



Advanced
Composite
Specialties

RESIN TRANSFER MOLDING SOLUTIONS



Advanced Composite Specialties Inc. (ACS) is a composite supplier offering fiber reinforced solutions. Our specialty has been developed in composite manufacturing for automotive and transportation markets where high quality and competitive cost are basic customer requirements. Having built over 50,000 components for various automotive customers over the last 10 years has enabled us to apply this knowledge to any new application where composite properties are favorable to getting a low cost, lightweight, and durable part to market. Today ACS manufactures components destined for automotive, transportation and the sign industry.

Advanced Composite Specialties RTM Panel Manufacturing



Resin Transfer Molding (RTM) – ACS applies this manufacturing method in the production of large components such as awning covers, transit bus shelter doors, and various urban furniture covers that were commonly built in aluminium. Compared to aluminium components the labour involved in RTM is a fraction and offer a greater design possibility. Special production runs can be set from 100 up to 10 000 assemblies annually, each panel having the same quality and properties.

Fiberglass mats are placed in a female / male heated tool, once the press is closed resin is injected through a port. Parts are cured under pressure and heat to obtain the best possible composition. Unlike hand lamination or infusion ACS's RTM process keeps the operator involment to a minimum to obtain a perfect part on each cycle.

Parts have consistant part thickness and glass composition. Similar to SMC ACS's RTM panels have a smooth class A finish on both sides.



Panels are trimmed using a CNC robotic waterjet cutter to insure quality consistency.



CNC robots apply just the righth amount of OEM quality bonding glue to the precise location, providing strong and durable assemblies.



RTM panels offer designers liberty to explore complex shapes, in addition to being a cost effective solution.

Every ACS panel is hand prepped and primed to OEM quality standards.



With math data, ACS will handle all the development work and deliver quality production parts.



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