

Product Data

Non-Contact Linear Transfer Module

Linear Transfer
Module
LGT 1675-AA

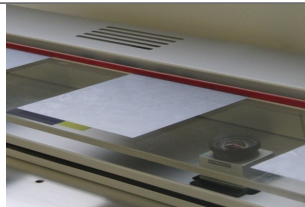


Our handling systems using the ultrasonic suspension technology can be applied in any atmospheric process. The ultrasonic suspension generates a supporting gas-film (air or process-gas) between its surface and the substrate. Thus, any mechanical contact is avoided. The substrate is hovering on or below the supporting gas film at distances of 100 – 500 μm .

Linear Track in Production Application

The substrate is hovering at a height of 200 – 500 μm . In a special setup the height can be increased up to 5 mm or more. The non-contact linear tracks facilitate the smooth and friction free transport of substrates.

Linear Transfer
Module with
Glass Sonotrode



Double-Sided Inspection of Substrates

There are two approaches to realize a double side 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

- Linear transport of substrates
- Substrate Inspection (e. g. line cameras)

Highlights

- 2 substrates/s (0.5 s/substrate)
- No mechanical contact between the tool and the substrate
- Double-Sided Inspection

Your benefits

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

- No surface contact
- No Damages
- More degrees of freedom in process and machine design
- Modular Design
- Low energy consumption

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Technical Data

Length	50 – 1200 mm
Width	50 – 1200 mm
Electrical Equipment	<300 W, 230 V AC (ultrasound) 20 W, 24 V DC (drives)
Distance (Tool - Substrate)	200 – 500 µm
Cycle Time	2 substrates/s (0.5 s/substrate)
Interfaces Available	PROFIBUS, PROFINET, EtherCAT, Digital I/O
Materials	Anodized Aluminium Teflon-Coated Aluminium Stainless Steel Glass

0.5 s/wafer

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