



YOUR PARTNER FOR METERING AND
MIXING TECHNOLOGY

RENEWABLE ENERGIES



WHO WE ARE – AND WHAT WE STAND FOR

Joined materials – metals, glass, plastics and composites – is omnipresent in our world, countless products are manufactured from them. Bonding technologies have become more and more replaced traditional joining processes during recent decades, and Reinhardt-Technik is recognized as a pioneer of this trend.

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

Our well received core competences are the processing of liquid performance materials for applications of adhesives and sealants, dispensing technology and surface treatment – combined with full systems integration and process control.

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

Wagner is a leading manufacturer of surface technologies with more than 1,400 employees worldwide and headquarters in Markdorf near Lake Constance.

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

RENEWABLE ENERGIES

Even that renewable energies have been in the global focus for the last 30 years the utilization of renewables is not really new – renewable energies have been used since the beginning of mankind. The power of water, wind and the sun worked for people thousands of years ago. Nevertheless the last two centuries have been dominated by fossil and nuclear energies though.

Looking at the advantages of renewable energies it is obvious that those will further need to be extended in the future. The major reason, why renewable energies are still in competition with the traditional fossil and nuclear energies, is the commercial aspect.

The industry will need to further develop systems which are commercially more attractive and provide substantial and sustainable commercial advantages for all regions, this includes compact and efficient energy collectors as well as generators like wind towers, photovoltaic or solar panels but also energy storage and transportation systems.

Constantly increasing demands for higher productivity and quality require reliable processing equipment and an appropriate quality control.

Adhesives and sealants need to be very accurately processed and precisely applied in order to ensure an optimum bond and sealing.

Reinhardt-Technik is therefore your preferred supplier of adhesive and sealant processing equipment for renewable energy systems.

We offer a wide range of products to process liquid materials in different applications taking the manufacturing environment and local requirements into account.

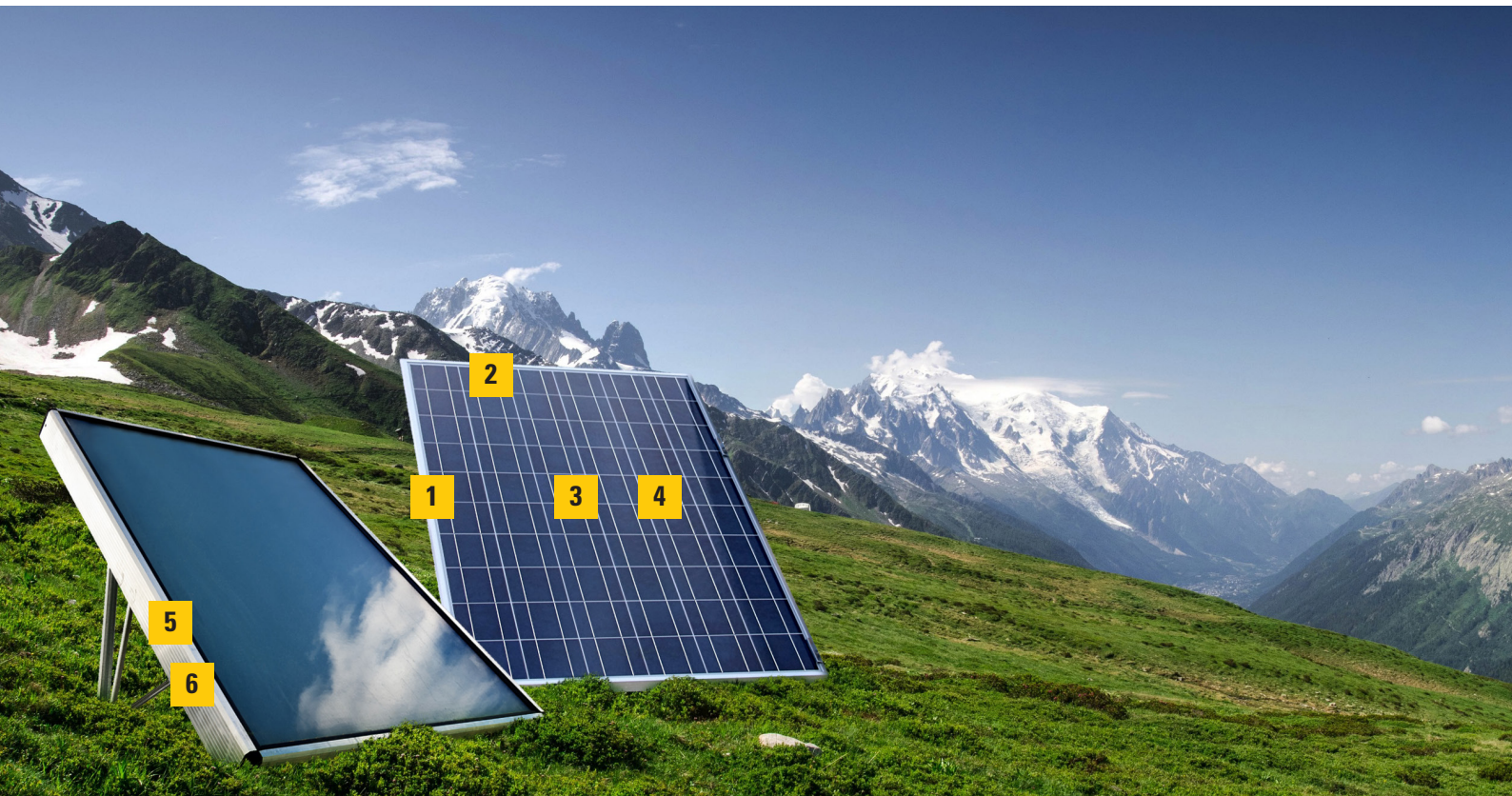
From simple manual applications to complete solutions with fully automated robot cells with integrated process control – complemented by outstanding service and spare parts availability.

Reinhardt-Technik is also a partner of major adhesive manufacturers, helping to optimize processes and find new solutions for the market – for the benefit of our customers.

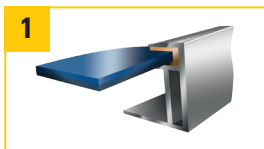
Learn more about manufacturing applications and get convinced about our products and system solutions - Made in Germany.



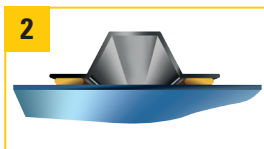
KEY APPLICATIONS



Solar Panel / PV Panel



- Bonding and sealing of frame to glass panel
- Bonding of corner connections

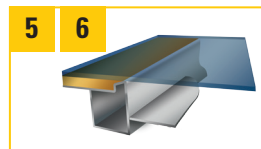


- Bonding of backrails to frameless PV panels



- Casting / Encapsulation of junction box
- Bonding junction box to panel

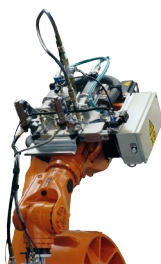
Solar Thermal Modules



- Bonding and sealing of panel frames
- Bonding of bottom plates

Conti Flow Robot

Configurable gear metering system



Conti Flow Vario

Precision gear metering system



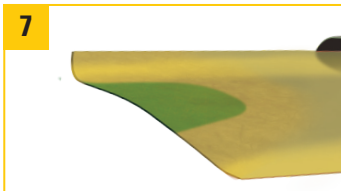
Conti Flow Versa

Versatile two component gear metering and mixing plant for highest precision

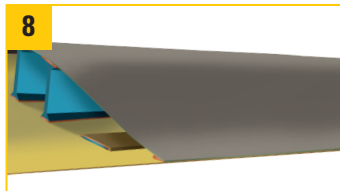




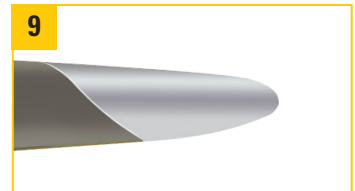
Wind rotor blades



- Infusion process



- Bonding of rotor blades shells



- Gelcoat process

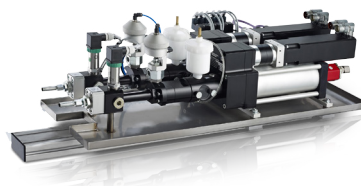
eZbotic

Standardized robot cell



Vecdos eTwin

Precision shot meter system



ContiPro

Progressive cavity metering system



PRODUCT-SOLUTION-MATRIX

| | APPLICATION | MATERIALS | SOLUTION |
|----------------------|--|--|--|
| Solar / PV Panel | - Bonding and sealing of frame to glass panel - Bonding of corner connections | 2K Silicones | <ul style="list-style-type: none"> Conti Flow Robot Conti Flow Versa Vecdos eTwin |
| | - Bonding of backrails and junction box to panel | 2K Silicones | <ul style="list-style-type: none"> Conti Flow Robot Conti Flow Versa Vecdos eTwin |
| | - Bonding junction box to panel | 2K Silicones | <ul style="list-style-type: none"> Conti Flow Robot Vecdos eOne |
| | - Casting / Encapsulation of junction box | 2K Silicones 2K Epoxies 2K Polyurethanes | <ul style="list-style-type: none"> Conti Flow Robot ContiPro Conti Flow Vario Vecdos eTwin |
| Solar Thermal Moduls | - Bonding and sealing of panel frames | 2K Silicones | <ul style="list-style-type: none"> Conti Flow Robot Conti Flow Versa Vecdos eTwin |
| | - Bonding of bottom plates | 2K Silicones | <ul style="list-style-type: none"> Conti Flow Robot Conti Flow Versa Vecdos eTwin |
| Wind Rotor Blades | - Infusion process | 2K Epoxies | <ul style="list-style-type: none"> Conti Flow HV-INFUSION |
| | - Bonding of rotor blades shells | 2K Epoxies 2K Polyurethanes | <ul style="list-style-type: none"> Conti Flow HV |
| | - Gelcoat process | 2K Polyester resins | <ul style="list-style-type: none"> Conti Flow GC Compact |

BENEFITS

- Innovative solutions help to save material, increase productivity and enhance sustainability.
- Robust 1K and 2K processing system for reliable operation in demanding production environments.
- Easy handling due to operator friendly and ergonomic design
- Optimized design and functionalities based on close cooperation with material manufactures.
- Standardized product portfolio provides on the spotservice and spare parts availability.

AUTOMATION

The challenges of our customers continuously drive our on going innovations and technology developments.

New applications call for new ideas.

Beside our standard product lines we provide customized solutions for various bonding and sealing applications – from product adoptions up to fully integrated robot assembly cells.





YOUR GLOBAL PARTNER FOR **RENEWABLE ENERGIES**

- **Processing and application of single and multi component adhesive and sealants**
- **Ambient or temperature conditioned equipment**
- **Complete systems for manual or fully automatic processes**
- **Innovative process control and verification**