

ROLLON®
BY TIMKEN

0-Rail



Product explanation



> O-Rail - unique assembly possibilities



Fig. 1

The roller linear system O-Rail offers the maximum flexibility configuration due to the original shape of the guide with 3 raceways arranged at 90 ° to each other where on each of those can slide rollers R..G43 series. Using a single guide, two, or more parallel guides, gives rise to a number of combinations capable of satisfying each specific need for linear motion and offering exceptional self-alignment capacity. O-Rail is constructed in high strength steel hardened with hardening treatments, for a further improvement of both performance and durability.

O-Rail is designed to be a strong and simple multitask linear system for larger handling and automation applications. It is an easy to assemble system, that offers smooth motion even on inaccurate surfaces.

> FXRG series

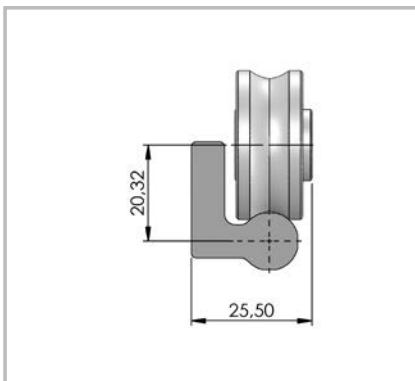


Fig. 2

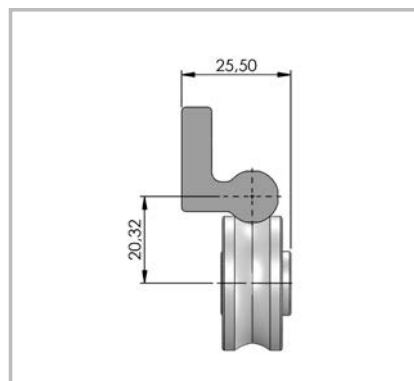


Fig. 3

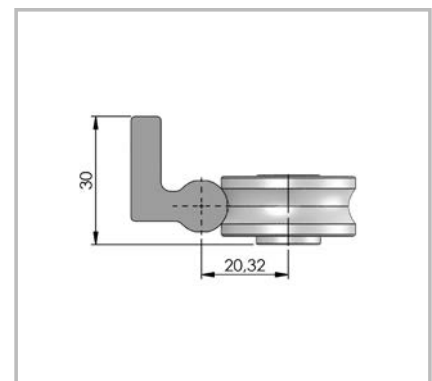


Fig. 4

General characteristics



New geometrical design of the contact areas, based on Gothic arch raceways

- Superior sliding
- Very low friction
- Long lifetime
- Greater load capacity
- Very compact design

New rollers, double row bearings, with increased thickness of outer ring, gothic profile and finished raceways.

- Increased load capacity
- Increased lifetime
- Extremely low noise
- High speed
- Neoprene lateral seals for dust protection

Self-aligning system when using two parallel rails, compensating large assembly inaccuracies on both longitudinal and transversal plane.

- allow for installation on non precise structures - welded carpentry or aluminium frame structures
 - Do not require machined fixing surfaces for installation.
- Cost saving, as easy and fast assembly

Patented process Rollon-Nox, to further improve the rail material and thermochemical hardening treatment of deep nitriding and post-oxidation black for an effective corrosion protection.

- Very high hardness
- Resistance to heavy loads
- Very low wear
- Effective corrosion protection
- Smooth black finish

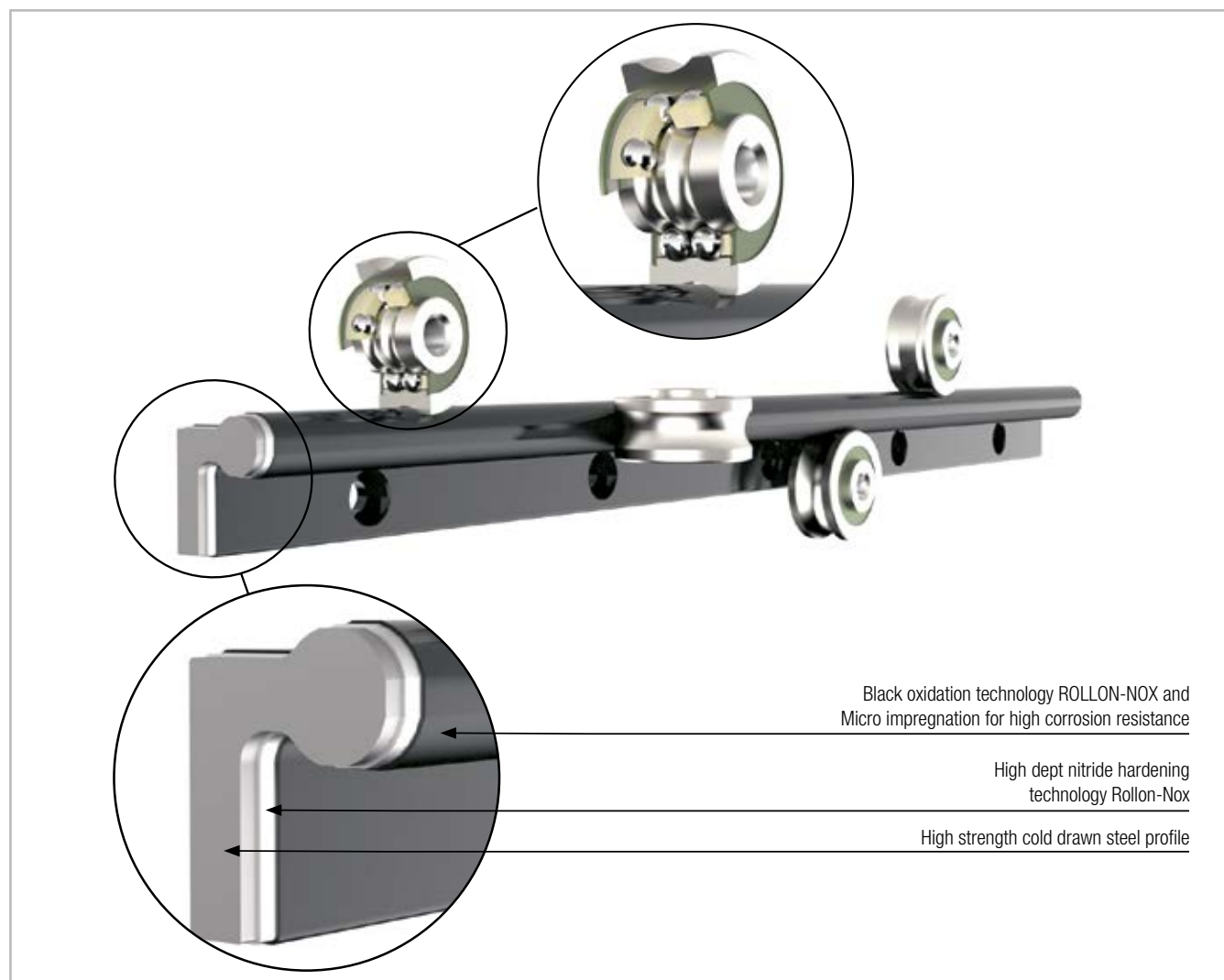


Fig. 5

> Configurations

The FXRG allows a wide range of configurations when using two or more rails in parallel. Depending on required load and moment capacities/direction more single rollers and standard sliders are used to obtain

unique Self-aligning systems. Contact ROLLON for eventual support in dimensioning customized systems .

FXRG with guiding slider with limited rotational capacity

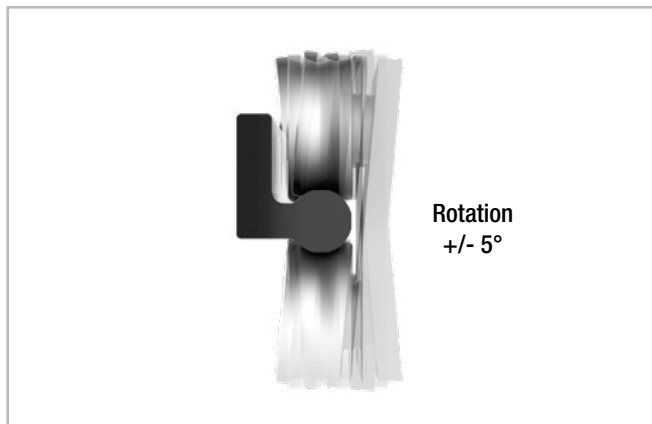


Fig. 6

Combination of two FXRG with resting load

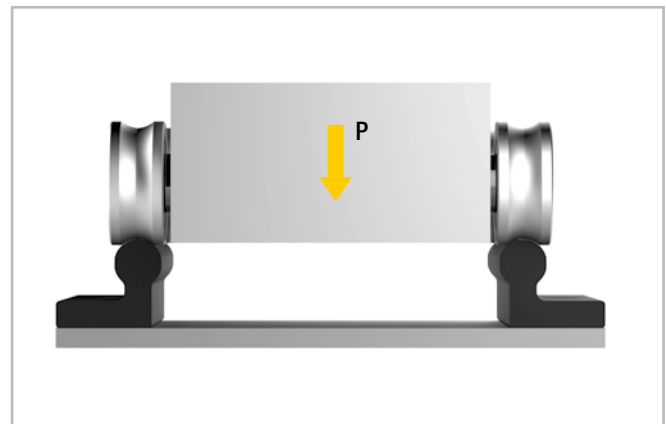


Fig. 7

Configuration with two parallel FXRG with self-aligning capacity

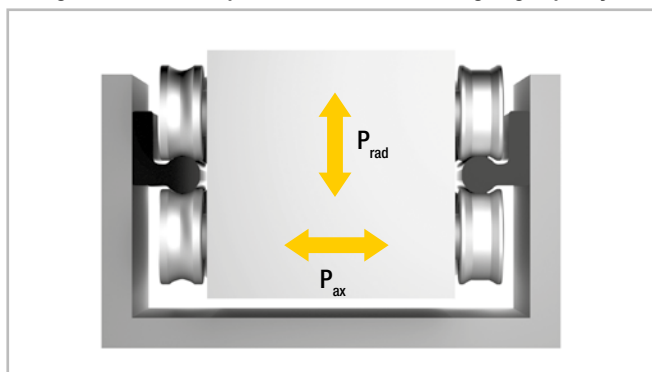


Fig. 8

Configuration with two FXRG to form a single rail with a slider allowing for high M_x moments

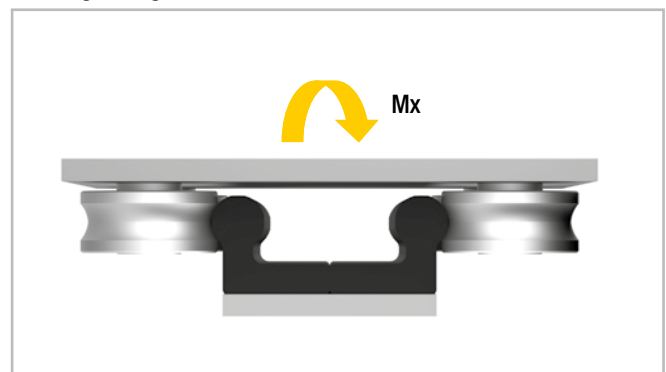


Fig. 9

Telescopic configuration

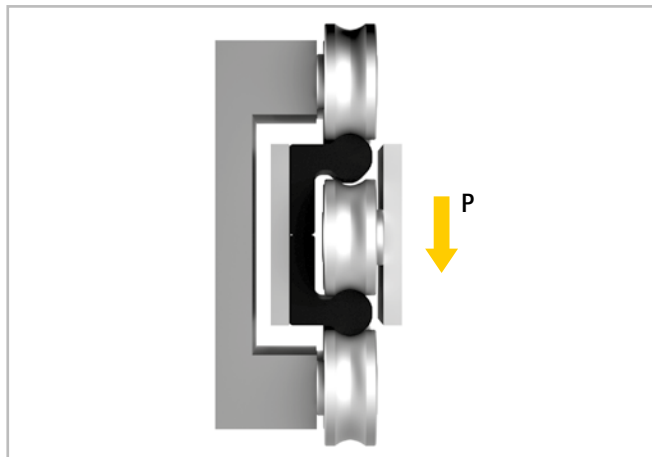


Fig. 10

Composed of two FXRG rails with rollers in between the rails fixed to mobile part and rollers on fixed structure running on outer raceways, providing a customized solutions for telescopic movements.

Configuration of two FXRG

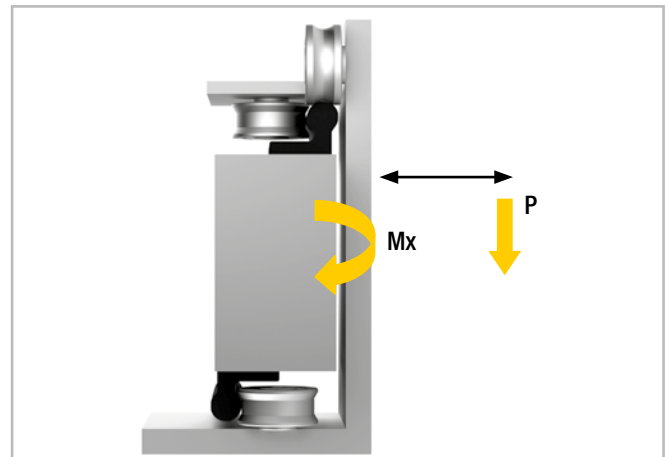


Fig. 11

With high cantilever load capacity, meanwhile Self-aligning.