We design and produce in order to support you

Values

An international group for technology, a local support for service
Over 40 years of know how in design and production

Collaboration

High level technical consulting
Cross competences in several industrial sectors for an effective problem-solving

Solutions

From a full range of standard products to fit-to-customer solutions for best performances

Applications

INTERIORS AND ARCHITECTURE
MEDICAL
SPECIAL VEHICLES
AERONAUTICS
RAILWAY
LOGISTICS
INDUSTRIAL MACHINERY
ROBOTICS
A complete range for linear motion which reaches every customer

Actuator System Line
Integrated actuators for industrial automation, they find applications in numerous industrial sectors: from machinery servo systems to high precision assembly systems, packaging lines and high speed production lines. It has evolved from Actuator Line series in order to meet the most demanding needs of our customers.

Actuator Line
Linear actuators with different guide configurations and drives, available with belt, screw or rack and pinion drives according to different needs in terms of precision and speed. Guides with bearings or ball recirculating systems for different load capacities and critical environments.

Linear Line
Linear and curved guides with ball and roller bearings, with hardened raceways, high load capacities, self-alignment and capable of working in dirty environments.

Telescopic Line
Telescopic guides with ball and roller bearings, with hardened raceways, high load capacities, low bending, resistant to shocks and vibrations. For partial, total or extended extraction up to 200% of the length of the guide.

see page 06
see page 14
see page 24
see page 34
**Linear Line**

- Optimal reliability in dirty environments.
- Self-aligning system.
- Cost-effective bended steel profiles.
- Anticorrosion. Stainless steel.
- Simple mounting.

**X-Rail**

Linear bearings with bended C-profile. Available in zinc-plated steel, stainless steel or hardened with Rollon NOX treatment.

- Optimal reliability in dirty environments.
- Self-aligning system.
- Cost-effective bended steel profiles.
- Simple mounting.

**Compact Rail**

Self-aligning linear guides with bearings and a C-profile made of cold-drawn carbon steel. They have induction hardened and ground raceways.

- Optimal reliability in dirty environments.
- Self-aligning system.
- Uniquely quiet with ground raceways.
- High dynamics due to roller bearing: \( V = 9 \text{m/s}, A = 20 \text{m/s}^2 \).

- Long life thanks to hardened raceways.
- Available with Rollon NOX hardening process.

- Compact rail. Up to 3.9 mm.
- Simple mounting. Up to 3.5 mm.
**Linear Line**

**Easyslide**
Smooth linear guides with balls and a C-profile made of cold-drawn carbon steel. They have induction hardened raceways.

**Curviline**
Customized guides for constant and variable radii. Available as stainless steel and hardened or unhardened steel version.

**Prismatic Rail**
Prismatic rails with bearings. They’re available with cylindrical rollers or with V-shaped rollers configuration.

**O-Rail**
Modular linear guides with rollers. Versatile for the highest flexibility of configurations.
**Linear Line**

**Mono Rail**
Recirculating balls linear guides. They have ground raceways and a ball contact angle of 45° in X-arrangement.

**Speedy Rail**
Self-supporting and self-aligning extruded aluminum linear guides. The slider is supported by steel bearings covered by plastic compound, available in cylindrical or V-shaped configuration.

- Absence of lubrication.
- Optimality reliability in dirty environments.
- Self-supporting for greatest design freedom.
- High dynamics: \( V = 15 \text{ m/s}, A = 10 \text{ m/s}^2 \).
- Use as a linear guide or actuator.
- Self-aligning system.
- Long life thanks to hardened raceways.
- High stiffness and precision with recirculating balls system.
- Optimal reliability in dirty environments.
- Absence of lubrication.
- High dynamic: \( V = 15 \text{ m/s}, A = 10 \text{ m/s}^2 \).
- Self-supporting for greatest design freedom.
- Use as a linear guide or actuator.
- Self-aligning system.
- High load up to 24,000 Kg per slider.

**Life time up to 80,000 Km.**

**Axial variation max ±1.5 mm**

**Axial variation max ±4 mm**
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<th>Section</th>
<th>Shape of rail</th>
<th>Hardened raceways</th>
<th>Rollon NOX hardening process</th>
<th>Self-alignment</th>
<th>Slider</th>
<th>Anticorrosion</th>
<th>Size</th>
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<th>Dynamic coefficient C 100 [N]</th>
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Telescopic Line

Telescopic Rail
Heavy duty telescopic rails with hardened raceways for extractions up to 150%. Available with different shapes according to load capacity and rigidity required.

Long life thanks to hardened raceways.
150% Extractions up to 150%
High loads up to 3,800 Kg per pair of guides.
Low deflection due to sturdy profiles.
Wide range of anticorrosion surface treatments.
Safe solutions with locking and damping systems.
Suitable for automation with rack and pinion synchronization available.

Hegra Rail
Industrial telescopic rails for extractions up to 200%. Stainless steel and aluminum versions available.

200% Overextraction up to 200%
High loads up to 2,000 Kg per pair of guides.
Low deflection due to sturdy profiles.
Safe solutions with locking and damping system.
Anticorrosion.
Stainless Steel.
Aluminum available for lightweight construction.
Telescopic Line

Telerace
Telescopic guides with bearings, suitable for vertical strokes and variable stroke working cycles.

- Suitable for vertical and variable strokes.
- Ideal for continuous working cycles with low maintenance.
- Available with stainless steel bearings.
- Optimal reliability in dirty environments.
- High load capacity due to double row bearings.

Light Rail
Bended steel telescopic rails with light structure for extractions up to 100%.

- Good rigidity in relation to a lightweight design.
- Stainless steel available.
- Quiet sliding.
- Ideal for continuous working cycles with low maintenance.
- Space saving, ideal for medium and lightweight drawers.

High load capacity due to double row bearings.
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Reported data must be verified according to the application.

*The maximum value is defined by the application. For more information, please contact our technical department.
### Technical features overview

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<th>Size</th>
<th>Profile</th>
<th>Self-alignment</th>
<th>Slider Material</th>
<th>Stroke direction</th>
<th>Snap</th>
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<th>Damping</th>
<th>Max. load capacity per pair [N]</th>
<th>Max. rail length [mm]</th>
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<th>Max. extension speed** [m/s]</th>
<th>Rigidity (deflection)</th>
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</table>

Reported data must be verified according to the application.

In many cases, special designs or alternative surface treatments are possible. For more information, please contact our technical department.

* The over extension corresponds to 150 % stroke (1=150 % extraction). For a 200 % stroke (2=200 % extraction) please contact our technical department.

* Different temperature ranges from -30 °C to +250 °C. This must be verified according to the application.

* The load capacity for aluminum is 40 % and for stainless steel 60 % of the stated values, if available in this material variant.

* Different stainless steels, such as the «electropolishing» option, are available. For more information, please contact our technical department.

* The availability of locking systems depends on the system length and varies per product group. For more information, please contact our technical department.

* The maximum temperature is ±3°C; damping is used. For more information, please contact our technical department.

* The maximum value is defined by the application. For more information, please contact our technical department.

* The maximum values are defined by the application. For more information, please contact our technical department.
<table>
<thead>
<tr>
<th>Product Family</th>
<th>Product Section</th>
<th>Reference Product name</th>
<th>Extraction</th>
<th>Size</th>
<th>Profile</th>
<th>Self alignment</th>
<th>Slider</th>
<th>Material</th>
<th>Stroke direction</th>
<th>Suitable for variable stroke cycles</th>
<th>Suitable for vertical stroke</th>
<th>Damping closed position</th>
<th>Max. load capacity per pair [N]</th>
<th>Max. rail length [mm]</th>
<th>Max. stroke [mm]</th>
<th>Max. extension speed* [m/s]</th>
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Reported data must be verified according to the application.
*1 High density nitride hardening treatment and oxidation.
*2 Also available in TLN.HP version with greater load capacity.
*3 The maximum value is defined by the application. For more information, please contact our technical department.

Reported data must be verified according to the application.
* High density nitride hardening treatment and oxidation.
** Also available in TLN.HP version with greater load capacity.
* The maximum value is defined by the application. For more information, please contact our technical department.
**Actuator Line**

**Plus System**
High performance linear actuators with steel re-enforced driving belt transmission. They have a high level of protection.

- High protection for dirty environments.
- High working cycles.
- Available with fixed carriage and movable profile for Z axis solutions.
- High dynamics: $v=5 \text{ m/s}$, $a=50 \text{ m/s}^2$.
- High repeatability accuracy: ±0.05 mm.
- Anti-corrosion version available with stainless steel components.

**Clean Room System**
Clean Room certified belt driven linear actuators.

- High dynamics: $v=5 \text{ m/s}$, $a=50 \text{ m/s}^2$.
- Low particles emissions thanks to vacuum system.
- Clean room class ISO 3.
- Anti-corrosion version with components made of stainless steel or suitable surface treatment.
- High repeatability accuracy: ±0.05 mm.
**Actuator Line**

**Smart System**
Qualitative and cost effective belt driven linear actuators.

- Available with fixed carriage and movable profile for Z axis solutions.
- High load capacity with recirculating ball guides.
- Simple structure for effective cost.
- High repeatability accuracy: ±0.05 mm.
- High dynamics: \( V = 4 \) m/s, \( A = 50 \) m/s².

**Eco System**
Simple and protected belt driven linear actuators.

- Lightweight thanks to aluminum profiles.
- Simple structure for effective cost.
- High dynamics: \( V = 5 \) m/s, \( A = 50 \) m/s².
- High repeatability accuracy: ±0.05 mm.

**Modline**
Versatile belt driven linear actuators. They’ve recirculating ball guides or prismatic roller bearings.

- Available with recirculating ball guides or prismatic roller bearings.
- Wide range of aluminum profile sizes up to 360 mm.
- Patented short belt solution for very long multi-axis systems.
- Available with fixed carriage and movable profile for Z axis solutions, even with patented pneumatic counterbalance system.
- Optimal reliability in dirty environments and high working cycles.
- Patented short belt solution for very long multi-axis systems.

**Uniline System**
Belt driven actuators with radial ball bearing sliders.

- Compact Rail linear guides inside.
- Grease free operations possible.
- Optimal reliability in dirty environments.
- High speed: \( V = 9 \) m/s.
- High life and low maintenance.

- Long life and low maintenance.
**Actuator Line**

**Precision System**
High precision ball screw driven actuators.

- Simple and safe maintenance through separate lubrication for ball screw drive and guides.
- High protection for dirty environments.
- Space saving thanks to compact design.
- High repeatability accuracy: ±0.005 mm

**Tecline**
Rack and pinion driven linear actuators. They’ve recirculating ball guides or prismatic roller bearings.

- Suitable for very long strokes thanks to rack and pinion driving system.
- Optimal reliability in dirty environments and high working cycles.
- Multiple independent carriages.
- Wide range of aluminium profile sizes up to 360 mm.
- High load capacities till 4,000 Kg.

**Speedy Rail A**
Self-supporting and self-aligning extruded aluminum linear guides. They can be driven by belt or rack and pinion.

- Optimal reliability in dirty environments.
- High dynamics: V=15m/s, A=10m/s².
- Life time up to 80,000 Km.
- Use as a linear guide or actuator.
- Self-supporting for greatest design freedom.
- Absence of lubrication.
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<th>Linear motion system</th>
<th>Driving</th>
<th>Anticorrosion</th>
<th>Protection</th>
<th>Size</th>
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<th>Max. static moment per carriage [Nm]</th>
<th>Max. speed [m/s]</th>
<th>Max. acceleration [m/s²]</th>
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<th>Max stroke (per system) [mm]</th>
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Reported data must be verified according to the application.

* Longer stroke is available for jointed versions.

* 50 ± 0.05

6000°
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Reported data must be verified according to the application.

* Longer stroke is available for justified version
Increase a robot’s range of motion. Available in 7 different sizes, Rollon Seventh Axis is easy to integrate and can move any type of robot weighing up to 2000 Kg.

**Seventh Axis**

Reported data must be verified according to the application. For more information, please contact our technical department.

**LOAD CAPACITY ACCORDING TO DYNAMICS**

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<thead>
<tr>
<th>Size</th>
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<th>SEV80-2</th>
<th>SEV280-1</th>
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*Lower load - Higher dynamics  Higher load - Lower dynamics*
### Technical Features

#### Reference Section Drive

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<tr>
<th>Product</th>
<th>Rollers</th>
<th>Ball Bearings</th>
<th>Rack</th>
<th>Belt</th>
<th>Drive</th>
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<th>Load supporting cover</th>
<th>Size</th>
<th>Number of profiles</th>
<th>Load capacity with high dynamics* [Kg]</th>
<th>Load capacity with low dynamics** [Kg]</th>
<th>Maximum speed [m/s]</th>
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<th>Repeatability [mm]</th>
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</table>

* The values shown refer to the maximum dynamics reported in this table. The load capacities refer to floor mount version.

** The load capacities refer to floor mount version. For more information, contact the Rollon technical office.

*** Robot example mentioned are approximate. For a correct choice and size of the robot contact the Rollon technical office.

---

### Mounting Options

- **Wall mount**
- **Floor mount**
- **Ceiling mount**

The data shown must be verified on the basis of the application.
**Actuator System Line**

**Multi-Axes Pick and Place**

Multi-axes system for automated feeding of production and assembly lines.

- Short belt technology (patent) system allows very long Y axis.
- Both rack and pinion and belt driving systems allow to move independent groups of carriages.
- Z axis with pneumatic counterbalance allows energy saving and smaller motors.
- Light and stiff aluminum beams allow high dynamics and fast duty cycles.
- Energy chains, safety systems and other accessories is available.
- Both rack and pinion and belt driving systems allow to move independent groups of carriages.
- Energy chains, safety systems and other accessories is available.

**Multi Gantry**

Gantry solutions designed for each specific application in different industrial sectors.

- Short belt technology (patent) system allow very long Y axis.
- Both rack and pinion and belt driving systems allow to move independent groups of carriages.
- Z axis with pneumatic counterbalance allows energy saving and smaller motors.
- Light and stiff aluminum beams allow high dynamics and fast duty cycles.
- Energy chains, safety systems and other accessories is available.
- Both rack and pinion and belt driving systems allow to move independent groups of carriages.
- Energy chains, safety systems and other accessories is available.

**LOAD CAPACITY ACCORDING TO DYNAMICS**

Reported data must be verified according to the application. For more information, please contact our technical department.

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Lower load - Higher dynamics
Higher load - Lower dynamics

**LOAD CAPACITY ACCORDING TO DYNAMICS**

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<table>
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<td>600</td>
<td>300</td>
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</tbody>
</table>

Lower load - Higher dynamics
Higher load - Lower dynamics
**Actuator System Line**

**Transfer Press**

Dedicated solution for transfer press.

- Light and stiff aluminum beams allow high dynamics and fast duty cycles.
- Ready to use solution with high reliability due to 40 years experience.

**Telescopic Actuator - Horizontal**

Double stroke telescopic actuator for metal sheets handling.

- Short belt technology (patent) system allows very long Y axis.
- Integrated lubrication system allows long life and low maintenance.
- Compact and space saving thanks to 3 or 4 stages solutions.
- High dynamics thanks to the multiplication of speed of each level.

**LOAD CAPACITY ACCORDING TO DYNAMICS**

Reported data must be verified according to the application. For more information, please contact our technical department.

**LOAD CAPACITY ACCORDING TO DYNAMICS**

Reported data must be verified according to the application. For more information, please contact our technical department.
Actuator System Line

Telescopic Actuator - Wall Mounted

Double stroke telescopic actuator with vertical axis for pick and place in limited spaces.

Telescopic Actuator - Z

Vertical telescopic actuator for pick and place in limited ceiling height.

LOAD CAPACITY ACCORDING TO DYNAMICS

Reported data must be verified according to the application. For more information, please contact our technical department.
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