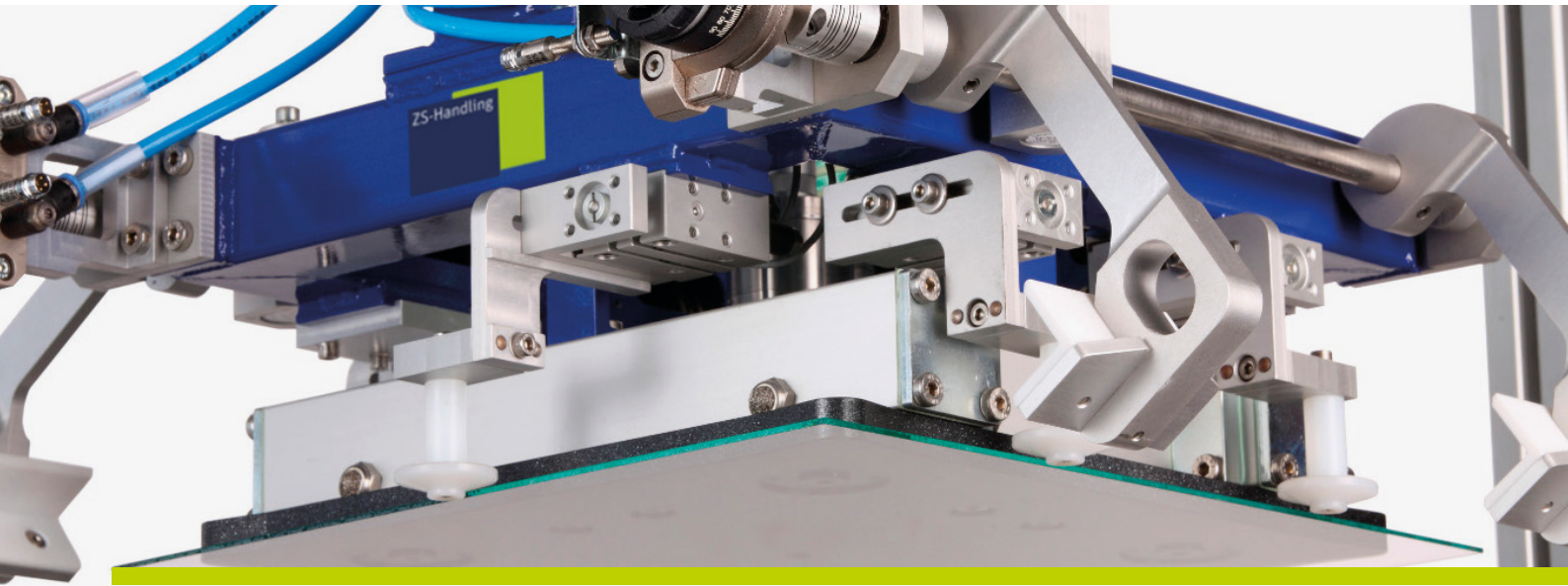
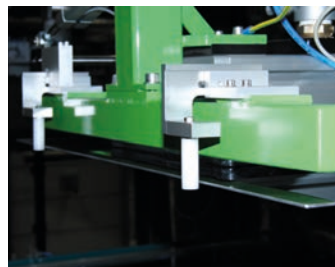
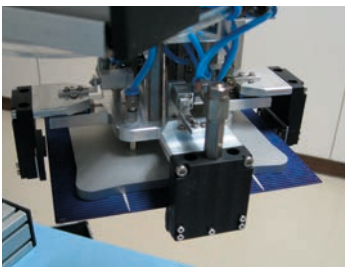


RobotOverhead-Gripper



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)

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Further information can be obtained
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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