



Multiaxis Complex Testing

Experience

One of the core activities at CTA consists of complex tests with multi-axis load applications, involving use of more than 20 synchronised hydraulic actuators which are monitored using the most advanced test instruments and assembled on test rigs designed on-site to facilitate our customers' certification campaigns.

Know-How

We perform an extensive range of tests (Static Tests, Structural Integrity, Fatigue, Safe Life, Damage Tolerance, Residual Strength, Failure Testing) with control of loads, displacement and pressure, both at room temperature and also with temperature and/or humidity control.

Other activities by CTA in the field of development/certification testing campaigns for structural components include the design, calculation, manufacture, assembly and instrumentation of tailored test rigs.

Capacities

1500 m2 testing area (2 buildings) and special steel tracks for test rig assembly

12 MTS Control systems work stations

2000+ strain gage data acquisition channels

Load cells, Torque transducers, LVDT's, Pressure Transducers and Temperature Sensors.

Hydraulic actuators from 25kN up to 5000 kN.

Temperature generators and Humidity Chambers

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