

APPLICATIONS:

- ➔ Wafer sorting / packing & unpacking

FEATURES:

- 300mm ready
- Class 10 cleanliness
- Modular design for future expansion
- Capable of handling wafer thickness > 6mils for 200mm
- Capable of handling wafer thickness > 9mils for 300mm
- SECS / GEM compliance
- Enable full wafer integrity and traceability
- Eliminate human handling
- Reduces wafer loss and improve yield
- Safe, automated environment



BTC8121

WAFER SORTING SYSTEM

SPECIFICATIONS

WAFER SIZE

8" (200mm) and 12" (300mm) wafers

WAFER THICKNESS

≥ 225 micron (8" wafers)
≥ 350 micron (12" wafers)
(For thin wafers, please consult manufacturer.)

WAFER TRANSFER MODE

Jar / Canister to Cassette
Cassette to Jar / Canister
Cassette to Cassette
Sorting of paper / foam interleaf & vice versa

INTERLEAFS

High density / low density foam
White / Black carbon paper

WPH

Cassette to Cassette : 150 WPH
Canister to Cassette : 120 WPH
Cassette to Canister : 140 WPH
Cassette to Cassette with OCR: 130 WPH

CONVERSION

No conversion between 8" and 12" wafers

WAFER HANDLING ROBOT

Class 1, 5 axis dual arm robot on track

ALIGNER

Class 1, non-contact wafer alignment (Notch/Flat)

OCR

Cognex 1741 reader

OPTIONAL FEATURES

RFID / Bar code Reader
SMIF Cassette
Semi S2 / S8 / CE STD Compliant

DIMENSION & WEIGHT

Dimension : 2000mm(H) x 1930mm(L) x 2330mm(D)
Weight : 1500 kg

INPUT/OUTPUT

Configurable up to 4 loadports
(Auto loadport/Manual loadport)

WAFER CASSETTE

FOUP, FOSB for 12"
Fluoroware H-Bar 8" Cassette

WAFER CANISTER/COINSTACK/JAR

Entegris 8" & 12"
Round Coinstack Jar (Normal / Tall)

PERFORMANCE

Uptime : ≥ 98%

CASSETTE MAPPING

Wafer Presence
Wafer Missing
Double Wafers (min. 400 micron wafer)
Cross Slot (min. 400 micron wafer)

WAFER PROTRUSION SENSOR

To detect wafer protrusion from cassette

HOST COMMUNICATION (OPTIONAL)

SECS / GEM - HSMS compliant

CLEANLINESS

Class 1000 (US FED STD 209E)
Class 10 (Optional)

MAN MACHINE INTERFACE

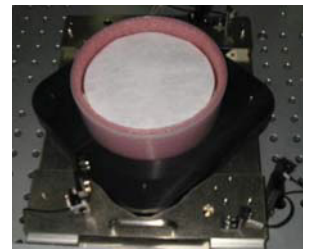
Graphical base with English/Chinese language selectable
17" LCD monitor c/w keyboard and mouse
Error reporting, Lot and Recipe management

SYSTEM CONTROL

PC base control with UPS backup (PC only)

FACILITY

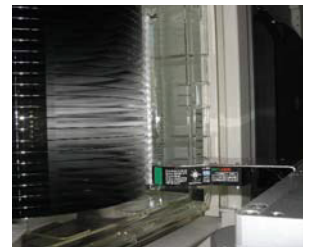
Single phase, 230VAC, 50/60Hz, 20A
CDA, compressed air, 5 bar (72 psi)
Vacuum at 25 in Hg (customer facility)



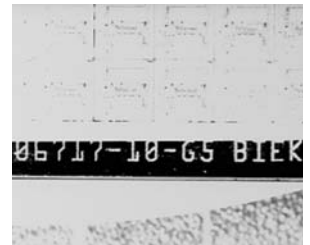
UNIVERSAL HOLDER



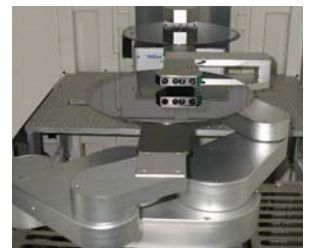
WAFER DUAL ARM ROBOT HANDLING



CASSETTE MAPPING



OCR READER



ALIGNER



HEADQUARTER

CEI Limited

2 Ang Mo Kio Ave 12 Singapore 569707

Tel : (65) 6481 1882 Fax : (65) 6481 3293

Website : www.cei.com.sg

Sales Agent :