

Ariane 5

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Ariane 5 is a European heavy-lift space launch vehicle developed and operated by Arianespace for the European Space Agency (ESA). It is launched from the Centre Spatial Guyanais in French Guiana and has been used to deliver payloads into geostationary transfer orbit (GTO) or low Earth orbit (LEO). A direct successor system, Ariane 6, is in development. The system was originally designed as an ...

Ariane 5 - Wikipedia

Ariane 5 overview. Arianespace's Ariane 5 is the world reference for heavy-lift launchers, capable of carry payloads weighing more than 10 metric tons to geostationary transfer orbit (GTO) and over 20 metric tons into low-Earth orbit (LEO) – with a high degree of accuracy mission after mission.

Ariane 5 - Arianespace

Ariane 5 maintains this impressive record, making it one of the most reliable launchers in the world at an affordable price for Europe. Ariane 5 was a major evolution for the Ariane family. It is more powerful and uses more advanced technologies. Three successive generic versions – Ariane 5G, Ariane 5G+ and

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Ariane 5GS, are now retired from ...

ESA - Ariane 5

Ariane 5 is a heavy-lift rocket that is designed to take satellites and other payloads into geostationary transfer orbit or low-Earth orbit. The rocket is operated and marketed by Arianespace, and ...

Ariane 5: European Heavy-Lift Rocket | Space

The Ariane 5 is poised to carry three U.S.-built commercial satellites into orbit, while testing a few rocket upgrades, including a modified fairing needed for the launch of the James Webb Space ...

Ariane 5 - Spaceflight Now

Ariane 5 On June 4th, 1996, the very first Ariane 5 rocket ignited its engines and began speeding away from the coast of French Guiana. 37 seconds later, the rocket flipped 90 degrees in the wrong direction, and less than two seconds later, aerodynamic forces ripped the boosters apart from the main stage at a height of 4km.

The Worst Computer Bugs in History: The Ariane 5 Disaster ...

"The Ariane 5 program involved people who had previously worked ...

The Ariane 5 Failure - Welcome to the Jungle

p) Ariane 5 has a high initial acceleration and a trajectory which leads to a build-up of horizontal velocity which is five times more rapid than for Ariane 4. The higher horizontal velocity of Ariane 5 generated, within the 40-second timeframe, the excessive value which caused the inertial system computers to cease operation.

ARIANE 5 Failure - Full Report

The Ariane 5 is one of the world's most reliable launch vehicles capable of delivering Webb to its destination in space. The European Space Agency (ESA) has agreed to provide an Ariane 5 launcher and associated launch services to NASA for Webb. The Ariane 5's record for successful consecutive launches is 80 (as of June 28, 2017). Launch Location

The Launch - Webb/NASA

Ariane 5. The heavy launcher. 780 t. Typical liftoff mass. Soyuz. The medium launcher. 308 t. Typical liftoff mass. Vega. The light launcher. 137 t. Typical liftoff mass. About us Arianespace is the world's leading satellite launch company. Founded in 1980, it deploys a family of three launchers - Ariane, Soyuz and Vega - to meet the ...

Arianespace - Mission to success

Correction: The headline of an earlier version of this article stated that an Arianespace Ariane 5 rocket launched the UAE FalconEye 2 satellite. It was actually a Soyuz rocket as detailed in the ...

Arianespace Soyuz rocket launches UAE's FalconEye 2 Earth ...

During Ariane 5 launch, the software failure occurred when an attempt to convert a 64-bit floating point number to convert a 64-bit floating point number representing

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the horizontal velocity to a signed/fixed 16-bit integer caused the number to overflow (become too big). The floating point number ...

Ariane 5 | Bartleby

Ariane 5 was designed for upgradeability. In two decades, it has been built in five different versions to keep pace with growing satellites and evolving customer needs. The current model is the Ariane 5 ECA.

Ariane 5: One chapter closes...Another one opens | Thales Group

Ariane 5 is a major element in Europe's unrestricted, independent access to space. Airbus Defence and Space, through the ArianeGroup joint-venture, the prime contractor and lead manufacturer, is one of the keys to this success, with experience dating back to the beginnings of the European space industry, the Diamant and early Ariane launchers...

Ariane 5 - Launchers - Airbus

The first test launch of the Ariane 5, in June 1996, was a spectacular failure, but in subsequent years the vehicle operated reliably. Since the Ariane 4 was retired from service in 2003, all ESA launches have used Ariane 5, and there has been a continuing effort to lower its costs and improve its reliability and performance, particularly its ...

Ariane | European launch vehicles | Britannica

The first launch of the Ariane 5 rocket launch ended spectacularly with a malfunction seconds after lift off that resulted in the destruction of the vehicle.

Ariane 5 rocket launch explosion - YouTube

Ariane 5 is a European heavy-lift launch vehicle that is part of the Ariane rocket family, an expendable launch system designed by the French government space agency Centre national d'études spatiales (CNES). It is used to deliver payloads into geostationary transfer orbit (GTO) or low Earth orbit (LEO). ...

Ariane 5 » Bricks in Space

Ariane 5 is a mid to heavy-lift orbital launch vehicle developed for the European Space Agency ESA. Since the first launch in 1996 it performed 109 missions with only 5 failures. Two of these were total losses. The other 3 brought the satellites to a wrong orbit, so they had to expense some of their fuel to reach the assigned positions. Between ...

LEGO IDEAS - Ariane 5

Arianespace used an Ariane 5 ECA rocket, designated VA254, to launch Star One D2 and Eutelsat Quantum communications satellites. Owned by the Brazilian operator Embratel Star One, the Star One D2 ...

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