

SpaceX completes test flight of Mars rocket prototype

August 5 2020



The Starship prototype was built in a few weeks by SpaceX teams on the Texas coast, in Boca Chica (pictured September 2019)

SpaceX on Tuesday successfully completed a flight of less than a minute of the largest prototype ever tested of the future rocket Starship, which

the company hopes to use one day to colonize Mars.

"Mars is looking real," SpaceX founder Elon Musk tweeted in response to a fan.

The current Starship prototype is fairly crude: it's a large metallic cylinder, built in a few weeks by SpaceX teams on the Texas coast, in Boca Chica—but it's still smaller than the actual rocket will be.

Several previous [prototypes](#) exploded during ground tests, during a learning process of trial and error.

In images shared Tuesday by several space specialists, including the space news website NASASpaceFlight.com, the latest prototype—dubbed SN5—reached an undetermined altitude before descending to land in a cloud of dust, demonstrating good trajectory control.

"And when the smoke cleared, she stood there majestically, after the 150 meter flight!" tweeted NASA's top scientist, Thomas Zurbuchen.

The so-called "hop test" was planned to reach a 150-meter (492-foot) altitude, but SpaceX has not confirmed any details about the [test flight](#).

In 2019, an earlier prototype—the smaller Starhopper—flew to 150 meters in altitude and returned to land.

The Starship envisioned by Musk will be 120 meters tall and will be able to land vertically on Mars.



This photo provided by SpaceX shows a prototype of its Mars ship, Starship, is launched on Tuesday, Aug. 5, 2020 in south Texas. Tuesday night's flight lasted barely 45 seconds, but was an important first for SpaceX's Starship. SpaceX chief Elon Musk tweeted: "Mars is looking real." Musk says several more short hops are planned before a test version of Starship aims for a high altitude. The latest prototype is relatively plain: It stands a full-scale 100 feet tall and resembles a steel silo with a cap on top. (SpaceX via AP)

"We are going to the Moon, we are going to have a base on the Moon, we are going to send people to Mars and make life multi-planetary," Musk said Sunday, after welcoming two NASA astronauts back from the International Space Station.

The astronauts had traveled in the Dragon capsule developed by SpaceX.

© 2020 AFP

Citation: SpaceX completes test flight of Mars rocket prototype (2020, August 5) retrieved 16 June 2024 from <https://phys.org/news/2020-08-spacex-flight-mars-rocket-prototype.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.