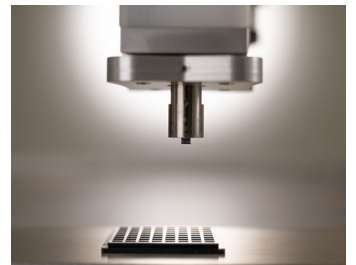
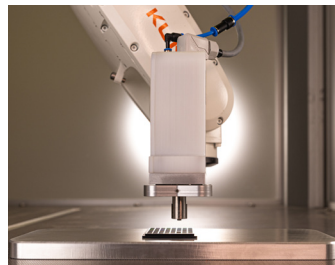
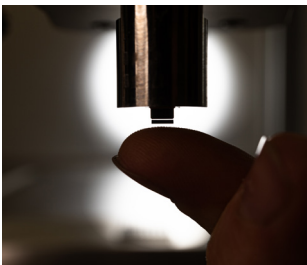


# MicroLevi-Gripper



## CONTACTLESS TOPSIDE GRIPPING AND PLACING OF SMALL PARTS

With the MicroLevi Gripper, sensitive materials can be picked and placed from above without any contact. It is used for handling small workpieces, such as small foils and glasses, dies, chips, and other small parts.



Through a combination of vacuum and ultrasound, attractive and repulsive forces act simultaneously on the workpiece and keep it at a distance, even when gripping from above. As a result, no contamination or micro-scratches can occur on the small part.

The MicroLevi gripper can be combined with tips of different sizes. Due to the small dimensions, the self-centering of the workpieces is guaranteed, so that no supporting side stops are required, and high-precision positioning is possible. The gripper can be moved sideways and swiveled.

### Features of the MicroLevi Gripper:

- Contactless topside gripping
- Self-centering of the workpiece
- High-precision pick and place
- No micro-scratches or other damages
- No particles because no air turbulence
- Low energy consumption

### Applications



[zs-handling.com](http://zs-handling.com)

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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  
 ManuLevi-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