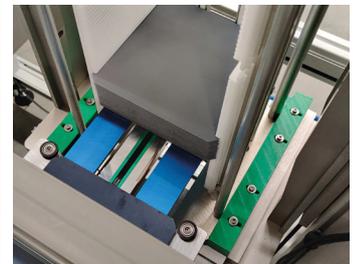
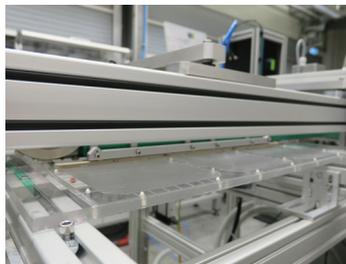
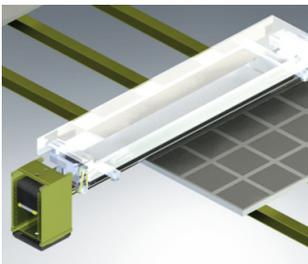


Levi-Loader



CONTACTLESS PICK & PLACE OF SOLAR WAFERS

With the Levi-Loader, several solar wafers can be picked up and transported simultaneously without any contact. Precise positioning of wafers on the matrix tray by linear motors or belts with pins is possible as well.



Significantly reduced breakage rate of solar wafers

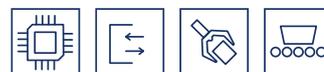
When gripping the wafers from above, a combination of vacuum and ultrasound is used. While vacuum provides an attracting effect on the wafers, the repulsive force of ultrasound keeps the distance between the Levi-Loader and its workpiece.

This eliminates the possibility of damage to the sensitive solar wafers in form of micro-scratches, micro-cracks or particle contamination. Therefore, the breakage rate of solar wafers can be significantly reduced by non-contact handling. The number of wafers being handled at the same time is variable and individually adjustable which allows very high throughput rates to be achieved.

Features of the Levi-Loader:

- Non-contact loading and unloading
- Simultaneous handling of multiple solar wafers
- Very high throughputs feasible
- No contamination and no micro-cracks
- Precise positioning of the wafers on the tray
- Individually adaptable

Applications



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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
 Levi-Loader

zs-handling.com

Applications



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

Processes



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