



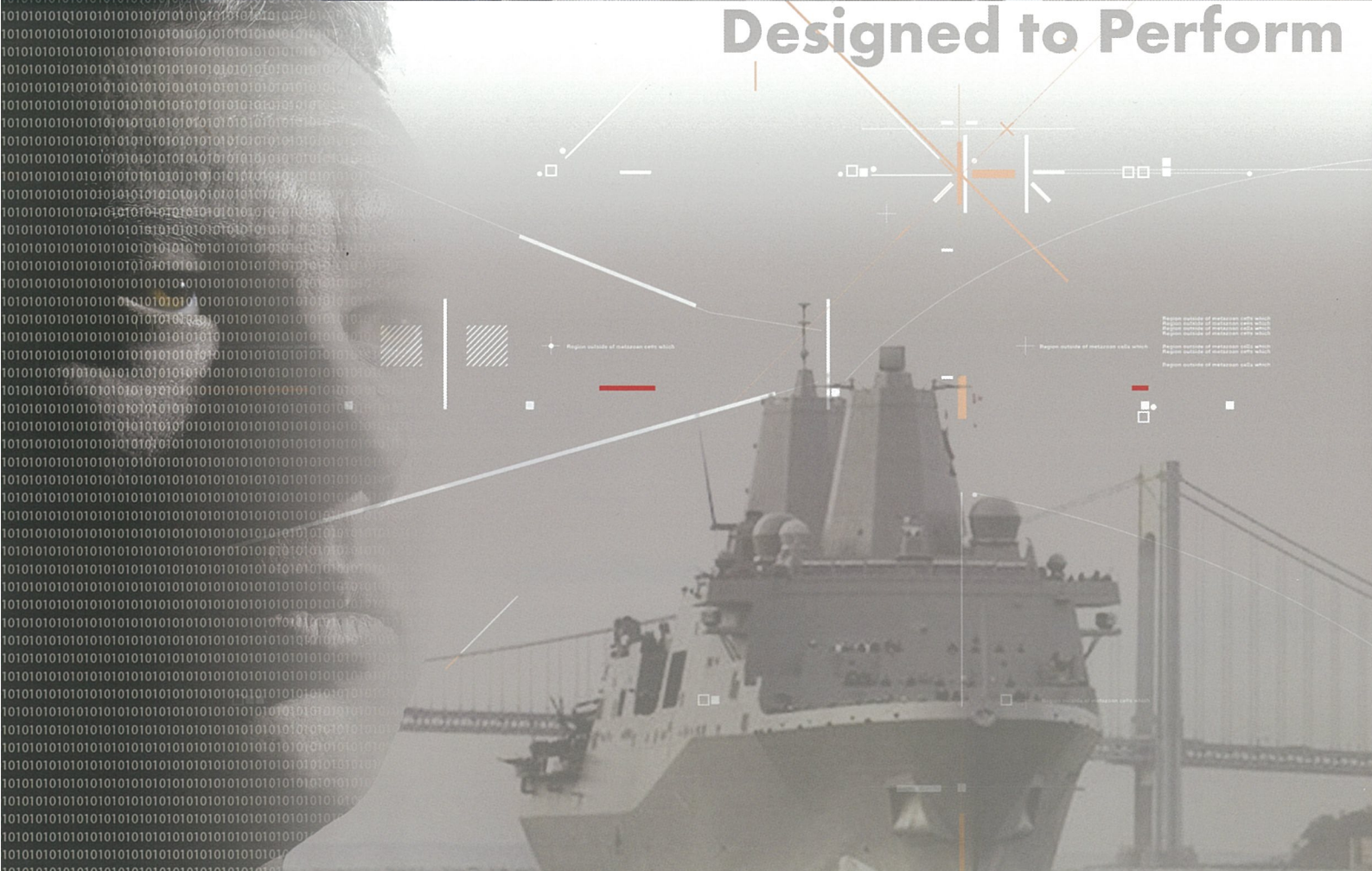
Communications & Power Industries

radant technologies division

# High Performance Radomes/Reflectors



## Designed to Perform



CPI Radant Technologies Division

Design | Manufacturing | Test

CPI

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Radant Technologies Division designs, manufactures and tests a broad range of high performance composite radomes and reflectors. CPI Radant radomes are located on a wide variety of aircraft, both military and commercial. They are an

● **Design** CPI Radant engineers customize each design for the specific application, trading off microwave transparency and environmental/ structural requirements. Having a staff of PhD level RF engineers differentiates us from many of our competitors. In all cases the RF performance is vital to the success of critical programs. CPI Radant has the technical expertise in house to assess these requirements and provide the best solution to the customer.

## Designed to Perform



integral part of some of the most sophisticated radar and communications systems in the world. CPI Radant radomes are also on many US Navy vessels, including submarines. CPI Radant has been headquartered in Stow Massachusetts since 1978 with satellite operations in surrounding towns.

● **Manufacturing** Our commitment to continuous improvement over the years has led us to evolve our processes and take advantage of material advances. Utilizing state of the art equipment for material preparation reduces waste. Approximately 150,000 square feet is dedicated to manufacturing of multi-layered sandwich and solid laminate composite assemblies. This space includes clean rooms, layup facilities, machine shop and curing stations. Many products are cured in one of two large computer-controlled autoclaves while other products utilize large ovens for curing. Maintaining dimensional consistency and



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material properties throughout the life of a manufacturing cycle requires high performance tooling. CPI Radant manufactures all of our composite tooling and most of our metal tooling in house.

● **Test** The finished product is validated by our RF engineers for compliance to the performance specifications and by our structural engineers for compliance to the environmental and structural requirements in order to ensure success once the system is installed. Over the years our ability to perform RF and structural testing in house has provided us the ability to validate and refine our analysis techniques which has increased

our first pass yield. For some of the more specialized testing we have developed a close relationship with certified testing facilities and are able to incorporate their testing times directly into our master schedule.



● **Products** CPI Radant's products are in use by all branches of the US DoD, Homeland Security, many foreign governments and several commercial aircraft companies. They have been certified to a number of DoD specifications.

## Commitment to Improvement



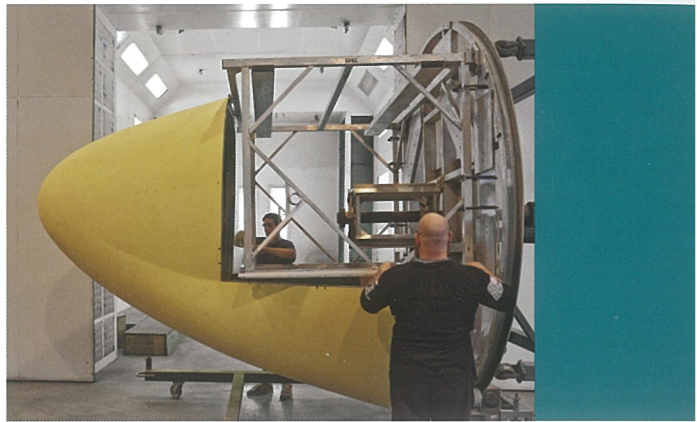
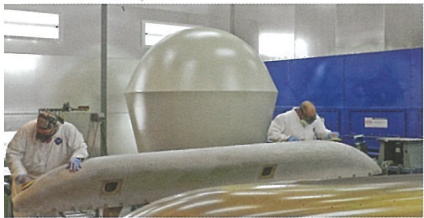
These systems are subjected to severe environmental conditions on a regular basis. Over the years we have worked with research laboratories to provide one of a kind radomes used in US government sponsored R&D programs.

provide significantly improved performance when compared to conventional designs. This is another reason why CPI Radant has been chosen as the supplier able to meet challenging specification requirements over our competition.

● **Intellectual Property** CPI Radant holds several US patents associated with radome construction. These designs



Products | Intellectual Property

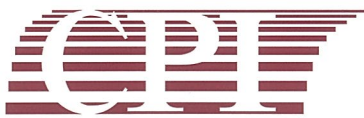


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Certified to both AS9100 and ISO 9001



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255 Hudson Road  
Stow, MA, 01775-0000  
Tel: (978) 562-3866  
Fax: (978) 562-6277  
email: [radant.sales@cpii.com](mailto:radant.sales@cpii.com)

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