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## **Falcon 9 Launch Vehicle Payload**

Falcon 9 Launch Vehicle Payload User's Guide Rev 1. ... In addition, NASA has selected the SpaceX Falcon 9 launch vehicle and Dragon spacecraft for the International Space Station (ISS) Cargo ...

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8,227 kN / 1,849,500 lbf. The Falcon 9 first stage is equipped with four landing legs made of state-of-the-art carbon fiber with aluminum honeycomb. Placed symmetrically around the base of the rocket, they are stowed at the base of the vehicle and deploy

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just prior to landing. Learn more about SpaceX reusability.

### **SpaceX - Falcon 9**

Falcon 9 can lift payloads of up to 22,800 kilograms (50,300 lb) to low Earth orbit (LEO), 8,300 kg (18,300 lb) to geostationary transfer orbit (GTO) when expended, and 5,500 kg (12,100 lb) to GTO when the first stage is recovered.

### **Falcon 9 - Wikipedia**

"The results of this study highlight the technical and economic challenges of a reusable launch vehicle based on existing SABRE technology. ... Falcon 9 sets commercial ... The NROL-44 payload was ...

### **Rocket Report: Angara finally flies again, Falcon 9 ...**

Falcon 9 Full Thrust (also known as Falcon 9 v1.2, with variants Block 1 to Block 5) is a partially reusable medium-lift launch

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vehicle, designed and manufactured by SpaceX. Designed in 2014–2015, Falcon 9 Full Thrust began launch operations in December 2015. As of 13 December 2020, Falcon 9 Full Thrust had performed 82 launches.

### **Falcon 9 Full Thrust - Wikipedia**

The three-hour launch window opens at 9 a.m. Saturday at Kennedy Space Center in Cape Canaveral. The mission will launch a classified payload for the U.S. National Reconnaissance Office.

### **SpaceX Falcon 9 launch delayed until Saturday | WFLA**

A Falcon 9 rocket and its \$200 million AMOS 6 satellite payload were destroyed during a pre-launch propellant loading and hot fire test exercise at Cape Canaveral on September 1, 2016. The test was planned to assure all was ready for a September 3 launch that would have placed 5.5 tonne AMOS 6 in

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geosynchronous transfer orbit.

## **SpaceX Falcon 9 v1.2 Data Sheet - Space Launch Report**

The Block 2 Falcon 9 would be able to lift nearly 10.5 tonnes to LEO from Cape Canaveral and 4.54 tonnes to a 28.5 deg GTO. Stage recovery attempts were planned when light payloads were launched, with unused payload mass apparently assigned to recovery hardware. Block 1 Falcon 9, powered by the initial lower-thrust Merlin 1C engines, would perf

## **SpaceX Falcon 9 Data Sheet - NASA**

Falcon 9 payload services include secondary and tertiary payload connection via an ESPA-ring, the same interstage adapter first utilized for launching secondary payloads on US DoD missions that utilize the Evolved Expendable Launch Vehicles (EELV) Atlas V and Delta IV. This enables secondary and even tertiary missions with minimal impact to the original

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mission.

## **Falcon 9 v1.1 - Wikipedia**

Long March 5 (长征五号, LM-5, CZ-5, or Chang Zheng 5) is a Chinese heavy-lift launch vehicle developed by the China Academy of Launch Vehicle Technology (CALT). It is the first Chinese launch vehicle designed from the ground up to focus on non-hypergolic liquid rocket propellants. There are currently two CZ-5 variants: CZ-5 and CZ-5B.

## **Long March 5 - Wikipedia**

Falcon 9 B1059, a new upper stage and payload fairing, and the unspecified NROL-108 payload(s) went vertical at Kennedy Space Center (KSC) Launch Complex 39A on December 16th - far too late for ...

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## **[webcast]**

and flown the Falcon 1 light -lift launch vehicle, the Falcon 9 medium -lift launch vehicle, the Falcon Heavy heavy -lift launch vehicle, the most powerful operational rocket in the world by a factor of two, and Dragon, which is the first commercially produced spacecraft to visit the International Space Station.

## **USER'S GUIDE - SpaceX**

Falcon 9 flight 20 was the first launch of the substantially upgraded Falcon 9 Full Thrust version of the Falcon 9 launch vehicle. It carried 11 Orbcomm-OG2 satellites to Earth orbit. The launch was also notable as it was the first SpaceX launch following the catastrophic failure of a Falcon 9 v1.1 launch vehicle's second stage on Falcon 9 Flight 19 in June 2015.

## **Falcon 9 flight 20 - Wikipedia**

At present, the Falcon 9 is slated to launch the Crew Dragon

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spacecraft to the ISS in 2018 under NASA's Commercial Crew Program (CCP). SpaceX also plans to launch a "Heavy" version of the vehicle,...

### **Falcon 9 - SpaceFlight Insider**

Momentum purchased rides on five SpaceX Falcon 9 SmallSat Rideshare missions in 2020 and 2021 to showcase the ability of its Vigoride in-space transportation vehicle to move customer satellites ...

### **Momentum to offer last-miles service from SpaceX rideshare ...**

Falcon Heavy is the most powerful operational rocket in the world by a factor of two. With the ability to lift into orbit nearly 64 metric tons (141,000 lb) Falcon Heavy can lift more than twice the payload of the next closest operational vehicle, the Delta IV Heavy. Falcon Heavy is composed of three Falcon 9 nine-



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engine cores whose 27 Merlin engines together generate more than 5 million pounds of thrust at liftoff, equal to approximately eighteen 747 aircraft.

## **SpaceX - Falcon Heavy**

Falcon 9 Launch System: The SpaceX Falcon 9 is a two-stage rocket designed and manufactured for the reliable and safe transport of satellites and the Dragon spacecraft into orbit. Falcon 9 was designed from the ground up and is the first rocket completely developed in the 21st century.

## **EELV - Delta IV, Atlas V, Falcon 9 | ULA, SpaceX, Budget/Costs**

Falcon 9. Falcon 9, the world's first orbital class reusable rocket, is manufactured and operated by SpaceX for the reliable and safe transport of people and payloads to Earth orbit and beyond.

Learn more about Falcon 9

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## **SpaceX - Rideshare**

satellite on Atlas V, Delta IV, Falcon 9 or Taurus 2. The ESPA Grande 5-Port has a height of 32 inches, with 24-inch ports that accommodate secondary payload masses up to 660 lbs. The Small Launch ESPA is a reduced-diameter ring for small launch vehicles with a 38.8 inch diameter primary interface and a choice of 8 or 15 inch diameter ports.

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