

PHT

Link To The World

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Automatic Wafer Demounter

PWD2010



Summary

This is an automatic wafer peeling device after wire-saw (slice). By setting the ingot adhered to the plate fixture on the input side, it is a system that automatically performs rough washing, wafer peeling, wafer leaf washing, drying, and cassette storage. The peeled plate fixture is discharged on the unloader side. Peeling is performed one by one using a hot air heating method. The peeled wafers are washed by the leaf method. After two-fluid high-pressure cleaning, scrub cleaning, rinse cleaning, water absorption roller drying, and slit nozzle drying, each wafer is stored in the cassette of the unloader part by a horizontal multi-joint robot. Storage can be selected from the upper or lower stage of the cassette (25 pieces). The storage cassette can hold up to 6. It supports OHT transport.

Features

- Unique control for slide mechanism.
- Automated the cleaning process after wafer peeling, which was difficult.
- It automatically performs everything from cleaning the wafer cut with a wire saw in leaves after peeling from the beam to storing it in a cassette.
- Realizes low running cost.
- Design can be adapted to your ingot lifter.
- Loader ID reader can be added as an option.
- RFID function can be added to the unloader carrier part as an option.

Case Studies

I want to automate the manual peeling process and manage the information of the wafers.

Model	Automatic Wafer Demounter PWD2010	Automatic Wafer Demounter PWD2020
Version	Type0	Type1
Compatible Size	φ4 - 8"	φ12"
Storage	Cassette (25 sheets included)	
Storage Cassette	Up to 6 (subject to consideration)	
Plate Fixture	NTC-made & MB-made	
Drive Method	Motor Drive (Servo)	
Safety Mechanism	Presence or absence of cassette, presence or absence of wafer, overload detection, abnormal alarm, emergency stop.	
Power Supply	AC200V, 100A	
Weight	Approximately 5,000kg	
Option	ID reader in the loader section, RFID in the unloader section, wafer inversion, storage in multiple cassettes, area sensors, etc.	