Wafer Support System

[TWS2000 SERIES]

〇 Overview
This system was designed for temporally bonding of ultra thin wafer for advanced 3D packaging requirement. Unique UV hardening resin is used for the bonding of wafer and supporting material realizing excellent TTV, high accuracy alignment, normal temperature bonding and high throughput. The system have already introduced to Memory device, Power device and also other various production lines and achieving low CoO for the mass production.

〇 Features
- **High throughput** ... realized >24 WPH
- **High accuracy** ... achieving TTV(Total Thickness Variation) < 5μm
- **Normal temperature bonding** ... Almost no thermal impact to the wafer when bonding with supporting material by adopting UV hardening resin.
- **Low cost** ... Repeated use of supporting material is possible thus used glass recycling tool is also line upped.
- **Dry process** ... Bonding, de-bonding of supporting material is performed by all dry process and no organic solvent are used.
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System Process Flow

**Bonder** [TWS B2000]
- **Wafer** → **AL/TM** → **SC**
  - Centering of wafer
  - Measurement of wafer thickness
  - Coating of adhesive
- **Support Glass** → **TM** → **AL** → **VM**
  - Measurement of glass thickness
  - Centering of glass
  - Bonding glass to wafer inside vacuum chamber
- **Bonded Wafer** ← **TM** ← **UV**
  - Measurement of bonded wafer
  - Hardening of the adhesives by UV

**Debonder** [TWS D2000]
- **Bonded Wafer** → **AL1**
  - Centering of wafer (with sliding frame)
  - Rotate wafer
- **Support Glass** ← **SA2** ← **LU1**
  - Remove support glass
  - Transfer support glass
  - Apply laser
- **Wafer** ← **AL1** ← **PU1**
  - Return work to original direction
  - Peel glue

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