

RO

Gluing Technology



Robatech
Gluing Technology

...from the heart of Switzerland



On 11th August 1975 Hans Meyer founded the Robatech company and had it published in the Register of Corporations «for the purpose of developing, producing and selling glue applicators». Our initiator laid the foundation stone for a solid, innovative and future-compliant enterprise with a team of 5 employees. Already in the nineteen eighties he set standards which have been valid to this day for a modern adhesive application technology: precise closed loop temperature control, reliable pump systems, a durable and fast application technique based on user-friendly controls. And all this integrated in a modular structure which was visionary at the time and which relied on other latest technologies.

The strict enforcement of modularity and compatibility in the product development results in low overall process costs, from the procurement over assembly to maintenance of our equipment.

Highest quality standards guarantee efficiency and reliability of our products and of our entire organization.

Innovation is meant to be the strict need to create benefit for our customers.

This secures the future prosperity and growth of our group.

Until 1996 Hans Meyer led our organisation to a reputed and globally successful Swiss enterprise. An effective international sales and service network was built up and the spectrum of products widened. After twenty years the two sons Thomas and Marcel Meyer took responsibility for the company. Today the Robatech Group is led by a team of five directors and 15 executive members under the lead of Marcel Meyer.

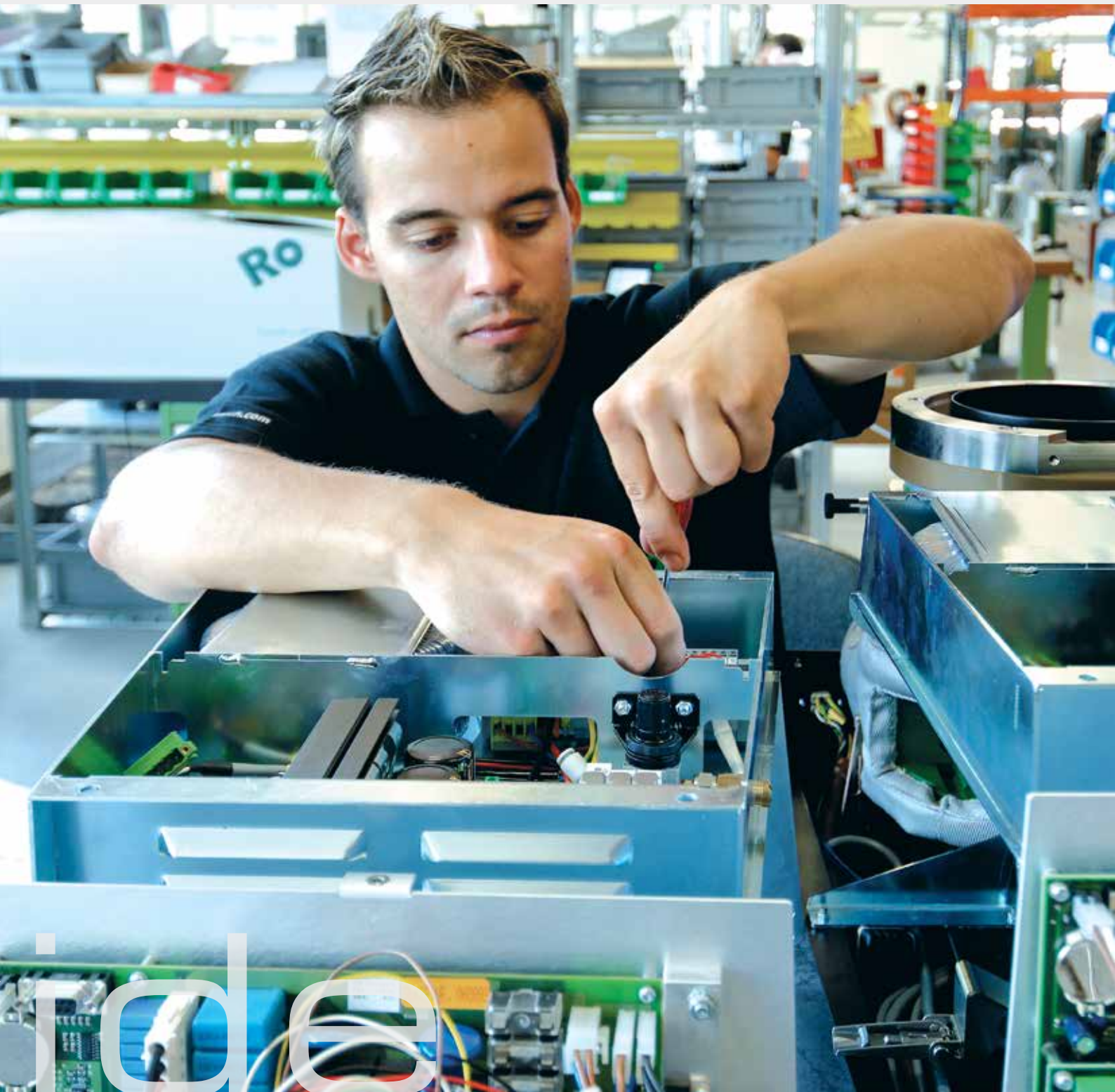
Nearly 500 Robatech employees operating from currently 60 sales & service support points all over the world are now looking after our clientele in the different industries where processes are to be optimized and made more efficient by using a reliable adhesive application technology.

In the packaging, graphic and wood processing industries, in particular, Robatech is recognized worldwide for its quality, the high service standard and know-how in the application of a large variety of adhesives. Highly satisfied customers of Robatech can also be found among converters for paper and plastic products in the building, non-woven or automotive industry.

This is why many original equipment manufacturers and market leaders in their fields rely on Robatech's adhesive application technology «made in Switzerland».

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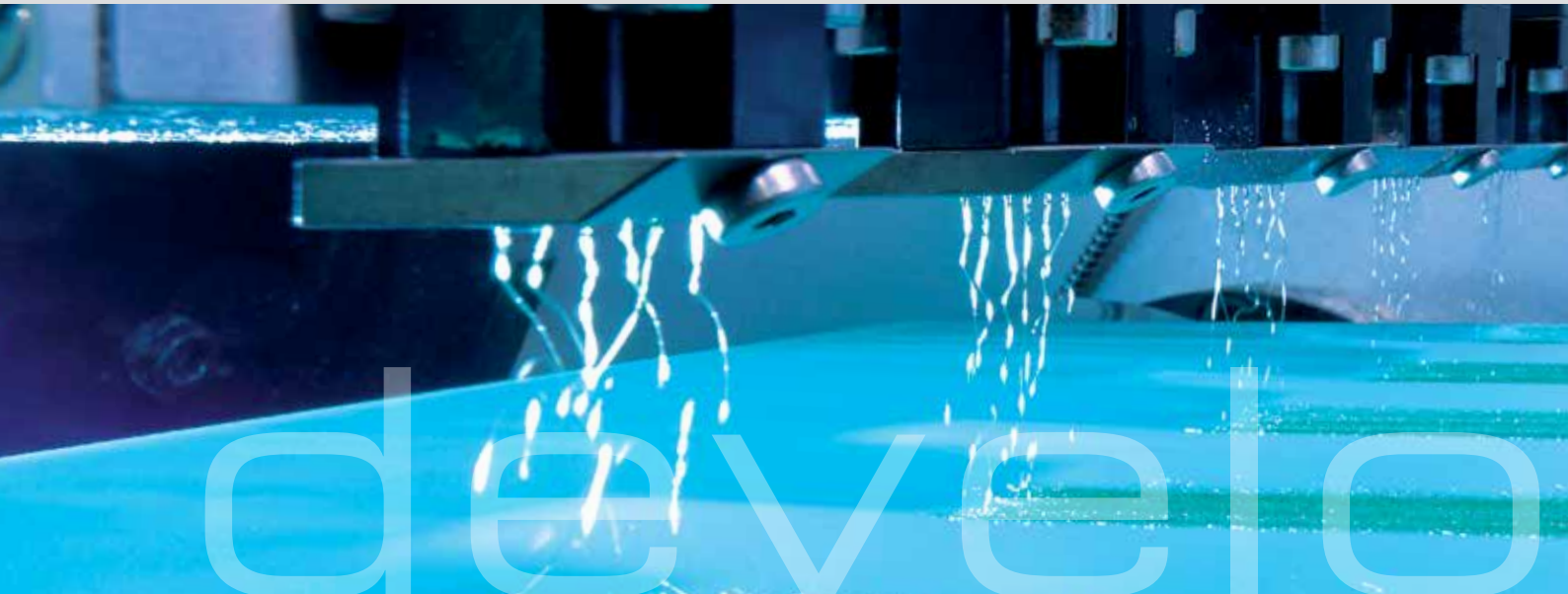
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preserving values



The global activities are coordinated and managed from our headquarters in Muri, about 20 minutes from Zurich. Approx. 120 employees work here in the areas of development, procurement, production, marketing, sales, service and administration. Robatech employees are well trained and engage themselves for the company. This is why we train young people to become professionals, support further education and run our own training centre in which we offer company-specific tuition. Our long-term objective is to secure and expand the jobs at the location of Muri as well as those abroad.

Our plant in Muri is suitably equipped and there is room for further expansion. Our logistics department relies on the most modern concepts and technologies. We operate with a high cost and quality consciousness. The relentless elimination of errors lowers our costs and guarantees our competitiveness in the long term. We see our suppliers as our partners. This commits us to cooperate as closely possible, to communicate openly and to apply our own core competences for the benefit of the customer.



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developing and growing

While we push the international alignment of the Robatech Group without compromise, we attach great importance to living and preserving exactly those values which characterize an enterprise managed by the owner: The closeness to humans, customers and partners, the personal contacts and the fulfilment of the customers' needs. As a partner specialized in the user- and environment-friendly application of low- to high-viscosity mediums Robatech increases the economic efficiency of industrial processes for the benefit of clearly defined target groups.

The valuable suggestions made by our customers to our technical consultants are followed up in detail and lead to new technological developments which must be practical and user-friendly. Successful developments from the Robatech company like the range of Concept appliances, the PUR hotmelt applicators MOD, miniaturized SX applicator heads with integrated filters and numerous other products have been created in this way. Modularity and compatibility have always been top principles to be observed in our development work. Our customers appreciate the low overall cost of Robatech equipment in their production plant and reward us for it with their loyalty.



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Hotmelt systems: operation, modularity, compatibility

Melting techniques

Tank appliance «Concept»

- Up to 8 hose nipples
- 5 – 30 litre tank
- Piston or gear pump
- For non-reactive hotmelts in granular and block form
- Accessory: granulate feeder



Tank appliance «Jumbo»

- Tank sizes 55 / 80 / 160 litres
- 1 to 4 gear pumps
- For non-reactive hotmelts in granular and block form



Premelters «Premelt»

- Tank sizes 80 / 160 litres
- 1 to 2 gear pumps for non-reactive hotmelts in granular and block form

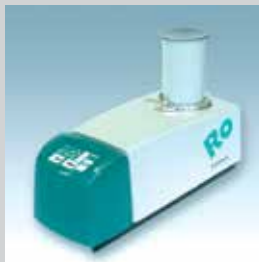
Drumunloader «Robamelt»

- Drum sizes 20/50/200 litres
- Gear, piston and extruder pumps
- For all types of hotmelts and sealing compounds delivered in drums



PUR melter «Pumelt 4 MOD»

- Gentle melting process thanks to «MOD» (Melt on Demand)
- 1 gear pump
- For blocks of 2-3 kg and reactive hotmelts with / without inliner



PUR melter «Pumelt 20 MOD», «Premelter PUR 20 MOD» & «Pumelt 20 Puffer»

- Gentle melting process thanks to «MOD» (Melt on Demand)
- 1 or 2 gear pumps
- For blocks of 20 kg and reactive hotmelts with / without inliner



Special appliances

Client-specific appliances

- For laminating nonwovens
- 2-C coating
- Gelatine processing
- Cascade melter
- and others



Applied pumping techniques

Piston pumps

Double-acting, electronically controlled low-pulsation piston pumps



Gear pumps

Various electronically closed loop controlled precision gear pumps for a constant or variable adhesive application



Heated hoses

Flexible heated hoses, compatible with the complete product spectrum. Special executions are available



Robatech electronics

This control based on most advanced electronics is the central item of all Robatech adhesive applicators. It combines operating terminal, diagnostics, temperature closed loop control, motor control, glue applicator control, glue application monitoring as well as the communication with higher-ranking equipment in one electronic system.

Control techniques

Communication

- Connection of all appliances to higher-ranking systems
- Profibus-DP, Ethernet, CAN Open, ASI, SNMP
- RobaPAR, software for external operation, administration and control of the appliances



Applicator controls

- ... from the integrated single control to the complex 60-channel solution
- Modular use via software key
- Time, path, pressure control



Application monitoring

- Fully integrated adhesive monitoring on the product
- Reliable and easy to operate (teach-in)
- Suitable for hot and aqueous adhesives



Application techniques



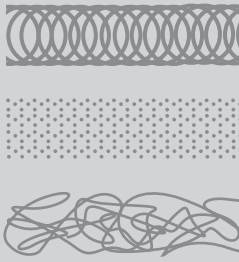
Hand applicators
Various models for the manual bead or twist application used in various industries, with or without spray air



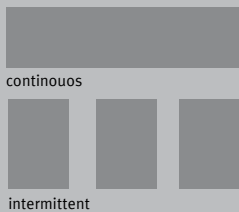
Bead and dot applicator heads
For the bead application with individual or multiple modules, with or without filter, with individual or multi-control. Controlled pneumatically or electrically.



Spray heads
For the precise edge spray, twist application or precise fibre spray with integrated air heater



Coating heads
Coating heads for precise intermittent or continuous surface coating from 5 to 500 mm

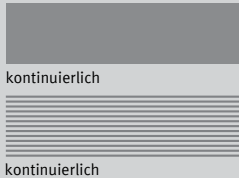


Sensor technique

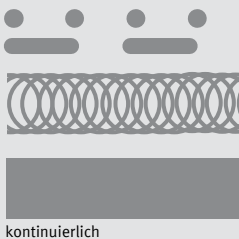
- Various measuring and monitoring methods
- Measuring frequency 4 kHz (0.25 ms)
- Temperature, reflection, contour



Coating heads
Coating heads for precise continuous surface coating from porous to full-surface coverage. Steplessly adjustable in 9 models 350 / / 2600 mm



Metering heads
Metering solutions for low- to high-viscosity adhesives, gear or double-piston metering, precise and reliable. Applications in the form of dots, beads, spirals, surfaces



Coldglue systems: operation, modularity, compatibility

Feeding techniques

Pressure tanks suitable to feed dispersion-type adhesives. Processing of low-viscosity and cold liquids

Piston & membrane pumps for coldglue
These pumps are suitable to feed dispersion-type adhesives and coldglues containing solvents. Available as container and wall pump



System solutions

Cartoglué for the folding box

- Simple solution with up to 4 applicator heads and monitoring sensors
- Complete system for modular expansion to max. 64 channels
- Easy integration in existing systems
- Also suitable for combi solutions with hotmelt



Corrutack for the folding box

- Adhesive applicator system for flap glueing of corrugated cartons
- Contactless glueing (no shifting of the carton)
- Central glue supply
- Piston pumps for dispersion adhesives



Corrucoat for paper, board and corrugated board

- Coldglue coating, porous or full-surface
- Adjustable width up to 1650 mm
- Quantity closed loop control for a precise application
- Simple operation



Purtack for the woodworking industry

- System for the application of 1K PUR reactive adhesive up to 50,000 mPas
- Finger jointing, glue laminating, structural glueing
- Volumetric, intermittent application without contact



Further systems: Webtack for publications

- Fold glueing and soft system for rotary machine printing
- Adhesive application with contact
- Viscosity 1,000 - 5,000 mPas
- Double-membrane pump
- Integrated weighing system
- Up to 32 satellite connections are possible



Control techniques

Communication

- Connection of all appliances to higher-ranking systems
- Profibus-DP, Ethernet, CAN Open, ASI, SNMP
- RobaPAR, software for external operation, administration and control of the appliances



Application controls

- ... from the integrated single control right to the complex 60-channel solution
- Modular use via software key
- Time, path, pressure control



Application monitoring

- Fully integrated monitoring of the adhesive on the product
- Reliable and easy to operate (teach-In)
- Suitable for hot and aqueous adhesives



Gear pumps
 Suitable for monomeric adhesives. Enables precise volumetric applications

Coldglue hoses
 Low to high pressure for the most diverse mediums



Application techniques



Bead & dot applicator heads
 Electric
 ■ Processing of low- to medium-viscosity dispersion-type adhesives
 ■ Pressure range up to 25 bar

Pneumatic
 ■ Also suitable for adhesives containing fibres
 ■ Pressure range up to 100 bar



Spray heads
 ■ To glue uneven surfaces
 ■ For colour marking
 ■ For water wetting in case of 1C PUR



Coating heads
 ■ Coating head for lamination
 ■ High speed, up to 300m / min.
 ■ Precise distribution and quantity control
 ■ No cleaning
 FIFO principle



Sensorik
 ■ diverse Mess- und Kontrollverfahren
 ■ Messfrequenz 4 kHz (0.25 ms)
 ■ Temperatur, Reflexion, Kontur



handing on know-how and increasing customer value



Competent consultancy is a central aspect with Robatech. Rapid and professional support in project work, installations and service matters is of utmost importance to us. This includes the availability of a perfectly equipped test lab for customer trials or acceptance tests, and fully equipped cars for our field service specialists.

Our hotline is available to you for telephone support, on request also outside working hours.

In our training centre we train our own personnel and are also pleased to pass on our know-how in applications to our customers.

We are familiar with numerous different branches of the industry. Some of these branches vary very considerably as far as the applications of the glueing systems are concerned. While the adjustment to the diverse requirements and needs of these different branches is a major challenge to us, it represents also an important gain: The insight in other branches enables our engineers and technicians to engage in an internal exchange of information which leads to valuable ideas and solutions in our daily development work. In this way we encourage progress and come up with further new and revolutionary Robatech milestones – today and in future.

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Your worldwide partner for glue applications

Packaging Industry
Converting Industry
Printing Industry
Hygienic Industry
Woodworking Industry
Building Supplies Industry
Automotive Industry
Various Industries

Robatech USA Inc.
11660 Alpharetta Hwy
Roswell, GA 30076 USA
Tel. +1 770 663 83 80
Fax. +1 770 663 83 81
info@robatechusa.com
www.robatechusa.com

Robatech AG
Pilatusring 10
CH-5630 Muri
Switzerland
Tel. +41 56 675 77 00
Fax +41 56 675 77 01
info@robatech.ch
www.robatech.ch

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