



WE ARE ILC DOVER

ILC Dover Aerospace & Defense Solutions, an Ingersoll Rand Business, advances human protection, exploration and mission success through innovative pressurized softgoods. We enable interplanetary exploration, protect critical infrastructure and safeguard our nation across the most demanding environments on Earth and beyond.



ilcdoverastrospace.com

Our Organization & History

For more than 75 years, ILC Dover has been a global leader in softgoods innovation, delivering advanced, mission-critical systems for the world's most demanding environments. With unmatched experience supporting U.S. defense agencies, government organizations and commercial partners, we design and manufacture high-performance materials and fully integrated softgoods systems that drive mission success and strengthen national security.

Our expertise spans a wide range of engineered pressurized softgoods and deployable structures. From designing and manufacturing the spacesuits that carried astronauts to the Moon and built the International Space Station, to developing inflatable radomes for missile defense, ILC Dover has consistently delivered precision, reliability and innovation.

Our technologies have enabled historic achievements and continue to shape the future of exploration and defense—from landing airbags that delivered rovers safely to Mars, to lighter-than-air platforms supporting border security and surveillance missions around the world.

Today, ILC Dover leverages this proven legacy to deliver next-generation softgoods for terrestrial defense and space exploration—from inflatable habitats for low-Earth orbit, lunar bases, and Mars missions, to a comprehensive suite of Department of Defense (DoD) pressurized structures.



Space Suits

ILC Dover's **Astro™ Extravehicular Activity (EVA) spacesuit** redefines astronaut mobility and protection for spacewalks and planetary exploration. Built for flexibility and performance, Astro™ enables astronauts to perform complex maintenance and scientific tasks in microgravity or on the lunar and Martian surface.

The **Sol™ Launch, Entry, and Abort (LEA) spacesuit** from ILC Dover sets the benchmark for crew safety during the most critical phases of spaceflight. Purpose-built for comfort, reliability, and mobility, Sol™ protects astronauts during launch, atmospheric re-entry, and emergency scenarios. Each suit is customized to meet the specific requirements of its spacecraft, ensuring optimal performance during nominal operations and contingency events. Sol™ has been selected as the LEA suit for Boeing's CST-100 Starliner, underscoring its role in advancing human spaceflight safety and mission assurance.



Engineered Softgoods

ILC Dover's expertise in softgoods design and advanced manufacturing enables inflatable systems that perform where durability and precision matter most. From **radomes that protect missile defense infrastructure** to **inflatable habitats for low-Earth orbit and lunar missions**, our structures are built to endure and adapt.

Our mission-critical portfolio includes **landing airbags, UAV wings, survivable aircraft fuel bladders, deployable space systems, re-entry deceleration devices and rugged terrestrial habitats** for the Department of Defense. These technologies reflect our commitment to reliability, adaptability and performance in the most demanding environments.

Our **lighter-than-air platforms** deliver persistent surveillance and monitoring for defense and border security. With more than 280 aerostats deployed worldwide, these helium-filled systems carry advanced radar and sensor payloads to altitudes up to 15,000 feet. We also develop high-altitude airships and research platforms for defense, commercial and scientific customers—advancing communications, cargo transport and global awareness.

