



AUTOMATION TECHNICS

FULLY AUTOMATED PRODUCTION LINES FOR NARROW FABRICS
SEMI AUTOMATED WORK STATIONS FOR TEXTILES
PATENTED SEWING PROCESS MONITORING

... we make things better ...

OPEN YOUR MIND FOR PROCESS AUTOMATION



TECHNICAL TEXTILES



MEDICAL TEXTILES



HOME TEXTILES



SEWING-PROCESS
MONITORING

EXPERTS IN DEVELOPMENT FOR AUTOMATION



RSG owner and CEO Dr. Andreas Ecker and his management team.
From left: Dr. Andreas Ecker (CEO), Julian Burmeister (Technical Director), Maik Eisenhardt (Director of Sales and Marketing),

PROFIT FROM OUR UNIQUE CONCEPT

WHAT CAN YOU EXPECT FROM RSG?

1. ANALYZING OF EXISTING PRODUCTION PROCESSES

2. POSSIBLE PROCESS IMPROVEMENT SOLUTIONS

- automation of the production process as far as possible
- 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 HISTORY

1983 Foundation of Näh-Systeme Rombold GmbH in Ludwigsburg; production and sale of label dispensers for the clothing industry.

1992 Development of an own control system, the SAT controller.

1996 New company focus: industrial automation of production processes. Start of applications for home textiles and technical textiles.

1997 Patent application of a twin label dispenser

2005 Transfer of the company to Dr. Andreas Ecker

2006 Automation of individual steps for seat- and safety belt production.

2006 New development and patent applications of our Color Thread Monitoring system and the Thread Hot-Cutter for sewing machines.

2007 Delivery of the first car safety belt system with complete POKA-YOKE monitoring technology.

2009 Market launch of the new machine control SAT-Flex with CAN-BUS technology. New developments of automations for filter bags and lashings/tension-straps.

2010 New RSG patent applications: automatic Bobbin Exchanger and Thread-Puller for sewing machines.

2011 Relocation to the new company building in Bietigheim-Bissingen and name change to RSG Automation Technics GmbH & Co. KG.

2013 Market launch of the new machine generation „Narrow-Matic“ for fully automated processing of Narrow Fabrics.

2014 Delivery of the first fully automated facility for special medical products.

2015 70% of all newly installed production lines for car safety-belts in Europe run on RSG machines or use our patented monitoring technology.

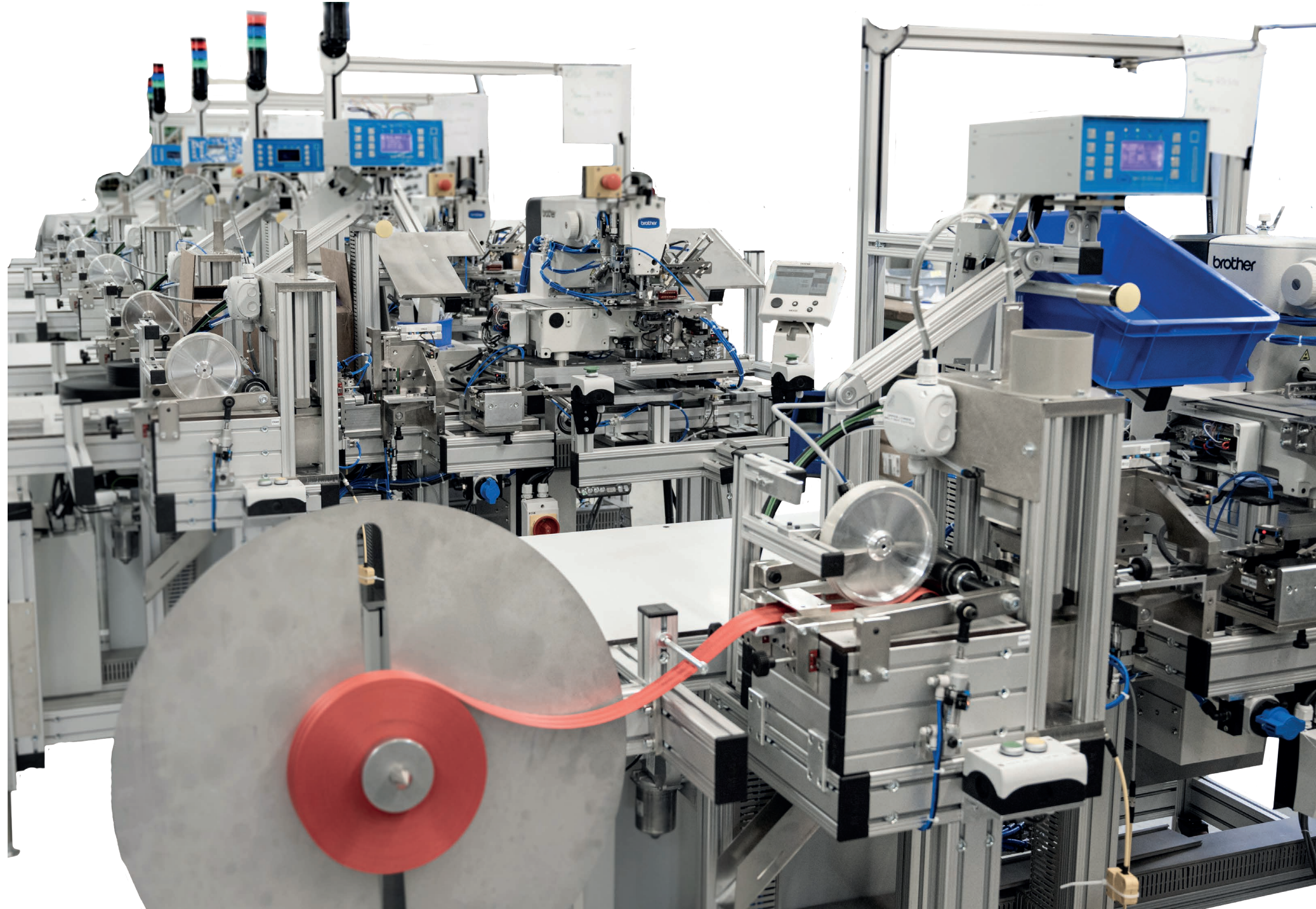
2016 Entry into a new market segment with facilities for aircraft safety belts; within 2 years RSG supplies 95% of the world market.

2017 The first system with a Siemens Simatic control is delivered.

2018 RSG receives the award „Growth Champion“ from the renowned German business magazine “Focus”. RSG ranks first among German textile machinery manufacturers.

2019 Delivery of a fully automated system for the assembly of airbag restraining belts; for the first time with integration of a 6-axis robot.

2020 Development and delivery of fully automated production lines for the airbag industry, also with integration of various robot systems. Delivery of the first system with an Allen Bradley control. Employee increase by 50% and expansion of the production area in order to be able to deliver machines for the medical industry and the automotive sector.

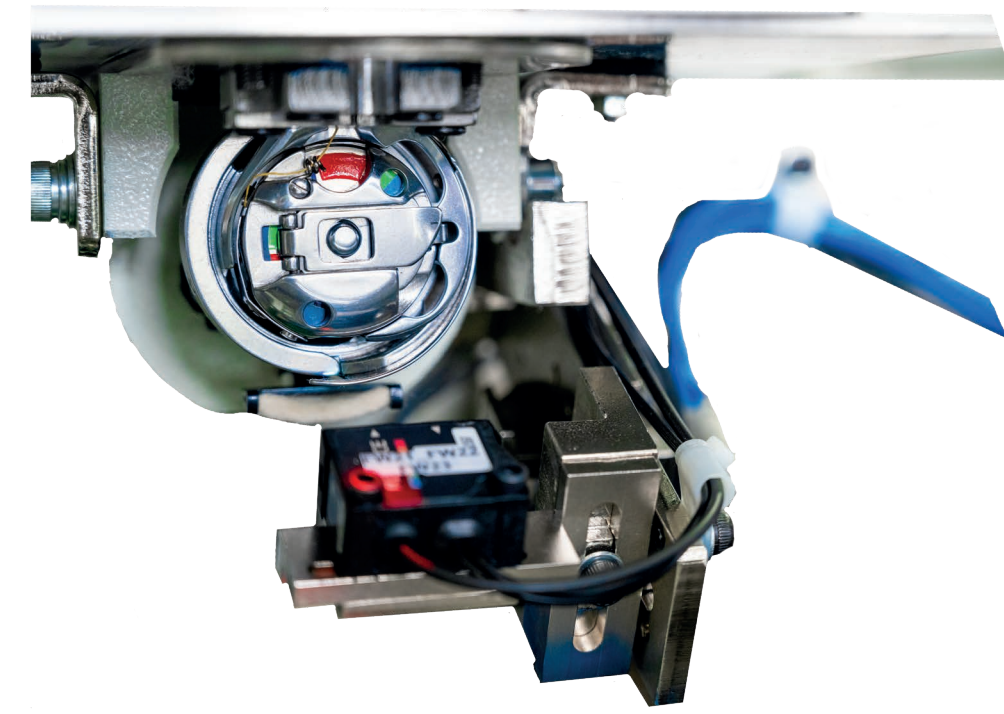


OUR CORE COMPETENCESW INNOVATIVE & PATENTED

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



Unique accessories and monitoring equipment
for sewing-machines:





AT A GLANCE

- privately held company
- over 40 years of market experience
- competent R&D department
- modular equipment
- tailor-made machine concepts according to customer needs
- design engineering with modern 3-D CAD software systems
- Siemens S7 or Allen Bradley software solutions
- »Made in Germany« manufacturing facility near Stuttgart
- high-end, world-wide available supply parts
- increased machine operator safety by extensive security analysis

PATENTED MONITORING EQUIPMENT FOR SEWING PROCESSES



OUR FACILITY CONCEPTS

RSG IS A COMPETENT PARTNER FOR FULLY AND SEMI-AUTO-MATED 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 CONCEPTS

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 useable for all kinds of webbings, straps, belts of different materials, and all buckles, hooks, and ratchets available on the market



OUR FLAGSHIP – SEAT BELT MANUFACTURING CONCEPTS

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

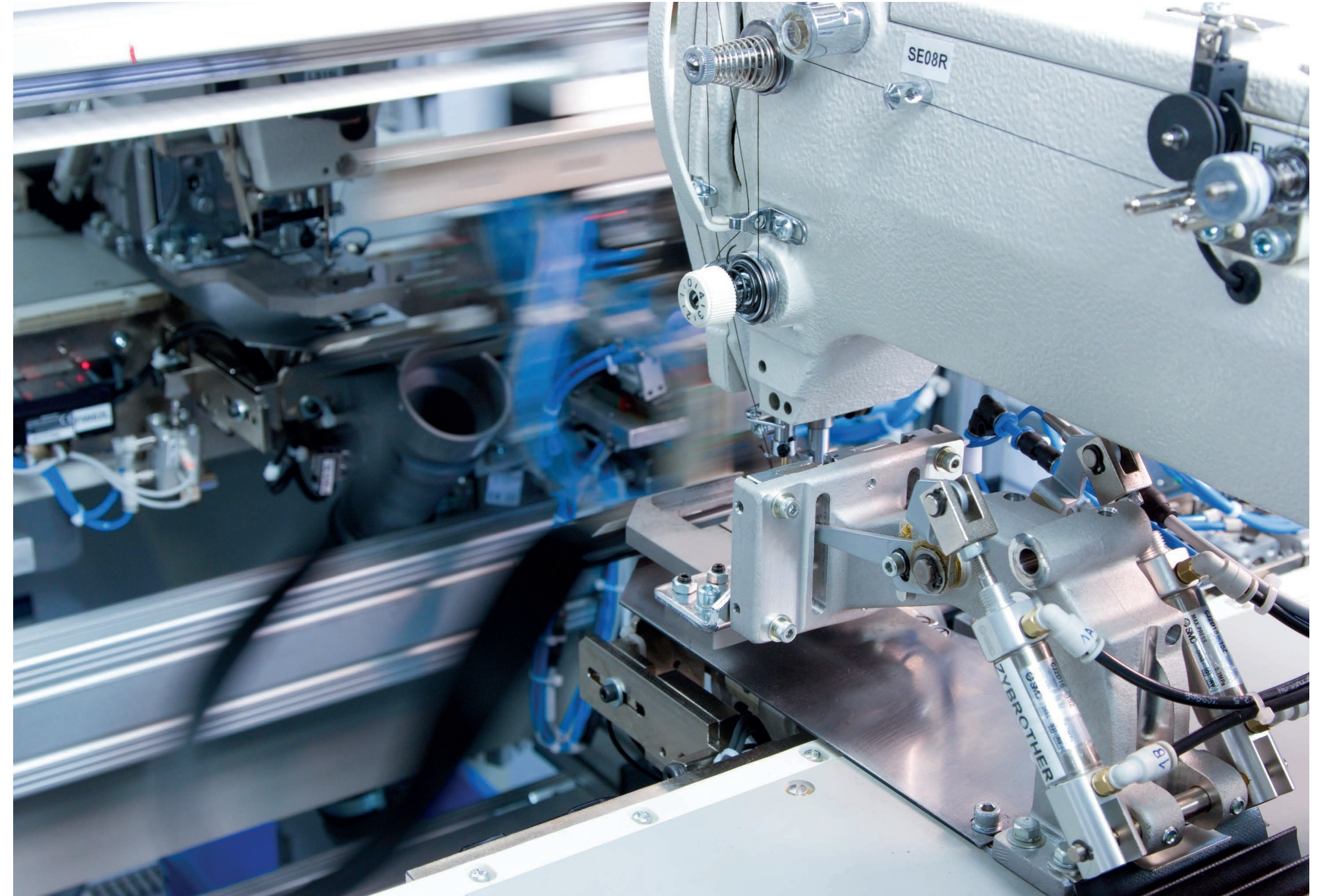
These components can be integrated by modules into our patented assembly line:

- 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



MACHINE CONCEPTS FOR TECHNICAL TEXTILES

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

- medical textiles (e.g. compression straps)
- filter materials
- mats and rugs of all kinds
- nets
- airbags



MACHINE CONCEPTS FOR HOME TEXTILES

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

- cleaning wipes and floor mops
- tablecloths / comforters
- upholstery / bed lines
- fringes



MACHINE CONCEPTS FOR MEDICAL PRODUCTS

RSG OFFERS SOLUTIONS FOR SEMI-AUTOMATED WORK STATIONS FOR:

- Sterile wipes
- Blood stopping straps



INNOVATIVE ACCESSORIES AND MONITORING EQUIPMENT FOR SEWING MACHINES

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



INNOVATIVE ACCESSORIES AND MONITORING EQUIPMENT FOR SEWING MACHINES

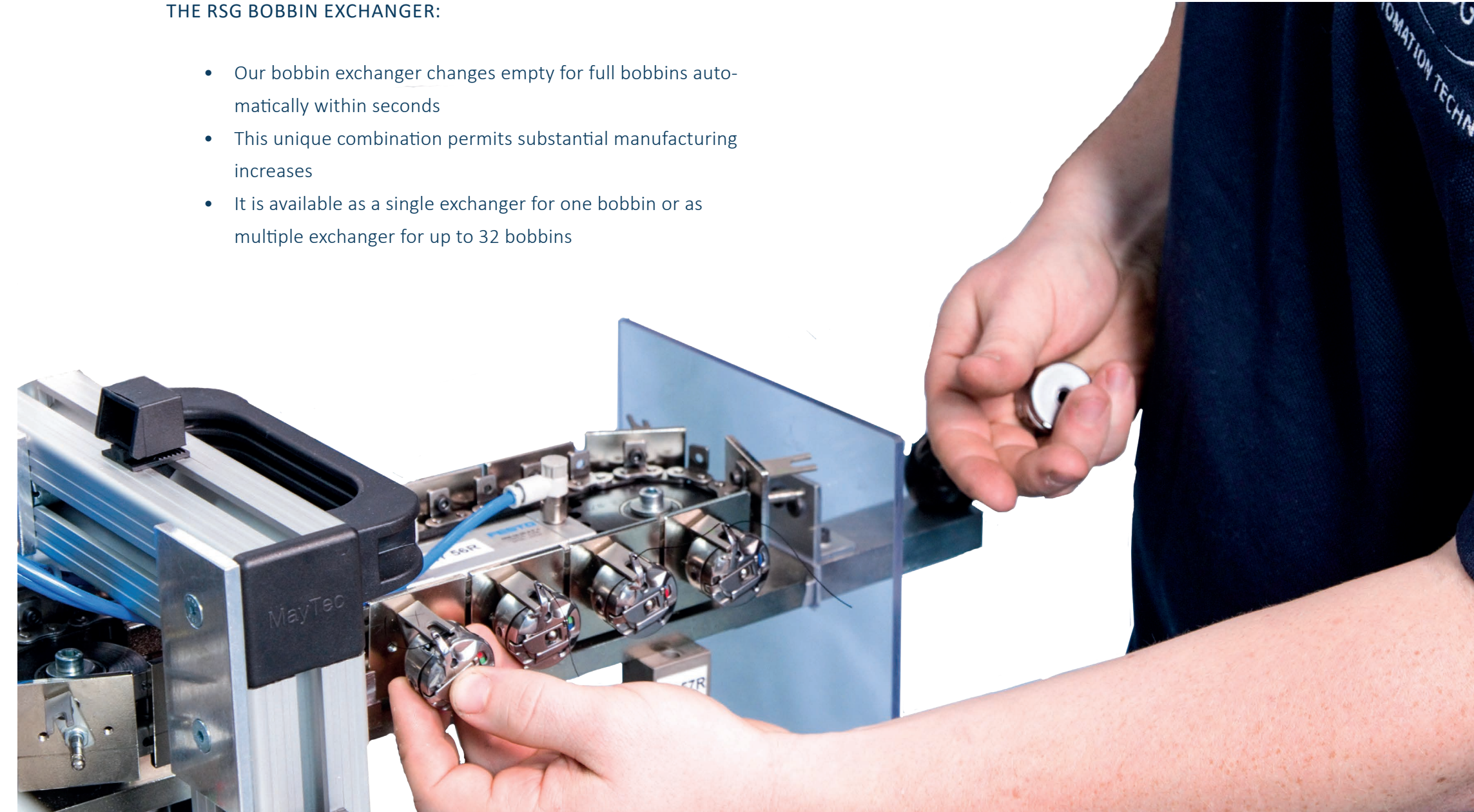
OUR REVOLUTIONARY COLOR THREAD MONITORING SYSTEM:

- 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



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



ALWAYS CLOSE TO CUSTOMERS - AFTER SALES SUPPORT

FREE SERVICE HOTLINE DURING WARRANTY PERIOD

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

SOLUTION FOR ALL SOFTWARE REQUIREMENTS:

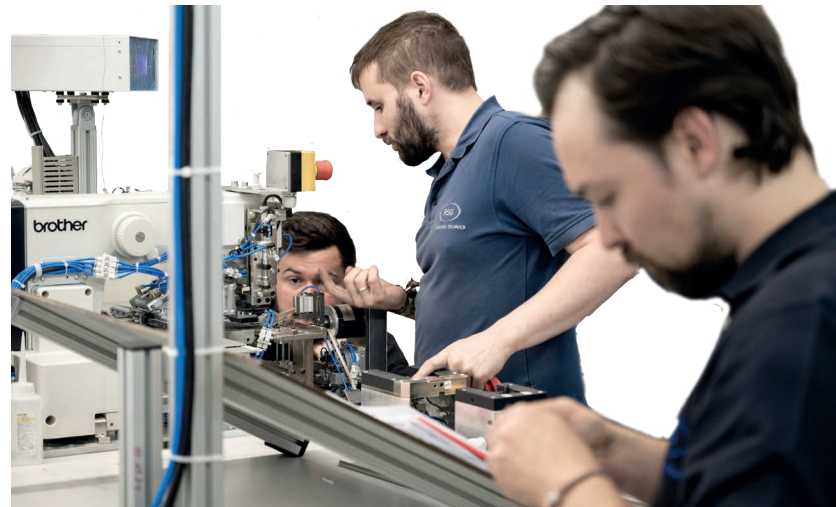
- all customized adjustments and modifications are implemented rapidly and flexibly by our software team

OUR SPARE PART SERVICE:

- standard parts are always on stock
- delivery service within 24 hours

“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



RSG AUTOMATION TECHNICS SETS A HISTORIC MILESTONE
AND IS HONORED AS GROWTH CHAMPION 2018



WE ARE HONORED



WE ARE PROUD OF OUR PARTNERSHIP

BEYOND POINT BREAK,
THE SKY HAS NO LIMITS...



RSG
AUTOMATION TECHNICS

Your partner for smart
AUTOMATION CONCEPTS for 
NARROW FABRICS

www.rsg-automation.com


You are one decision away
from your adventure

www.southsidebase.de

...your advantages...

- considerable production time savings
- very short cycle times
- apparent production capacity increase
- constant quality improvements with our innovative sewing monitoring systems
- production process error avoidance
- manufacturing during breaks and after official production time termination
- unique automation concepts



AUTOMATION TECHNICS

RSG AUTOMATION TECHNICS

YOUR RELIABLE PARTNER FOR MODERN AND INNOVATIVE PROCESS AUTOMATION



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