



Structured Materials Industries, Inc.

SMI Provides Custom and Exotic Material Wafer Carriers and Wafer Carrier Inserts

Structured Materials Industries, Inc. ("SMI") designs and provides custom wafer carrier solutions to individually best meet your needs. The SMI engineering team will work diligently with you and your staff to determine the optimal placement as well as appropriate form to ensure high growth uniformity. The SMI production team can work with a wide array of wafer carrier materials such as metals, ceramics, silicon, quartz, graphite, hybrids, and so on.



Image shows an example of a metal wafer carrier

SMI draws upon its +25 years of experience by designing these wafer carriers with every factor, from temperature to rotation, taken into consideration. Offered for single or multiple wafers in wafer sizes as small as 1cm² or as large as 12" diameter, our wafer carriers are well-suited for all types of systems.

SMI can help with odd shaped wafers by designing or fabricating custom inserts. The inserts can easily be made of the same material as the wafer carrier.

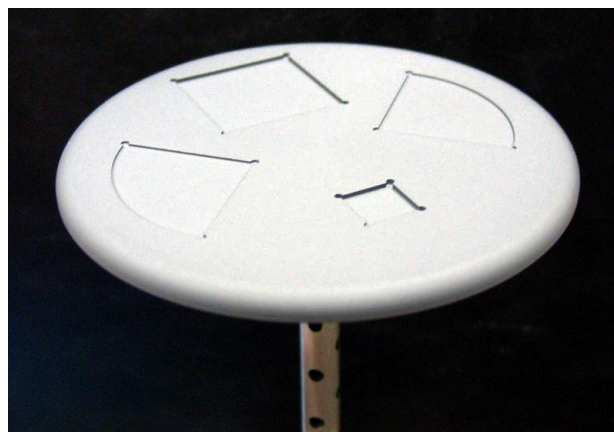


Image shows ceramic multi shaped wafer carrier with wafer stand

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[Structured Materials Industries, Inc.](#) (SMI), with over 60 fielded MOCVD tools and 10 MOCVD and ALD process demonstration tools in-house, has extensive result oriented experience in providing materials, hardware, and device assistance to other businesses as well as research organizations. SMI is a leading provider of thin film research and development MOCVD, PECVD, and ALD deposition systems for electronic, optical and electro-optic device fabrication, among other applications. We produce systems for research and production, in sizes ranging from stand-alone systems to high volume production tools. SMI also maintains an in-house applications laboratory, with facilities for materials characterization and device fabrication.

[Structured Materials Industries, Inc.](#) has an extensive history in working with customer/partners to deliver results in SBIR/STTR and other awards. We can provide a support infrastructure for writing award winning proposals and provide the physical support infrastructure for carrying out awarded programs through completing customer innovations or calling on collaborators to fulfill innovations. We are always open to confidentially exploring additional partnerships and collaborations. SMI has worked on various projects featuring Gallium Oxide (in addition to other oxides), TMDs, AlGaN, InGaN, BN, Compound Semiconductors, Oxides, Dielectrics, Ferroelectrics, Phase Change Chalcogenides, Fuel Cell Materials, Thin Film Batteries, Metals, and so on as well as has grown materials on a diverse set of substrates using in-house tools.

To take advantage of SMI material development or consulting services [contact us today](#) to get more information and quoted. SMI is also happy to participate in the development of proposals and budgetary quotations!

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