

# COMPOSITE SOLUTIONS FOR THE INDUSTRIAL MEDICAL, AEROSPACE AND ROBOTIC INDUSTRIES



**GMT Composites** was founded in 1984 by the principals of Eric Goetz Custom Sailboats, the world's preeminent composite boat builder. Initially building composite parts for the custom sailboat market, GMT's expertise in composite rudders led to its development of pre-preg carbon spars for cruising and racing boats alike. Today GMT Composites is a world leader in the production of carbon fiber spars and rudders for the marine industry around the globe.

The expertise and innovation that GMT demonstrated while building high performance composite products for the marine market, attracted attention in other industries. Companies involved in wafer manufacturing, medical fields, defense, radio telescope research, and aerospace began to realize the benefits of using carbon fiber. Used in specific applications, carbon fiber was proved to be a cost efficient way to increase strength and stiffness, reduce weight and improve chemical resistances. The increased radio-lucency of carbon parts is a particularly important benefit for the medical imaging industry.

GMT Composites engineering and design department is set to help you take your concept and bring it to production. We can do this inexpensively and according to your schedule. Our ability to build composite parts to exacting tolerances, specifications and in the material of your choice is standard at GMT. Our veteran craftsmen are key contributors to each and every project from design to manufacturing stages. GMT personnel have been instrumental in the development of many tools and processes that are now considered industry standards for the manufacturing of composites parts.

GMT NOW BUILDS A WIDE RANGE OF CARBON FIBER END EFFECTORS FOR SEVERAL COMPANIES IN THE ROBOTIC AND SEMI-CONDUCTOR INDUSTRY. THE LIGHTWEIGHT, STIFFNESS AND STRENGTH OF CARBON FIBER MAKE IT AN IDEAL MATERIAL FOR THESE PARTS.

GMT HAS EXCELLED WHILE WORKING WITH GOVERNMENT AGENCIES AND MAJOR DEFENSE CONTRACTORS ON A RANGE OF TOWED AND FREE-SWIMMING VEHICLES. OUR ATTENTION TO DETAIL AND AN INNOVATIVE DESIGN TEAM MAKE GMT A MOST VALUED PARTNER IN THESE PROJECTS. PROJECTS SUCH AS THE CARBON FIBER FAIRING COVERS SEEN FOR RAYTHEON'S TOWED SUBMERSIBLE IS JUST ONE EXAMPLE.



Our list of customers includes **Brooks Automation, ADE Corporation, Radionics** and **Raytheon** to name just a few. Each company finds GMT's attention to detail and cooperation from the design stage to completion key ingredients to a successful project. This makes GMT their first choice for future projects. Experience, innovation and customer satisfaction are just some of the benefits our customers enjoy when they choose GMT Composites.

From end effectors for wafer inspection machines to museum quality furniture to composite showers for luxury jets if your existing or future project calls for composite parts be sure your next step is to contact GMT Composites.

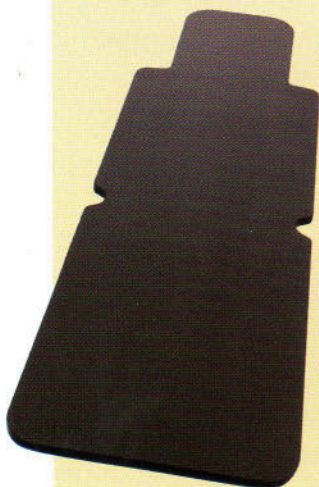
- ▶ In house engineering and design.
- ▶ Multi-axis milling machine for precise forming of structural shapes
- ▶ Environmentally controlled clean room for all pre-preg lamination
- ▶ 65 foot curing oven equipped with internal vacuum system
- ▶ 12000 square foot purpose built building in Bristol, RI.



QUADRUPEDS USED TO SUPPORT INSTRUMENTS AT THE FOCUS OF THE ANTENNA BUILT FOR THE HARVARD SMITHSONIAN ASTROPHYSICAL OBSERVATORY. THE QUADRUPED AND HUB ARE PART OF THE RADIO TELESCOPE ARRAY OF WHICH SEVERAL WERE BUILT AND DEPLOYED FOR DEEP SPACE EXPLORATION. GMT WAS CITED BY THE SAO AS THE BEST OUTSIDE CONTRACTOR WORKING ON THIS PROJECT.

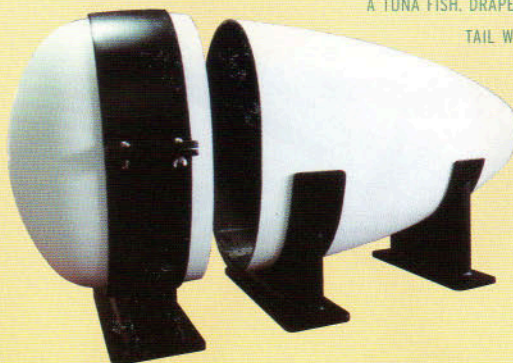


LIGHTWEIGHT COMPOSITE SHOWERS FOR THE CUSTOM AIRCRAFT INDUSTRY. THESE COMPLEX STRUCTURES NOT ONLY HAVE TO BE LIGHT, DURABLE AND AESTHETICALLY PERFECT, THEY ALSO HAVE TO PASS EXACTING STANDARDS IMPOSED BY THE FAA. SHOWERS ARE FLYING ON BBJ'S 737, 767, 757, 747, AND GULFSTREAM JETS.



CARBON FIBER DIAGNOSTIC AND TREATMENT BOARDS, BUILT FOR RADIONICS, ARE USED TO FIRST DETERMINE THE LOCATION OF THE TUMOR. WITH THIS INFORMATION A TREATMENT PLAN IS DEVELOPED. THE COMPOSITE BOARD AND ITS ACCESSORIES ALLOW THE PATIENT TO BE PRECISELY POSITIONED FOR THE RADIATION TREATMENTS THAT FOLLOW THE DIAGNOSIS AND TREATMENT PLAN. RADIOLUCENCY OF THE CARBON FIBER IS EXTREMELY IMPORTANT IN THIS APPLICATION AND FOR ALL MEDICAL APPLICATIONS THAT REQUIRE THE USE OF IMAGING MACHINES.

THESE LOW-PRESSURE COMPOSITE TANKS FOR USE IN WEIGHT CRITICAL APPLICATIONS ARE USED AS RESERVOIRS FOR HYDRAULIC FLUID. THEY FEATURE CARBON DOMES AND FIBERGLASS BODIES.



"ROBO TUNA" IS A SUBMERSIBLE BUILT FOR DRAPER LABORATORIES AS PART OF THEIR INVESTIGATION FOR ALTERNATIVE PROPULSION. GMT PROVIDED THE BODY, WHICH WAS VERY ACCURATELY MODELED AFTER A TUNA FISH. DRAPER FITTED A SOPHISTICATED TAIL WITH THE HOPE OF PRODUCING A HIGHLY ENERGY EFFICIENT MEANS OF PROPELLING UNDER WATER VEHICLES.

