



press release 08/2018
robot-mechanic RLZ

World first: Delta robot mechanics with double z-stroke

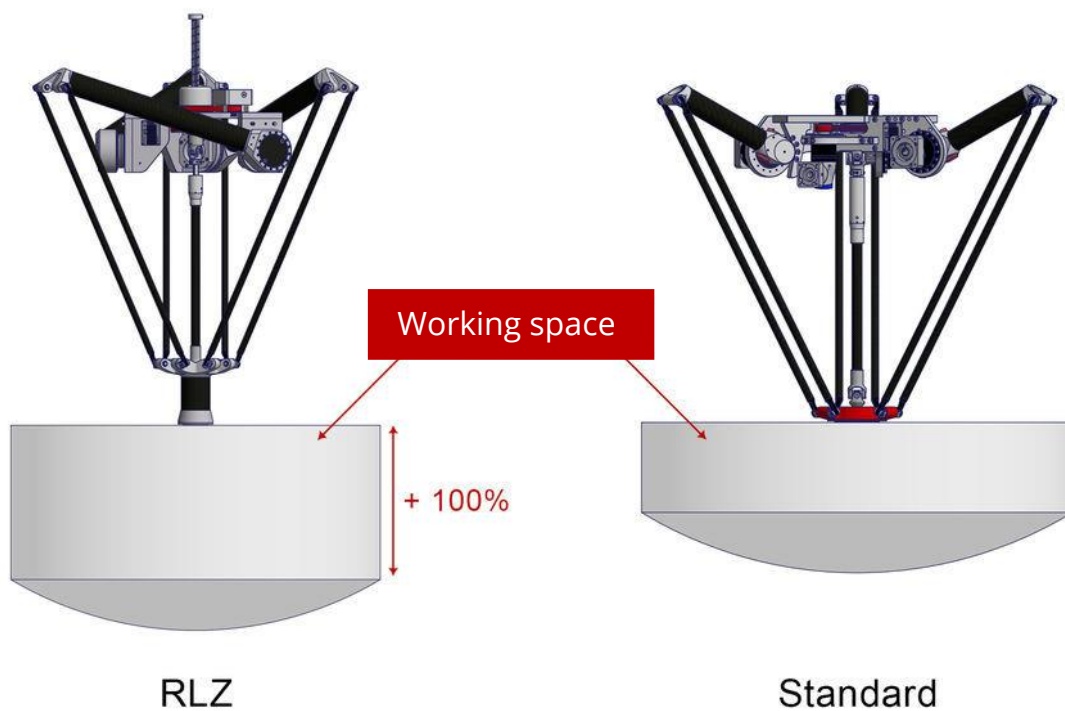
autonox24 has made a name for itself around the globe with its broad product portfolio of parallel kinematic robot mechanics. With the RLZ, the automation specialist is now launching a world first with extremely high z-stroke.

Same size - double stroke: This simple formula describes the new RLZ from autonox24. Thanks to its special design with cranked upper arms and the movable universal joint, the new Delta robot mechanism from in the South Germany-based component supplier offers double z-stroke compared to standard Delta robots of the same size. This is of particular interest for applications in the packaging industry: the significantly greater z-stroke makes the RLZ ideal for packaging in deep containers.

The RLZ is currently available for nominal loads of 3 kg and with a working diameter of 1,200 mm and 4 degrees of freedom. The product range is gradually being expanded and, similar to the standard RL kinematics, a product catalogue will be created so that the RLZ is also available for nominal loads of up to 50 kg and working circle diameters of up to 2,000 mm. With a repeat accuracy of ± 0.1 , the new robot mechanics positions with pinpoint accuracy. An extension on the tool carrier ensures that the forearms of the robot do not collide with interfering contours, especially when dipping in deep containers. In the future, parallel kinematics can be supplemented by an integrated tool changing system, an additional tool shaft for gripper manipulation and an internal media supply.

Like all autonox24 robot mechanics, the RLZ can be operated with every control system. The entire automation process can be implemented on one control platform. The autonox24 mechanics are mainly maintenance-free and convince by high performance and highest availability. Thanks to Customized Design, company-specific design adaptations are possible for all products.

Powerful, robust and compact - thanks to its small footprint and extremely high z-stroke, the RLZ can be used wherever the available space is limited and the required stroke is large. With its features, it is a real alternative to serial portal axis and 6-axis robots in many applications, which operate much more slowly and are also more expensive.



parallel kinematics with extra large working range



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