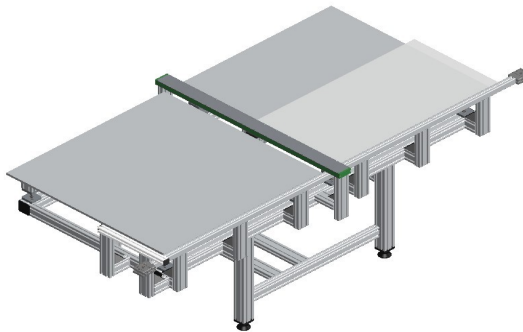


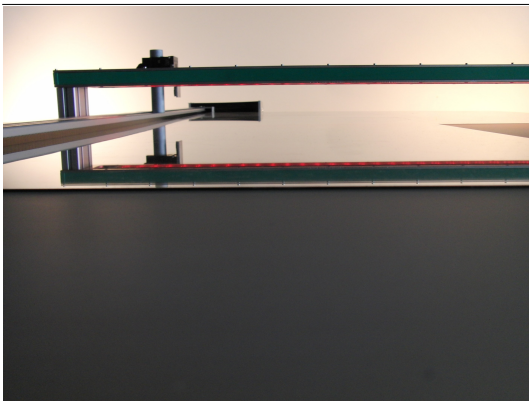
Glass Handling

Product Data

Non-Contact Glass Conveyor



Glass Conveyor



Glass Conveyor G8

Our handling systems using the ultrasound air bearing can be applied in any atmospheric process. The ultrasound air bearing generates a supporting gas-film (air or process-gas) between its surface and the substrate. Thus, any mechanical contact is avoided. The substrate is hovering on the supporting gas film at a height of 50 – 500 μm .

Modular Design

The non-contact conveyors facilitate a smooth and friction free transport of substrates. The systems are designed as modules which can be assembled to arrays of any length and width.

Double-Sided Inspection of Substrates

We offer two approaches to realize a double-sided inspection of substrates:

Intersection of the transfer system

with a gap up to 20 mm. This gap can easily be crossed by the substrates while the inspection can be done through this gap (e.g. by optical sensors, line cameras).

Using glass as material of the transfer system

The substrate can be inspected by optical means through the glass.

Applications

- Conveying
- Inspection
- Coating

Highlights

- No mechanical contact between handling-device and substrate
- Handling at processed/coated surfaces

Your benefits

The ultrasonic suspension technology offers a series of benefits compared to state-of-the-art solutions e.g. standard air bearings:

- No surface contact and therefore no damages due to non-contact handling
- More degrees of freedom in process and machine design
- Modular Design
- No air-supply/conditioning
- No dynamic turbulences in the environmental gas
- Lower energy consumption (up to -85%)
- High planarity of the substrate during transfer process ($\pm 5\mu\text{m}$)

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Technical Data

Length	100 – 1200 mm
Width	100 – 1200 mm
Electrical Equipment	<300 W, 230 / 110 V (AC)
Distance (Tool - Substrate)	50 – 70 µm
Interfaces Available	PROFIBUS, PROFINET, EtherCAT, Digital I/O

Substrates G1-G11

Your Experts in Ultrapure Handling

ZS-Handling GmbH
Budapester Strasse 2
93055 Regensburg
Germany

Telephone (EU) +49-941-60389-900
Fax +49-941-60389-999
info@zs-handling.com
www.zs-handling.com