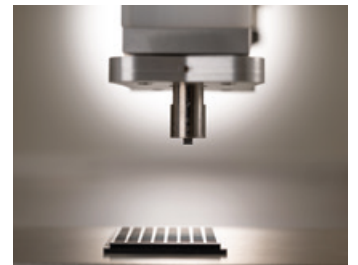
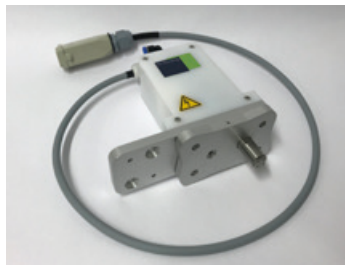
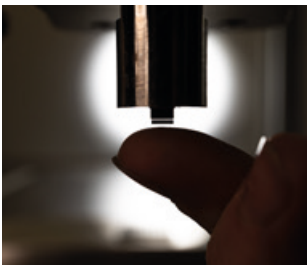


MicroLevi-Gripper



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

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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
 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

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