



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

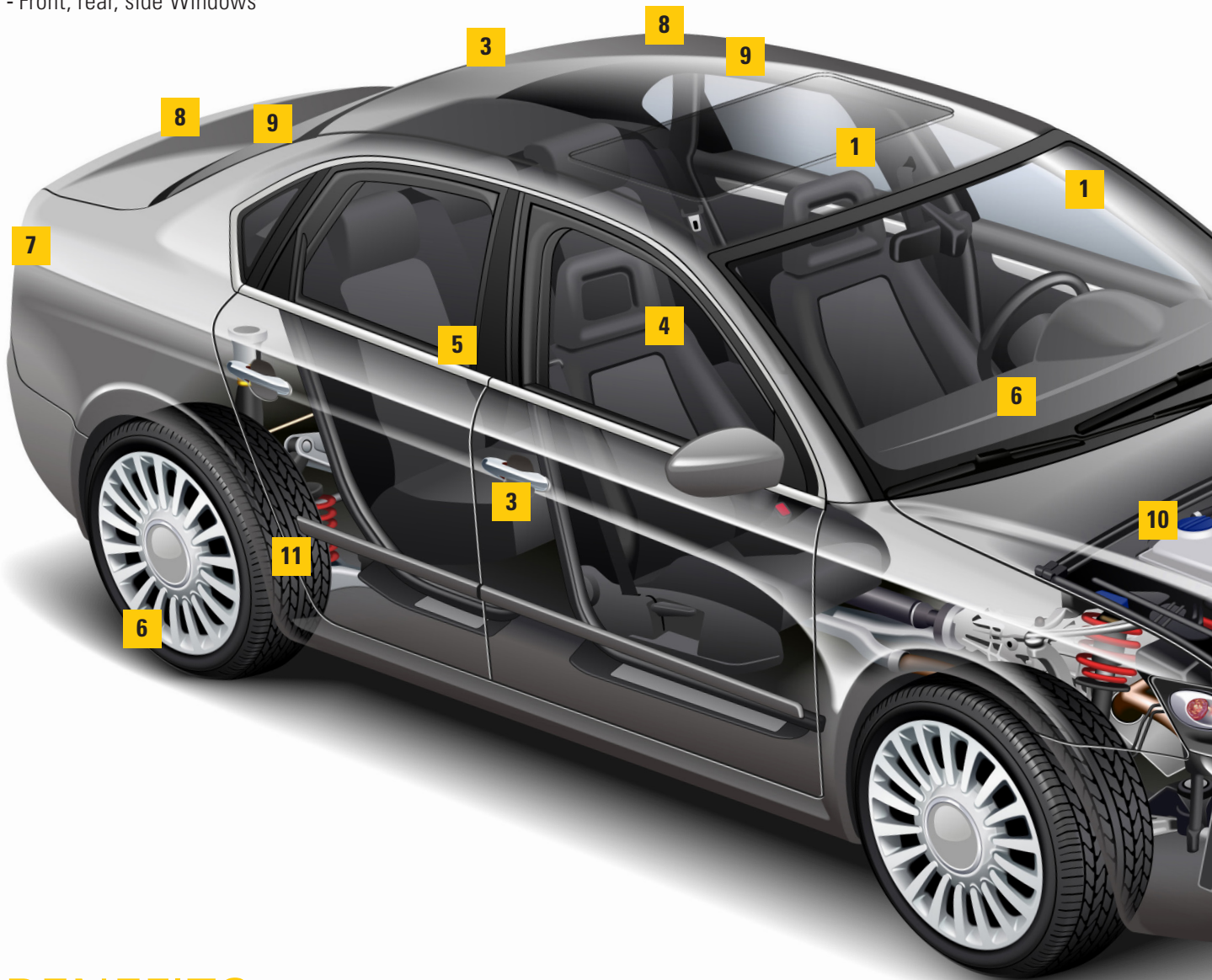
Headlights

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

3

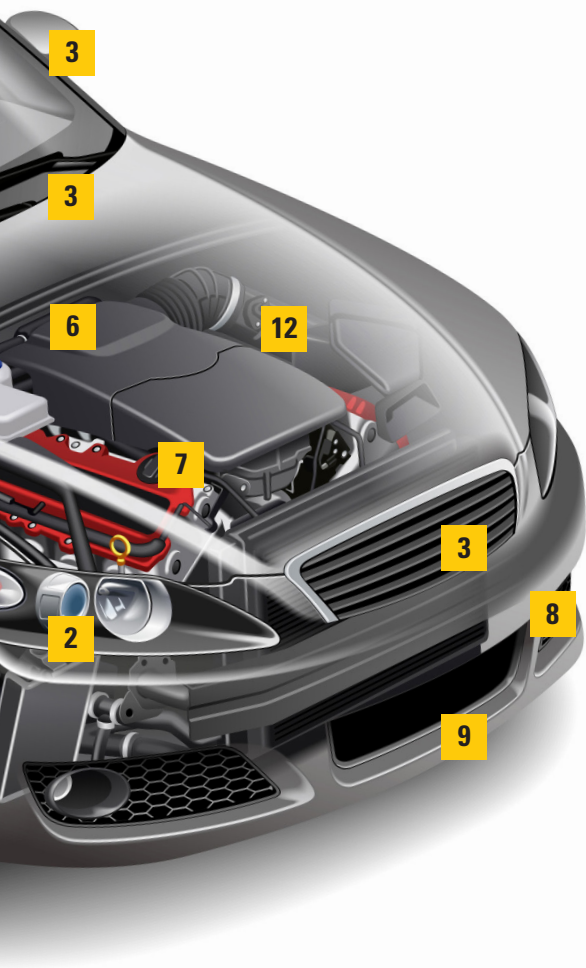
Exterior components

- 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

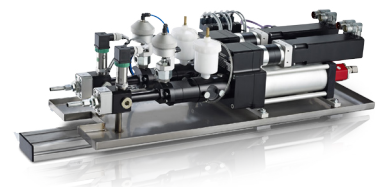
Conti Flow Vario

Precision gear metering system



Vecdos eTwin

Precision shot meter system



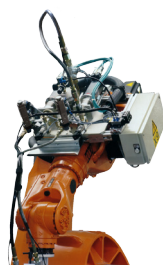
eZbotic

Standardized robot cell



Conti Flow Robot

Configurable gear metering system



Conti Foam

1K-PU-Foam gasketing 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"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Headlights - Lens bonding / sealing - Halogen lamp socket assembly - LED module heat sink bonding	1K Polyurethanes 2K Silicones	<ul style="list-style-type: none"> ■ RT Warm Melt 800 ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Direct Glazing - Front, rear, side windows	1K Polyurethanes	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Exterior Components - Door handles - Mirror housings - Roof spoilers - Front grill - Wiper panels	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Interior Components - Window lifter - Seat structures - Airbag assembly - Loudspeaker assembly - E-motors assembly	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Cockpit bonding	1K Polyurethanes 2K Polyurethanes	<ul style="list-style-type: none"> ■ Conti Flow ■ Vecdos eOne ■ Vecdos eTwin
Application of accoustic foam	2K Polyurethanes	<ul style="list-style-type: none"> ■ Conti Flow
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"> ■ Conti Flow Vario ■ ContiPro ■ eZbotic
Composite components bonding - Roof parts - Lift and tail gates - Front panels and bumper	2K Polyurethanes 2K Epoxies	<ul style="list-style-type: none"> ■ Conti Flow ■ Vecdos eTwin ■ ContiPro ■ eZbotic
In-mold-coating for paintable class-A surfaces	1K Urethane acrylates	<ul style="list-style-type: none"> ■ IMCoatec

APPLICATION

MATERIALS

SOLUTION

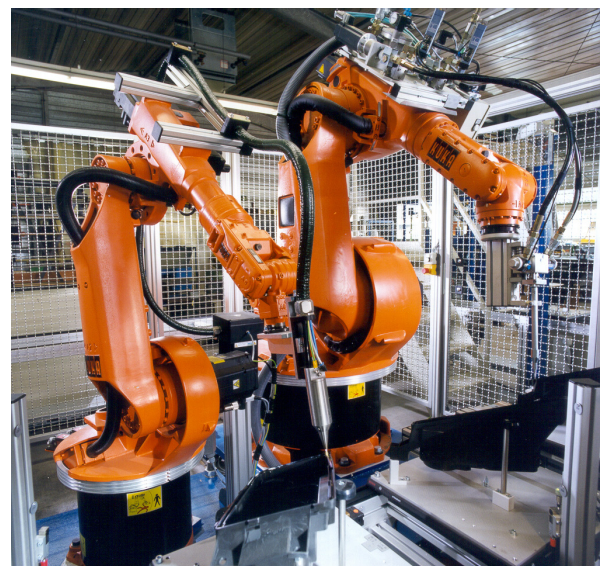
<p>Formed in Place Gasketing (FIPG)</p> <ul style="list-style-type: none"> - Fuse / ECU box - Timing belt cover - HVAC system and air filter - Fire wall - Water box and plenum chamber - Door modules and speaker - Door lock - B-Pillar cover - Rear lights and CHMSL - Crankshaft / Cylinder head housing - EV battery cover 	<p>2K Polyurethane foams 1K Silicones 2K Silicones</p>	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin ■ Conti Foam ■ eZbotic
<p>Injection mold silicone gaskets</p> <ul style="list-style-type: none"> - Sensors - Connectors - HVAC Housings/System 	<p>2K Liquid Silicone Rubber</p>	<ul style="list-style-type: none"> ■ LSR ELA
<p>Shock absorber assembly</p>	<p>2K Polyurethanes</p>	<ul style="list-style-type: none"> ■ Conti Flow ■ Vecdos eOne ■ ContiPro
<p>Servo-Drive sealing</p>	<p>1K Silicones 2K Silicones</p>	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin

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**