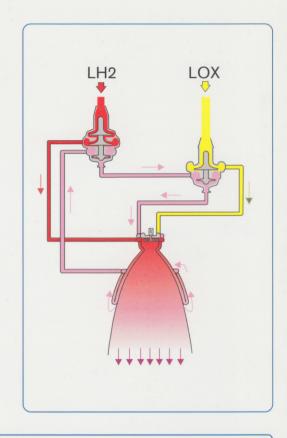
VINCI®









Vinci® is a new generation of upper-stage cryogenic rocket engine being developed by Snecma in conjunction with European partners, especially EADS ST in Germany.

The first series of firing tests is now under way on a DLR test rig in Germany.

Restartable in flight and offering higher performance than the HM7 developed for Ariane 1 to 4 and also used on the Ariane 5 ECA, the Vinci® engine is primarily designed for the next upgrade to the Ariane 5 launcher.

It could also be adapted to meet the requirements of other future-generation launchers or space vehicles.

Characteristics

- Cycle
- Vacuum thrust
- Specific impulse
- Combustion pressure
- Expansion ratio
- Propellants
- Propellant flowrate
- Mixture ratio
- Turbopump speed
- Turbine power
- Height
- Nozzle exit diameter

Expander

180 kN

465 seconds

60 bar (about 870 psi)

240

LH2

LOX: 33.7 kg/sec - LH2: 5.8 kg/sec

5.8

LOX: 19,500 RPM - LH2: 90,000 RPM

LOX: 350 kW - LH2: 2.4 MW

4.20 meters

2.15meters





Aerospace History Files



This is a document from Uwe W. Jack's archive.

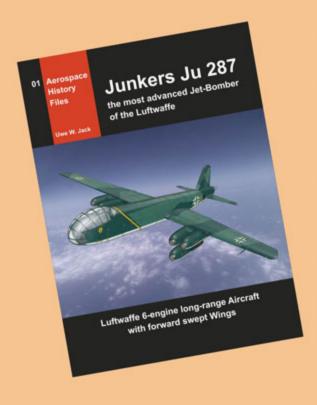
These documents are intended to illustrate aspects of aerospace history.

You are free to share it with friends. commercial use is prohibited.

Uwe W. Jack occasionally puts new documents on his website.

Please visit:

www.aerospace-jack.com



Junkers Ju 287

The most advanced Jet-Bomber of the Luftwaffe

This is the story of an aircraft that might have changed the air-war in 1945/46. Lots of photos, drawings, information, data and more than 6000 words give a detailed insight into the development of this unique piece of aviation.

Available as eBook on

Amazon

and

smashwords