# **PI-IT** Link To The World

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# Wafer Transfer Device PWT2022



# Wafer Transfer Device

## **Overview**

Clean robot application system.

300 mm wafers are transferred to cassettes (containers) A to B in units of 1 wafer. Compatible cassettes (containers) are FOUP, FOSB, OPEN and PFA. Standard is 1 sheet transfer, but also available in units of 5 or 25 sheets. Safe batch transfer of wafers between cassettes - Slot-specified transfer (transfer within the same carrier possible).

Loading/unloading is performed by lifting the wafer from the cassette, minimising contact with the cassette and preventing wear, dust and damage to the wafer edge. Wafer mapping detects loading errors such as wafer misalignment and double stacking. Equipped with a sensor to prevent incorrect operation and an emergency stop button.

## **Device Specs**

Workpiece Semiconductor Substrates

**Equipment Weight** Approx. 500kg

**Workpiece Thickness** 600~850µm

Workpiece Size 300mm

**Power** AC200V, 15A

**Cassettes (containers)** FOUP · FOSB · OPEN · PFA

**Throughput** 25 sheets/1 cassette transfer time 300s or less **Driving Method** Motor Driving (servo)

**Transfer unit** in units of 1 piece  $\cdot$  in units of 5 pieces  $\cdot$  in units of 25 pieces

**Device Size** W1000×D1400×H1800(mm)

#### **Security Mechanisms**

with or without a cassette、 with or without a wafer、 overload detection、 abnormal alarm、 emergency stop

#### Option

Static eliminator (ioniser)  $\cdot$  Full coverage  $\cdot$  Area sensor ID reader  $\cdot$  Alignment  $\cdot$  Wafer inversion, etc.

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# **Features**

- Space-saving
- Anti-static type
- Optical and mechanical sensors monitor errors.
- With mapping sensor
- Compatible with metal cassettes manufactured by FOUP · FOSB · H-Square.
- Class 10 cleanroom-compatible

# **Case Studies**

Want to transport wafers in a simplified way. Want to reduce abrasion of workpieces in the cassette.

# **Available for consideration**

Number of cassette stages, automation, workpiece size, etc.

# Usage

### 1. Cases used by device manufacturers

- The device manufacturer supplies wafers for evaluation in a FOSB (shipping case).
- (2) Transfer to a carrier (e.g. FOUP) for use in the equipment manufacturer's system.
- ③ Transfer wafers to FOSB after evaluation. (returned to device manufacturer).

### Example of device manufacturer

Etching equipment, ashing equipment, cleaning equipment, coater-developers, exposure machines, etc

### 2. Cases used by wafer manufacturers

- Finished wafers (after completion of final cleaning and inspection) are transferred to the FOSB (shipping case).
- Transfer to PFA carrier (cleaning carrier) between processes (e.g. cleaning process).