



YOUR PARTNER FOR METERING
AND MIXING TECHNOLOGY

AUTOMOTIVE



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 more than 1,400 employees globally and headquarters in Markdorf near Lake Constance.

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

AUTOMOTIVE

Consumers today have very high expectations for their new vehicles. Yes, its still about transportation but 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 hand side it's about visual exterior and interior design but drivers also expect a maximum of safety and high level of comfort in 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 since the manufactures need to meet 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 accurately processed and precisely applied in order to ensure an optimum bond and sealing.

Ever increasing demands for higher productivity and quality ask for reliable processing equipment and quality control.

Reinhardt Technik is a preferred supplier of adhesive and sealant processing equipment to the automotive industry.

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

Starting from simple manual applications to complete solutions with fully automated robot cells with integrated process control – plus service and parts availability

Reinhardt Technik is a partner to many 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 our products & solutions.....



KEY APPLICATIONS

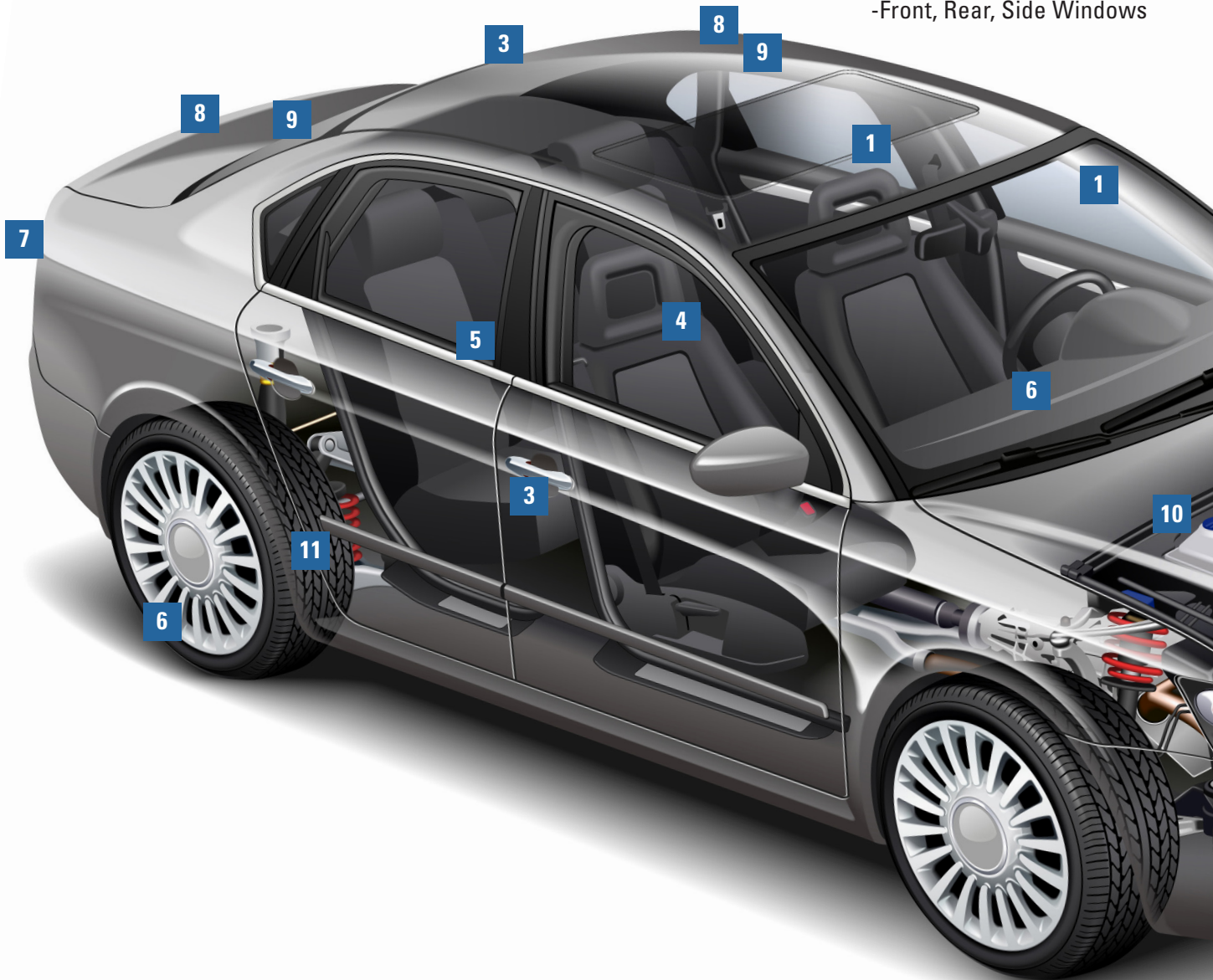
1

Sun-Roof systems

- Direct Glazing
- Plastic -to-metal bonding

Direct Glazing

- Front, Rear, Side Windows



BENEFITS

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

2

Headlight Bonding

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

3

Exterior Component Bonding

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

4

**Interior Component Bonding
Cockpit bonding**

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

5

**Application of acoustic foam
into cavities of body structure**

6

Encapsulation, casting of electrical components PCBs,connectors, sensors, air bag control units, side air bag release relays ...

7

Formed in Place Gasketing

HVAC system
ECUs
Rear lights & CHMSL
Crankshaft /Cylinder head housing

8

Composite components bonding

- Roof parts
- Lift gates, tail gates
- Front panels /Bumpers

9

**Create ready-to-coat surfaces
in-mould process**

Composite Exterior parts

- Roof parts
- Lift gates, tail gates
- Front panels /Bumpers

10

Injection mold silicone gaskets

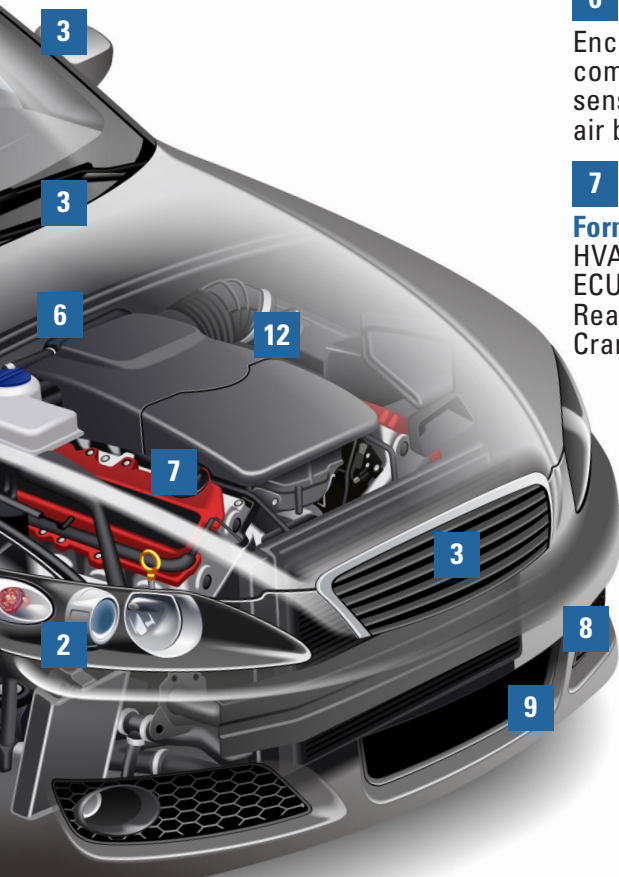
- Sensors
- Connectors
- HVAC Housings/System

11

Shock absorber assembly

12

Servo Drive sealing



Vecdos™ eTwin

Precision shot meter system



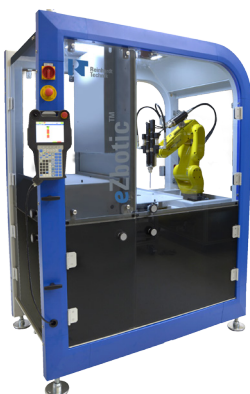
Conti Flow Vario

Precision gear metering system



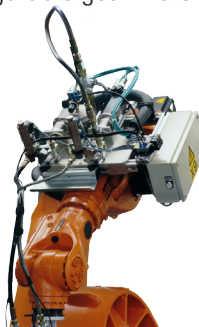
eZbotic™

Standardized robot cell



Conti Flow Robot

Configurable gear metering system



ContiPro™

Prog. cavity metering system



OVERVIEW MATRIX

APPLICATION	MATERIALS	SOLUTION
Sun-Roof Systems - Direct Glazing - Plastic -to-metal bonding	1K Polyurethane 2K Polyurethane	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Headlight Bonding - Lens bonding/sealing - Halogen lamp socket assembly - LED module heat sink bonding	1K Polyurethane 2K Silicones	<ul style="list-style-type: none"> ■ RT Warm Melt 800 ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Direct Glazing Windows (Front, Rear, Side)	1K Polyurethane	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne
Exterior Component Bonding - Door handles - Mirror housings - Roof spoilers - Front grill - Wiper panels	1K Polyethurane 2K Polyethurane	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Interior Component Bonding - Window lifter - Seat structures - Airbag assembly - Loudspeaker assembly - E-motors assembly	1K Polyethurane 2K Polyethurane	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin
Cockpit bonding	1K Polyurethane 2K Polyurethane	<ul style="list-style-type: none"> ■ Conti Flow ■ Vecdos eOne ■ Vecdos eTwin
Application of accoustic foam	2K Polyurethane	<ul style="list-style-type: none"> ■ Conti Flow
Encapsulation, casting of electrical components PCBs,connectors, sensors, air bag control units, side air bag release relays ...	2K Silicones 2K Epoxys	<ul style="list-style-type: none"> ■ Conti Flow Vario ■ ContiPro ■ eZbotic
Formed in Place Gasketing HVAC system ECUs Rear lights & CHMSL Crankshaft /Cylinder head housing	2K Polyurethane foams 2K Silicones 1K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne ■ Vecdos eTwin ■ eZbotic

OVERVIEW MATRIX

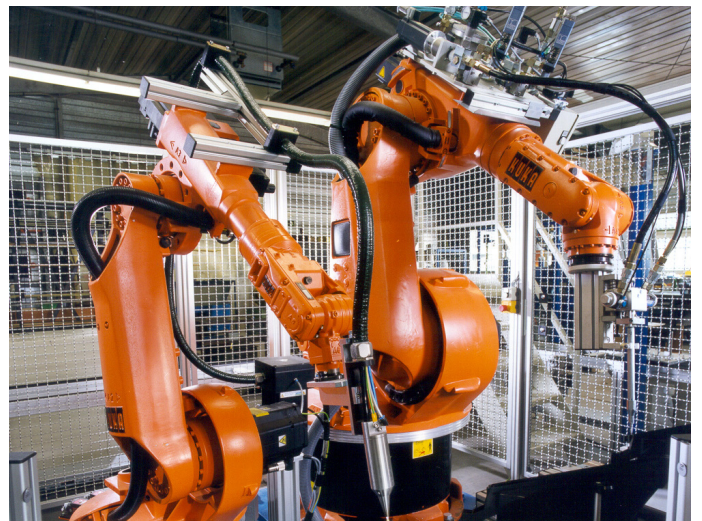
APPLICATION	MATERIALS	SOLUTION
Composite components bonding - Roof parts - Lift gates, tail gates	2K Polyurethane 2K Epoxy	<ul style="list-style-type: none">■ Conti Flow■ Vecdos eTwin■ ContiPro■ eZbotic
Create ready-to-coat surfaces in-mould process Composite Exterior parts	1K Urethane acrylat	<ul style="list-style-type: none">■ IMCoatec
Injection mold silicone gaskets - Sensors - Connectors - HVAC Housings/System	2K Liquid Silicone Rubber	<ul style="list-style-type: none">■ LSR ELA
Shock absorber assembly	2K Polyurethane	<ul style="list-style-type: none">■ Conti Flow■ Vecdos eOne■ ContiPro
Servo Drive sealing	1K Silicone 2K Silicone	<ul style="list-style-type: none">■ Conti Flow Robot■ Vecdos eOne■ Vecdos eTwin

AUTOMATION

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

New applications call for new solutions.

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



YOUR GLOBAL PARTNER IN AUTOMOTIVE INDUSTRY

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

