



YOUR PARTNER FOR METERING AND  
MIXING TECHNOLOGY

**AUTOMOTIVE**



# 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**

# AUTOMOTIVE

Nowadays consumers have very high expectations for their new vehicles. While it is still about transportation, cars today are much more than that.

A vehicle shall reflect the lifestyle of its owner which has led to an incredible diversity of products and options offered by car manufacturers.

On one side it's about visual exterior and interior design, on the other side drivers also expect a maximum of safety and high level of comfort of their cars like driver and passenger infotainment and assistance systems – "connected car" is the keyword for the future.

Increased consumer requirements for new features and options paired with governmental regulations to achieve a higher sustainability regarding fuel consumption as well as manufacturing resources continue to challenge the automotive industry – especially the manufactures need to archive these goals with fewer resources, smaller budgets and tighter schedules.

Bonding and sealing applications have already replaced many traditional joining processes since all the benefits of adhesives and sealants speak for themselves:

- **Possible downsizing and weight reduction**
- **Increased quality**  
(e.g. sound and vibration dampening)
- **New material combinations possible**  
(e.g. composite materials)
- **Simplified production processes**

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

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

Reinhardt-Technik is therefore your preferred supplier of adhesive and sealant processing equipment in the automotive industry.

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

1

## Sun-Roof systems

- Direct Glazing
- Plastic-to-metal bonding

## Direct glazing

- Front, rear, side Windows

2

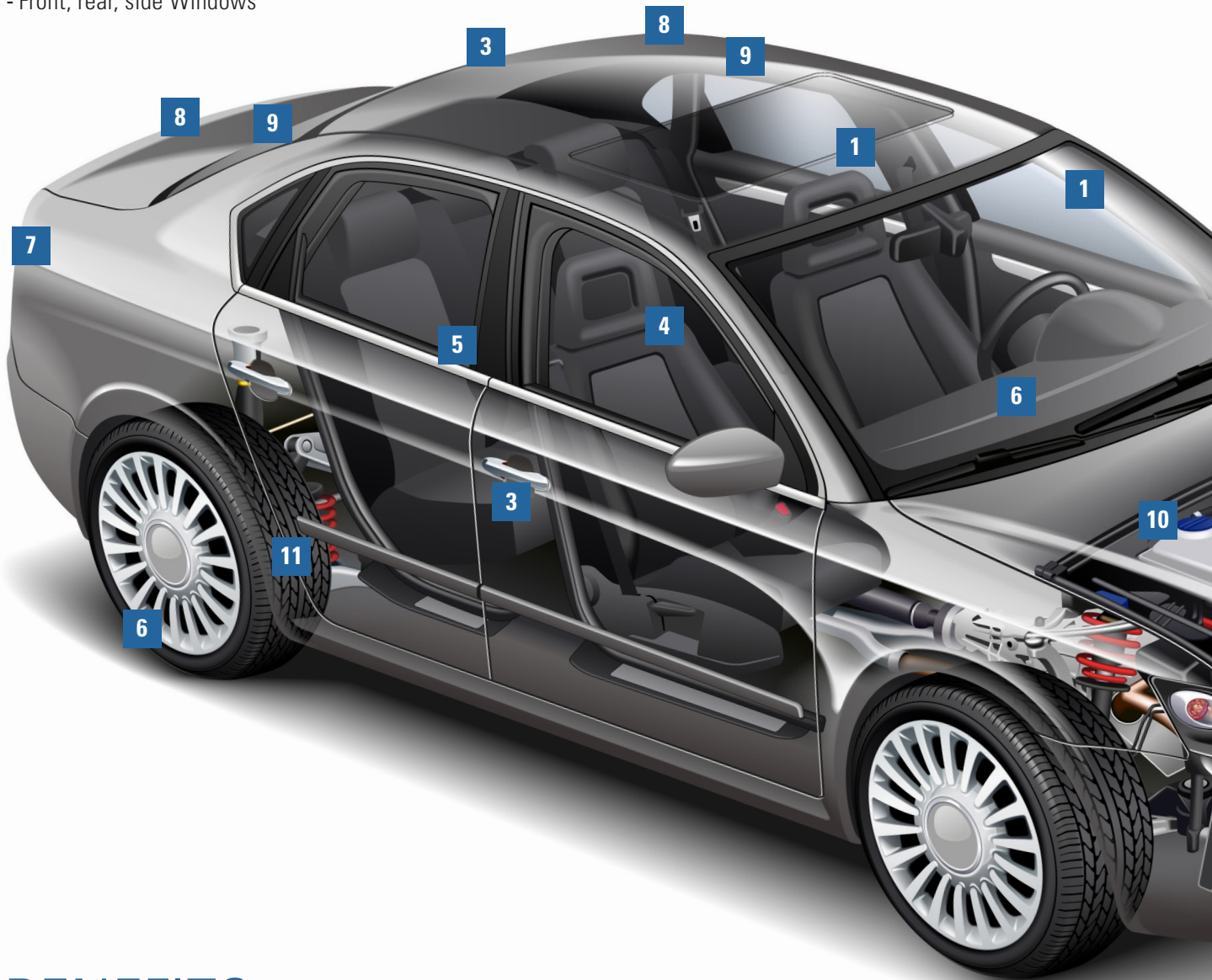
## Headlights

- Lens bonding/sealing
- Halogen lamp socket assembly
- LED-module heat sink bonding

3

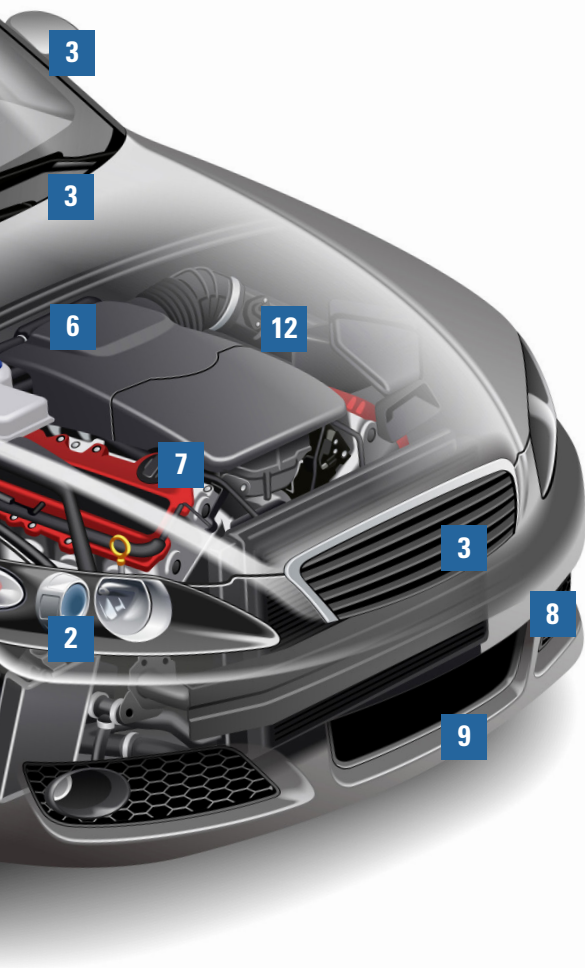
## Exterior components

- Door handles
- Mirror housings
- Roof spoilers
- Front grill
- Wiper panels



# 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.



4

**Interior components / Cockpit**

- Window lifter
- Seat structures
- Airbag assembly
- Loudspeaker assembly
- E-motors assembly

5

**Application of acoustic foam**

into cavities of body structure

6

**Encapsulation / Potting of electrical components**

e.g. PCBs, connectors, sensors, airbag control units, side airbag release relays

7

**Formed in place gasketing**

- HVAC system
- ECUs
- Rear lights and CHMSL
- Crankshaft and cylinder head housing

8

**Composite components bonding**

- Roof parts
- Lift and tail gates
- Front panels and bumpers

9

**In-mold-coating for paintable class-A surfaces**

- Roof parts
- Lift and tail gates
- Front panels and bumpers

10

**Injection mold silicone gaskets**

- Sensors
- Connectors
- HVAC housings/system

11

**Shock absorber assembly**

12

**Servo-Drive sealing**

**Conti Flow Vario**

Precision gear metering system



**Vecdos eTwin**

Precision shot meter system



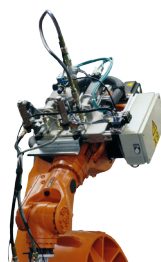
**eZbotic**

Standardized robot cell



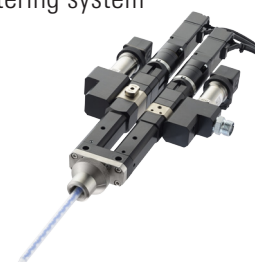
**Conti Flow Robot**

Configurable gear metering system



**ContiPro**

Progressive cavity metering system



# PRODUCT-SOLUTION-MATRIX

APPLICATION	MATERIALS	SOLUTION
Sun-Roof Systems - Direct Glazing - Plastic-to-metal bonding	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Headlights - Lens bonding/sealing - Halogen lamp socket assembly - LED module heat sink bonding	1K Polyurethanes 2K Silicones	<ul style="list-style-type: none"> <li>■ RT Warm Melt 800</li> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Direct Glazing - Front, rear, side windows	1K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Exterior Components - Door handles - Mirror housings - Roof spoilers - Front grill - Wiper panels	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Interior Components - Window lifter - Seat structures - Airbag assembly - Loudspeaker assembly - E-motors assembly	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Cockpit bonding	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>
Application of accoustic foam	2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow</li> </ul>
Encapsulation / Potting of electrical components e.g. - PCBs - Connectors - Sensors - Airbag control units - Side airbag release - Relays	2K Silicones 2K Epoxies	<ul style="list-style-type: none"> <li>■ Conti Flow Vario</li> <li>■ ContiPro</li> <li>■ eZbotic</li> </ul>

## APPLICATION

## MATERIALS

## SOLUTION

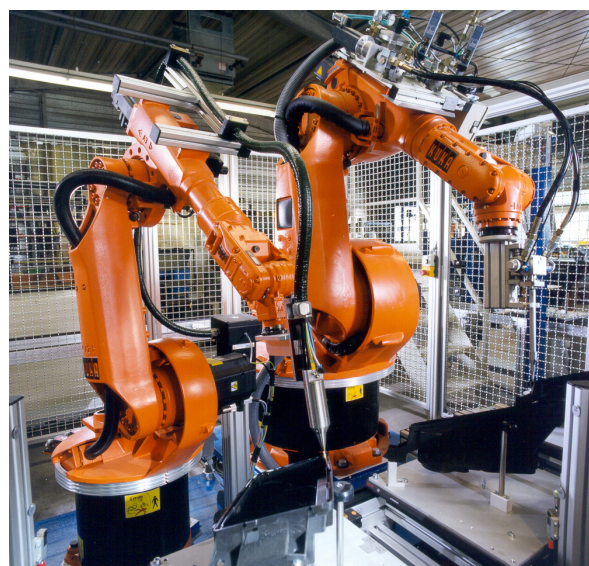
Formed in Place Gasketing (FIPG) <ul style="list-style-type: none"> <li>- HVAC system</li> <li>- ECUs</li> <li>- Rear lights &amp; CHMSL</li> <li>- Crankshaft/Cylinder head housing</li> </ul>	2K Polyurethane foams 2K Silicones 1K Silicones	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> <li>■ eZbotic</li> </ul>
Composite components bonding <ul style="list-style-type: none"> <li>- Roof parts</li> <li>- Lift and tail gates</li> <li>- Front panels and bumper</li> </ul>	2K Polyurethanes 2K Epoxies	<ul style="list-style-type: none"> <li>■ Conti Flow</li> <li>■ Vecdos eTwin</li> <li>■ ContiPro</li> <li>■ eZbotic</li> </ul>
In-mold-coating for paintable class-A surfaces	1K Urethane acrylates	<ul style="list-style-type: none"> <li>■ IMCoatec</li> </ul>
Injection mold silicone gaskets <ul style="list-style-type: none"> <li>- Sensors</li> <li>- Connectors</li> <li>- HVAC Housings/System</li> </ul>	2K Liquid Silicone Rubber	<ul style="list-style-type: none"> <li>■ LSR ELA</li> </ul>
Shock absorber assembly	2K Polyurethanes	<ul style="list-style-type: none"> <li>■ Conti Flow</li> <li>■ Vecdos eOne</li> <li>■ ContiPro</li> </ul>
Servo-Drive sealing	1K Silicones 2K Silicones	<ul style="list-style-type: none"> <li>■ Conti Flow Robot</li> <li>■ Vecdos eOne</li> <li>■ Vecdos eTwin</li> </ul>

# 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 IN **AUTOMOTIVE MANUFACTURING**

- **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**