



Space Testing

Experience

Over the years CTA has provided component testing services for numerous space programmes such as GAIA, BEPICOLOMBO, SENTINEL, GALILEO, MTG EXOMARS and SOLAR ORBITER, including vibration, pyroshock, vacuum, thermal and functional testing of both small, simple parts and larger, more complex components.

Know-How

CTA has extensive know-how in the field of vibration test control and data acquisition, equipment and test specimen protection, notching set-up, instrumentation and space component assembly.

We also have experience testing in vibration and vacuum, complex components, mainly for the test campaign of the GAIA Deployable Sunshield Assembly.

Finally, CTA has been involved in designing customised test benches for functional testing of specific components.

Capacities

160kN electrodynamic vibration system under clean conditions

60kN electrodynamic dual vibration system

Pyroshock test bench up to 2000g

Test specimen integration clean rooms

Thermal tests from -100°C to +200°C

Cuboid shape vacuum test chamber up to 10E-6 mbar whose inner dimension is L4,10 x W1,50 x H1,90 m³

Accelerometers, thermocouples, strain gauges, etc

3D non –contact displacement measurement, High Speed Video camera, Ultrasonic Inspection Equipment