



AAT COMPOSITES

For over 30 years AAT Composites (Pty) Ltd, based close to Cape Town in South Africa, has gained experience in the designing and manufacturing of high performance products using composite materials and has established itself as a preferred partner in various industries worldwide. Nowadays, AAT's target market and customer base focuses on Commercial aviation aircraft seat products and interiors, General aviation aircraft interior and structural parts and High-end automotive parts. With an overall workforce of over 500 and key equipment including Autoclaves, Press claves, Thermo presses and various 3-, 5- and 6-axis CNC trimming machines the company is able to produce more than 3000 mouldings and ship up to 500 composite assemblies per week. Furthermore, AAT Composites adheres to LEAN manufacturing principles and associated value stream analysis using a benchmark visual shopfloor management system.

Engineering support

The Engineering department offers a high level of technical expertise combined with project management experience to develop and industrialize advanced composite products and associated processes and tooling. It also provides dedicated internal production support, as well as customer engineering change support throughout the product life cycle. The team is experienced in using 3D CAD/CAM tools such as Pro/Engineer and Catia V5, as well as NASTRAN, MARC and PATRAN for stress analysis and material draping investigations. The Engineering department offers a material selection and lay-up design service incorporating structural analysis and design. The team will select the most appropriate processes and technologies to be used with every unique program. AAT Composites (Pty) Ltd has material engineering capabilities consisting of a fully functional material test laboratory, including microscopy and can perform mechanical property testing and characterisation of metals and composites as well as basic flammability screening.

Tooling

Requisite tooling and moulds are designed using the 3D CAD/CAM platforms Pro/Engineer and Catia V5 for in- house manufacture at the AAT tooling facilities. Among the key machinery for these tooling operations is a trim robot, 3- and 5-axis CNC machining centres.

Quality

AAT Composites (Pty) Ltd is an AS/EN 9100 and ISO9001 accredited company for the design and manufacture of composite products for the aviation and seating industry. It is our policy to ensure complete customer satisfaction through superior quality and service. All parts are quality checked to the specifications set out by the customer. In addition we perform static testing to limit load on all load structures as part of our standard production validation process

Tel: +27 21 850 7000 | Fax: +27 21 850-5701
Email: info@aatcomposites.com
www.aatcomposites.com



MANUFACTURERS AND EXPORTERS