



Owens Design

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Press Release

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Owens Design Announces Wafer Heat/Cool Module

Fremont, California: Owens Design Inc., a company providing capital equipment design and manufacturing services, announced today that it has introduced a wafer heating and cooling module to its family of custom wafer handling solutions. The heating and cooling module is designed for 200/300mm wafers and is BOLTS compatible for simple integration with standard wafer handling automation. The cost-effective module uses resistive heating elements to achieve better than 450°C heating in less than 15 seconds. After processing, the module rapidly cools the wafer to allow safe return to the FOUP. Backside particle and metals contamination is minimized through an innovative low contact wafer chuck. Test data demonstrates that the system provides excellent temperature uniformity and extremely low metals and backside contamination.

John Apgar, President of Owens Design stated, "Our customer challenged us to come up with a cost effective design while solving demanding thermal and cleanliness requirements. Our history of solving problems in custom wafer handling allowed us to come up with a novel solution. Packaging the system and its supporting electronics in a BOLTS compatible footprint makes integration to a standard EFEM simple and reduces our customer's development cost."

Since 1982 Owens Design has been an innovative and reliable design and manufacturing partner for equipment companies in the semiconductor, data storage, biotech and related industries. As a turnkey source for design and manufacturing of complex capital equipment, Owens Design has served customers such as Ultratech, SCP Global, KLA-Tencor, Asyst Technologies, Aclara Biosciences, Lifescan, Teradyne, Credence, Mattson, and Novellus.

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About Owens Design

Owens Design specializes in engineering and manufacturing of capital equipment. Located in Silicon Valley for over 25 years, they have been a strategic partner in the co-creation and manufacturing process for many leading OEM capital equipment companies. Owens Design engineers and manufactures customer's products from concept, through alpha, beta, pilot and on-going production. Their development process results in a rapid design cycle and concurrent manufacturing introduction. Owens Design has and continues to be an innovative and reliable partner for equipment companies in the semiconductor, solar and related industries.