The modular Waferhandling-System facilitates all possible handling processes of wafers. Loading and unloading, conveying, gripping, inspecting, sorting and singulating can be realized in one system.

No contact with the wafer during the handling in the system
Our Ultrasonic Suspension Technology keeps the wafer on distance the whole time and therefore prevents micro-scratches and contamination.

Features of the Modular Waferhandling-System:
- Modular design
- Suitable for clean rooms
- Customizable according to customer specifications
- Linking various processes in one system

Applications:

zs-handling.com
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