



Military Products and Services

ACT is a full service provider of mission-critical thermal management solutions to a broad array of military applications. From program conception to prototype fabrication, qualification testing, and finally to manufactured products, ACT is the preferred choice for providing ruggedized thermal management solutions.

Design, Analysis, and Optimization

The ACT engineering staff has over 190 years of combined experience with heat pipe and thermal management products and services. Our multidisciplinary team is educated in thermal dynamics, heat transfer, as well as chemical, mechanical, electrical, and nuclear engineering. This unsurpassed level of expertise enables ACT to provide our customers with customized thermal management solutions for the most challenging military/defense applications.

Engineering Services

ACT offers a host of design, analysis, and optimization tools such as Computational Fluid Dynamics (CFDesign™), Finite Element Analysis (COSMOS/WORKS™), and Computer Aided Design (SOLIDWORKS™). By utilizing this software in conjunction with several other analytical tools, ACT is able to offer our military/defense customers first class engineering services.

In-House Prototype Fabrication and Qualification Testing

ACT employs a wide range of high technology fabrication and testing equipment to ensure rapid prototype fabrication and qualification test results. Utilizing the test results, our engineers can modify existing designs, or develop new and innovative solutions for specific applications.

Ruggedized Thermal Management Products

Manufactured under our ISO 9001 and AS 9100 programs, our military/defense customers are ensured the best in quality, reliability, and delivery. This commitment is what makes ACT a leading supplier of ruggedized thermal management products.

Ruggedized Applications:

- Ship Board Electronics
- Line Replaceable Modules
- VME Systems
- Unmanned Aerial Vehicles
- Armored Vehicles
- RF Amplifiers
- Radar Electronics
- Transmitter/Receiver Modules

Thermal Management Products:

- Copper/Water Heat Pipes
- Vapor Chambers
- HiK Aluminum Plates
- Pumped Two-Phase Systems
- Pumped Liquid Systems
- Loop Heat Pipe Systems
- Custom Assemblies

