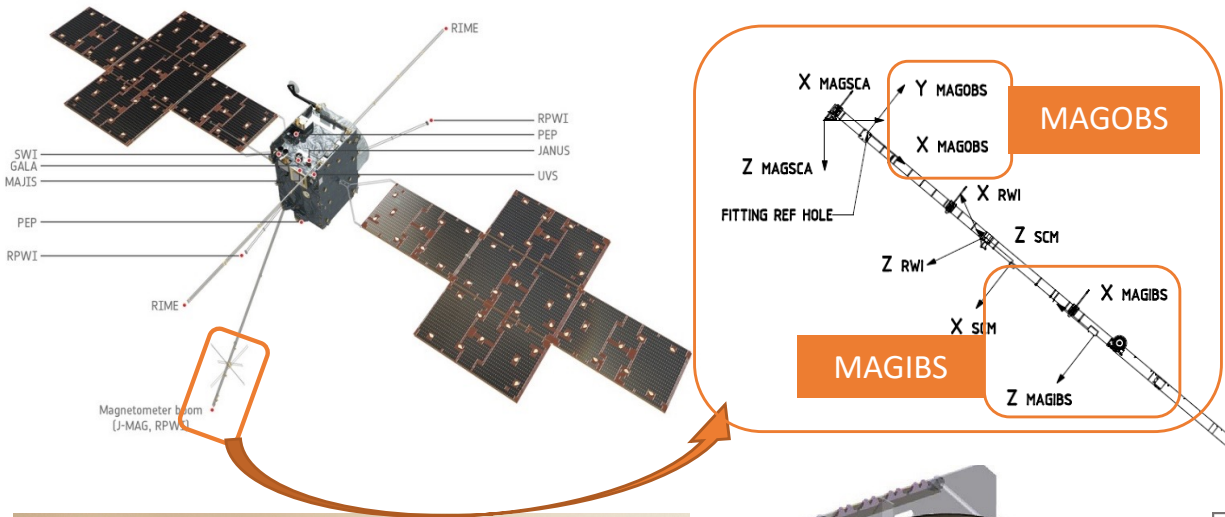




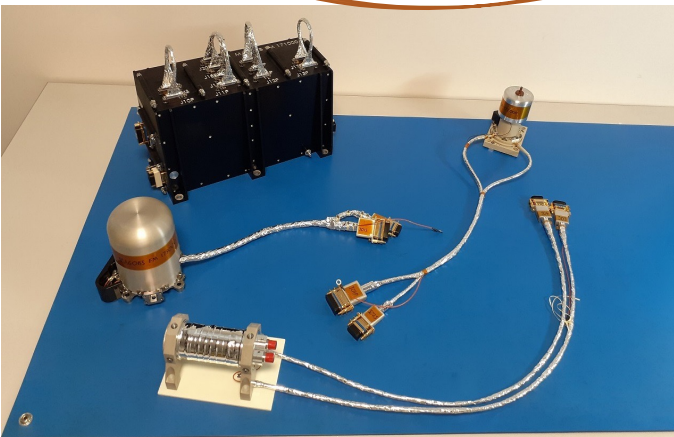
J-MAG Magnetometer



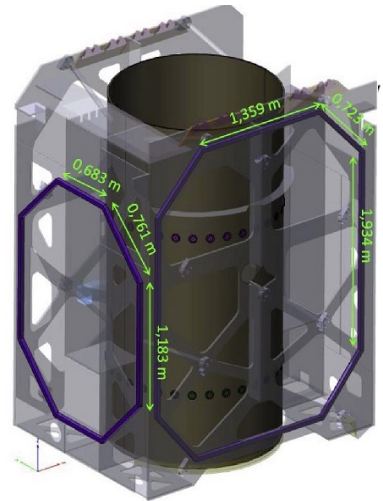
The J-MAG magnetometer will measure the magnetic field vector and magnitude in the spacecraft vicinity. It is a dual sensor fluxgate configuration of mature design combined with a Coupled Dark State Magnetometer (CDSM), an absolute scalar sensor, a quantum magnetometer based on atomic transitions.



- J-MAG Japan team is responsible for
1. feasibility study of the in-flight calibration of sensor alignment by operating JACS coil onboard JUICE
 2. evaluation of J-MAG data during the JACS operation.



Credit: Imperial College London



Credit : Airbus Defence and Space(ADS)

Parameters	Values
Dynamic range	$\pm 8,000$ nT
Digital resolution	< 0.1 nT
Scalar sensor intrinsic accuracy	0.2 nT
Lifetime	13.5 years

