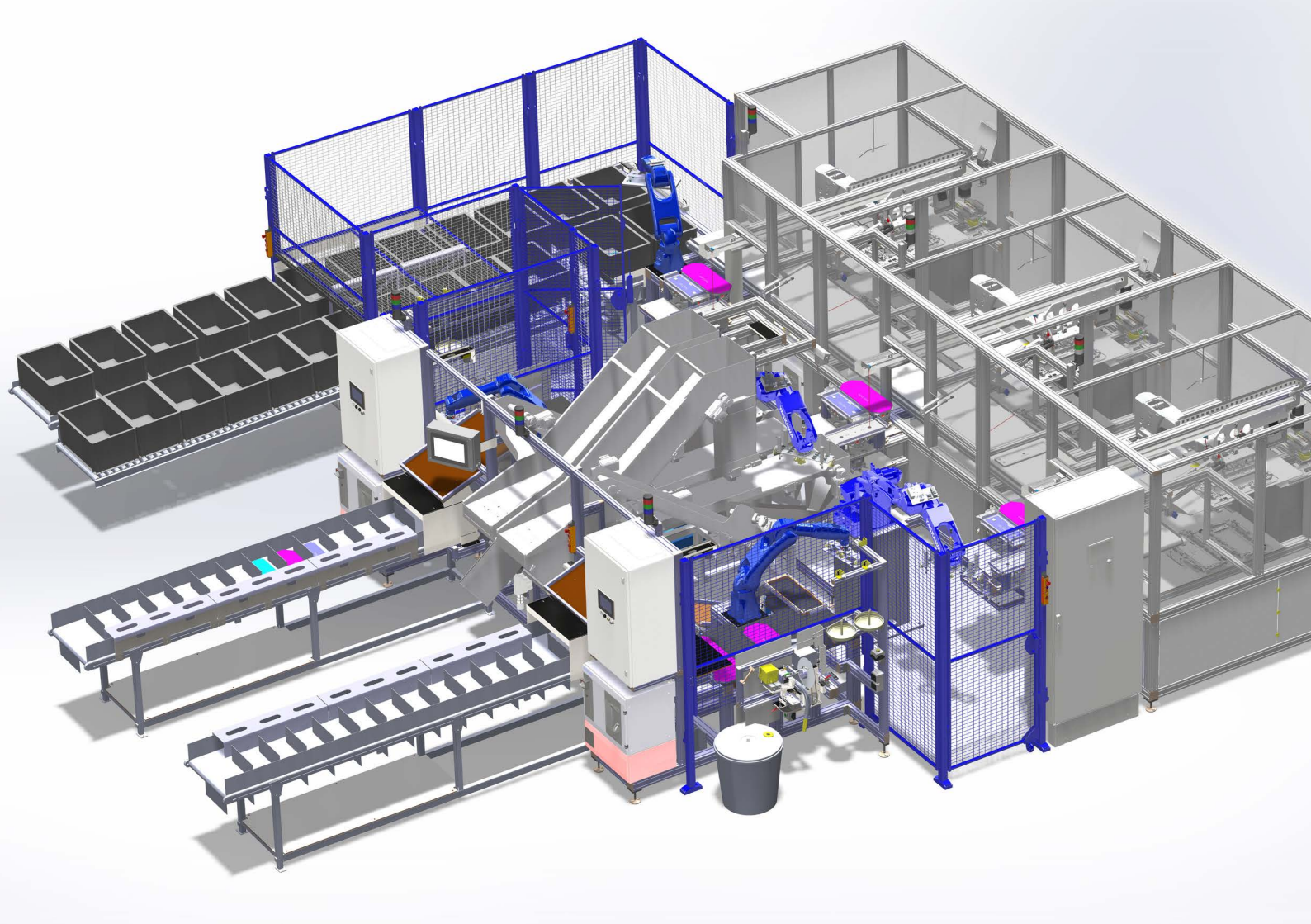




AUTOMATION TECHNICS

WE AUTOMATE YOUR PRODUCTION PROCESS



AT A GLANCE

- Tailor-made machine concepts according to customer needs
- Privately held company
- Over 40 years of market experience
- Competent R&D department
- Modular equipment
- Design engineering with modern 3-D CAD software systems
- »Made in Germany« manufacturing facility near Stuttgart
- High-end, world-wide available supply parts
- Increased machine operator safety by extensive security analysis
- Worldwide patented solutions



PROFIT FROM OUR UNIQUE CONCEPTS

WHAT CAN YOU EXPECT FROM RSG?

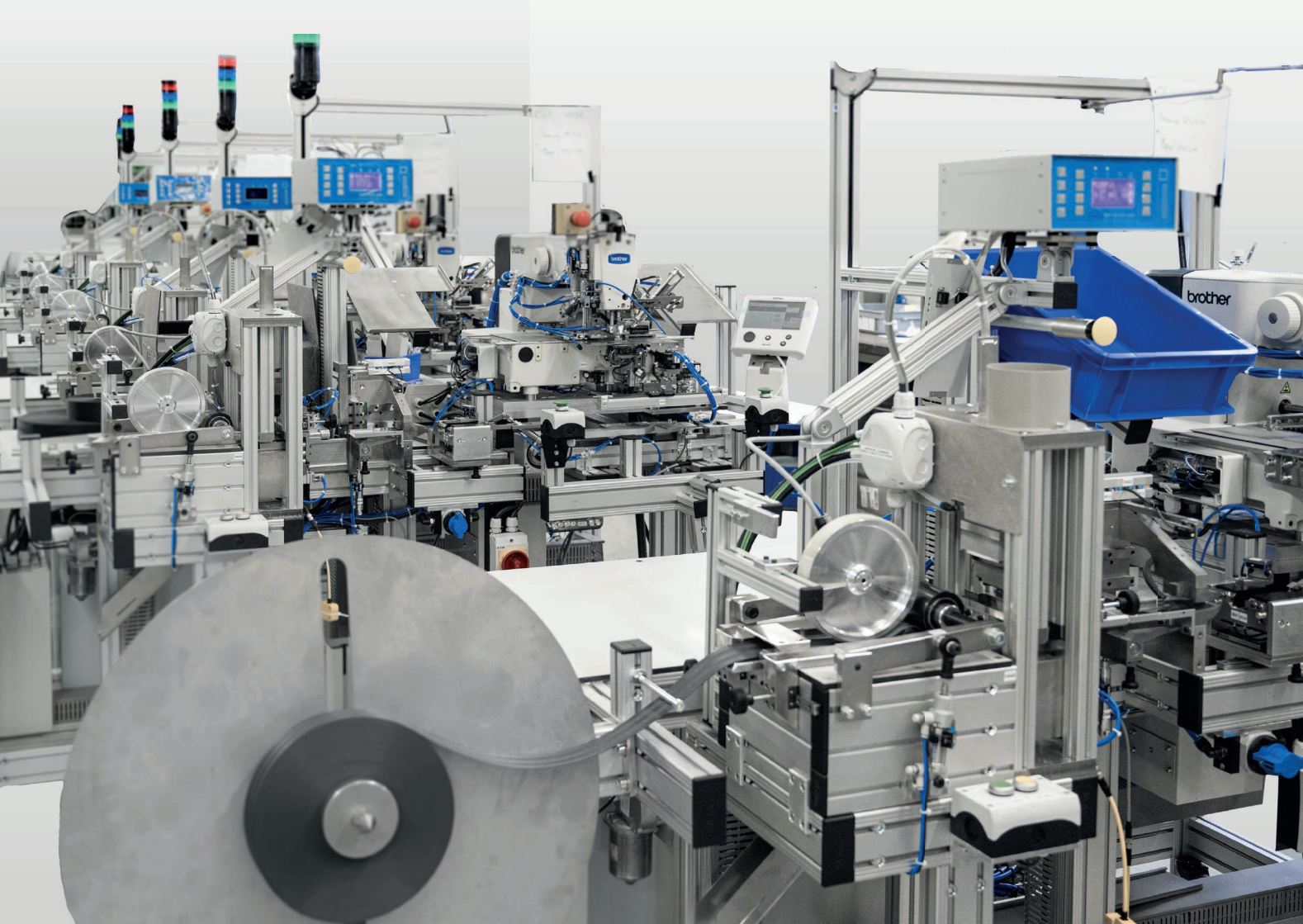
1. ANALYZING OF EXISTING PRODUCTION PROCESSES

2. PROCESS IMPROVEMENT SOLUTIONS

- Automation of the production process
- Tailor made machine concepts
- Universal retrofitting possibilities

WHAT ARE YOUR BENEFITS?

- Marked improvement in production capacity
- Significant savings in labor and production costs
- Avoidance of all process errors
- Visible and monitored product quality improvement



OUR CORE COMPETENCE
INNOVATIVE & PATENTED

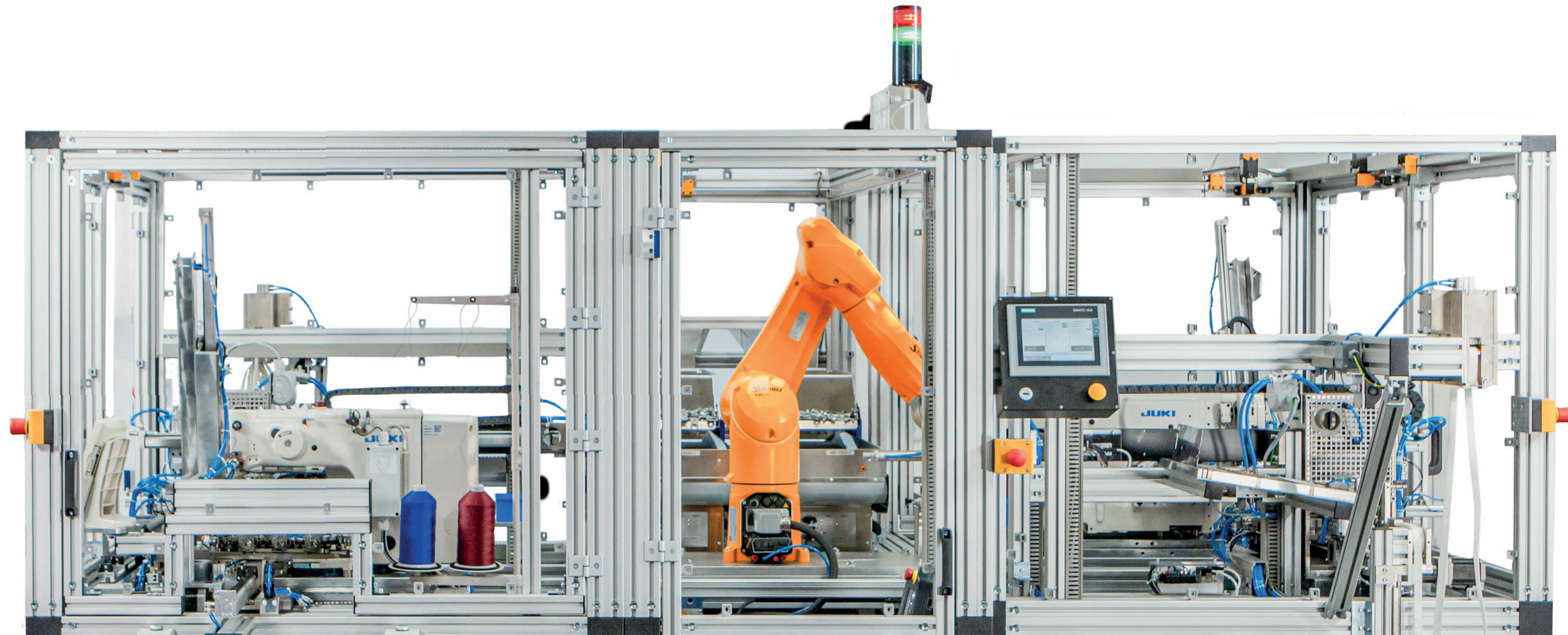
Fully-automated production-lines for
the processing of Narrow-Fabrics:



OUR FACILITY CONCEPTS

RSG IS A COMPETENT PARTNER FOR FULLY AND SEMI-AUTOMATED PRODUCTION LINES AND WORK STATIONS FOR THE FOLLOWING MARKET SEGMENTS:

- Narrow fabrics
- Technical textiles
- Automotive textiles
- Home textiles
- Medical textiles
- Patented monitoring equipment for sewing processes





OUR FOCUS

MACHINE CONCEPTS FOR NARROW FABRICS

NARROW FABRIC MACHINE CONCEPT

RSG "NARROW-MATIC": MULTIFUNCTIONAL MANUFACTURING LINES FOR FULLY OR SEMI-AUTOMATED ASSEMBLY OF ALL NARROW FABRICS, SUCH AS:

- Safety and security belts for cars and airplanes
- Airbags and airbag straps
- Lashings and tension straps / heavy duty belts
- Endless flat slings / flat webbing slings / hoisting belts / lifting slings / loops

OUR LINES COMBINE DIFFERENT PRODUCTION STEPS AND THUS OFFER DRASTIC TIME SAVINGS AND PRODUCTION INCREASES

ALL PRODUCTION STEPS CAN BE DONE ENTIRELY AUTOMATIC
CHOOSE YOUR OPTIONS:

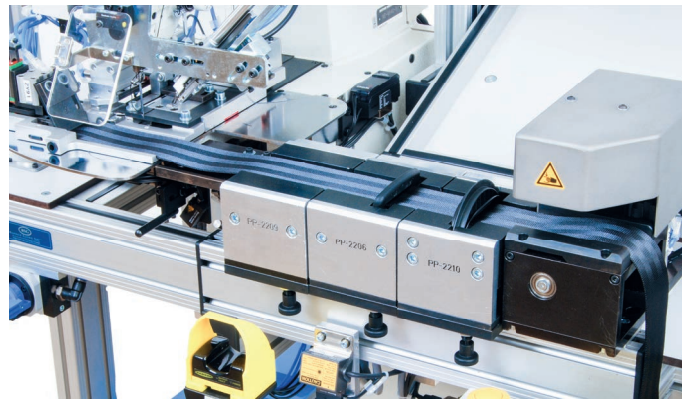
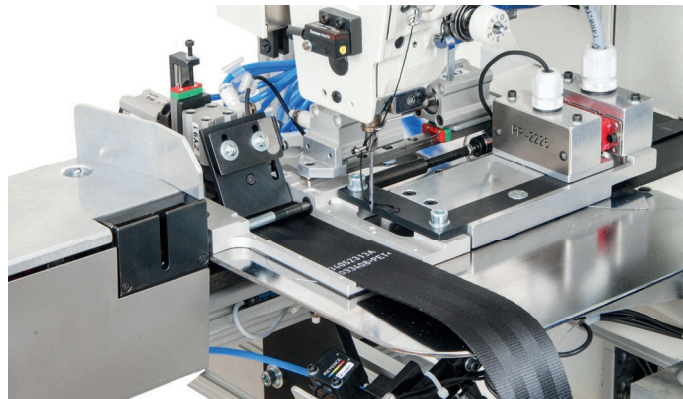
- Automated unrolling, cutting, dispensing, folding, ultrasonic, laser, melting/welding, sewing, rolling, and batching of material
- Automated feeding and processing of hooks, ratchets, and buckles in different sizes and variations
- Marked errors in webbings can be recognized and cut out automatically
- Completed parts can be packed automatically
- Flexible machine concepts usable for all kinds of webbings, straps, belts of different materials, and all buckles, hooks, and ratchets available on the market

SEAT BELT MANUFACTURING CONCEPT

Our unique concepts offer unimagined possibilities for the automated manufacturing of seat and security belts for cars, trucks, buses or airplanes with POKA-YOKE safety measures in all variations.

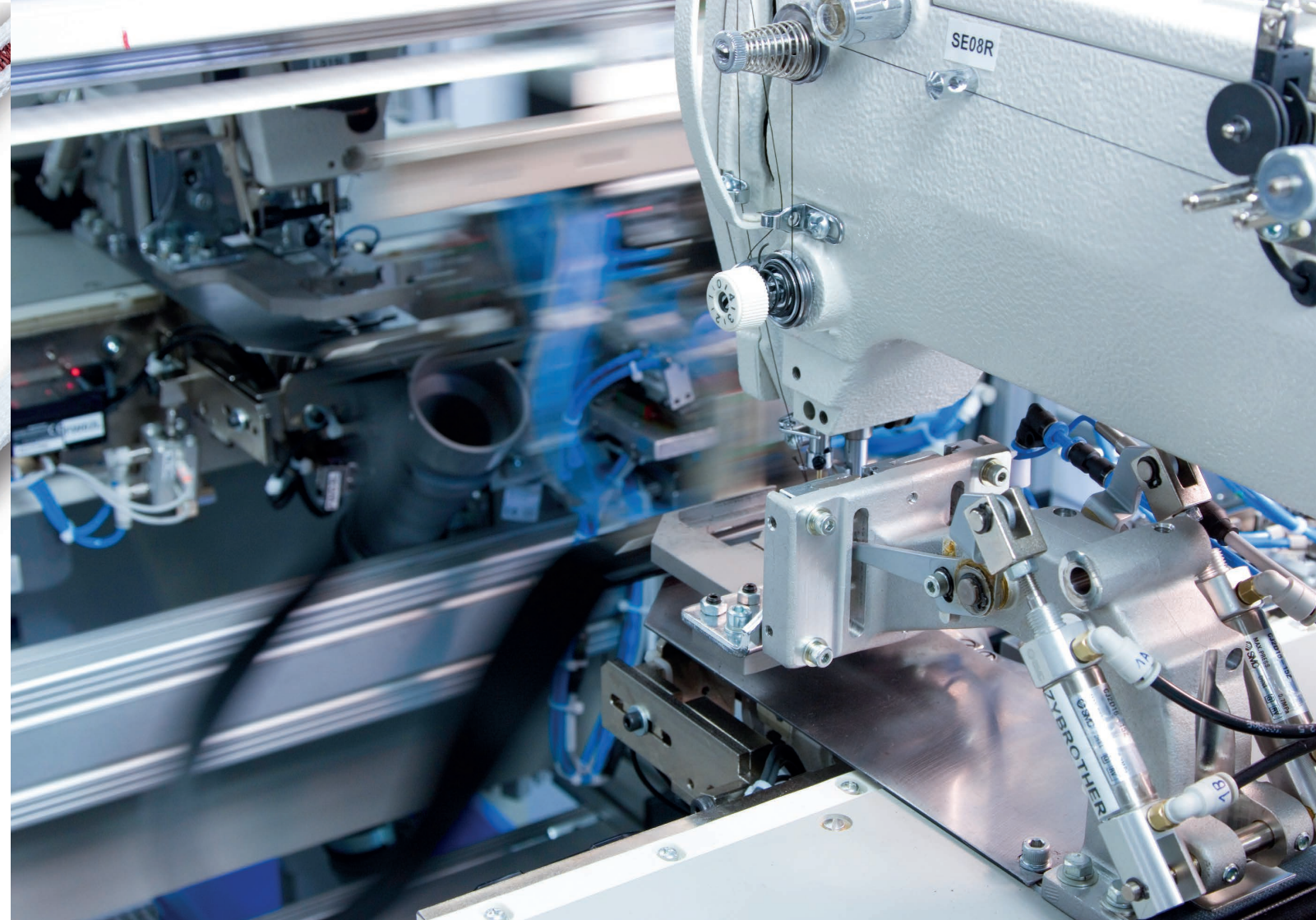
THESE COMPONENTS CAN BE INTEGRATED BY MODULES INTO OUR PATENTED ASSEMBLY LINE:

- Pin feeder, retractor unit, end bracket fitting, special folded webbing loops (silencer, butterfly), long and cross folder, rivet attachment, cliché printer, laser, barcode reader, etc.



AUTOMOTIVE - UNIQUE RSG AIRBAG STRAP LINE

- The innovation: Fully automated process with a cycle time of 2 products in approximately 8 seconds (with tandem line; depending on sewing pattern) for unrolling, correct length cutting, folding, sewing, and stacking
- Optionally available: Automatic insertion of metal brackets
- New: Pick and Place solutions with 6 axis robots



INNOVATIVE ACCESSORIES AND MONITORING EQUIPMENT FOR SEWING MACHINES

OUR REVOLUTIONARY COLOR
THREAD MONITORING SYSTEM:

- Fully automated monitoring of upper and lower threads
- Patented system with uniquely colored bobbins
- Automatic detection of broken threads
- Automatic monitoring of residual thread inside bobbin
- Error prevention during sewing process by Poka-Yoke technology



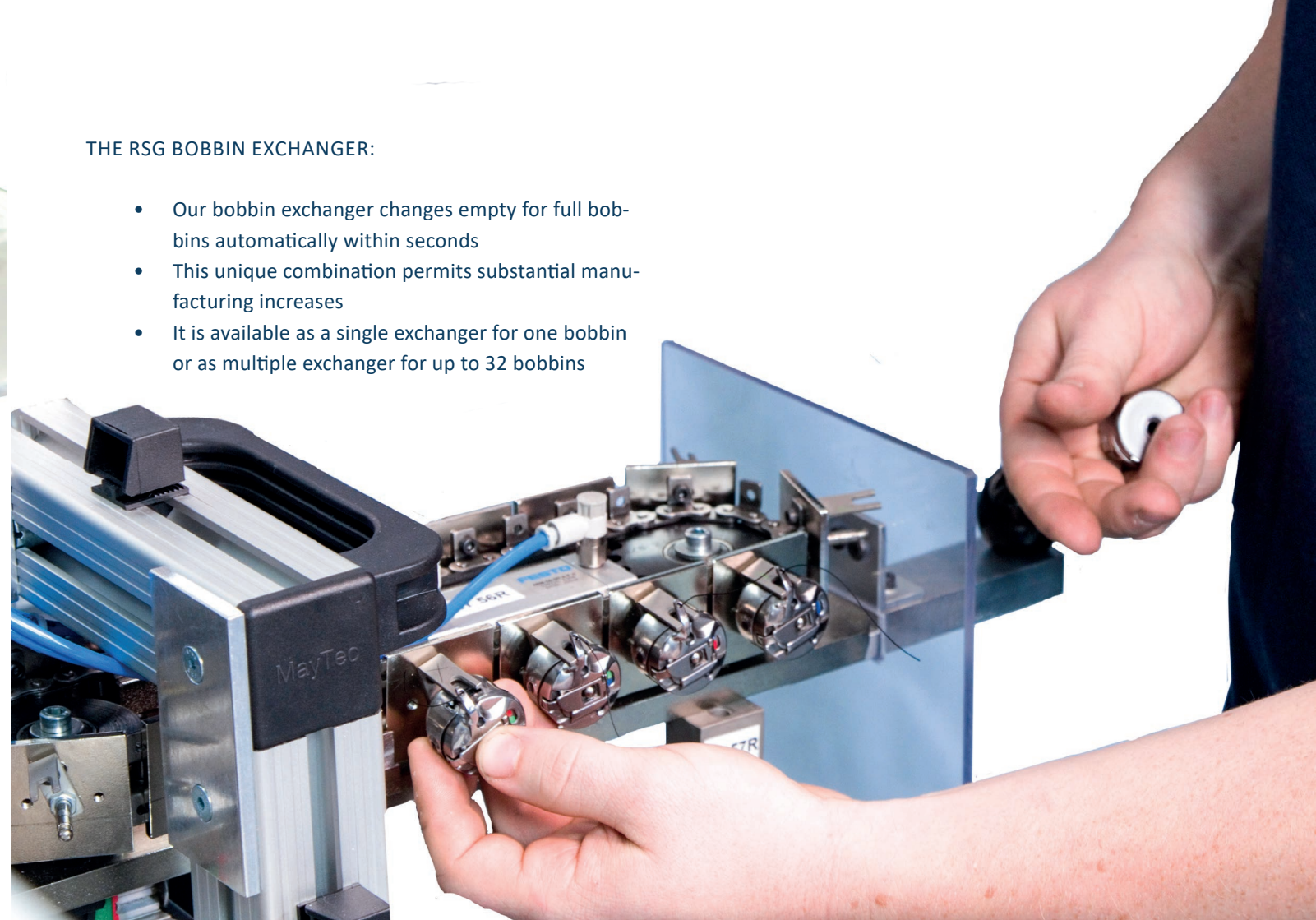


OUR PATENTED THREAD HOT CUTTER:

- Patented hot cutting of upper and lower threads
- No fabric damage
- Automatic sewing item height adaptation
- Perfect work combination with RSG thread puller for minimal loose thread on fabric

THE RSG BOBBIN EXCHANGER:

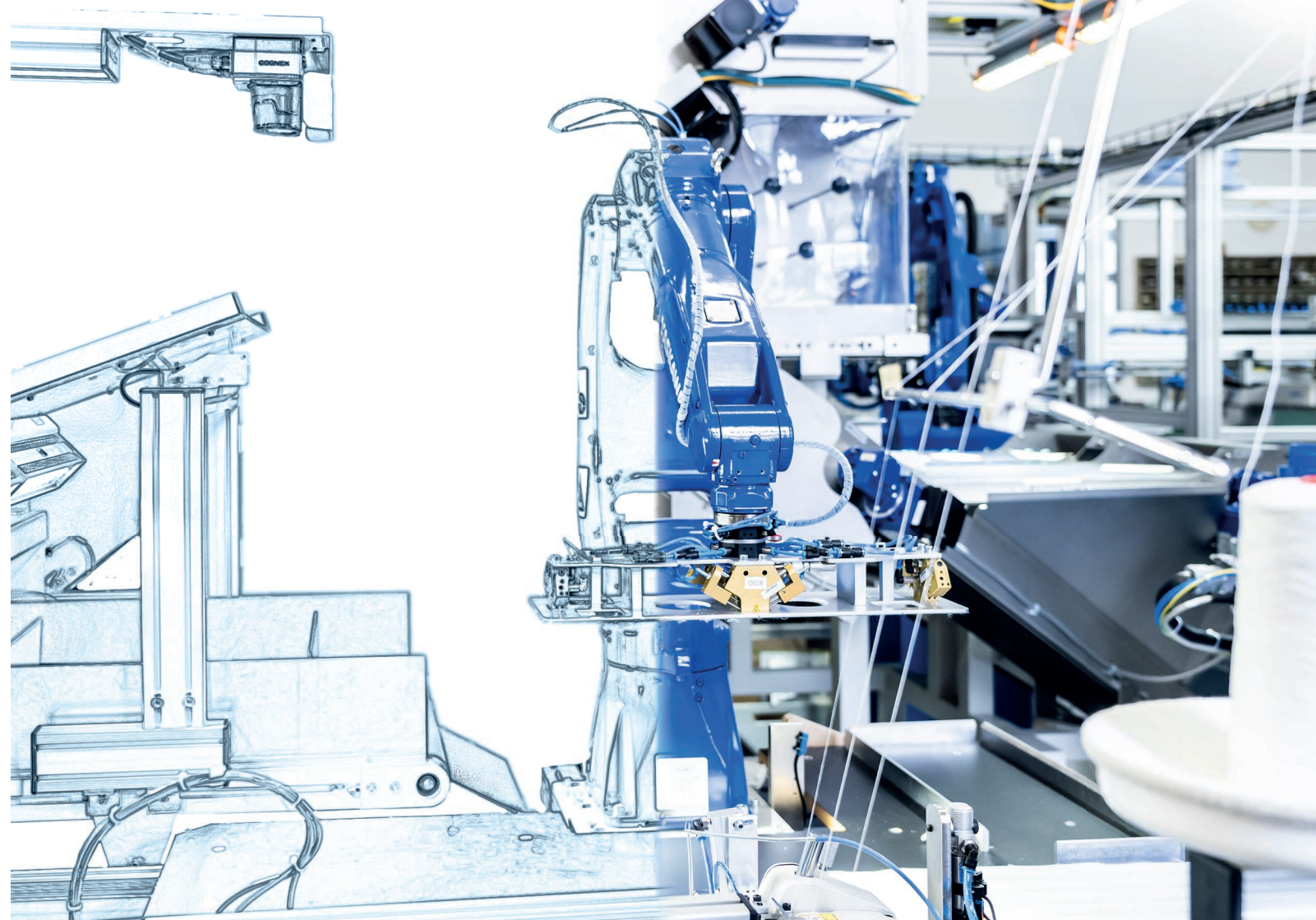
- Our bobbin exchanger changes empty for full bobbins automatically within seconds
- This unique combination permits substantial manufacturing increases
- It is available as a single exchanger for one bobbin or as multiple exchanger for up to 32 bobbins



MACHINE CONCEPTS FOR TECHNICAL TEXTILES

RSG OFFERS SOLUTIONS FOR FULLY AND SEMI-AUTOMATED PRODUCTION OF:

- Airbags
- Medical textiles (e.g. compression straps)
- Filter materials
- Mats and rugs of all kinds
- Nets
- Seat belts
- Home textiles
- Narrow fabrics



ALWAYS CLOSE TO OUR CUSTOMERS

SOLUTION FOR ALL SOFTWARE REQUIREMENTS:

- All customized adjustments and modifications are implemented rapidly and flexibly by our software team

“CERTIFIED RSG OPERATOR” OFFER:

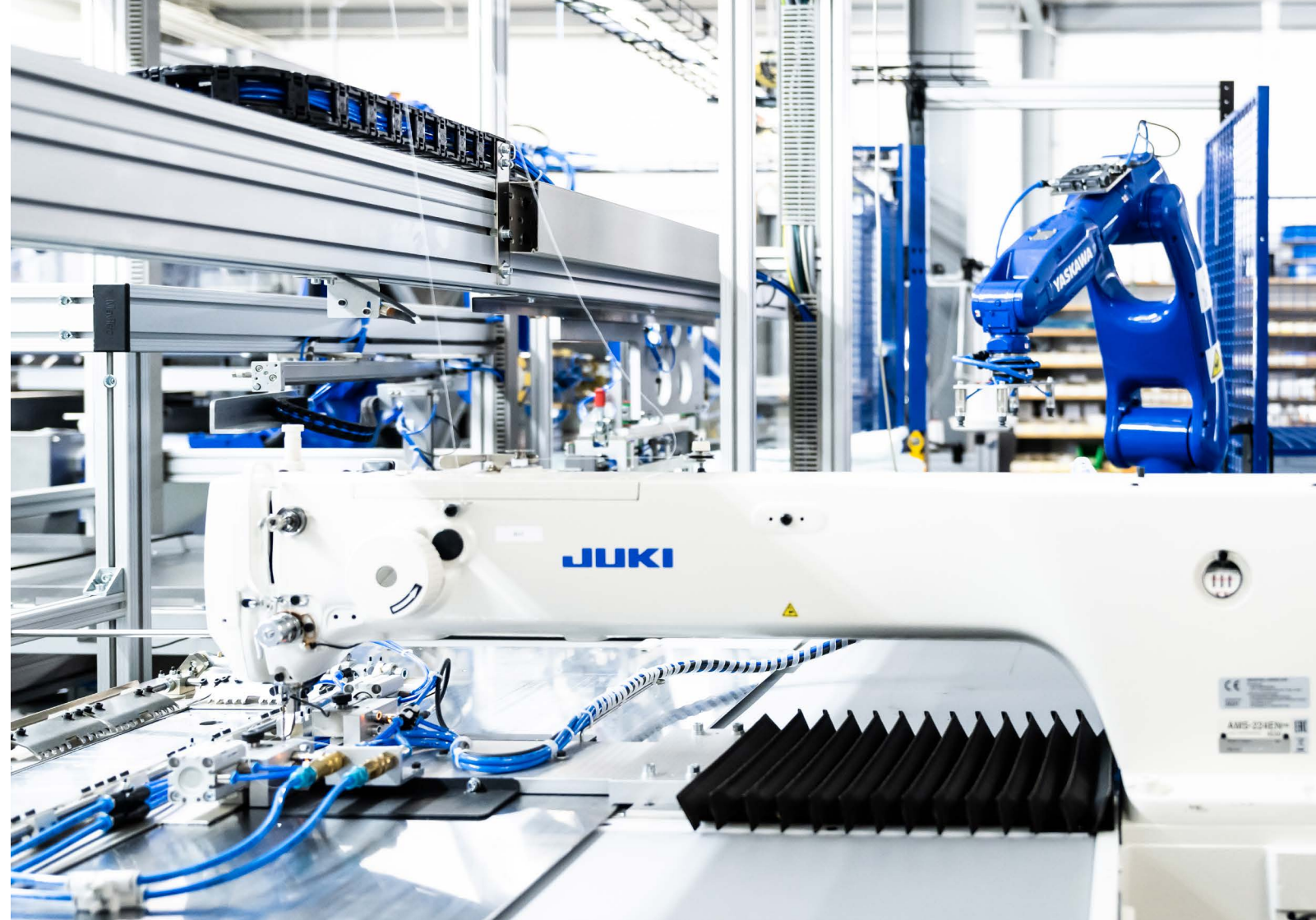
- Training for all our machines, products, and software
- In-house training for machine operators
- On-site training directly with customers equipment

OUR SPARE PART SERVICE:

- Standard parts are always on stock
- Delivery service within 24 hours

ON-SITE SUPPORT BY RSG SERVICE TEAM OR LOCAL PARTNERS WORLD-WIDE

FREE SERVICE HOTLINE DURING WARRANTY PERIOD



RSG AUTOMATION TECHNICS

YOUR RELIABLE PARTNER FOR HIGH-END PROCESS AUTOMATION



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