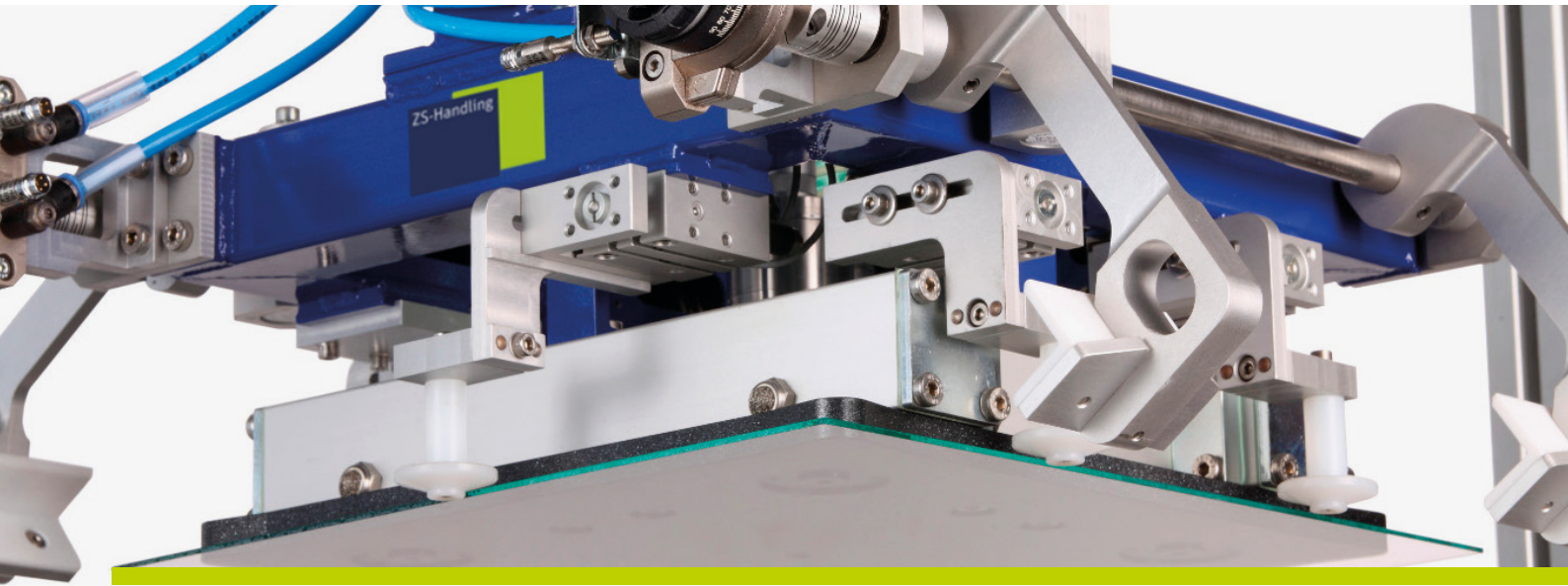
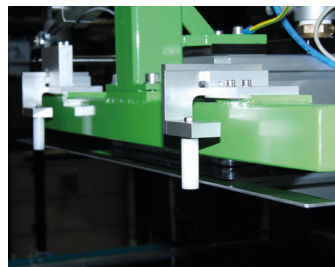
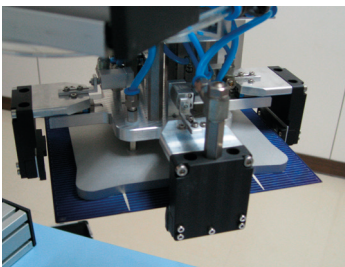


# RobotOverhead-Gripper



## CONTACTLESS LIFTING WITH ROBOT SYSTEMS

With the RobotOverhead-Gripper it is possible to lift sensitive materials contactless from above by means of a robot. Besides from gripping, he can be used for (un)loading, sorting and singulating.



### Contactless lifting of the substrate

The RobotOverhead-Gripper uses a combination of negative pressure and the Ultrasonic Suspension Technology to enable topside gripping of the workpiece. The substrate is kept at a distance, which enables contactless transport and prevents micro-scratches and contamination. Our technology allows a high flatness of the substrate during the handling process.

The RobotOverhead-Gripper is suitable for battery cells, glasses, foils, lenses, packaging, wafers and other sensitive materials.

It can be supplied in various versions, for example for the contactless transport of glass components in the manufacture of flat screens.

### Features of the RobotOverhead-Gripper:

- Contactless topside gripping
- High flatness of the substrate
- Different dimensions
- Safety hooks can be fitted as an option
- Customizable according to customer specifications

### Applications



[zs-handling.com](https://www.zs-handling.com)

### Contact and Sales:

ZS-Handling GmbH  
Budapester Straße 2  
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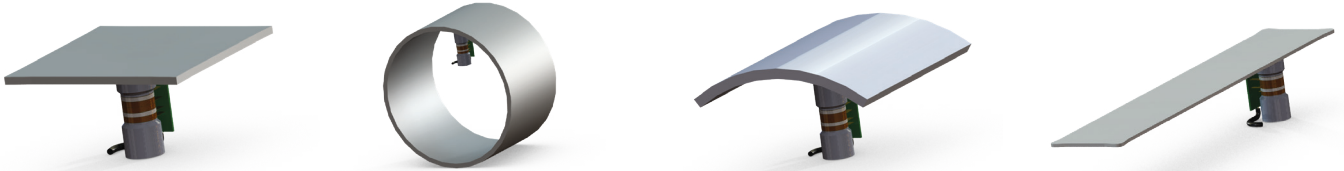
Phone: +49 941 60389-900  
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Mail: [sales@zs-handling.de](mailto:sales@zs-handling.de)

Further information can be obtained  
with the QR code on the right or  
under <https://www.zs-handling.de>



Innovative Technology:

# Ultrasonic Suspension



Our handling systems use the ultrasonic suspension technology to apply the handling forces to the workpiece and can be used in all atmospheric processes.

Vibration generators with separate power electronics generate a compressed air film with repulsive forces. Process combinations enable the generation of attracting forces.

The surrounding air or process gas is compressed by the ultrasound. This allows components to be lifted and guided along defined paths without contact. In combination with negative pressure, workpieces can also be gripped on the upper side - without touching them.

The ultrasonic suspension technology requires less energy than other non-contact handling technologies.

## **We at ZS-Handling have a mission:**

*to enable our customers to handle sensitive products in production and for testing purposes without contact.*

## **We make parts float.**

*Since 2006, we have been developing, producing and selling components and special machines for users in Europe, North America and Asia.*

## **Our Products**

LeviSolar-Gripper  
 LeviWafer-Gripper  
 MicroLevi-Gripper  
 OptoMicroMed-Gripper  
 RobotOverhead-Gripper  
 UltraLevi-Chuck  
 UltraLevi-Desk  
 LinearLevi-Conveyor  
 LinearOverhead-Transport-System  
 LinearLevi-Inspektions-Module  
 Modulares Waferhandling-System  
 Levi-Roll

## **Applications**



- Battery and fuel cell
- Foil
- Glass
- Lenses
- Medical Technology
- Packaging
- Wafers & Chips

## **Processes**



- Loading and unloading
- Conveying
- Gripping
- Inspection
- Sorting
- Separating