



ARIANE 5: SECOND FLIGHT OF 2018 IS A SUCCESS JAPANESE AND ENGLISH SATELLITES ARE PLACED IN ORBIT

Colleferro, 06 April 2018

Ariane 5 has successfully completed its second mission of 2018, correctly positioning two satellites in orbit: DSN-1/Superbird-8 and HYLAS 4.

DSN-1/Superbird 8 is a telecommunications satellite for Japanese operator SKY Perfect JSAT. Equipped with high-performance relay systems, the satellite will mainly provide telecommunication services for the Japanese market.

HYLAS 4, instead, is a communications satellite operated by British carrier Avanti Communication. It will offer secure and reliable telecommunication services to ISPs, mobile phone operators, governments and satellite operators across Europe. The broadband satellite will also serve areas of Western and Central Africa.

Avio provides the solid propulsion engines and the Vulcain liquid oxygen turbopump for the Ariane 5 launcher.

Avio's CEO Giulio Ranzo had the following to say: *"We're extremely pleased with this latest Ariane 5 success, as we've been contributing to this programme for over 20 years. Last February we delivered the 200th segment of the solid propellant booster, an important milestone of industrial maturity which is reflected in the elevated reliability of the solid propellant propulsors."*

"2018 – Ranzo added – will be a crucial year for the development of the new Vega C launchers, whose maiden flight is scheduled for late 2019, and Ariane 6, whose qualifying launch will take place in 2020. The new programmes are moving forward exactly according to schedule: a few weeks ago we successfully completed the bench test for Zefiro 40, the second stage of Vega C. Next summer, instead, we will test the P120 C engine that will be used for both the first stage of Vega C and the side boosters of Ariane 6."

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Avio S.p.A.

Avio is a leading international space launcher, spacecraft propulsion and space transport group. It has 5 sites in Italy, France and French Guiana, and employs over 850 people at the consolidated level. In 2016 its revenues totalled 344 million Euros.

The Avio Group manufactures the Vega launcher, this makes Italy one of the very few countries in the world with the ability to produce a complete space launch vehicle.

Avio will build the new Vega C launcher and contribute to the new Ariane 6 launcher by providing the new solid engines and the Vinci and Vulcain liquid oxygen turbopumps.

The new solid propulsion engine, currently named P120C, for the Ariane 6 European launch vehicle and the new, more powerful version of the Vega launcher will be developed and built by Europropulsion (J.V. 50% Avio, 50% ArianeGroup). To create this engine and the new Zefiro 40 engine (entirely developed, built and tested in Italy by Avio and designed for the second stage of the Vega launch vehicle), a new composite material made of pre-impregnated carbon fibre will be used. It will be made directly by Avio in Italy, in its research centres in Colleferro (near Rome) and Airola (near Benevento).

Avio has many years of experience in the design and construction of solid and liquid propellant propulsion systems for space launch vehicles and tactical propulsion. Avio built the liquid oxygen turbopump for the Vulcain cryogenic engine, as well as the two lateral solid propellant engines for Ariane 5, the first stage of the Aster 30 anti-missile defence missile. To date, Avio solid propulsion has been used successfully in all of Ariane's launches (which number over 230 in total) and all of Vega's launches.

In the field of satellites, the Avio Group has built and supplied propulsion subsystems for ESA and ASI to put into orbit and control over 30 satellites, including most recently SICRAL and SmallGEO.