

**PHT**

*Link To The World*

**PHT株式会社（英文名：PHT Inc.）**

〒115-00451-41-12 Akabane, Kita-ku, Tokyo

TEL:03-6750-5232 FAX:03-6762-9587

E-Mail:info@pht.co.jp

<https://www.pht.co.jp>

# Wafer Automatic Peeling Device

## PWD2020



## Overview

Automatic wafer peeling machine after wire sawing (slicing). By setting the ingot bonded to the plate jig on the input side, the system performs all processes from rough cleaning, wafer peeling, wafer single wafer cleaning, drying and cassette storage in a fully automatic manner. The plate jig is discharged to the unloader side after peeling.

Peeling is carried out one wafer at a time using a hot-air heating method. After wafer peeling, the wafers are washed in a single-wafer system: two-fluid high-pressure washing, scrubbing, rinsing, suction roller drying, slit nozzle drying and then stored one by one in a cassette in the unloader section by a horizontally articulated robot. Storage can be selected from the top or bottom of the cassette (25 sheets). The maximum number of cassettes is 6. OHT transport is supported.

## Feature

- Uniquely controlled sliding mechanism.
- Automated cleaning of wafers after removal, which has been difficult.
- After wafers have been cut with a wire saw and peeled from the beam, they are cleaned in a single wafer and stored in a cassette in a fully automated process.
- Low running costs.
- Can be designed to suit the ingot lifter in use.
- Loader ID reader can be added as an option.
- RFID function can be added to the unloader carrier as an option.

### Case Studies

Want to automate manual wafer stripping.  
Want to manage wafer information.

Type	Automatic Wafer Peeling Device PWD2010	Automatic Wafer Peeling Device PWD2020
Versions	Type0	Type1
Compatible Size	φ4~8"	φ12"
Configuration	Stripping Section	
	Cleaning Section1	
	Cleaning Section2	
	Wafer Delivery Unit	
	Transfer Dept.	
Storage	Loader	
	Cassettes (25 sheets)	
Storage Cassette	Max. 6 (can be considered)	
Plate Jig	Made by NTC · Made by MB	
Driving System	Motor-driven (servo)	
Safety Mechanism	With or without cassette, With or Without wafer, Overload detection, Abnormal alarm, Emergency stop	
Power	AC200V, 100A	
Equipment Weight	approx. 5,000kg	
Option	ID reader in loader section, RFID in unloader section, wafer inversion, storage in multiple cassettes, area sensors, etc.	