

YOUR PARTNER FOR METERING AND  
MIXING TECHNOLOGY

**AUTOMOTIVE  
HEADLAMPS**

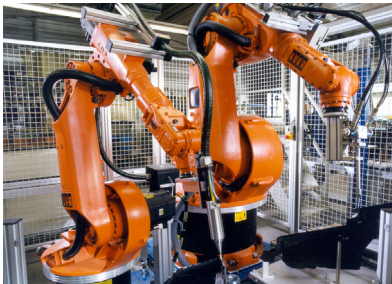
# AUTOMOTIVE LIGHTING

Lighting elements such as headlamps are key design as well as safety elements in the automotive sector.

Traditional materials like glass and metal have been already replaced by polymers. Bonding, sealing and encapsulation applications have already replaced many traditional joining processes. New technologies, such as LEDs, call for new processes. Only by bonding or sealing, they can be efficient.

Since all the benefits of adhesives and sealants speak for themselves:

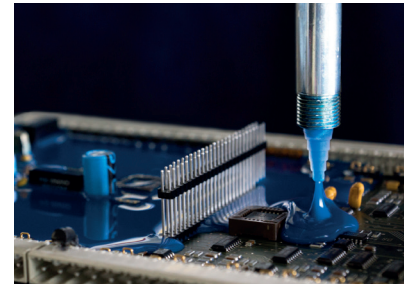
- Possible reduction in weight and component dimensions
- Increased quality (e. g. dampening of vibrations, impermeability)
- Advanced design freedom
- Simplified and more efficient production processes



AUTOMATED BONDING AND JOINING PROCESSES



LSR-INJECTION MOLDING



ELECTRICAL ENCAPSULATION

1

## Lamp socket

- Lamp encapsulation
- Assembling of halogen lamp sockets

2

## LED-Modules

- Adhesive bonding of LED-module heat sinks
- Encapsulation of LED-modules

3

## Connectors and wiring

- Electronic encapsulation and sealing of connectors
- LSR-Silicone gaskets (2K-Injection molding)

4

## Elastomer dust cap

- LSR-Injection Molding

5

## Housing and Lens

- Bonding and sealing of housing/reflector with lens (KAS)



HEADLAMPS • TAIL LAMPS • INDICATORS • CENTER HIGH MOUNTED STOP LIGHTS (CHMSL)  
FOG LAMPS • ENCAPSULATION AS WELL AS ASSEMBLY OF INTERIOR LIGHTING

# DOSING AND METERING SYSTEMS

1K PUR  
(HOTMELT)

REACTIVE 2K-MATERIALS  
POLYURETHANES • SILICONES

## RT Warm Melt 800

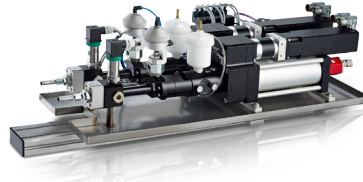
SLUGMELTER • DRUMUNLOADER



Through its special heating plate design in combination with a hydraulic piston system, the RT-WARM MELT 800 offers an unmatched melting and pumping capacity to meet the high demands of the headlamp industry.

## Vecdos eTwin

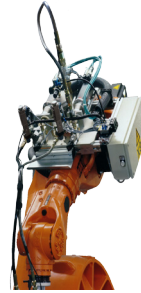
SHOT METER SYSTEM



The Vecdos series is a servo-driven high-performance dosing system and the perfect solution for intermittent applications.

## Conti Flow Robot

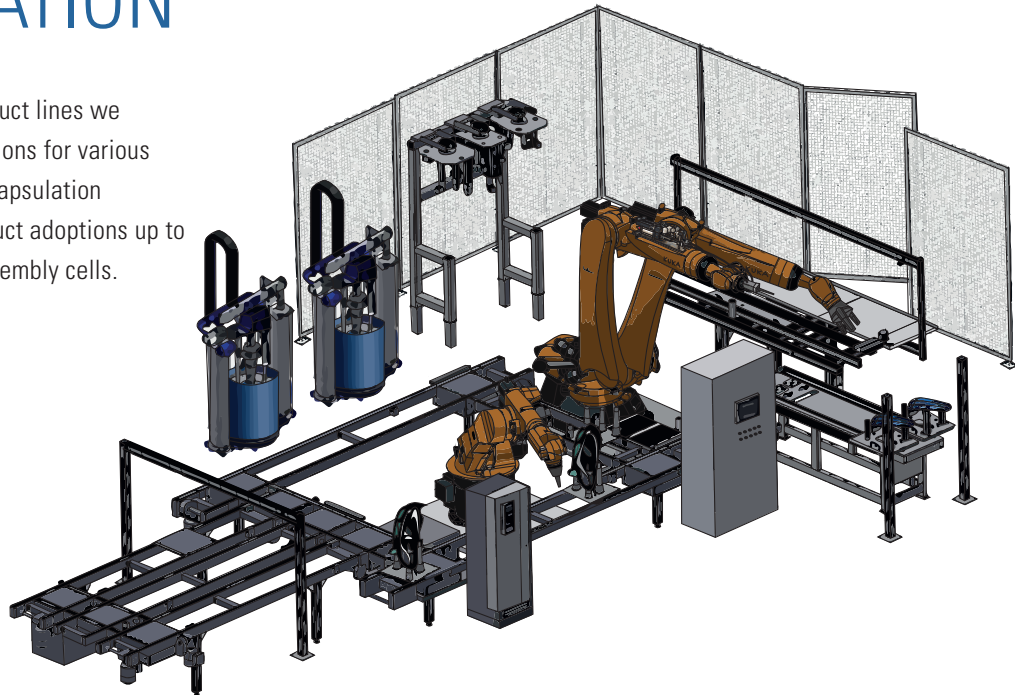
GEAR METERING



The Conti Flow Robot is the modular as well as flexible concept for an individualized and automated system solution in the segment of gear metering.

## AUTOMATION

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



PROCESS CONTROL ▪ METERING, MIXING AND APPLICATION ▪ ROBOT SYSTEMS  
PRE-TREATMENT ▪ QUALITY ASSURANCE ▪ CURING SYSTEMS  
PROCESS CONTROL AND VISUALIZATION ▪ REMOTE MAINTENANCE SERVICE



## OUR SOLUTIONS PROVIDE FOLLOWING BENEFITS

- **Pre-pressure control provides consistently perfect mixing quality and reduces risk of waste production**
- **Material flow in mixer block optimized for better mixing performance allows to use shorter mixers in many cases**
- **Clear visualization of system status reduces risks of operator failures and increases productivity**
- **Easy and safe exchange of material hobbicks, drums or slugs**
- **Optimized material feeding systems provide lowest material remnants rates**