

Pathway to Production™

Rapid technological advances in the electronics industry have given PlasmaQuest many opportunities to develop novel applications. The nature of PlasmaQuest's technology has allowed the company to successfully seed a variety of markets with its products.

This process involves working with customers in the early development phase to design a prototype production tool. Then the emphasis is placed on being responsive to changes and design evolutions that are identified during the pre-production phase.

Innovative Approaches

PlasmaQuest is typical of the new generation of corporations -- lean, focused, and aggressively committed to meeting the needs of its customers.

Backing up these key business strategies are major investments in CAD capability, demonstration and development facilities, and manufacturing methods.

Computer Aided Design and documentation ensure that PlasmaQuest systems meet all aspects of customer needs. The networked group of Sun workstations running 3D design software facilitates the development of custom equipment. This allows customer-specific engineering of items such as location of facility inputs, or specifications within a complete chamber design.

Applications Laboratory supports exploratory research and development and allows PlasmaQuest to maintain a responsive application stance toward customer requests, which often become the basis for new products and new innovations.

Manufacturing is done with the latest, most advanced computer database to support purchasing and inventory functions for timely delivery of the systems. Final assembly of the systems is done in a Class 1,000 clean room.

Markets Served

Today's electronics industry is so diversified that no single reactor design, no matter how advanced or well conceived, will meet all the requirements. PlasmaQuest meets the demands of its customers by offering complete customization.

PlasmaQuest has established an international installed base with representatives in Japan, Europe, Israel, Taiwan, Korea, and the ASEAN countries. As a result of this effort, PlasmaQuest achieved recognition in 1994 as one of the top 25 fastest growing exporters in the Dallas area.

The Customer

Throughout the years, PlasmaQuest has worked with some of the world's leading electronic device manufacturers to perform the highest possible process control for specific applications through plasma processing.

Industry leaders such as Motorola, SEMATECH, Texas Instruments, Intel, Sharp, and U.C.-Berkeley are only a few of the Fortune 500 companies and respected research laboratories utilizing PlasmaQuest reactors for manufacturing, research & development, and educational purposes.

Looking Towards The Future

Microfabrication, originally applied to semiconductors, is now expanding its scope as miniaturization is extended to numerous products. Serving as a vital link to customers on the leading edge of technology has given PlasmaQuest the opportunity to spot important technology trends in plasma sources.

Acting on these trends has enabled PlasmaQuest to lead the development of numerous advances in high-density plasma reactors. By focusing on the customer's requirements for production and implementation of advanced technologies, PlasmaQuest is well positioned for growth into the next century.

Company Profile

Since its formation in 1988, PlasmaQuest has grown into a full-service provider of advanced processing equipment. The company has established itself in international markets by creating an effective synergy of research, development, manufacturing, marketing, and sales.

PlasmaQuest has formed a foundation for enhanced plasma technologies by focusing on research & development and building from an extensive background in process applications, including chemical vapor deposition (CVD) and etching of state-of-the-art materials.

By concentrating on microwave plasma technologies, based on electron cyclotron resonance (ECR), PlasmaQuest is capable of producing high-density plasma systems for diverse applications. Some of the equipment manufactured by PlasmaQuest is used as the basis for producing new cellular communications products, high quality read/write heads, air bag accelerometers, piezoelectric print heads, and other advanced products.

The company specializes in those areas where well-established process technologies don't perform satisfactorily. Some specific areas include: low-temperature, low-damage processes for advanced devices; as well as high-current, low-energy reactive sputtering applications for metal oxides such as PZT and ceramics.

The plasma technology embodied in THE PLASMAQUEST REACTOR truly sets the pace for the industry and is used in development labs, pilot lines, and production facilities throughout the world. These highly sophisticated reactors are designed with a goal to transcend today's technology into the products of tomorrow.

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