

Ariane 5

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Ariane 5

Ariane 5 is a 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. It 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 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

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

Ariane 5 ECA Drawing (Click to Enlarge). 50.5 meter height assumes 13.8 meter fairing. Ariane 5's solid boosters are produced adjacent to the new ELA-3 launch site at Kourou Space Center, stacked in a dedicated building on a launcher platform, then rolled to the launcher integration building. There, the first and second stages are mated.

Ariane 5 Data Sheet - Space Launch

The Explosion of the Ariane 5. On June 4, 1996 an unmanned Ariane 5 rocket launched by the European Space Agency exploded just forty seconds after its lift-off from Kourou, French Guiana. The rocket was on its first voyage, after a decade of development costing \$7 billion. The destroyed rocket and its cargo were valued at \$500 million.

The Explosion of the Ariane 5 - University of Minnesota

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 ...

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

Ariane 5 was commercially very significant for the European Space Agency as it could carry a much heavier payload than the Ariane 4 series of launchers. Thirty seven seconds into the flight, software in the inertial navigation system, whose software was reused from Ariane 4, shut down causing incorrect signals to be sent to the engines.

Ariane 5 launch accident - Software Engineering

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

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

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 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 Ariane 5GS, are now retired from ...

ESA - Ariane 5

An Ariane 5 rocket has taken off for the first time since the global coronavirus pandemic, launching from Europe’s Spaceport in Kourou, French Guiana on the evening of Saturday, August 15.

Ariane 5 Rocket Launched for First Time Since Pandemic ...

Ariane 5 är en fransktillverkad raketfamilj från det fransk-tyska företaget Astrium. Idag finns två modeller: Ariane 5 ES och Ariane 5 EC-A. De är två raketer med samma huvudmotorer, men med olika övre steg för att uppfylla kundernas krav på olika satelliters banor.

Ariane 5 - Wikipedia

Ariane 5 is a European expendable launch system designed to deliver payloads into geostationary transfer orbit or low Earth orbit.. It is manufactured under the authority of the European Space ...

Ariane 5 news and latest updates - Phys.org

An Arianespace Ariane 5 rocket carrying will launch three satellites, including a space tug, into orbit today, Aug. 15, and you can watch it live online here at 6:04 p.m. EDT (2204 GMT).

Watch live: Ariane 5 rocket launching MEV-2 space tug and ...

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 Ariane 5 rocket is ESA's primary launcher. It has been in service since 1997 and replaced Ariane 4. Two different variants are currently in use. The heaviest and most used version, the Ariane 5 ECA, delivers two communications satellites of up to 10 tonnes into GTO.