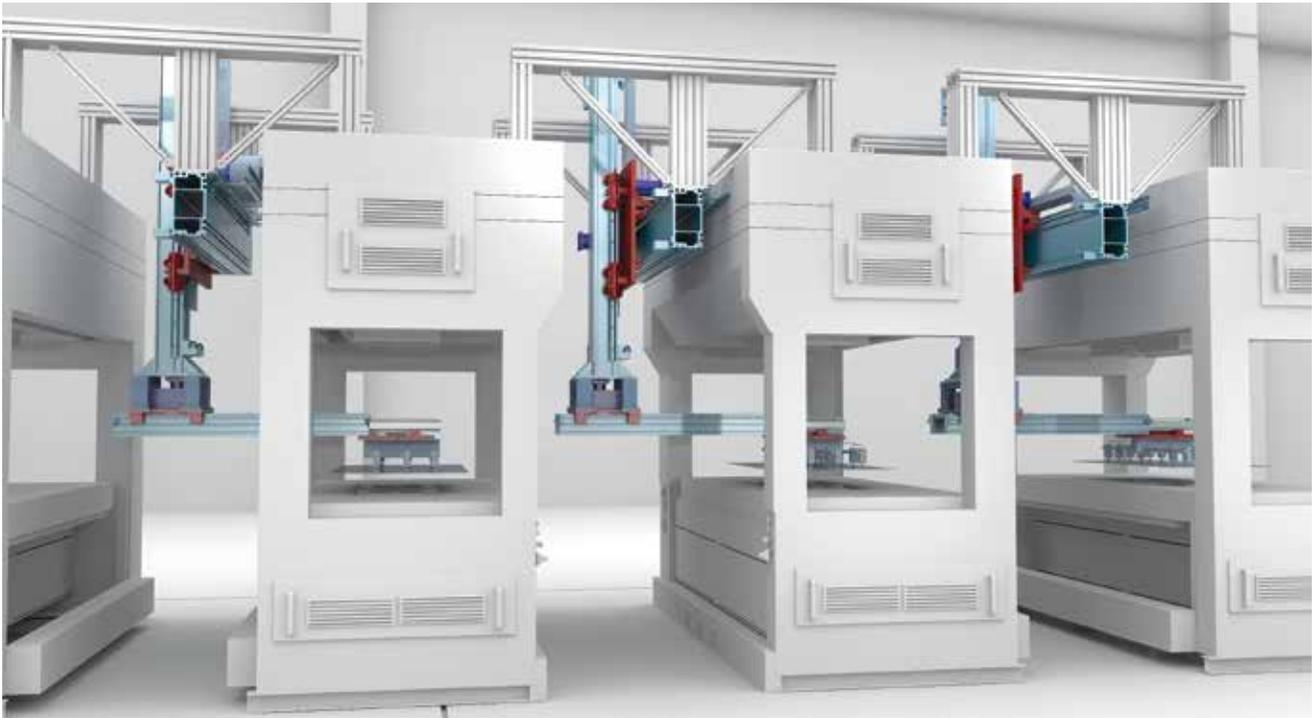


# From **Rollon** the new telescopic actuator for effective linear movement with minimum overall dimensions

An extremely compact solution from the Italian Group to solve various handling problems in the industrial sector, optimising space, reducing process times and minimising stress on mechanical components



**Rollon's telescopic actuator horizontally mounted for press feeding.**

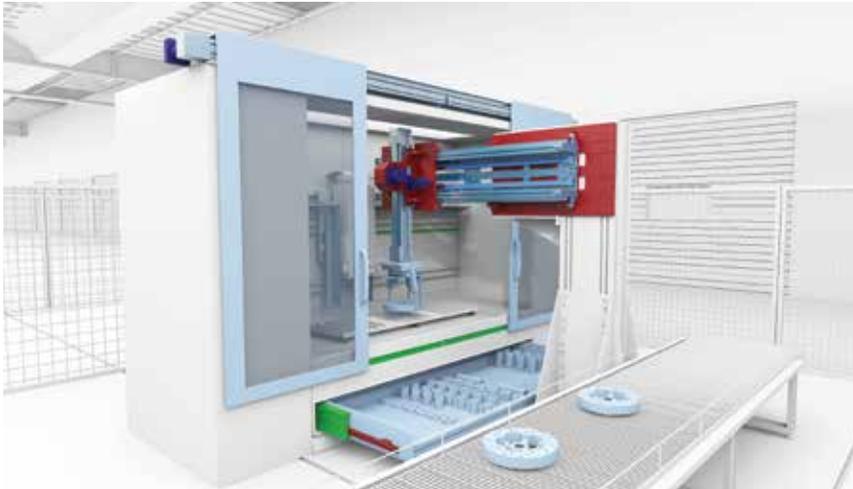
**ROLLON**<sup>®</sup>  
Linear Evolution

**A** compact versatile system, designed for effective linear movement in a range of applications that require minimal overall dimensions in the industrial sector, reducing process times and minimising stress on mechanical components; this is the new telescopic actuator from Rollon, the leading Italian company in the production of linear and telescopic guides and actuators for various sectors, represented in India with a branch office in Bangalore.

The new telescopic actuator is able to move in one or more directions with a travel equal to or greater than its own length in the closed position: For example, a system of length 1,500 mm can extend by 1,500 mm in one direction or the

opposite direction. The main advantage of the telescopic solution lies in the possibility of operating in very small spaces, offering the user greater availability of space in the workshop and consequent savings on costs.

The system can be used in different directions of movement, horizontal, vertical or wall mounted, an aspect that makes it very flexible and utilisable in various layouts and directions. The system was conceived as a horizontal movement solution to feed presses installed in series with a central unit that could extend in both directions, feeding a press in one direction, closing and then feeding another in the other direction. Thus when the actuator is closed it does not occupy



**Rollon's telescopic actuator wall mounted for pick and place solutions.**

space in the two presses and this makes it possible to feed both with a single system.

The product was later adapted to different application situations, from loading and unloading systems of machine tools to handling objects along an assembly line.

With a vertical installation the extreme compactness of the system in the closed position makes the Rollon telescopic actuator the ideal solution for working in applications where the client does not have sufficient space between the machine and the ceiling to allow an axis to rise by the same distance as the travel.

In the case of a wall mounting instead the telescopic actuator facilitates the feeding of machine tools, where obstructions in the closure of protective doors must be avoided, thanks to the possibility of

feeding the machine and then retracting.

The advantages offered by the new Rollon telescopic actuator are not limited only to optimal utilisation of space. The basic parts of the system are in face synchronised and connected with each other in a toothed belt system so if just one part is moved then the last part is also moved. This is a feature that translates into a clear benefit in terms of multiplication of the speed. The movement of the first element also produces movement of the second extension thus doubling the speed even though only one part is moved at a lower speed. This has advantages in terms of reducing process times and stress on mechanical components since the single mechanical component moves at half the speed of the system as a whole. Furthermore, since the system is synchronised

by a toothed polyurethane belt there is not need for maintenance or lubrication, unlike rack and pinion synchronising systems.

The product consists of components which are for the most part standard, or at least already existing in the full Rollon range, which are assembled in a telescopic system and this represents a further advantage for the client who can then rely on components already put to the test in other applications. Rollon supplies the client with all the mechanical components up to the point of the reducing gear. All the client needs to do is connect the motor and controls in order to have a solution ready to use. The Rollon telescopic actuator is also highly suitable for customising, especially in terms of dimensions and travel, which means that the company is not limited to offering only catalogue items but can adapt units together with the client to resolve any linear movement problems in terms of available space and work loads, developing the product even further through co-design.

The new telescopic actuator therefore offers a concrete example of the growth strategy of Rollon which over the years has perfected the know-how necessary for diversification and extending its offer with a range of complementary products, a strategy which also involves the acquisition of various other manufacturing companies. In the case of the new actuator, the Group has exploited the capabilities of Tecno Center, a company based in Turin taken over in January 2015, to develop a system capable of meeting the specific needs of the individual client and confirming Rollon as a global provider of linear movement solutions.

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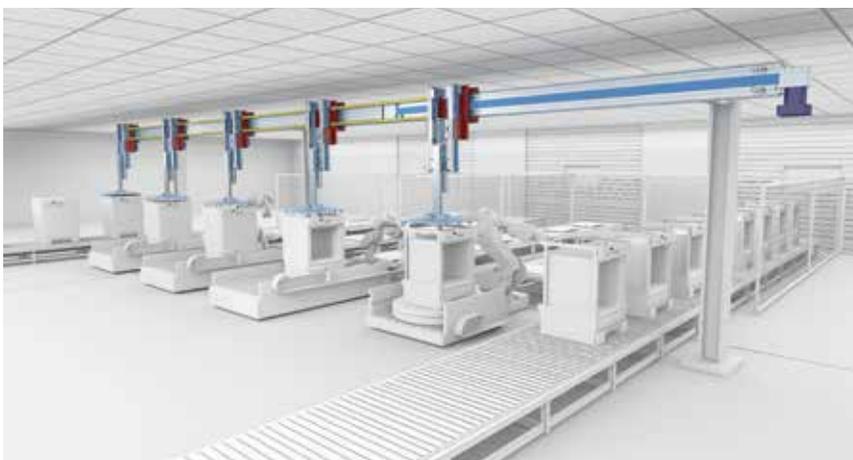
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**Rollon's telescopic actuator vertically mounted for space saving solutions.**