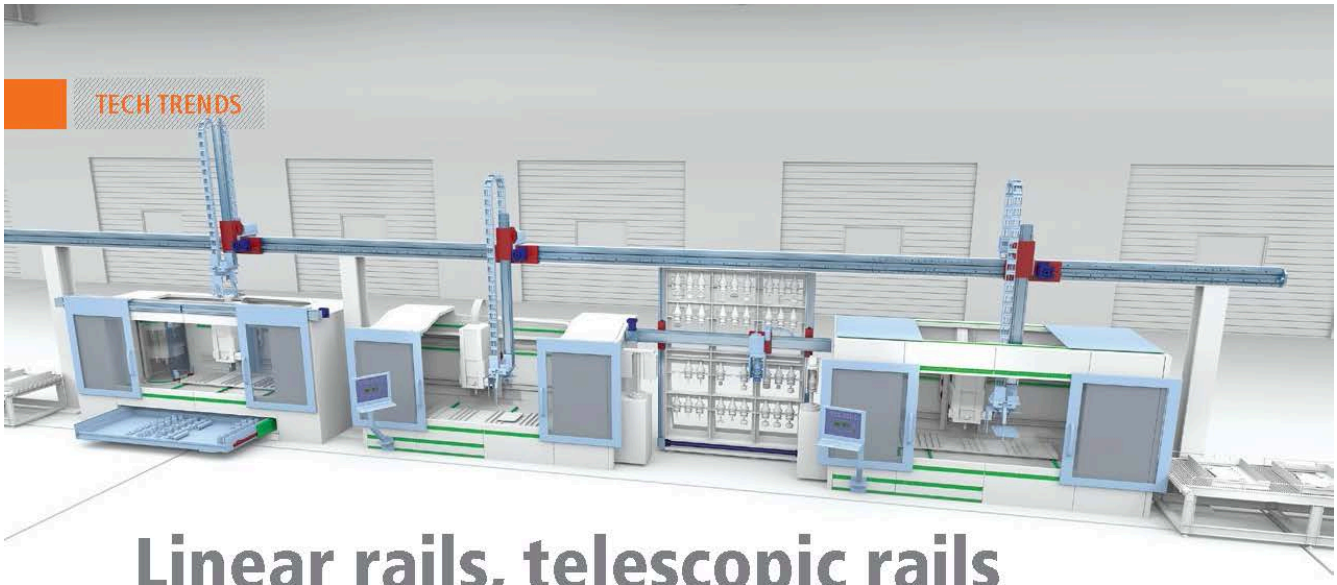
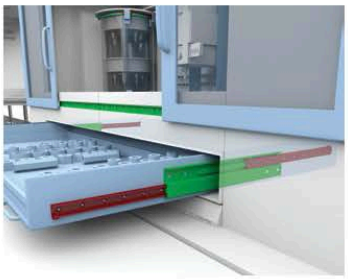



# Linear rails, telescopic rails and actuators Rollon for better performing machines

The Italian company Rollon, a specialist in the production of linear motion systems, continues to grow and increase its strong points: the product, with a range that is now one of the most complete and competitive; their know-how, gained through specific expertise in complex Cartesian systems and integrated solutions; and the ability to create and perfect highly specialized and customized solutions able to satisfy any need.

The linear rails, telescopic rails and actuators made by Rollon ensure proper function and improved performance of machine tools. In fact, industrial machines are supposed to guarantee efficiency in the production process: machining centers, cutting machines, painting machines, and machines for processing wood or marble must be able to run smoothly for long periods of time, often with demanding cycles and in critical conditions (presence of liquids, process residue, contaminants or corrosive substances). Problems during operation or machine down time result in loss of efficiency and additional expenses. Each component must, therefore, contribute to the optimal operation of the machine, and ensure maximum reliability, considerable simplicity during assembly and/or replacement phases, and reduced maintenance.



## A complete range of solutions for machine tools

Solutions for several linear motion applications for industrial machines are available through the use of **Rollon linear rails**, such as lateral sliding of protective devices, the movement of control panels or the movement of tools in machining centers. These rails have the ability to absorb misalignments, especially the rails in the product family **Compact Rail**, and they guarantee important advantages to industrial machine manufacturers in applications of this type. They make it possible to lower the costs of uniforming the surfaces of machines, which are often irregular, or to manage movement efficiently even without a rigid structure: under these conditions, an excessively rigid system would not be able to operate correctly. Furthermore, the use of ball bearing sliders makes it possible to maintain excellent quality of sliding even in the presence of process residue or contaminants (sawdust, powders, etc.)

Manufacturers of industrial machines, to manage the extractions of compartments or components from machines during maintenance, can instead use the **Rollon telescopic rails**. The **Telescopic Rail** family, in particular, is used in the field of heavy duty extractions. Its high load capacity is



*to be continued*

guaranteed by hardened raceways and reduced deflection, which allow maximum efficiency and complete ergonomics, with extractions of up to 200% of the length of the rail.

The acquisition of the Italian company Tecno Center has allowed Rollon to consolidate its own know-how in the field of Cartesian robotics and integrated mechanical solutions to create the **Actuator System Line**, the product line dedicated to industrial automation that offers several solutions for machine tool automation.

Offered in the Actuator System Line, **Cartesian systems** with multiple vertical axes are widely used to automate machining centers. Vertical axes can be independent, thanks to the rack and pinion drive on the Y axis, or they can be coordinated amongst themselves with rigid connections and paired with a short belt drive on the Y axis. Rollon also offers a pneumatic load compensation system on the Z axes that, because of a cylinder inside the profile of the axis, makes it possible to reduce the motor size and consumption requirements.

The **Telescopic Actuator** is another example of an automation solution from the Actuator System Line. This solution is a telescopic actuator able to move in one or more directions for a stroke length that is equal to or greater than its own length in a closed position, which guarantees greater availability of space and thereby saves money.

It can be used in several different directions of movement: horizontal, vertical or wall mounted. In the first case, the telescopic actuator allows presses mounted in series to be powered with a single central unit that can extend on a double stroke. With a vertical installation, instead, the extreme compact size of the system in its closed position renders the telescopic actuator ideal for use in applications in which the client does not have sufficient space between the machine and the ceiling to install an arm that can be lifted for the same pitch of the stroke. Lastly, in a wall-mounted solution, the telescopic actuator facilitates the automation of machine tools where there is the need to not have hindrances in the closure of protection doors, thanks to the possibility of automating the machine and then clearing out.

**Seventh Axis** is a shuttle system designed to increase the range of action of anthropomorphic robots. It is easily integrated into any type of robot, up to 2000 kg, and the frame is made of anodized aluminum profiles that offer considerable benefits in terms of weight, transportability and modularity, while maintaining a high degree of stiffness. The linear rails have either a roller recycle system or a ball recycle system, with a belt drive or rack and pinion drive with ground inclined teeth. The Seventh Axis range is structured in seven different solutions that can be combined with different robots. To operate more efficiently also in dirtier environments, there are also three versions of protection systems. Lastly, the system can be configured for assembly with tracks on the ground, walls or ceiling.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