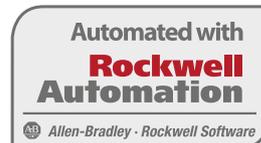


# Solutions in Action



More than 120 robot mechanics with different degrees of freedom, payloads, areas of operation and options are in the meantime being offered via the autonox24 brand.



Allen-Bradley CompactLogix Steuerung



Allen-Bradley Kinetix 5700 Servoantriebe

**MAJAtronic** is a company which began specializing in the development of “naked” robot mechanics in the year 2005. The brand autonox24, which is the result of this approach, primarily represents two factors: Parallel kinematics made in Germany and control-independent solutions. “According to our experience, machine engineers and final customers are generally interested in uniform control landscapes – without any kind of interface topics. As a consequence, everybody – if in any way possible – wants to operate the own robots with the same technology as the one found in the basic machine. In order to take this demand into account, we have focused our development activities on pure mechanics without motors, cables and controls,” states MAJAtronic President Hartmut Ilch, describing a business model that is becoming increasingly popular. This does not come as a surprise: More than 120 robot mechanics with different degrees of freedom, payloads, areas of operation and options are in the meantime being offered via the autonox24 brand. Every customer can therefore find the solution that optimally fits his application scenario – no matter whether he wishes to assemble, sort, pack, handle or inspect his various parts. “Of course a lot of our models are utilized for a wide range of packaging activities. The nice thing about robotics, however, is that it is entering into different industries and applications,” states Hartmut Ilch, visibly happy with the major demand for parallel kinematic robot mechanics on the market.

LISTEN.  
THINK.  
SOLVE.



A bestseller in the autonox24-portfolio: The DELTA robot kinematic RL4, designed for a net payload of 6 kilograms.

The DELTA robot kinematic RL4, designed for a net payload of 6 kilograms, is among the absolute bestsellers from the autonox24 product offering. Featuring three translational axes plus a telescopic tube, this robot is ideal, amongst others, for pick and place tasks where it is important to work "on the flow", i.e. relatively fast in standard operation. "An actual example for such a utilization scenario would be an installation with two conveyor belts running in opposite directions. The robot picks up the product from one of the belts, rotates, and then has to place it on the other belt in a different position," says Hartmut Ilch, describing an application scenario that was solved with Allen-Bradley® components for an American customer: Specifically with a CompactLogix™ control system, with Kinetix® 5700-EtherNet/IP servo drives and with VPL servo motors. In this context, the servo motors are responsible for the pivoting of the three upper arms of the robot. They therefore have to be very dynamic, must be able to accelerate quickly and be able to handle high speeds. "As we receive many customer requests from the USA and because Allen-Bradley is more or less the standard overseas, we have already been working together with Rockwell Automation on a regular basis for many years. A few weeks ago I visited some customers in the USA and all of them said: Excellent, we can now finally realize a seamless solution from the machine right up to the attached robot control system," says Hartmut Ilch, referring to one of his business trips. And although the brand autonox24 offers entirely differing robot mechanics with two to five axes as well as payloads from 0.5 to 350 kilograms, some of them even executed in a "Hygienic Design", perfectly matching controls and motors have so far always been found in the product portfolio of Rockwell Automation. "And the good thing?

Everybody knows Rockwell Automation and nobody has doubts as to whether this company – no matter whether in Brazil, Australia or anywhere else in the world – will offer corresponding support as well as prompt delivery. This is also enormously important for our customers," explains Hartmut Ilch.

The increased interest in autonox24 parallel kinematics robots fitted with Allen-Bradley components has resulted in the contact between Rockwell Automation and MAJAtronic significantly increasing over the past weeks and months. In the meantime the partnership extends even into the development departments, reveals Hartmut Ilch. For example, a five-axes autonox24 robot with a payload of one kilogram was recently shipped to the USA in order to test the new transformation software from Rockwell Automation on it. "The Rockwell Automation software packages are truly future-oriented. This is also something our customers have confirmed. The kinematic transformation is integrated into the firmware and can be easily configured. The integrated load observer manages the changing payloads that are typical for a Delta robot in real-time. Complex parameterization or test runs are no longer necessary, as it can be activated per click of the mouse," explains Hartmut Ilch and adds: "Getting a robot to optimally run poses a certain challenge. On the one hand you have extreme accelerations, on the other hand you have targeted delays and every single one of these movements demands absolute precision. This means: The so-called control quality needs to be complied with and this is something Rockwell Automation has fully under control. They know how that works!"

**For additional information please contact:**

Hartmut Ilch  
MAJAtronic GmbH  
Phone.: +49 7854 184-0  
E-mail: [info@majatronic.de](mailto:info@majatronic.de)  
[www.autonox24.de](http://www.autonox24.de)

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**Power, Control and Information Solutions Headquarters**

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleerlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846