

特征 - Model 6020

- Topside / Bottom Side Alignment
- High throughput
- 1KW 8KW Collimated Beam Light Source from 12"sq - 20"sq Beam Sizes
- High Speed Encoders & Motors for **Auto-alignment**
- SECS / GEM Capability

Wide Variety of Panel Handling

- 12"sq to 20"sq Panels
- Stepper Chuck Option for Sub-Panel **Processing**
- 14"sq to 24"sq Mask Inserts

WEDGE EFFECT LEVELING SUPERB PROCESS REPEATIBILITY < 2.0um PRINTING RESOLUTION REMOTE DIAGNOSTICS

6020 is a large area Fully automated The Model production Mask Aligner or Auto-Flood Exposure System engineered for RDL First Panel Level Advanced Packaging (PLP) and markets requiring exposure of large glass panels. 3-5% Light Source Beam Uniformity Using OAI's advanced beam optics, the Series 6020 utilizes a UV light source with beam size from 12"sq to 20i"sq using while applying 1KW - 8KW lamp powers. This provides a uniform beam of ≤3 to 5%. In mask aligner mode the system enables a printing resolution of ≤2.0um . The optional Smart cam high resolution CCD camera system provides accurate topside alignment and ease of operation utilizing OAI's Pattern recognition software. The Series 6020 can handle a wide variety of substrate thickness from thin to thick and bonded panels. The substrate chuck provides XYZ and theta motion including stepping function to allow processing of full or sub-panels bonded on a large panel. Using Robotic handling ,the system can be stand alone or fully integrated with photo resist processing.. OAI's Series 6020 is the total package for performance, dependability and repeatability for RDL First PLP production or exposure of large area glass panels.





Specifications: Model 6020

Large Area Production Mask Aligner or Flood Exposure System

Exposure System

Exposure Modes Vacuum contact Hard contact Soft contact Proximity (20µ gap)

Resolution $\leq 2.0 \mu$ 2.0-3.0 μ 3.0 – 5.0 μ 5.0 μ m

Advanced Beam Optics

Long working distance light source allows for all fixed optical components and more exposures

Uniform Beam Size:

12" – 20" square

Lamp Power:

1KW - 8KW

Uniformity:

Better than ±3 to 5%

Camera:

4MP Dual Camera GigE with large field of view

Alignment System

Pattern Recognition: OAI's enhanced pattern recognition software

Alignment Accuracy:

0.5μ topside and 1.0μ with top to bottom optional backside alignment

Auto-alignment:

Top to bottomside

Topside

Wafer Handling

Substrate size: 12"sq to 20"sq Mask size: 14"sq to 24"sq

Thin substrates:

1_{mm}

Thick & Bonded

Substrates: Up to 5000μm

Stepper Chuck (Option): Multiple steps (customized)

Run-out compensation: Standard software or optional thermal chuck

Wedge Effect Leveling: 3 point or optional non-contact laser gap measurement

Available Options IR Auto-align,

Temperature Controlled Wafer Chuck

Integrated Lithography Cluster for Full Lithography

SECS/Gem Software Non-contact Leveling

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