

Europe's Ariane 6 rocket debut

The launch of the new Ariane 6 heavy-lift rocket aims to restore Europe's ability to reach space on its own after a series of delays



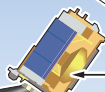
Kourou spaceport



Payload fairing:
Diameter: 5.4m
Height: 14m or 20m



Upper stage: Powered by new **Vinci** engine that can be reignited up to four times to deliver several satellites in different orbits during same flight



Satellite



Vinci engine: Fuelled by cryogenic liquid oxygen and hydrogen

Main stage: Powered by liquid-fuelled **Vulcan 2.1** engine and two or four **P120C** strap-on solid boosters for additional thrust

P120C solid boosters:
142 tonnes of propellant each

Liquid oxygen tank

Liquid hydrogen tank

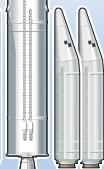
ARIANE 6
Two versions

A62:
Two boosters

A64:
Four boosters



A62



A64

Height: 56-62m*

Launch weight: 540 tonnes

56 or 62m

870 tonnes

Payloads

To geostationary orbit: ~4,500kg

To low Earth orbit: ~10,300kg

~11,500kg

~21,600kg

Vulcan 2.1 engine