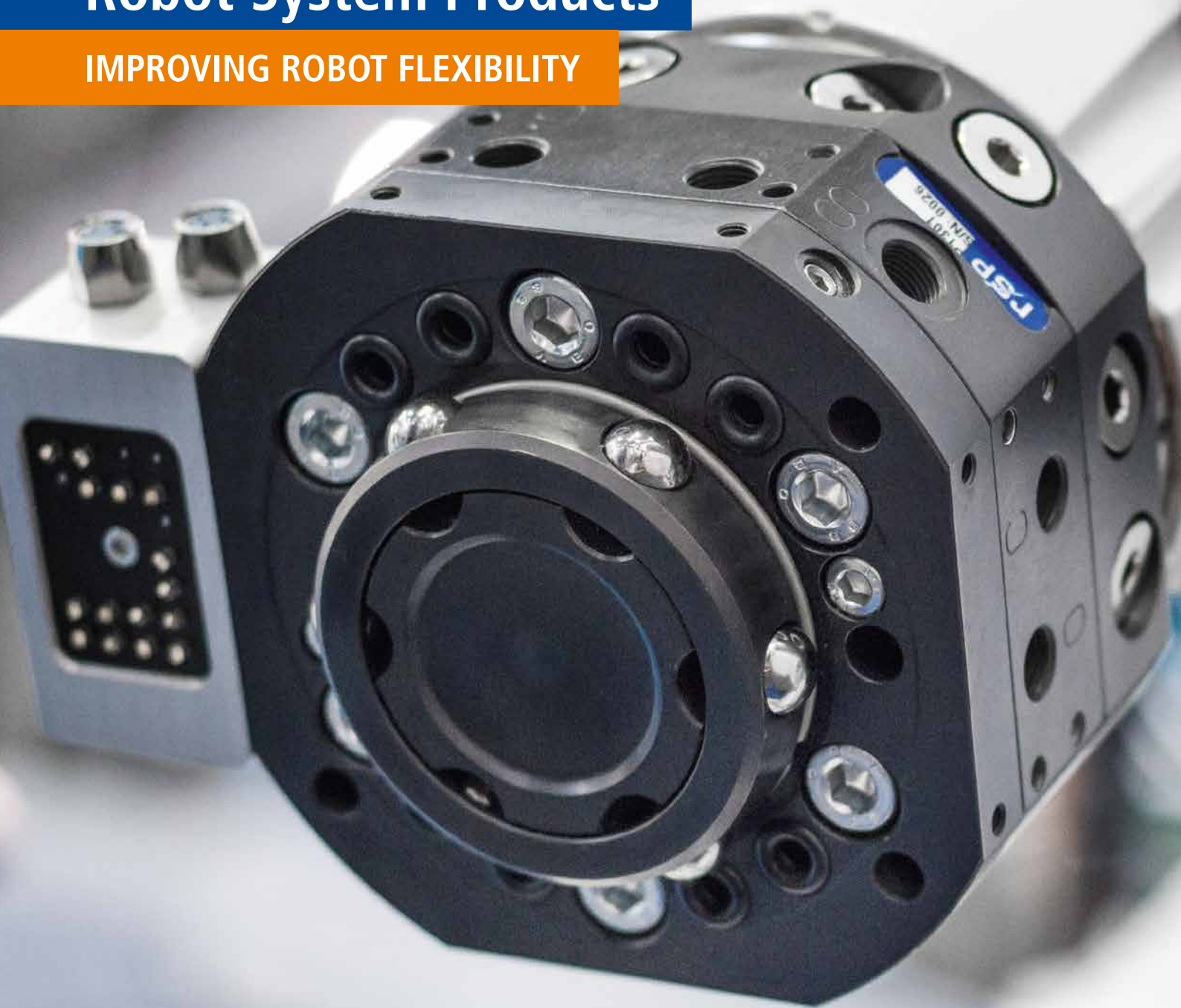


Robot System Products

IMPROVING ROBOT FLEXIBILITY



Tool changers | Swivels | Swivel tool changers | Hose packages | Valve units | Grippers | Tool systems | Tool stands



WELCOME TO ROBOT SYSTEM PRODUCTS



Robot System Products established itself as an independent business in 2003 as a management buyout from ABB Robotics. Our growth has been remarkable. Starting with an initial four person team, RSP has flourished to more than 50 direct employees in Sweden and Germany. With our worldwide family of distribution partners, we service over 20 countries for local and global needs.

RSP's most important asset is our employees. With hundreds of years of combined product knowledge, we take a straightforward approach to solving the challenges unique to industrial robotics.

Grounded by our roots in robotic peripheral research and development, we develop, manufacture and support world exclusive products such as our swivel tool changers. To better support the growing industrial robot market, we annually release several new products after exhaustive testing to document the predictive product life. Working with Sweden's environmental objectives as a stable ground, we focus on reduced environmental and climate impact through responsible action and continuous improvement of our processes.

We look forward to delivering long lasting, cost-effective robotic peripheral product solutions that fulfill the challenges you face.

Ola Wallster
CEO Robot System Products, Sweden

IMPROVING ROBOT FLEXIBILITY

Located in Västerås, Sweden, Robot System Products is a global leader in high-performance industrial robot peripheral products.

Our expertise is to provide tested and "field proven" robotic system solutions that improve robot flexibility, utilization and uptime. From our position at the forefront of the latest robot models and advances, we offer a full line of documented plug & play robot dress solutions, as well as individual peripheral items that work with all major robot brands and models.

By continuously exploring emerging technologies, RSP designs, validates, manufactures and delivers solutions with engineered advantages that are proven to endure millions of duty cycles.

We offer:

- Tool changers
- Swivels
- Swivel tool changers
- Grippers
- Hose packages
- Valve units
- Tool systems
- Tool stands

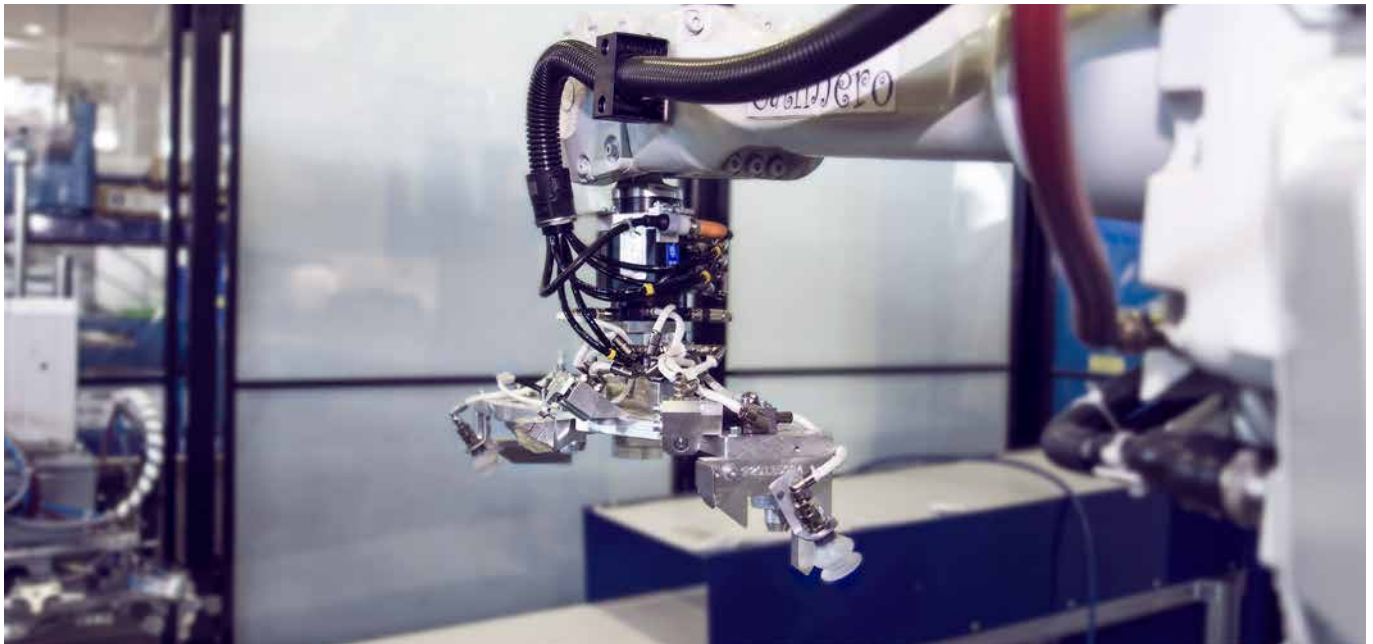


Industry leading longevity and positional accuracy

All our tool changers feature the patented locking device, TrueConnect™. It reduces play to the minimum and enables absolute alignment repeatability throughout its lifespan. With its unique design, it does not require exact alignment before docking with different tools.



CASE - GLUING MADE EASY!



When the German company FRIMO established a plant for gluing interior fittings for the car industry, the opportunity to fully utilize its robots' mobility was decisive. Equally significant was the capacity to automatically change tools with precision and maintained function. The choice fell on the swivel tool changer from Robot System Products.

FRIMO is a market leading supplier of production tools and solutions for thermoforming, laminating and edge folding of plastic components. The requirements on robot flexibility and free movement are vital in their applications, above all this applies to gluing where an even and exact distribution is crucial for the quality.

For full accessibility, 6-axis robots which can perform their tasks without restrictions are needed. The high level of complexity also requires axis 6 to be fully utilized without being restricted by cables and hoses. Automatic tool changing, with maintained function and precision, is necessary from an efficiency perspective. It is here the benefits of RSP's combined technology for free rotation and tool changing comes into play.

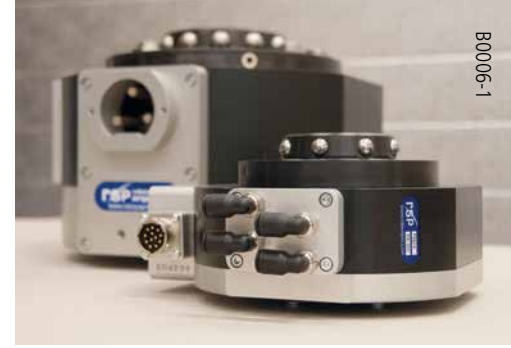
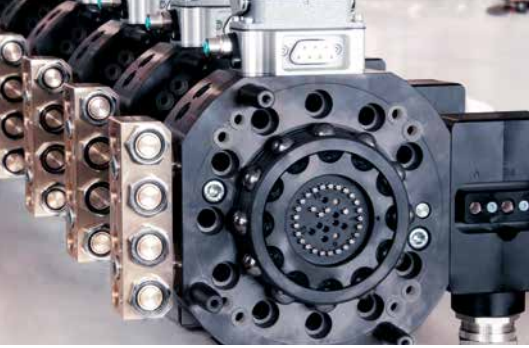
With RSP's swivel tool changer, compressed air and electrical signals are transmitted to the robot's tool without affecting its

capacity to move. The hose unit stays close to the robot's arm even during complicated manoeuvres. The patented locking mechanism TrueConnect™ guarantees precision and reliability during tool change.

Simon Pöllner, responsible for design of production plants at FRIMO, is satisfied with the solution. With RSP's technology, complicated methods for handling freely hanging cables and hoses are avoided and no additional space needs to be reserved. The programming becomes easier and the hose unit's service life increases significantly. An additional benefit, he emphasises, is the swivel tool changers' compact design and the fact that the centre of gravity is close to the robots' turning disc.

FRIMO

FRIMO is a globally leading supplier and partner within plastic processing. They offer complete production lines as well as custom tools and machinery within a wide range of areas including polyurethane processing, thermoforming, joining and mechanical plastic machining. The product portfolio includes solutions for mass processing of composite material and fibre-reinforced plastic products.



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MEET TWO OF OUR PARTNERS



NAME: Johann Aulila
COUNTRY: Germany
ROLE: Managing Director, RSP Germany
YEARS WITH RSP: Since 2012

MARKET OUTLOOK: Germany is talking about “industry 4.0”, the smart factory of the future. A big part of the “Industry 4.0 movement” is industrial robotics and digital communications solutions. In the smart factory of the future, all robotic operations will handle different tasks without operators to assist in “change-overs”. RSP tool changers, swivels and swivel tool changer solutions address these challenges. RSP equipment supports high dynamic loads while passing through challenging robotic media items, such as servo signals, video signals, bus signals, weld power, pneumatics, hydraulics, cooling water and other control signals.

YOUR STRENGTHS: RSP is recognized for its innovative, leading edge products in addition to expert support and superb customer service. With our sales-force and team of engineers, we offer our clientele a wide variety of products, solutions and a hands-on customer service approach. RSP, coupled with our internal resources, offers integrated and customized tool systems for the majority of Robots on the market!



NAME: Josh Haag
COUNTRY: USA
ROLE: President, Essential Robot Products
YEARS WITH RSP: Since 2010

MARKET OUTLOOK: The Market Outlook in the United States shows continuing signs of growth in the automation sectors in the short, mid and visible future. Part of the growth in the US Markets is the direct result of a “re-shoring” effort. The re-shoring effort’s focus is to bring many of the manufacturing jobs that were once lost to lower-cost labor countries back to the US. The re-shoring effort is made possible only through automating the manufacturing operations here. In addition to the standard push to reduce labor costs, other factors propelling the movement forward are, demands for improvements in safety, quality, and shortening of supply-chain pipelines. These are just a few components that are continuing to fuel the US automation market.

YOUR STRENGTHS: As the face of RSP in the North American Marketplace, Essential Robot Products, INC is bringing the RSP products to the market through face-to-face communications among other marketing channels. We achieve this objective by conveying the technical, cost-of-ownership and additional RSP product advantages. As our customer’s conduit to purchase RSP products and provide engineering support, we also support our customers fast-paced demands in the areas of: product knowledge, front-line engineering, product support, Customs assistance and auxiliary service needs.

IMPROVING ROBOT FLEXIBILITY