



CORE COMPETENCE "TOTAL SOLUTION"

CUSTOMIZED METERING AND MIXING PLANTS

WHEN IT COMES TO BONDING AND
SEALING PROCESSES -
A STRONG PARTNER IN ALL
INDUSTRY SEGMENTS



WHO WE ARE – AND WHAT WE STAND FOR

Joined materials – metals, glass, plastics and composites can be found everywhere in our world, countless products are made out of them. Bonding technologies have more and more replaced traditional joining processes during recent years, and Reinhardt-Technik has adopted to this trend early.

What started in 1962 with a team of ambitious engineers has grown over half a century to a leading global supplier of dosing and mixing plants with a proven record of innovative solutions in the market place.

Processing liquid performance materials for bonding, sealing, moulding and surface treatment applications combined with system integration and process control are our well recognized core competences.

As a technology leader in the field of adhesive and sealant processing solutions we belong to the J. Wagner GmbH since 2012.

Wagner is a leading manufacturer of surface technology, with over 1,200 employees globally and headquarters in Markdorf near Lake Constance.

- › **Customer orientation**
- › **Partnership**
- › **Innovative products**
- › **Individual solutions**
- › **Automation**
- › **Reliable applications**
- › **Global service**

AN EXCERPT FROM THE REINHARDT TECHNIK STANDARD MACHINE PROGRAM

Reinhardt-Technik plants offer volumetrically displacing dosing systems, such as piston-, gear- and progressive cavity pumps for processing of single - and multicomponent materials such as

polyurethane, polysulfide, epoxy, silicone and LSR.

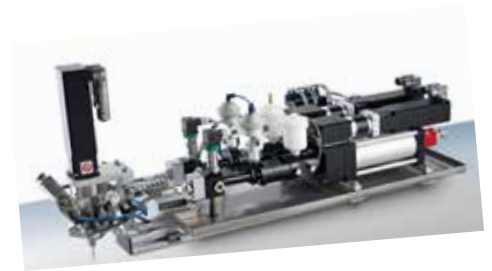
ONE- AND TWO-COMPONENT METERING AND MIXING PLANTS



Conti Flow Vario



eZbotic™



Vecdos™ eTwin



Ecostar evoclass



Visco Star 20 plus



Conti Flow Versa

The tasks of our customers are the driving force behind our continued innovation and the development of our technology.

Thus, not only standard systems define our product range.

Further to the metering and mixing technology,

Reinhardt-Technik supplies complete systems, such as production cell with CNC-handling or robots, coupled with work piece transport systems as stand-alone solutions or for integration into a production line.

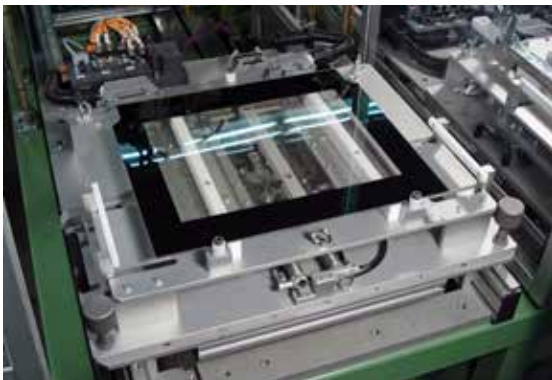
DOMESTIC APPLIANCES

V-ZUG: VARIETY ALL AROUND BONDING ON OVENS

For company V-Zug Reinhardt-Technik designed two complete systems for bonding of different parts on ovens with a great variety - for example, fixing elements and switch covers were glued.

At the first plant Reinhardt-Technik fulfilled the high process safety requirements by means of a metering control via weighing shots (see figure). The electrical dosing technology, which stands for precision, was used for the second complete system,

thus making the metering control obsolete.



GRONBACH: A PLANT SYSTEM WITH UNIVERSAL APPLICATION

This project is a very innovative product of company Gronbach, where the central inlet ring for the extractor is built in the ceramic hob. The first application is the bonding of angles onto the ceramic hob. The special feature of this system is a fixed dosing

system with fixed flaming. A further application is the bonding of bars with glass panes which are inserted into food steamers.



BSH: CONCRETE WEIGHTS ON PLASTIC SOAP WATER CONTAINERS FOR WASHING MACHINES

The demands placed on a glued connection of concrete weights with soap water containers must become clear when you consider the enormous dynamic load in mind it must withstand. For this purpose the container where treated by means of plasma. The concrete weights were also treated before applying the

adhesive (a boosted polyurethane) with infrared emitters, brushes and primers. Reinhardt-Technik built two plants of this type with three robots for the various work steps for BSH-Nauen.



RENEWABLE ENERGIES

VISSMANN: SOLAR COLLECTOR PRODUCTION AT THE HIGHEST LEVEL

The last step to the completion of a water collector is the bonding of the glass on the frame, which is fed from the Assembly in the sealing machine.

Tandem feeding units provide an uninterrupted production process.

The adhesive application into the frame groove is carried out automatically — the glass is fixed on the frame and at the same time the collector is sealed against weather influences for a long time. Powerful hydraulic piston dozers which accurately carry out the dosing of the adhesive and mix it homogeneously over the outlet unit with a static mixer, reduce the processing time. The outlet unit is moved with a 3-axis CNC system.

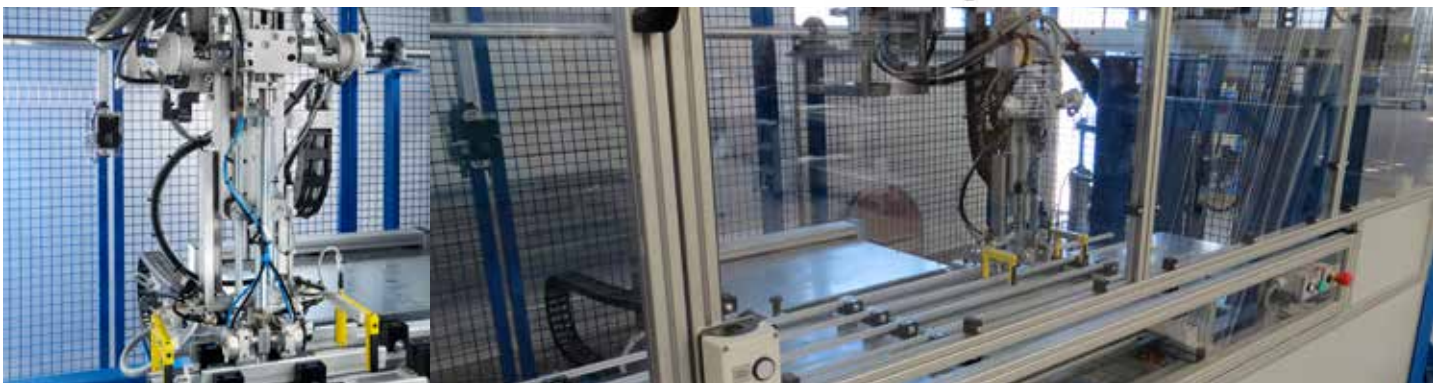


BUILDING & CONSTRUCTION

PALME: PROFILE GLUING FOR SHOWER ENCLOSURES

Here a high degree of precision is required for bringing the adhesive into the profile. This is provided by means of the volumetric dosing technology. The material is applied with a 3-axis system.

The workpiece carriers can be pulled out in order to provide a comfortable and safe placing of the profiles.



VEHICLE MANUFACTURING

SHANGHAI SET: BONDING OF TRUCK WINDOWS

With a fixed nozzle a triangle adhesive joint is applied onto the glass panes which are handled by means of robots. A 7th robot axis (rotation of the material application nozzle in connection with a robot) is required for alignment of the nozzle. The

required high output is achieved with electrical dosing systems of frame size 3 which guarantee a long service life of the pumps.



AUTOMOTIVE SUPPLIER

KÜSTER: BONDING OF „WINDOW AND BAR“ FOR CABRIOS

„The successful and cooperative relationship between Reinhardt-Technik and Küster Automotive Door System (Küster ADS) started 10 years ago. At that time, for the process “bonding of window and bar” a 2-axis dosing system for a one-component

adhesive was needed.

New products required a 3-axis dosing system for our production.



Reinhardt-Technik submitted a quotation for a system that fulfilled a flexible concept for future requirements of our facilities. Additional points for our decision for Reinhardt-Technik were their competent service, good user training, individual solutions as well as the proximity to our site in Ehringshausen.

The special points required in our specification – such as monitoring of processes, setting up new points as well as easy operation of the plant – were implemented in a very good way.”

Quote Stephan Kohlauer,

Process planning Küster ADS

YOUR GLOBAL PARTNER FOR CUSTOMIZED METERING AND MIXING PLANTS

- **PRE-TREATMENT**
- **APPLICATION OF ONE -, TWO - AND MULTI-COMPONENT**
- **ADHESIVES**
- **ROBOT SYSTEMS**
- **PLANT VERSIONS FROM MANUAL TO FULLY AUTOMATIC**
- **JOINING TECHNIQUES**
- **CURING SYSTEMS FOR BONDED PARTS**
- **INTERFACES**
- **QUALITY ASSURANCE**
- **PROCESS DATA ARCHIVING AND PROCESS VISUALIZATION**
- **REMOTE MAINTENANCE SYSTEMS**



We look forward to discuss further details with you.

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