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## **HIGHLY OPTIMIZED YIELDS**

180 WPH in 1st Mask Mode Advanced Beam Optics with better than ±3% Uniformity

### WIDE VARIETY OF WAFER HANDLING

Including thick & bonded substrates and warped substrates

WEDGE EFFECT LEVELING SUPERB PROCESS REPEATABILITY SUB MICRON RESOLUTION





# OAI Series 6000 Production Mask Aligners

## For: Semiconductors, MEMS, Sensors, Microfluidics, IOT, Packaging

With over 4 decades of manufacturing in the semiconductor industry, OAI meets the growing challenge of a dynamic market with a new elite class of production photolithography equipment. Built on the venerable OAI modular platform, the Series 6000 is a fully automated cassette to cassette system with sub-micron resolution which delivers performance that is unmatched at any price. The aligners have Advanced Beam Optics with better than ±3% uniformity and a throughput of 180 wafer per hour in first mask mode, which results in higher yields. The Series 6000 can handle a wide variety of wafers from thick and bonded substrates (up to 7000 microns), warped wafers (up to 7 mm-10mm), thin substrates (down to 100 micron thick), and thick photo resist. With subperb process repeatability, the Series 6000 is the perfect solution for all production enviroments. Choose either top side or optional back side alignment which uses OAI's customized pattern assist software that is Cognex based. For the total lithography process, the Seriesl 6000 can be integrated seamlessly with cluster tools. OAI's new production mask aligners are the total package.

Fully Automated Topside Alignment Bottomside Alignment DUV to NUV Cluster Tool Integration Customized Software

## www.oainet.com



## Specifications: OAI Series 6000 Mask Aligner System

<b>Exposure System</b> Exposure Modes Resolution	Vacuum contact 0.5-0.8µ	Hard contact 0.8-1.0µ	Soft contact 1.0-3.0µ	Proximity (20µ gap) 3.0µ
Advanced Beam Optics Uniform Beam Size:	2" -200mm square/round			
Uniformity: Camera:	Better than ±3% Dual Camera with CCTV with Expanded Depth of Field			
Alignment System				
Pattern Recognition Alignment Accuracy	Cognex VisionPro™ with OAI customized software 0.5µ topside 1.0µ with top to bottom optional backside alignment			
Pre-alignment Accuracy Auto-alignment	Better than ±25µ Top to bottomside Topside			
Wafer Handling				
Substrate size	2" -200mm round or square or 200mm-300mm round or square			
Thin wafers	Down to 100µ			
Warped Wafers	Up to 7mm-10mm			
Thick & Bonded Substrates	Up to 7000µ			
Robotics	Single and dual arm wafer handling			
Run-out compensation	Standard software or optional thermal chuck			
Wafer size conversion	5 minutes or less			
Throughput	1st mask 180 wafers per hour - subsequent 75-100 wafers per hour			
Wedge Effect Leveling	3 point or optional non-contact			
Available Options	IR Auto-align, Cassette Mapping 365nm LED Exposure Light Source Temperature Controlled Wafer Chuck Integrated Mask Management Control Integrated Lithography Cluster for Full Lithography Process Environment Control with SMIF or FOUP Interface Modules Non-contact Leveling			
	Edge Gripping	5		
	685 River Oaks Parkway • San Jose, CA 95134			
	Phone (408) 232-0600 • Toll free 1 (800) 843-8259			
	email: sales@oainet.com • www.oainet.com			
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