

## WAFERPRESENTER WP 112



Machine for semi-automatic loading and unloading of 100mm (4"), 160mm (6") and 200mm (8") from a cassette. Vacuum or vacuumless grabber.

# Wafer production without scratches!

## The Waferpresenter WP 112 from REA-tronic®.

**Machine for semi-automatic loading and unloading of 100mm (4"), 160mm (6") and 200mm (8") from a cassette. Vacuum or vacuumless Grabber.**

The latest product of AT-logic® is the REA-tronic® Waferpresenter. The machine handling of the wafer prevents unnecessary scratches which are caused by vacuum tweezers or suchlike.

The following programme is available for users:

- **Inspection**
- **Loading**
- **Unloading**
- **Sputter Modus**

The compact construction of the Waferpresenter as a tabletop unit enables the use of the wafer production in all areas.

## Technical implementation

The REA-tronic® Waferpresenter WP 112 includes the loading unit with scan sensor for 140mm, 160mm and 200mm cassettes, a vacuum grabber, a centring and introduction position, a touch panel to select the wafers and a controlling unit.

The loading unit is movable in vertical direction in order to scan the wafer inside the cassette and to arrive back at the exact position from which it was removed and brought back.

The vacuum grabber is movable in horizontal direction and removes the wafer from the cassette or respectively the loading of the wafer in the cassette. The wafer is held on the under side by the vacuum grabber. The vacuum grabber is movable in horizontal direction between the cassette position and the centring and introduction position.

The centring and introduction position includes 4 jaws, which are movable in vertical direction and pneumatically. The jaws are equipped with a 10mm x 45° chamfer-bevel and each have a supporting point for the wafer.

The 4 grabbers enable the wafer to be lifted after it is removed from the cassette and can then be easily removed manually with vacuum tweezers or returned to the centering position.

The mobile axis are controlled by sensors in their final position.

The „next wafer“ button is also performed as hardware.

# The advantages of the Waferpresenter

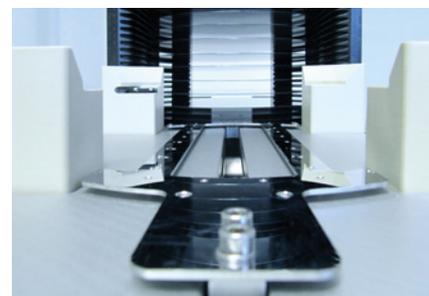
## Advantages in comparison to direct removal:

- + Increased safety by removal-scratches and particles on the above and below wafers are minimized.
- + Increased safety by sorting out- „cross-sorted“ wafers can be avoided.
- + Cassette must not be held and can therefore not be dropped.



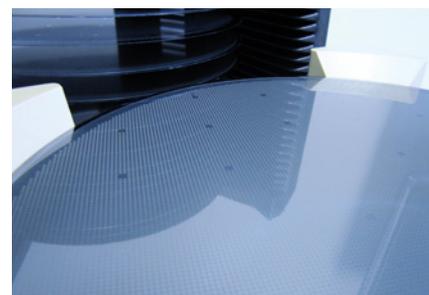
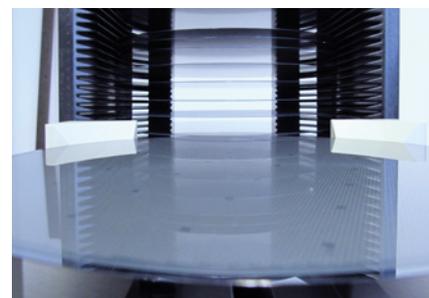
## Advantage in comparison to Waferpresenters with upright wafer presentation:

- + The wafer can be deposited in a safe, controlled and horizontal position and does not have to custom-fit in a slot.
- + The wafer is now presented in a similar inspection orientation position and does not have to be turned by 90°.
- + Even if the wafer falls from the manual tweezers in the in and output station, this will not fall easily on the edge. The risk that the wafer might fall on the top side is therefore reduced.



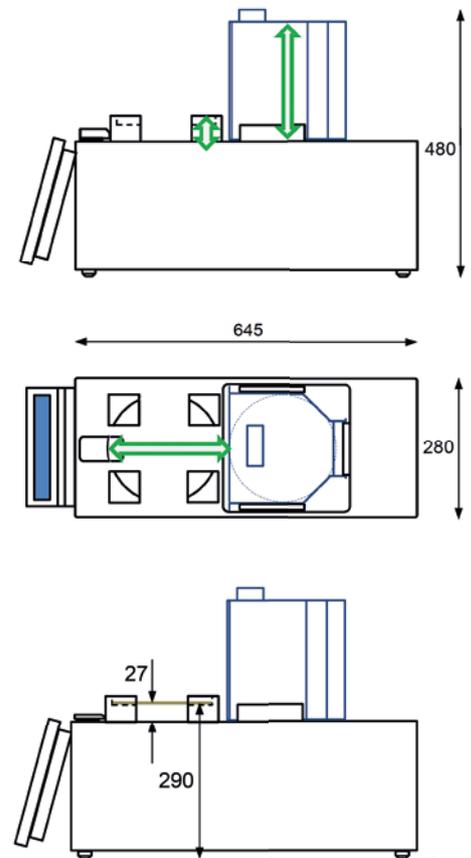
## Further Advantages of the REA-tronic® Waferpresenter WP 112:

- + The sputter machine modus enables one or more wafers to remain in the machine during loading before it is transferred back to the original slot.
- + Touchscreen to select the removed wafer.
- + Saving of standard selection.
- + Compact construction.
- + Mostly usage of standard components for the controlling and mechanics.
- + Connection for vacuum tweezers (internal allocation of vacuum so that it is only necessary to have 1 vacuum connection for the work station).



# Technical data

<b>Typ:</b>	REA-tronic® WP 112
<b>Model:</b>	Grabber for 140mm, 160mm and 200mm wafer, vacuum grabber or without vacuum. Reverse side handling by 180° turning of the cassette is possible.
<b>Art No.:</b>	RTC5-002-0001
<b>Voltage:</b>	230 VAC / 6A / 50 Hz
<b>Power:</b>	800 W
<b>Connection:</b>	El. current YM 3x1,5mm <sup>2</sup> ,(br,bl,yg) Vacuum PU or PTFE- pipe Dia 4mm over push-in compressed air PU or PTFE- pipe Dia 6mm over Push-in
<b>Dimensions:</b>	645mm x 280mm x 480mm + touchscreen: ca. 9" display, 370mm x 170mm x 360mm
<b>Weight:</b>	ca. 50 kg
<b>Clean room classification:</b>	ISO 4 according to DIN EN ISO 14644-1



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