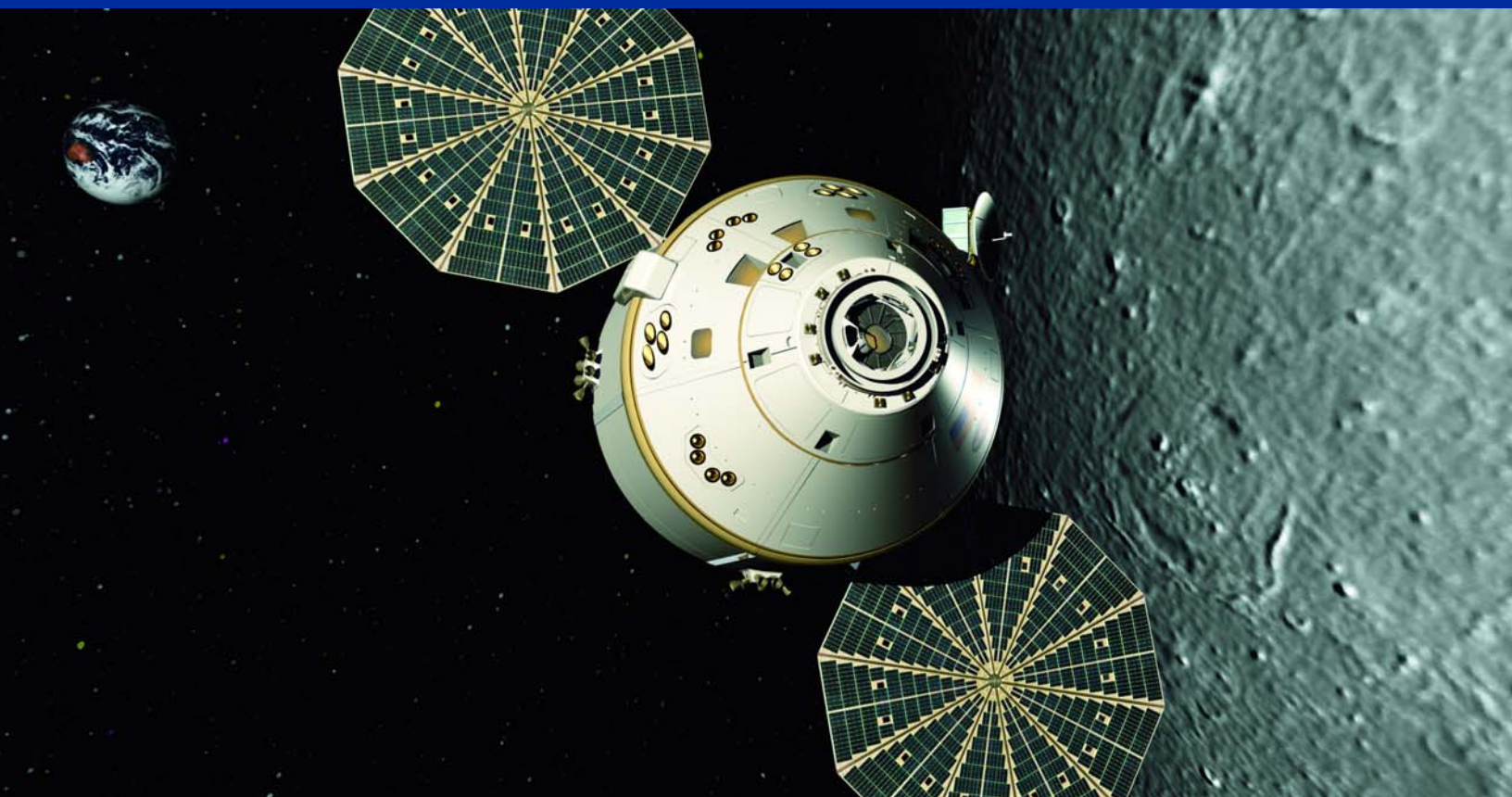
LOCKHEED MARTIN

We never forget who we're working for™

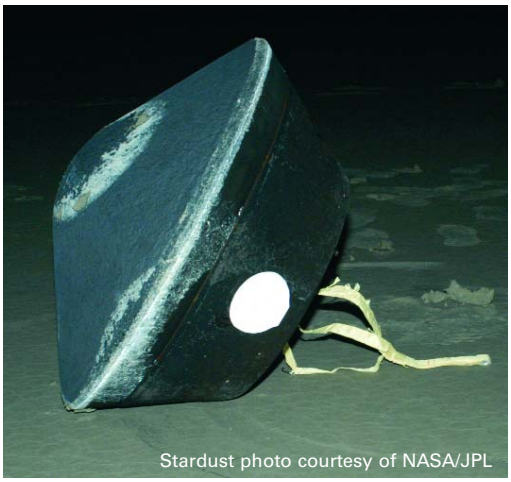
Orion

Safe, Reliable Human Transport to ISS, Moon, Mars, and Beyond



Safe Crew Transport the Key to Enabling the Vision

Applying the world's most recent space exploration capsule experience to help assure Orion mission success.



The Stardust capsule, designed and built by Lockheed Martin for NASA, successfully reentered the Earth's atmosphere January 15, 2006, following a seven-year mission to collect samples of interstellar and cometary particles from our solar system. The capsule (shown above) landed gently at the Utah Test and Training Range in the Utah desert.

The Orion program will provide a system capable of safely transferring humans to and from the International Space Station (ISS), the Moon, Mars and other destinations beyond low earth orbit (LEO). Utilizing an affordable, staged approach to accomplishing these missions, the Lockheed Martin Orion Team will focus on providing NASA the opportunity to return to the Moon by the middle of the next decade with a low risk, high confidence program plan. In January 2004, President Bush announced this bold new vision for the National Aeronautics and Space Administration (NASA):

- Implement a sustained and affordable human and robotic program to explore the solar system and beyond
- Extend human presence across the solar system, starting with a human return to the Moon by the year 2020, in preparation for human exploration of Mars and other destinations
- Develop the innovative technologies, knowledge, and infrastructures to support decisions about the destinations for human space exploration
- Promote international and commercial participation in exploration to further advance U.S. scientific, security and economic interests

The Lockheed Martin Orion team brings premier human space flight and exploration expertise to bear in the development of this next-generation crew transportation system. Our collective expertise in large-scale systems integration, planetary exploration, human space flight systems and operations, launch vehicles, military aircraft, and autonomous flight systems provides a critical foundation for NASA's initiative to restore vigor and public support for the nation's human space-flight program.

As a point-of-departure design for the Orion, our state-of-the-art capsule concept provides a solution that is highly extensible to future missions. This 21st century spacecraft design:

- Focuses first and foremost on crew safety and spacecraft survivability
- Provides safe ascent abort with no black zones
- Enables safe abort opportunities during all mission phases
- Provides the crossrange needed for nominal recovery on land
- Benefits from a team that has partnered with NASA to design, develop and successfully return the only deep space capsule missions since the Apollo era.

Partnering with NASA to Deliver a Safe, Sustainable, and Affordable Orion Spacecraft

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Honeywell

Hamilton Sundstrand
A United Technologies Company

Orbital

USA
United Space Alliance

Lockheed Martin Orion Team

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