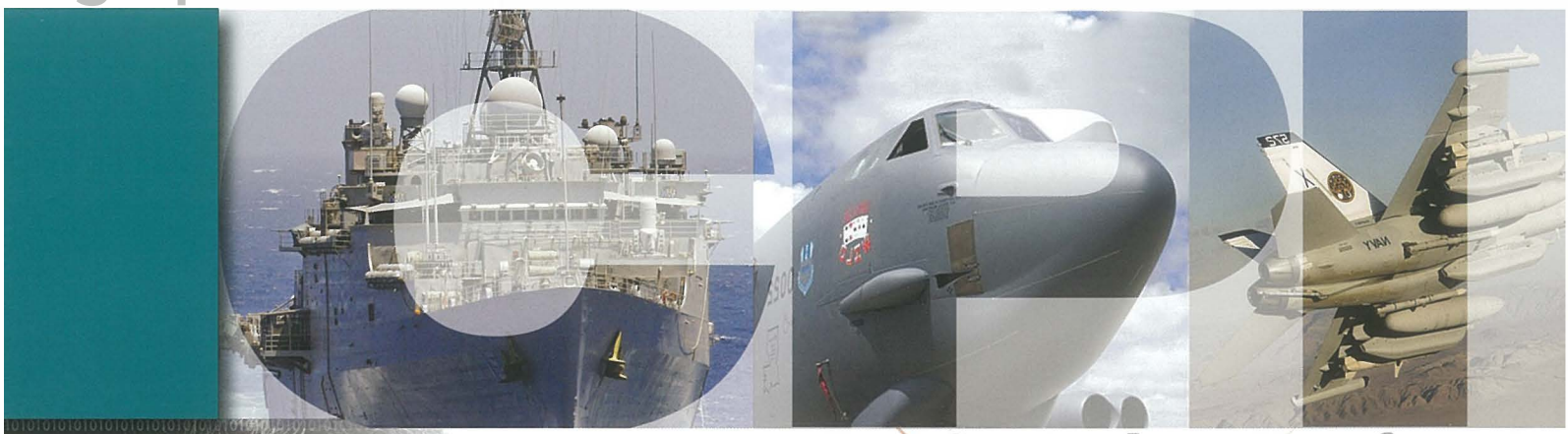
CPI

Communications
& Power Industries

High-performance Radomes and Reflectors



Designed to Perform


CPI Composite Structures, Radant Technologies Operations
Design | Manufacturing | Test

CPI Composite Structures, Radant Technologies Operations designs, manufactures and tests a broad range of high-performance composite radomes and reflectors. CPI radomes are located on a wide variety of aircraft, both military and commercial. They are an integral part of some of the most sophisticated radar and communications systems in the world. radomes are also on many U.S. Navy vessels, including submarines. CPI Composite Structures, Radant Technologies Operations have been headquartered in Stow, Massachusetts since 1978, with satellite operations in surrounding towns.

Designed to Perform






Design CPI's engineers customize each design for the specific application, trading off microwave transparency and environmental/ structural requirements. In all cases, the RF performance is vital to the success of critical programs. CPI has the technical expertise in-house to assess these requirements and provide the best solution to the customer.

Manufacturing CPI's commitment to continuous improvement over the years has led the company to evolve its 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 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 Composite Structures, Radant Technologies Operations manufactures all of its composite tooling and most metal tooling in house.

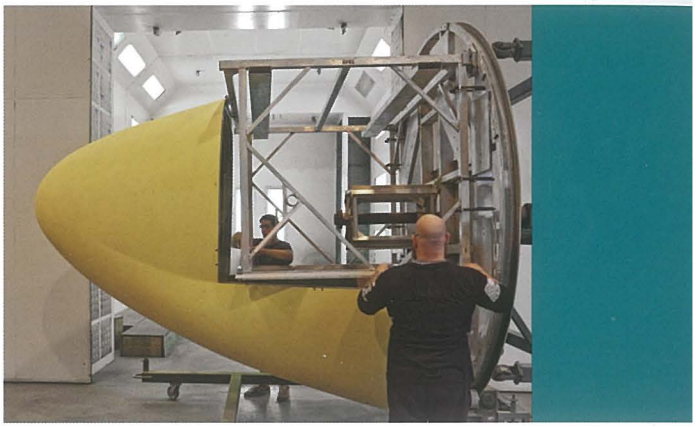
Test The finished product is validated by RF engineers for compliance to performance specifications and by structural engineers for compliance to environmental and structural requirements in order to ensure success once the system is installed. Over the years, CPI's ability to perform RF and structural testing in-house has provided the company with the ability to validate and refine its analysis techniques, increasing first-pass yield. For some of the more specialized testing, CPI has developed a close relationship with certified testing facilities, enabling the incorporation of their testing times directly into CPI's master schedule.

Products CPI Composite Structures, Radant Technologies Operations' products are in use by all branches of the U.S. DoD, Homeland Security, many allied 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, CPI has worked with research laboratories to provide one-of-a-kind radomes used in U.S. government-sponsored R&D programs.

Intellectual Property The company holds several US patents associated with radome construction. These designs provide significantly improved performance when compared to conventional designs. This is another reason why CPI Composite Structures, Radant Technologies Operations is frequently chosen as the supplier best able to meet challenging specification requirements.



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Certified to both AS9100 and ISO 9001

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