IRVIN AEROSPACE INC.

IRVIN AEROSPACE INC.
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DECELERATORS

MORTAR DEPLOYED PARACHUTES

STEERABLE TROOP PARACHUTES

SPACE APPLICATIONS

NON-STEERABLE TROOP MAIN & RESERVE PARACHUTES

AIRCRAFT SPIN-STALL RECOVERY SYSTEMS

CARGO DELIVERY PARACHUTES

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HISTORY

The Irving Air Chute Company was incorporated on June 18th, 1919. A clerical error resulted in the addition of the "g" to Irvin and this was left in place until 1970, when the company was unified under the title Irvin Industries Incorporated. In 1996, Irvin Industries Incorporated changed their name to Irvin Aerospace to better reflect the Aerospace Industry to which the focus of the company had returned.

CAPABILITY

Irvin Aerospace is actively engaged in the design, development, manufacture and export of military defense products, aerospace safety, rescue and life support equipment. Our product line includes space and air vehicle recovery systems, deceleration systems for high-performance aircraft, military personnel parachute systems, cargo parachute systems and spin/stall recovery systems.

The Engineering Department is responsible for projects from the proposal stage to production. This encompasses design, development, static testing, aerial and dynamic testing, drawing approval, preparation of procedures and specifications, through production, acceptance and delivery to the customer. The department has extensive computer modeling and simulation capabilities including decelerator dynamics, Explicit FEA for fabric structure and impact problems and Fluid Structure interaction problems, thereby avoiding some extensive testing. Unique ordnance systems are also designed in the department to enable parachute deployment and control of the recovery sequence.

Irvin Aerospace has 85 years of experience and offers a comprehensive list of products designed to fully meet customer and airborne equipment requirements through our commitment to workmanship, design, innovation, integrity, and quality of products and services.

PRODUCT HIGHLIGHTS

Aircraft Landing Systems: Irvin Aerospace has provided many types of landing deceleration systems, often referred to as drag chutes or brake chutes. These have been designed and supplied for a wide variety of applications, ranging from the F-16 aircraft to the B-52, SR-71 and, probably the most widely photographed landing decelerator system in recent years, the Space Shuttle brake chute.

Troop & Cargo Parachutes: Irvin manufactures the T-10 canopy system, the current mainstay of the U.S. Airborne Forces. We also provide many more advanced canopy systems such as the SF-10A and we are one of the few qualified suppliers of the MC-4 ram-air system. Irvin is also a major supplier of cargo delivery parachutes. These encompass a range, from small pilot and drogue chutes to the largest current in-Service canopies such as the 100 ft diameter G-11. These cargo parachutes are used for many different missions, from force insertion and re-supply of materiel to humanitarian relief efforts.

Spin/Stall Recovery Systems: Irvin Aerospace is the world leader in the development and production of spin/stall recovery systems for military and commercial aircraft. Irvin produced the first spin system for the Douglas DC-9 in 1964. Since then, Irvin Aerospace has provided systems for a range of aircraft from lightweight fighters, such as the F-16 Fighting Falcon, to the largest transport aircraft, including the C-5 Galaxy and the C-17 Globemaster III.

Modeling & Simulation Technology: Irvin Aerospace is leading the parachute industry in the application of Fluid Structure Interaction (FSI) methods, coupling Computational Fluid Dynamics (CFD) and Structural simulations (FEA). Our approach to the application of simulations is predominantly to compliment and support design, development, testing and analysis efforts. Additionally, Irvin has the capability of applying Explicit FEA tools to a wide variety of fabric structure applications including static loading and dynamic impact problems.

PLANT SIZE

Irvin U.S. Corporate Headquarters encompassing Engineering, Manufacturing, Systems Analysis, QA, Document Control, Sales/Marketing and Administrative functions is located in a 63,000 sq. ft. facility in Santa Ana, California.