



AUTOMATION TECHNICS

FULLY AUTOMATED MANUFACTURING LINES

FOR THE PROCESSING OF FILTER-TUBES



**Automotive
Textiles**



**Technical
Textiles**



**Home
Textiles**



Garments



**Label
Dispenser**



Accessories

... we make things better ...



AUTOMATION TECHNICS

Profit from our unique concept.

What can you expect from RSG?

1. Analyzing of existing production-processes in textile plants
2. Solutions with possible process improvements
 - › Tailor-made machine concepts
 - › Universal retrofitting possibilities
 - › Automation of the production-process as far as possible

What could be your benefits out of this?

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



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Our history.

1983 The company Nähssysteme Rombold GmbH was founded by Peter Rombold

1992 Development of an own control system, the SAT-Controller for process automation

1993 Delivery of the first floor wiper automat

1996 New company focus: Industrial automation of manufacturing processes in textile plants

- Market-entry in Home- and Technical textiles

2000 Sale of the 200th SAT-Controller

2004 Delivery of the first fully-automated production line for Filter-Tubes.



7.2005 Company transfer from Peter Rombold to Dr. Andreas Ecker. The company changes to RSG Rombold System GmbH & Co. KG

- Patent Thread Hot Cutter
- Patent Color Thread Monitoring System
- Launch of POKA-YOKE technology (= fully automated elimination of all sorts of errors in the production process)

2007 First completely POKA-YOKE supported production line for the production of safety-belts (with the possibility to save up to 70% of labor costs, compared with conventional production methods)

2009 New SAT-Flex controller with CAN-BUS technology

2010 New patents pending: fully automated bobbin-case exchanger and thread-puller

2011 Relocation to the new building in Bietigheim-Bissingen and new company name:
RSG Automation Technics

2012 Today, 60% of all new installed production lines for car safety-belts, which are produced in Europe, are running on RSG machines...



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At a glance.

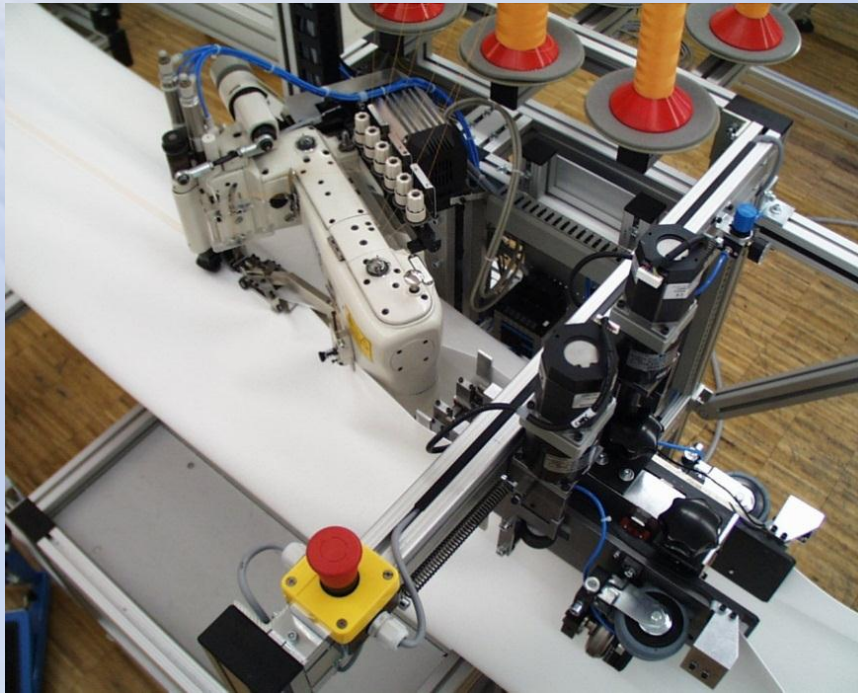
- Privately held company
- Over 30 years of market experience
- Competent development department
- Modular equipment
- All lines are “tailor-made” according to the requirements of our customers
- Design engineering with modern 3-D CAD software systems
- Individual software solutions with object-oriented programming
- »Made in Germany« manufacturing facility near Stuttgart
- Proprietary control- and monitoring system “SAT”
- Use of high-end, world-wide available supply parts
- Increased safety for the machine operators by extensive security-analysis
- Complete detailed and “easy-to-understand” machine documentation
- Equipment design according CE-Standards





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Machine-Concepts for Filter-Tubes.





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Machine-Concepts for Filter-Tubes.

- automated production facility for the continuous folding and sewing of filter fabric
- production of endless tubes (material specific) by hot wedge or hot air process
- alternative production possibilities with special arm-downward sewing head (sewing velocity according to material between 2,500 & 3,000 rpm)
- processing of the most diverse filter materials possible
- tube diameter of 100-300mm (depending on material)
- marked production increase can be achieved!

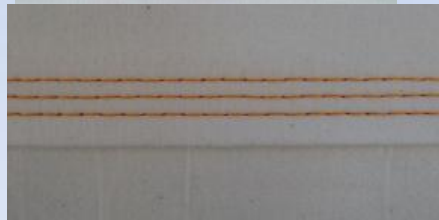




AUTOMATION TECHNICS

Machine-Concepts for Filter-Tubes.

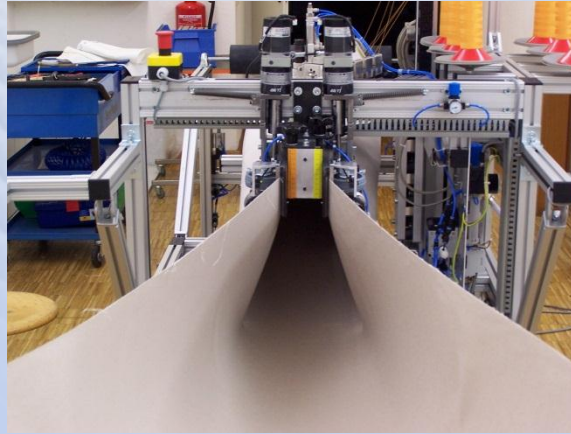
- rapidly exchangeable devices to reduce tooling time
- hem seams and flat seams possible
- flat seams with different over-lapping
- controllable puller for transport support
- synchronization of dancer system and compensator systems





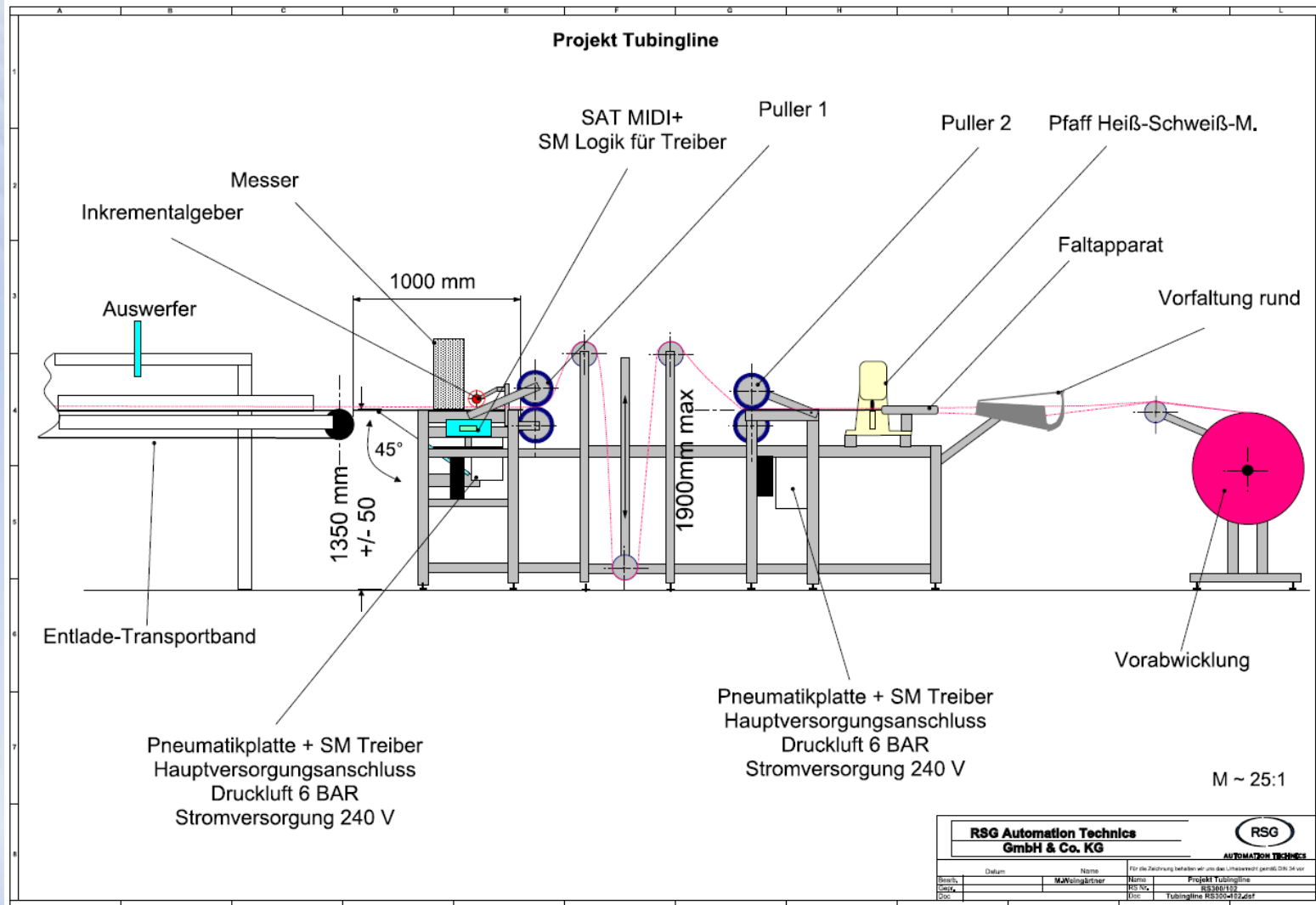
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Machine-Concepts for Filter-Tubes.



- variable designs for different material thicknesses
- flexible wind and unwind systems and transport systems available
- modular RSG cutting systems for up to 600mm available
- facility suitable also for glass fiber fabrics

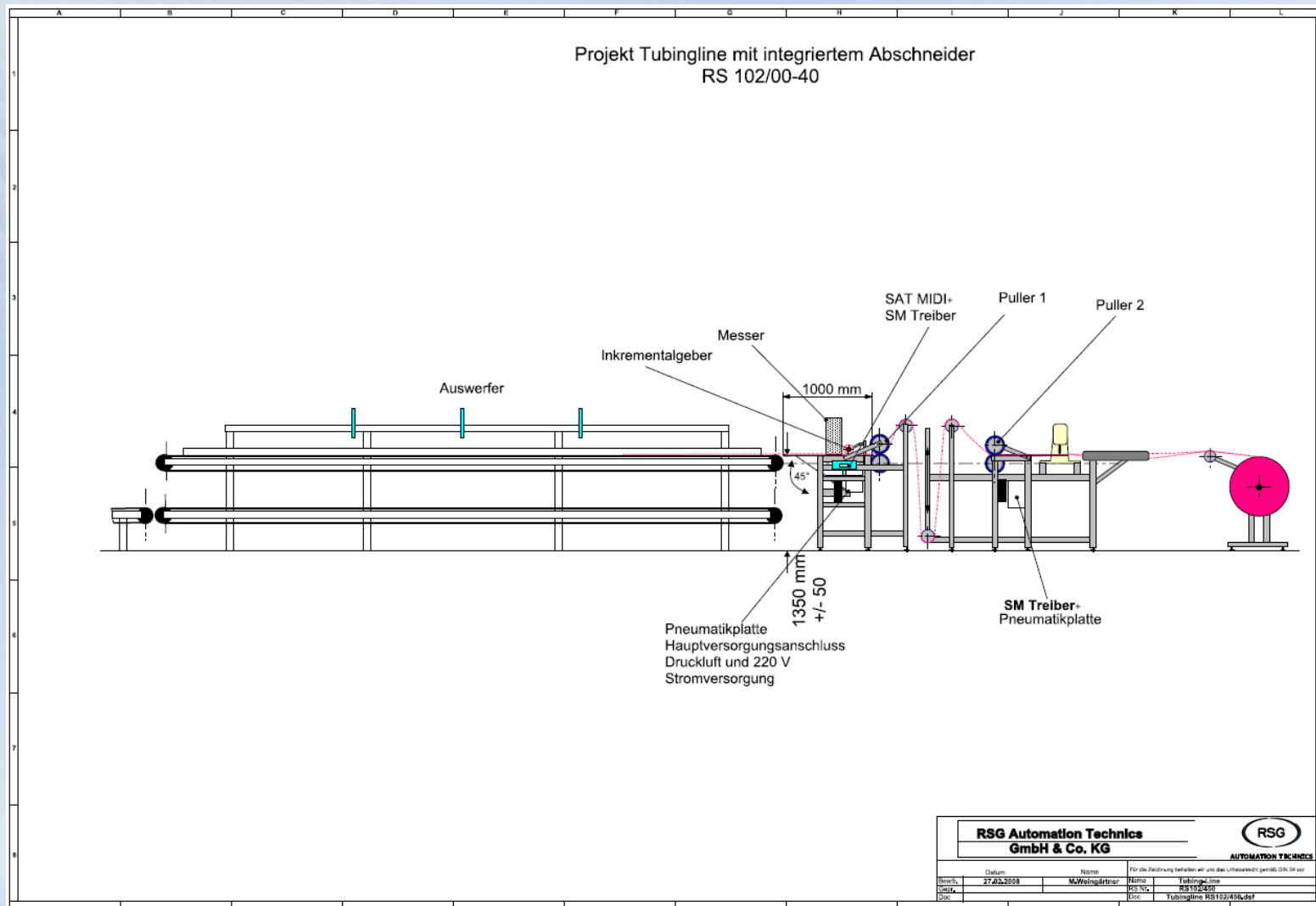
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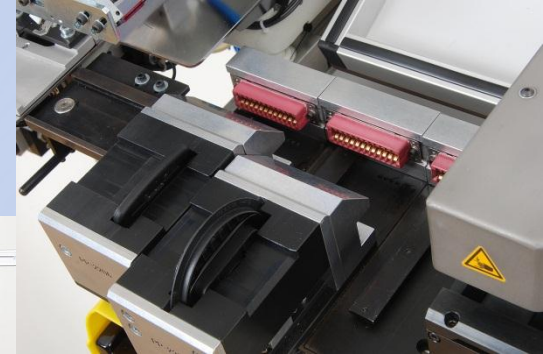
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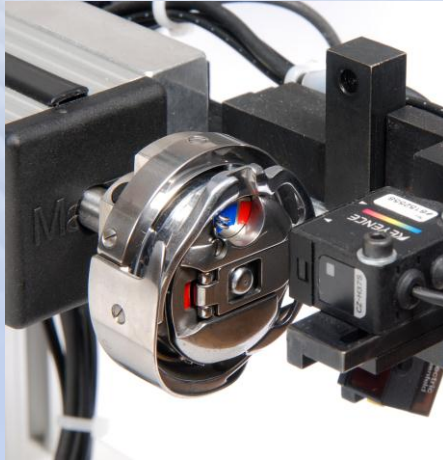
One partner. Over 1000 machine concepts.





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Innovative accessories and monitoring equipment for sewing heads.

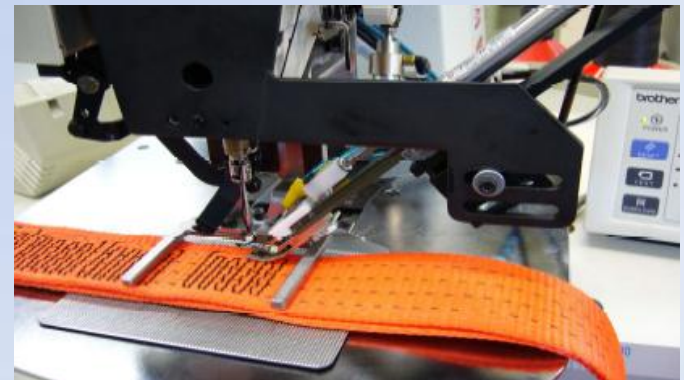


Our revolutionary Color Thread Monitoring System.

- 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.

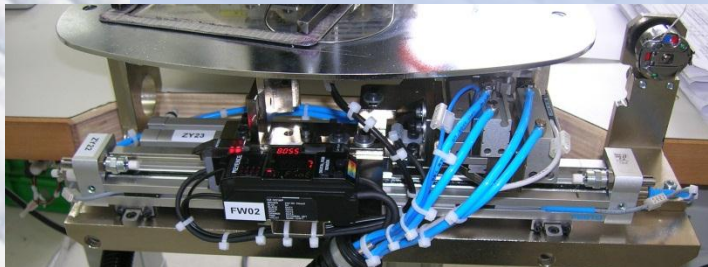
- Patented hot-cutting of upper and lower threads
- No damaging of the fabric
- Automated adaption to height of sewing item
- Works perfect in combination with our RSG Thread-Puller to achieve a minimal thread-rest on the fabric





AUTOMATION TECHNICS

Innovative accessories and monitoring equipment for sewing heads.



The RSG bobbin-case exchanger

- Our bobbin-case exchanger changes empty bobbins automatically with full ones within seconds
- This unique combination permits substantial manufacturing increases!
- Available as single-exchanger for one bobbin or as multiple-exchanger for up to 18 bobbins

New available:

- Modification of existing machines with new SAT-mini
- Upgrade your machines and profit from the new advantages!





AUTOMATION TECHNICS

Always close to our customers: Our After-Sales-Support.

- ➔ Free of charge service-hotline during warranty period
- ➔ On-site support by RSG service team or with local partners world-wide
- ➔ The solution for all software requirements:
 - ➔ All customized adjustments and modifications are implemented rapidly and flexibly to our software team
- ➔ Our spare-parts service :
 - ➔ Standard parts are always on stock
 - ➔ Delivery service within 24 hours
 - ➔ Special parts are delivered as fast as possible
- ➔ To become a “Certified RSG-Operator”, we offer:
 - ➔ Training for all our machines, products and software
 - ➔ In-house training for the machine operators
 - ➔ On-site training directly with customers equipment.
- ➔ Ask for our Service- and Maintenance contracts





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**We are looking forward to hear from you soon,
if you are ready for the next step...**



www.rsg-automation.de