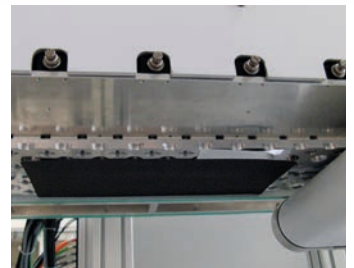
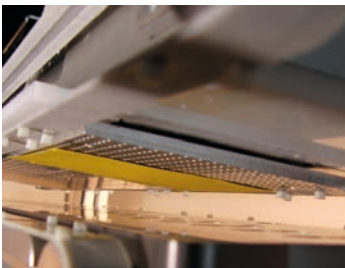


# LinearOverhead-Transport

## CONTACTLESS OVERHEAD TRANSPORT

With the LinearOverhead-Transportsystem it is possible to lift and transport sensitive materials contact-free from above.



### No air turbulences and thus no release of particles

The LinearOverhead-Transport-System uses negative pressure together with ultrasound, which enables contactless linear transport of components on the top side. With this system, the workpieces can be lifted from above and guided along defined lines.

Besides the linear transport, the topside conveyor can be combined with other systems to provide inspecting and sorting, as well as singulation of the substrate.

### Features of the LinearOverhead-Transportsystem:

- Contactless overhead lifting
- No damage of the substrate
- No air turbulences
- Available in different lengths
- Customizable according to customer specifications

### Applications



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

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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