

BACK TO THE MOON

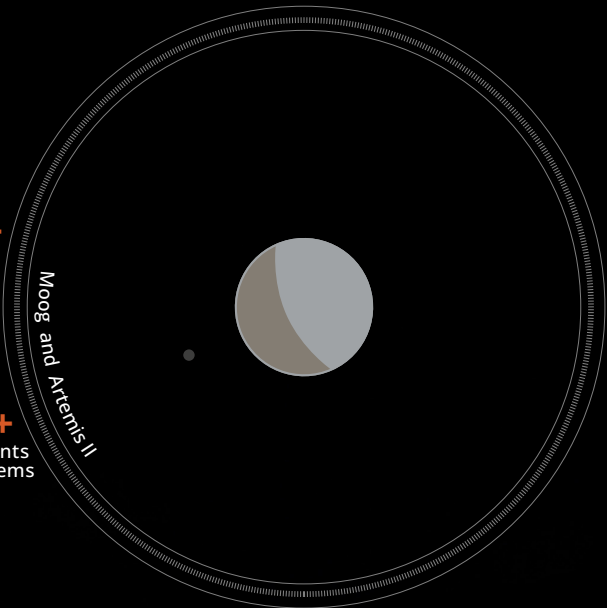
THE MOOG TECHNOLOGY BEHIND ARTEMIS II

From liftoff to splash down, from Apollo to Artemis, Moog provides critical technologies that drive safe and successful missions. Every crewed journey to the Moon has relied on Moog's decades of spaceflight expertise and precision-engineered solutions that perform the first time, every time.

500+
Moog Employees

7
Moog Sites

100+
Moog Components
and Systems



MOBILE LAUNCH PAD

During launch, Moog actuators swing the gantries away from the rocket within a fraction of second.

ORION SPACECRAFT

LAUNCH ABORT SYSTEM

If there is an emergency during launch, Moog actuators steer the launch abort system to safely carry astronauts away from the rocket.

SERVICE MODULE

Dozens of Moog thruster and isolation valves control the flow of propellant into the spacecraft's engines to ensure Orion stays on course throughout its mission to take astronauts further into space than ever before.

Critical shock testing provided by Moog ensures all hardware can withstand the harsh environment experienced during launch.

CREW MODULE

The Moog ethernet switch is a critical part of the spacecraft's communication system, allowing for high speed data management and networking across hundreds of thousands of miles. allows for high-speed data management and networking.

Crew safety is the main priority. Moog provides several types of environmental control and life support components to regulate temperature, breathing gases, and waste removal.

Moog has four unique isolation and crossover valve designs that control the flow of helium in support of the pressurization and propulsion system.

Upon splashdown, Moog valves and a pneumatic actuator allow crews to open the capsule door.

INTERIM CRYOGENIC PROPULSION STAGE

On the rocket's second stage or ICPS, Moog thrust vector control systems move the engines to steer the Orion spacecraft.

Moog inlet valves isolate and direct flow of the fuel and oxidizer propellants and a Moog valve actuator controls the flow of liquid oxygen to the main engine.

SPACE LAUNCH SYSTEM (SLS)

Moog thrust vector control systems point the core stage and booster engines in the right direction, steering the rocket where it needs to go.

On the auxiliary power unit, Moog isolation valves are safety-critical, high-pressure components used to control the flow of fuel.

