SpaceX Moon & Mars Rocket ...and material science

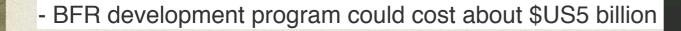
The Big Falcon Rocket (BFR) All photos/drawings are provided by SpaceX

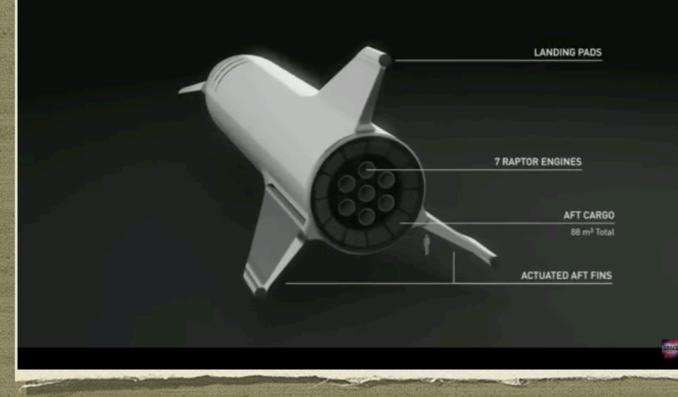
BFR FACTS

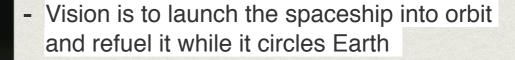
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BFR is designed to be a 39-story launch system made of two parts:

- a 180-foot-tall spaceship, from tip to tail, and
- a 230-foot-tall rocket booster







55 m LENGTH Including Fins

- Then the ship can fire up its engines, fly through space and land on Mars
- then take off again and return to Earth
- It is designed to be 100% reusable

FORWARD PAYLOAD SECTION Over 1000 m³ Pressurized Volume

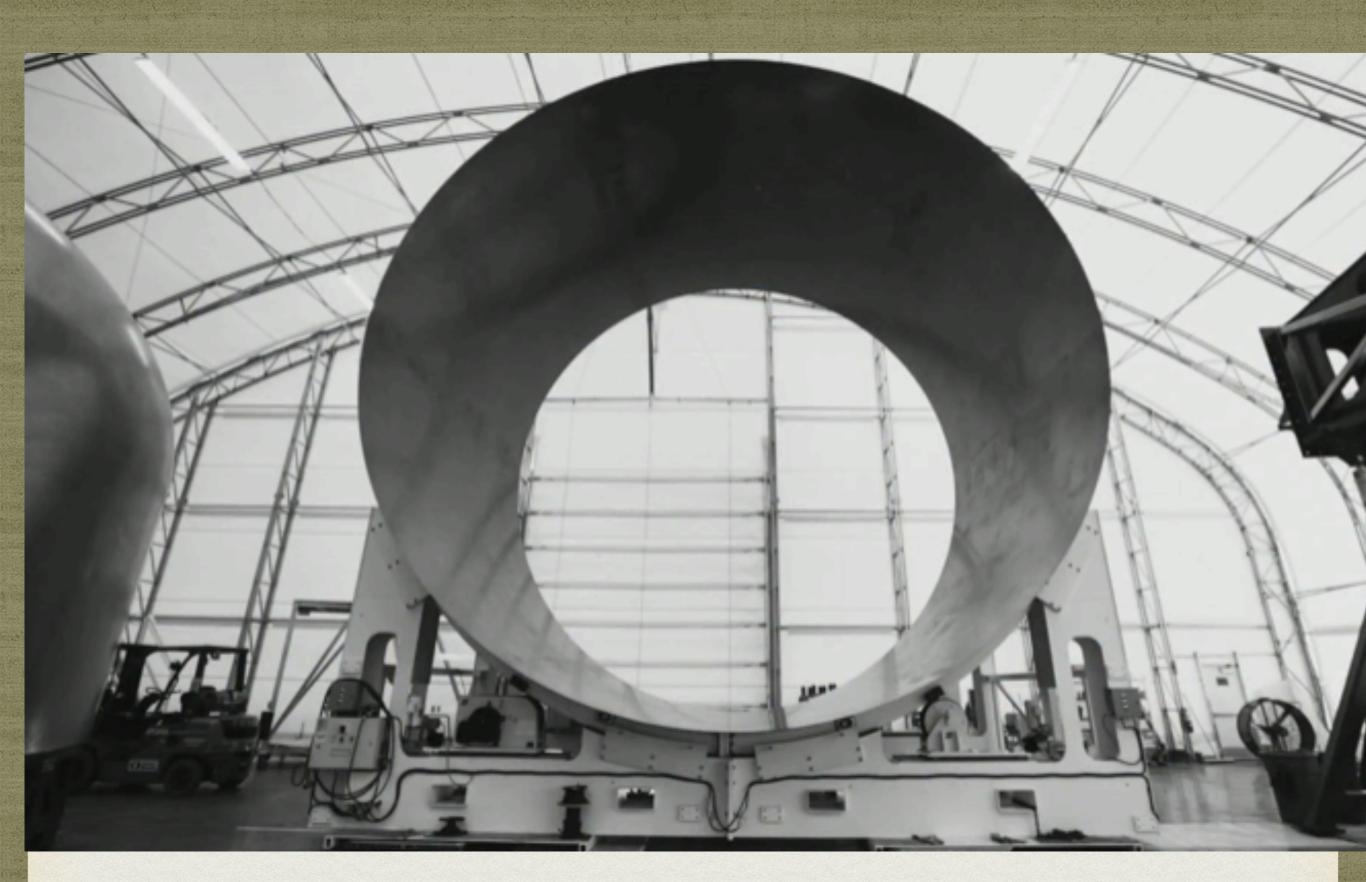
ACTUATED



This is the outside of the cylindrical TOOL called "the mandrel." Robots wrap layer upon layer of *carbon-fibre* tape around the mandrel to form a 30-foot-wide "barrel section" of the spaceship.



The outside of the mandrel.

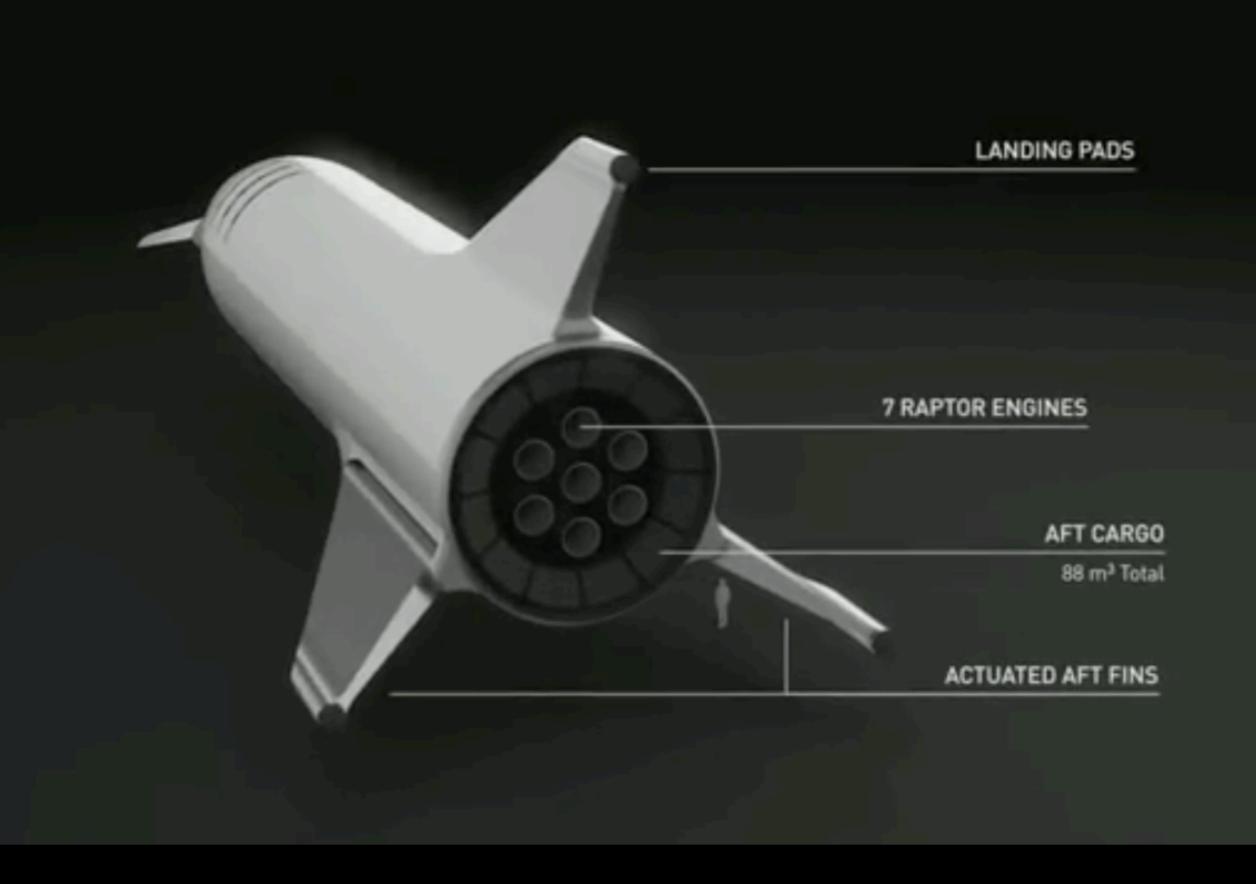


One *barrel section* that's been cured and freed of the mandrel. The rounded dome on the left is (supposedly) a part of a propellant tank also made of carbon-fibre composites.



Elon Musk hosting the press conference Sept 17, 2018

10.00



FORWARD PAYLOAD SECTION

Over 1000 m³ Pressurized Volume

MM ACTUATED FORWARD FINS 55 m LENGTH Including Fins

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Thank You!

Gary Oct. 4 -2018