficult environments:** telescopic rails in industrial environments are almost always in contact with production residue, debris or dust. A large rolling component allows the rail to slide optimally even with impurities.
- **Anti-corrosion:** water, liquids, acid or base solutions. A wide range of materials or anti-corrosion treatments allow the rail to be used efficiently in every environment.

Telerace telescopic guides by Rollon: maximum efficiency for automation.

The range of Rollon products has recently been expanded with the introduction of the Telerace family: telescopic guides with ball bearings, with double ball bearings and nitrided raceways, able to easily manage variable strokes, high speeds and stressful cycles, also in vertical

applications.

These rails have large rolling components (the maximum diameter of the bearings is 31.5 mm) with internal sliders fitted with raceway cleaners and lubrication systems. The nitriding treatment ensures maximum efficiency up to 2 million cycles thanks to a raceway surface hardness of 60-62 HRC. Double ball bearings allow the system to manage heavy loads, up to around 780 kg per pair for the best performing rails (TLR 43).

Lastly, Telerace rails are designed with a slight rotation of the rail elements with respect to the intermediate element, and this allows them to manage misalignments up to 2° and flatness problems up to 3 mm.

Available in several different models in carbon steel or stainless steel AISI 304, these rails can be treated with the "Rollon e-coating" for greater resistance to corrosion (up to 700 hours in saline mist).

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