



Photovoltaic

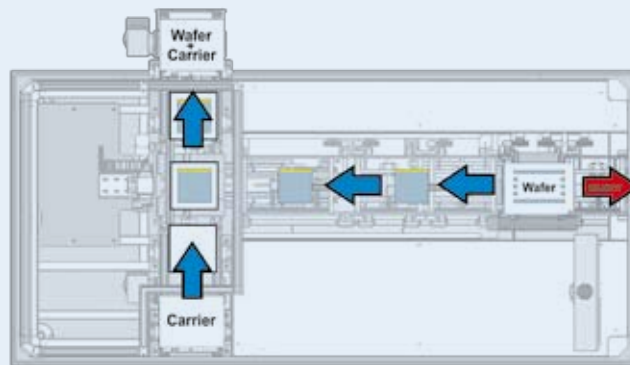


ecoSplit[®]C

Automatic Wafer Stack Splitter – To Carrier

Safe and fast separation of single wafers from the sawn stack

ecoSplit[®]
Separation of Single Wafers



Description

The function of the wafer stack splitter is to automatically separate single wafers from the sawn stack. The sawn and pre-cleaned stack is separated manually into short stacks before loading into the ecoSplit[®]C for safe and fast single wafer separation. The single wafers are then transported to the carrier station. Empty carriers are loaded into the carrier station automatically and are indexed slot-by-slot to accept the each split wafer from the transport system. When full, the carrier is sent for unloading. For loading and unloading the operator is alerted to the status by the control interface and a remote visual indicator. Optional a sprinkler system can be applied to prevent the wafers from drying out during the entire process.

Technology

The splitter uses a gentle 'dealing' technique to separate wafers from the bottom of the stack. This patented handling technology has been carefully researched, developed and proven to provide a fast, safe and low-stress method of separation which is unique.

Features and Benefits

- Automatic separation of wafers from the sawn stack, patented concept
- Automatic loading of wafers into carriers after separating
- Automatic sorting of wafers with sawing errors (double thickness)
- Capacity: 1200 wafers / hour
- For square wafers: 125, 156, 210 mm (change over kit required)
- 1 splitter lane, 1 reject lane for rejected wafers
- Capacity of 7 carriers (4 input, 2 output, 1 load), automatic carrier changeover
- Safe and reliable low-stress wafer handling (breakage rate < 0.3% has been achieved)
- Continuous operation by reloading the stack on demand
- Wafer thickness 160µm - 350µm
- Wet process to prevent drying
- The edge with any glue residue remains on the outside of the carrier for manual inspection.

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