



An ESBAŞ Enterprise



Global Friendship Through Space Education

Astro

Special

Success of SpaceX

Private-public enterprises don't always work, but the historic cooperation between America's Nasa and billionaire Elon Musk's SpaceX definitely does. The space company has just returned two Nasa astronauts to Earth after helping to deliver them to the International Space Station in May. It is the cheapest space mission ever in the United States. Having checked all the stringent safety criteria, commercial flights are set to be the future of space exploration and tourism. The significant cost reduction will free Nasa to plan for more ambitious exploration and experimentation programmes while helping to make commercialisation a reality. Now let's examine this wonderful capsule and the rocketship together!

First: The Capsule

Nosecone
Covers docking hatch to ISS

Engine pods
four pairs of **Super Draco** engines provide escape system



May 30, 2020: Doug Hurley (above left) and **Bob Behnken** (right) became first two NASA astronauts to fly Crew Dragon to ISS

SpaceX Falcon 9 Rocket

Second stage:
Contains avionics and flight control computers

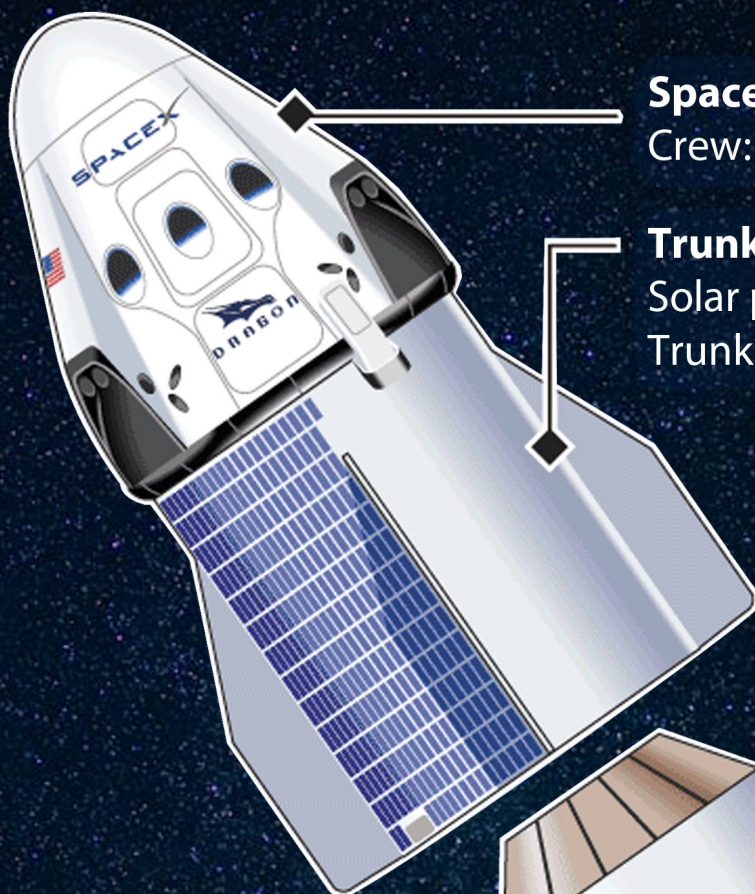
Inter-stage adapter

Landing legs



Falcon 9 reusable first stage: Nine Merlin 1D engines, each with sea-level thrust of 654kN (66,700kg)
Cost: \$58m/seat

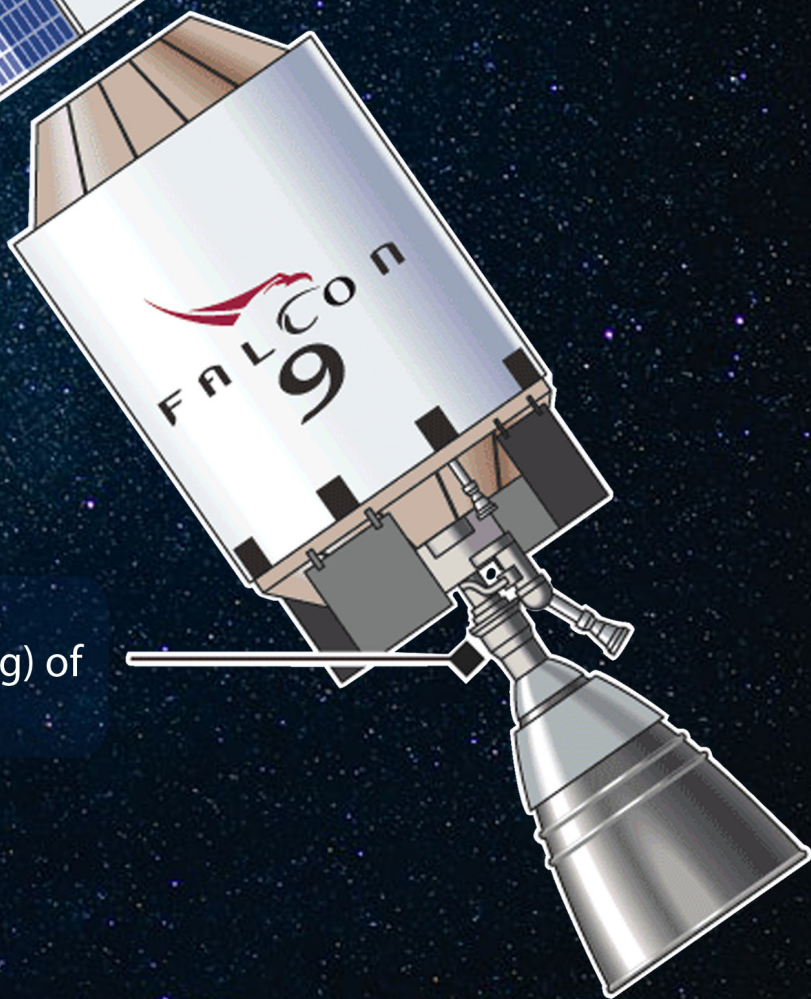
Now, The Second Stage:



SpaceX Crew Dragon
Crew: 7. Height: 8.1 metres

Trunk: Carries unpressurized cargo. Solar panels cover half of surface. Trunk jettisoned prior to re-entry

Merlin 1D Vac Engine:
Generates 801kN (81.700kg) of thrust in vacuum



SPACE
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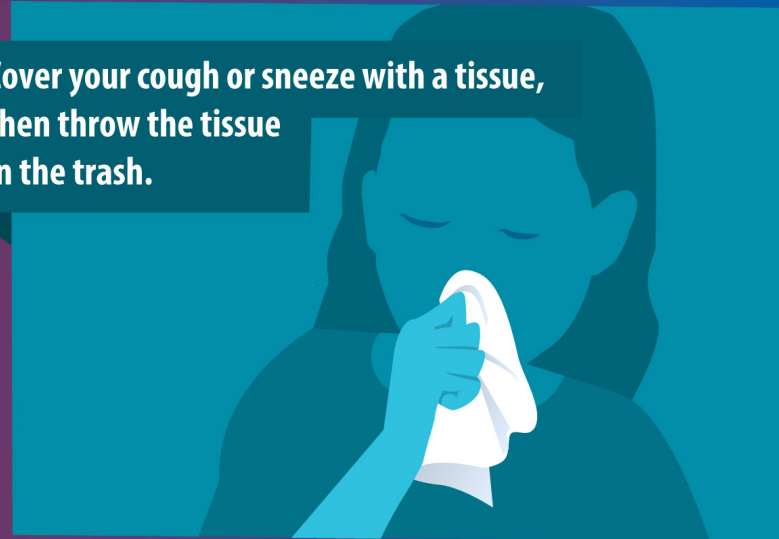


How to Protect Ourselves?

Avoid close contact with people who are sick.



Cover your cough or sneeze with a tissue, then throw the tissue in the trash.



Avoid touching your eyes, nose, and mouth.



Clean and disinfect frequently touched objects and surfaces.



Stay home when you are sick, except to get medical care.



Wash your hands often with soap and water for at least 20 seconds.





Astronomy Picture of the Day

SpaceX Demo-2 Launch

Image Credit & Copyright:NASA/Joel Kowsky

Clouds are white but the sky is dark in this snapshot of Launch Complex 39A at the Kennedy Space Center. The dramatic daytime sky is partly due to the black and white photo captured with a digital camera at near-infrared wavelengths. Taken at 3:22 p.m. EDT Saturday May 30 the launch was pretty dramatic too as a Falcon 9 rocket lofted a Crew Dragon spacecraft towards low-Earth orbit. Astronauts Robert Behnken and Douglas Hurley were onboard, the first crew launched from a United States spaceport since the conclusion of the Space Shuttle Program in 2011. A few minutes after launch, the Falcon 9 first stage returned to land on Of Course I Still Love You (that's an autonomous spaceport drone ship ...) patiently waiting off the Florida coast.

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