



OAI 800E Enhanced Front and Backside Semi-automatic Mask Aligner System

With over 4 decades of product development and manufacturing in the semiconductor industry, OAI meets the growing challenge of a dynamic market with a new elite class of photolithography equipment designed for R&D and semi-automatic production. Built on the proven OAI modular platform, the Model 800E is an enhanced, high-performance high-resolution lithography system which delivers a level of performance that is unmatched at this price point. The aligners feature OAI's Advanced Beam Optics offering exceptional uniformity. Upgradable with OAI's Precision Lithography Modules, the Model 800E is a versatile tool in the lab or in the field. The Model 800E utilizes Windows PC 7 control and recipe storage. It also comes with joystick controlled alignment and optics stages, and can be configured with non-contact 3-point wedge effect correction and auto-align capability. These combined features are typically found in more expensive mask aligners but are available for an affordable price on the Model 800E.

Standard Frontside Features

- Dual 1MP resolution GIGE CCD cameras
- Substrates up to 8" square • masks to 9"x9"
- Windows PC controlled with recipe storage
- Motorized joystick for alignment and positioning
- * Exposure modes: Vacuum, hard soft & proximity
- Auto Wedge Effect compensation

Standard Backside Features

- All of the above, plus:
- 2 additional cameras (4 total)
- Digital zoom
- Motorized backside optics focus

Semi-automatic

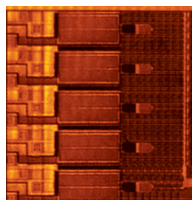
Topside Alignment

Bottomside Alignment

Advanced Beam Optics

2 & 4-camera versions

Many options





Specifications: OAI Model 800E Enhanced Mask Aligner System

Exposure System

Exposure Modes	Vacuum contact	Hard contact	Soft contact	Proximity (0 μ gap)
Resolution	000 μ	000 μ	000 μ	000 μ

Advanced Beam Optics

Uniform Beam Size:	000 000
Uniformity:	000
Camera:	0

Alignment System

Alignment Accuracy	0
Pre-alignment Accuracy	0
Auto-alignment	Top to bottomside Topside

Wafer Handling

Substrate size
Wedge Effect Leveling

Available Options

Wedge Effect Leveling
Auto Alignment for front & backside
IR backside added to 4-camers backside system
NIL module and starter kit
Contact Liquid Ploymer Process module for Microfluidics

464 South Hillview Drive • Milpitas, CA, 95035 USA

Phone (408) 232-0600 • Toll free (800) 843-8259

email: sales@oainet.com • www.oainet.com

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