

# Space Launch System Lift Capabilities

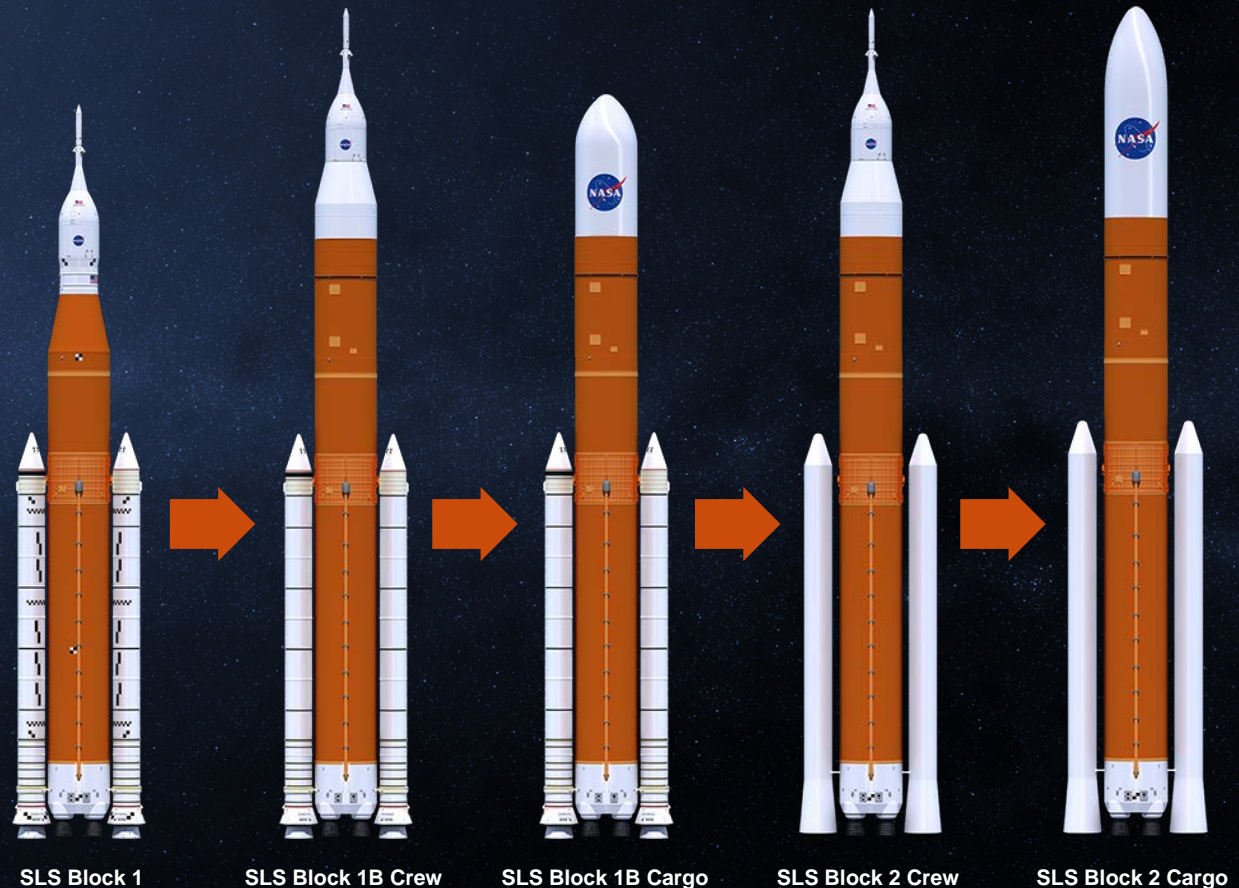
National Aeronautics and  
Space Administration



Payload to TLI/Moon	> 26 t (57k lbs)	34–37 t (74k–81k lbs)	37–40 t (81k–88k lbs)	> 45 t (99k lbs)	> 45 t (99k lbs)
Payload Volume	N/A**	10,100 ft <sup>3</sup> (286m <sup>3</sup> )**	18,970 ft <sup>3</sup> (537 m <sup>3</sup> )	10,100 ft <sup>3</sup> (286m <sup>3</sup> )**	31,950 ft <sup>3</sup> (905 m <sup>3</sup> )

Trans-Lunar Injection (TLI) is a propulsive maneuver used to set a spacecraft on a trajectory that will cause it to arrive at the Moon. A spacecraft performs TLI to begin a lunar transfer from a low circular parking orbit around Earth.

The numbers depicted here indicate the mass capability at the Trans-Lunar Injection point.



\*\* Not including Orion/Service Module volume

Maximum Thrust	8.8M lbs	8.8M lbs	8.8M lbs	11.9M lbs	11.9M lbs
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# Space Launch System Configurations

Height

322 ft

364 ft

327 ft

364 ft

365 ft

