Australian Government
Defence

Australian Government
Australian Trade and Investment Commission

ACS Australia

Company Overview

Advanced Composite Structures Australia (ACS Australia) is a leading composites engineering and manufacturing organisation, with a reputation for taking on challenging projects. Specialising in design, manufacture and repair of light-weight, composite structures. With over 30 years of experience supporting Defence, ACS Australia is the ideal partner to deliver Defence solutions.

ACS Australia has a strong track record delivering composite solutions for next-generation platforms, including autonomous air, surface and sub-surface systems, satellite communications, and emerging aerospace technologies. The company works on advanced autonomous programs including large-scale underwater autonomous vehicles and aerial cargo drones. ACS Australia also delivers precision carbon fibre structures for satellite communications systems, including azimuth arm assemblies, and is developing ultra-high temperature composite materials and processing technology for hypersonic applications.

ACS Australia combines advanced engineering, automated composite manufacturing, and in-house testing capabilities. Together, these capabilities accelerate development, minimise technical uncertainty, and support a rapid transition from working prototype to serial production. As a 100% Australian owned and operated company, ACS Australia is committed to strengthening sovereign industrial capability and delivering high-assurance solutions for Defence and industry partners globally.

Products

Services:

- Product Development
- Engineering Design and Analysis
- Composite Component Manufacturing and Assembly
- Testing and Evaluation
- Repair of Composite Structures

Products:

- Composite structures for extra-large autonomous underwater vehicles (XL-AUV)
- Light-weight aircraft structures for unmanned air vehicles
- Weight-optimised carbon fibre structures for satellite communication applications
- Hypersonic and space structures using ultra-high temperature composite materials

AUSTRALIA

ACS AUSTRALIA

Discriminators

- Full spectrum from design through to series production all in one partner
- Automated composites manufacturing and assembly (filament winding, ply cutting, CNC machining and 8-axis robotic trim and drill)
- Structural optimisation, impact and crash simulation capabilities
- Infrastructure and capability in the manufacture of ultra-high temperature composite structures for hypersonic and space applications
- Proven delivery of composite products to the global Defence industry for over 30 years
- 100% Australian owned and operated sovereign capability

Availability and Support

- ACS Australia operates from Australia and supports Defence and industry customers globally. Products and services are available across development, prototyping, qualification and series production phases. Lead times are program-dependent and aligned with customer requirements and technology readiness levels.
- ACS Australia has a 30 year plus record of delivering on challenging projects meeting evolving timelines, providing ongoing engineering, manufacturing and sustainment support, including repair, modification and through-life sustainment.
- Secure facilities and Defence accredited processes support sensitive programs and long-term partnerships.

Key Customers

- Anduril
- Defence Science and Technology Group (DSTG) (Australia)
- EM Solutions
- Boeing Defence Australia
- Sofraco Engineering Systems
- SeaFlight Technologies
- Carnegie Clean Energy

Key Partnerships (Suppliers)

- Advanced composite material consumable, fabric, resin and adhesive suppliers
- Metal machining and composite tooling suppliers
- Robotic systems and industrial equipment providers
- Testing and certification service providers

Key Partnerships (Consulting)

- Australian Universities
- International Universities & Institutes
- Cooperative Research Centres

Quality Accreditations and Awards

- ISO 9001 - Quality Management Systems
- Defence Industry Security Program (DISP) (Australia)
- JEC Innovation Awards
- Composites Australia Innovation Award

Contact Details

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