

www.airborne-sys.com

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WORLD CLASS MILITARY PARACHUTES & SPACE AND RECOVERY SYSTEMS

**Airborne
Systems** 

A composite image featuring a desert landscape with mountains in the background. Overlaid on the sky are three military parachutes: two large, dark-colored parachutes with light-colored canopies, and one smaller parachute further in the distance. The text 'MILITARY PARACHUTES & OXYGEN EQUIPMENT' is written in large, white, bold, sans-serif capital letters on the right side of the image.

MILITARY PARACHUTES & OXYGEN EQUIPMENT

Our history began over 100 years ago in 1919 when Leslie Irvin, the founder of the Irvin Air Chute Company, made the first-ever free fall parachute jump using the first manually operated rip cord. As the world's premier parachute designer and manufacturer, we continue to honor Irvin's legacy through our ongoing achievements.

Research and Development

Our in-house Research and Development group continues our 100+ year tradition by designing and testing innovative, purpose-built, military parachute systems. Our full range of products are continuously in use across the globe, providing a robust base of experience that continually shapes the development of future products.

PERSONNEL PARACHUTES

PRODUCTS

INTRUDER® FAMILY

RA-270

RA-300

RA-360 (RA-1)

RA-300 / 360 W

INSTRUCTOR

HI-5

HI-5 300

HI-5 370

MARAUDER

MARAUDER 270

MARAUDER 300

MARAUDER 360

MULTI-MISSION SYSTEM (MMS)

PS-2

GEMINI TANDEM

GEMINI 430

GEMINI 530

INTRUDER® FAMILY

Suited to fit a wide range of capabilities from novice to experienced parachutists allowing for ease of use while bringing exceptional functionality. Type-classified as RA-1 by US Army.

HI-5

Increased glide performance while incorporating our proprietary Glide Modulation system. Hi-5 is the highest performing military freefall parachute for both HAHO and HALO missions.

MARAUDER

Combines the high glide performance of the Hi-5 series, while borrowing the more conservative profile and docile behavior of the Intruder® series.

MMS

Evolution of the RA-1 to include drogue capability. Maintains all existing features while allowing the user to choose from a complete set of deployment methods.

PS-2

Type-classified by the United States Marine Corps. Combines the Hi-5 canopy with an upgraded harness container and proprietary drogue system.

GEMINI

The Gemini parachute system is designed for military tandem operations, offering high carrying capacity, exceptional flight performance, and advanced glide modulation. The system's patented Glide Modulation allows precise control of glide ratio, ensuring smooth integration with military freefall teams. A unique two-stage drogue collapse ensures stable and smooth deployments even at maximum weight and altitude.

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TROOP PARACHUTES

PRODUCTS

T-11

T-11 GEN 2

MC-6

MC-6+

OCTO-11®

T-11

The world's most widely fielded non-steerable troop parachute system developed for today's warfighter. Features reduced opening shock, greater carrying capacity, and stable, low rate of descent.

T-11 Gen 2

Building on the heritage of millions of T-11 jumps worldwide, T-11 Gen 2 incorporates reliability improvements, reducing opening time from a 6-second to 4-second count, and decreasing packing time by eliminating the slider.

MC-6

Widely fielded steerable troop parachute offering precise landings. Compatible with T-11 harness and reserve to offer increased capability to static line parachute users.

MC-6+

The next evolution of the trusted MC-6, with enhanced features including a larger canopy and unique drive system.

OCTO-11®

Our latest troop parachute, built on the legacy of the T-11 by incorporating user feedback for better performance and added features.

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RESERVE & RECOVERY PARACHUTES

PRODUCTS

SPARTAN RESERVE

T-11R

TJRS

Spartan Reserve

The Spartan Reserve is our new static line reserve parachute, combining stability, low descent rate, and increased weight capacity. The first modern static line reserve parachute certified to FAA Technical Standard Order (TSO-C23f). It meets the PIA TS-135 standard for 450 lbs (204 kg) AUW at 150 KIAS.

T-11R

The primary static line reserve parachute system for the US Army and partner nations around the world, the T-11R Reserve system is a reliable emergency parachute designed for military static-line parachutists. Engineered for rapid deployment and stable descent, it provides a safe and dependable reserve capability.

Towed Jumper Release System (TJRS)

A static line parachute designed to free towed jumpers from aircraft by deploying a recovery parachute. TJRS offers a modern, reliable, and affordable solution for airborne forces. It utilizes a reusable T-11 canopy, ensuring ease of use and compatibility with standard parachute rigging procedures.

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CARGO PARACHUTES

PRODUCTS

AS-2000

T-11 CARGO

UNICROSS®

AS-2000

Our newest aerial delivery system and modern replacement for the legacy G-12E. Can be configured as a cluster or droguefall parachute system.

T-11 Cargo

The T-11 Cargo is an adaptation of the Army's T-11 personnel parachute, designed to drop cargo (up to 500 lbs/227 kg) using A-7A straps. Its similarity to the T-11 personnel system allows cargo and personnel to be deployed from the same aircraft pass, eliminating the need for separate drops. This streamlined process reduces training requirements by using the same parachute model for both purposes.

Unicross®

Low cost alternative, multiple use cargo parachute, particularly suitable for humanitarian drops.

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PRODUCTS

NANOFLY
MICROFLY® II, III
FIREFLY®
FIREFLY® II
RAZORFLY
DRAGONFLY®

NanoFly

Reusable autonomous equipment delivery system intended to fly to the impact point (IP) without external guidance. Capable of carrying a GRW of 25 lbs (11kg) to 250 lbs (113 kg).

MicroFly® II

Reusable autonomous equipment delivery system with a max gross rigged weight (GRW) of 500 lbs (226.8 kg).

MicroFly® III

An improved system to include Vertical Descent Mode (VDM), reducing the failure footprint and allows for safer and easier mission planning.

FireFly®

Selected by the U.S. DOD, capable of carrying a GRW of 2,400 lbs (1,089 kg).

FireFly® II

Upgraded to include Vertical Descent Mode.

RazorFly

Incorporates Glide Modulation, with a capability of carrying a GRW of 4,500 lbs (2,041 kg).

DragonFly®

Capable of carrying a GRW of 10,000 lbs (4,536 kg).

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GPADS ONE-TIME USE

PRODUCTS

FC MINI
FLYCLOPS 2K

FC Mini

For payloads between 200-500 lbs. Features an AGU that is lighter in weight and more compact than the standard AGU.

FlyClops 2K

Complete system comprised of our one-time use GPADS and 2K1T parachute. A low cost solution that eliminates the need for recovery, maintenance, and support. Supports a GRW of 700 - 2,200 lbs (318 - 998 kg).

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SOLR® OXYGEN

PRODUCTS

BAILOUT BOTTLES

OXYGEN MASK

PRE-BREATHER

8-PERSON OXCON

PORTABLE TEST STAND

OXYGEN BOOSTER PUMP

OXYGEN REPLENISHMENT CART

Bailout Bottles

Lightweight oxygen bottle, suitable for HAHO/HALO missions. Available in 3000, 4500 ISO, and 4500.

Oxygen Mask

Low profile mask available in 5 sizes, fitting the 3rd percentile female through the 97th percentile male. Delivers 100% oxygen.

Pre-Breather

A portable and modular oxygen bottle, designed to be mounted quickly and easily in a multitude of aircrafts or attached to a rucksack. Available as a 4500 standard or 4500 ISO bottle.

8-Person OXCON

Oxygen console designed to contain and distribute regulated oxygen for pre-breathing for 8 users onboard the aircraft. Available with optional 12-person expansion kit.

Portable Test Stand

Checks whether SOLR Oxygen equipment is operational, with no need for a power source.

Oxygen Booster Pump

Safely and efficiently fill high pressure O2 systems to pressures up to 4,500 psi.

Oxygen Replenishment Cart

An enhanced model, placing the Booster Pump into a portable cart allowing for additional outlets, increased safety, and more.



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TRAINING

COURSES

RIGGER TRAINING

AIRBORNE TRAINING

SOLR® OXYGEN TRAINING

SAWTOOTH TRAINING FACILITY

Canopy Control

Tactical Parachuting

Night NVG Operations

Unit Workshop Rental

Land Warfare in conjunction
with Airborne Operations

Rigger Training

Customized to the specific parachute system, our training courses will qualify rigger students to inspect, assemble, repack, and perform maintenance on the parachute system. This training can include Static Line, Free Fall, Cargo, and Guided Precision Aerial Delivery Systems.

Airborne Training

Can be customized to meet the needs of our customer units and can include: Canopy Control, High Altitude, Tactical, NVG and Combo Drop [GPADS] Parachute Operations. This training can include the use of the JTRAX® Mission Planning software.

SOLR® Oxygen Training

Airborne Systems can offer courses on our line of SOLR Oxygen equipment. These courses can include: inspection, refill, and maintenance of the SOLR Oxygen systems.

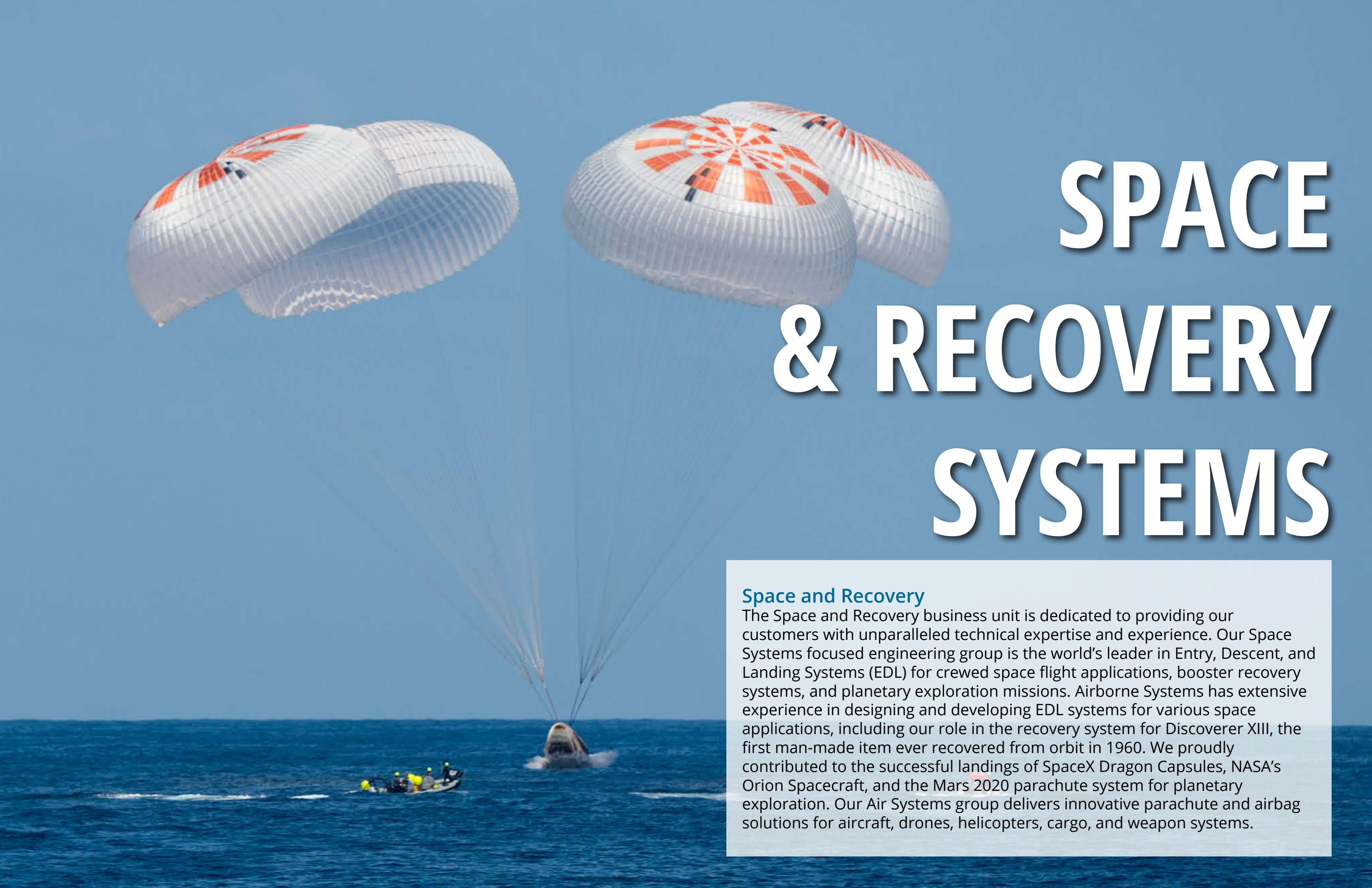
Sawtooth Training Facility

Our state-of-the-art 18,000 sq.ft. facility in Arizona. Offers a secure, climate controlled facility for a variety of courses.

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SPACE & RECOVERY SYSTEMS

Space and Recovery

The Space and Recovery business unit is dedicated to providing our customers with unparalleled technical expertise and experience. Our Space Systems focused engineering group is the world's leader in Entry, Descent, and Landing Systems (EDL) for crewed space flight applications, booster recovery systems, and planetary exploration missions. Airborne Systems has extensive experience in designing and developing EDL systems for various space applications, including our role in the recovery system for Discoverer XIII, the first man-made item ever recovered from orbit in 1960. We proudly contributed to the successful landings of SpaceX Dragon Capsules, NASA's Orion Spacecraft, and the Mars 2020 parachute system for planetary exploration. Our Air Systems group delivers innovative parachute and airbag solutions for aircraft, drones, helicopters, cargo, and weapon systems.

AIR SYSTEMS & SPIN-STALL RECOVERY

Airborne Systems has extensive experience and expertise in a variety of applications related to aircraft safety and effectiveness, weapons delivery, and delivery of personnel and cargo to the war-fighter.

Aircraft applications include spin and stall recovery systems for flight test, aircraft escape systems – ejection seat and walk around, and aircraft landing brakes

Weapons systems include decelerators for both conventional, sub-munitions, and special weapons.

Military systems include gliding and non-gliding personnel parachutes for all classes of air drop, as well as conventional and precision cargo delivery systems. Airborne Systems also supports the U.S. Missile Defense Agency by providing a number of air launch systems to deliver targets for use in the testing of missile defense systems.

CAPABILITIES

Aerial Targets

Aircraft Landing Deceleration Systems

Aircraft Escape Systems and Ejection Seats

Weapon Deployment Systems

Aircraft Spin and Stall Recovery Systems

Cockpit Control Systems

Aircraft Escape Systems

Flight Termination Systems



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SPACE & RECOVERY SYSTEMS

Since the early days of the U.S. space program and the development of the recovery system for the Discoverer XIII reentry capsule (the first man made item ever recovered from orbit), Airborne Systems has been at the forefront of Entry, Descent & Landing System (EDL) development for space and high altitude applications. Since the 1960's, Airborne Systems has designed and developed EDL systems for a multitude of crewed and uncrewed space applications. Today, Airborne Systems is leading the way with the design and development of the EDL systems needed for America's new fleet of human-rated spacecraft being developed to replace the Space Shuttle (Orion, CST-100, Dragon, New Shepard).

The Airborne Systems Space Systems business unit is dedicated to supporting the emerging commercial space industry and is the world leader in the development of EDL systems for high altitude and space flight applications; both crewed and uncrewed, terrestrial and interplanetary.

CAPABILITIES

- Planetary Space EDL Systems
- Booster Recovery Systems
- Payload Recovery Systems
- Capsule Recovery Systems
- Fairing Recovery Systems

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INFLATABLE AERODYNAMIC DECELERATORS

We have developed a wide range of inflatable products starting with production of hundreds of thousands of BSU-85 Air Inflatable Retarders in the 1960's to the recent development of large scale Inflatable Aerodynamic Decelerators (IADs) for NASA.

This experience provides a significant capability to design, analyze, develop, and fabricate inflatable and fabric structures, including inflatable decelerators for supersonic and hypersonic applications, impact attenuation airbags for space and aircraft applications, flotation and recovery devices for naval applications, inflatable deployable wings for light aircraft, pneumatic muscle actuators, and deployable/transportable structures for various applications.

CAPABILITIES

Entry, Descent and Landing Systems (EDL)

for Various Space Applications

Hypersonic Inflatable Aerodynamic Decelerators (HIAD)

Supersonic Inflatable Aerodynamic Decelerators (SIAD)

Impact Attenuation Airbags

Pneumatic Muscle Actuators

Inflatable Wings

Flotation Systems

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ENGINEERING & DESIGN

We believe that successful products are born from a deep understanding of the needs and aspirations of our customers. Our approach combines rigorous research, collaborative brainstorming, and iterative prototyping, ensuring that every design decision is informed by real-world insights.

Airborne Systems follows fielded products to ensure they provide maximum capability to the user. This is done throughout continuous education, training, and support in the field.

Systems engineering tools including integrated master schedule/ integrated master plan, specification compliance, validation tracking, and risk assessment are utilized to ensure project success.

In addition to the development of internal specifications for fabric, parts and equipment, Airborne Systems engineering process also includes programmatic test plans, test reports, final verification matrices and reports.

CAPABILITIES

Mechanical Design and Manufacturing

Control Systems

Systems Analysis

Fabric Design and Manufacturing

Parachute Trajectory Modeling and Simulation

Program Management

Configuration Management

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PRODUCT TESTING & SUPPORT

Airborne Systems' test capabilities are unmatched in the industry. Our engineers are well-versed in all aspects of product testing, from seam and joint element testing to highly complex supersonic wind tunnel testing. Airborne Systems' extensive experience and knowledge base ensure that tests are conducted with the precision required to validate product performance to meet federal standards.

Airborne Systems maintains dedicated test and drop facilities in several locations, enabling us to accommodate and respond to various customer requirements.

With a test history spanning decades, Airborne Systems is uniquely positioned to apply lessons learned to every system we design and test.

CAPABILITIES

- Tensile Testing
- Flight Testing & Qualification of Parachute Systems
- Airbag Drop Testing
- Wind Tunnel Testing
- Water Landing Systems Testing
- Acceptance Testing
- Installation Testing
- Environmental Testing
- Data Collection
- Rigging, Packing and Product Support

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