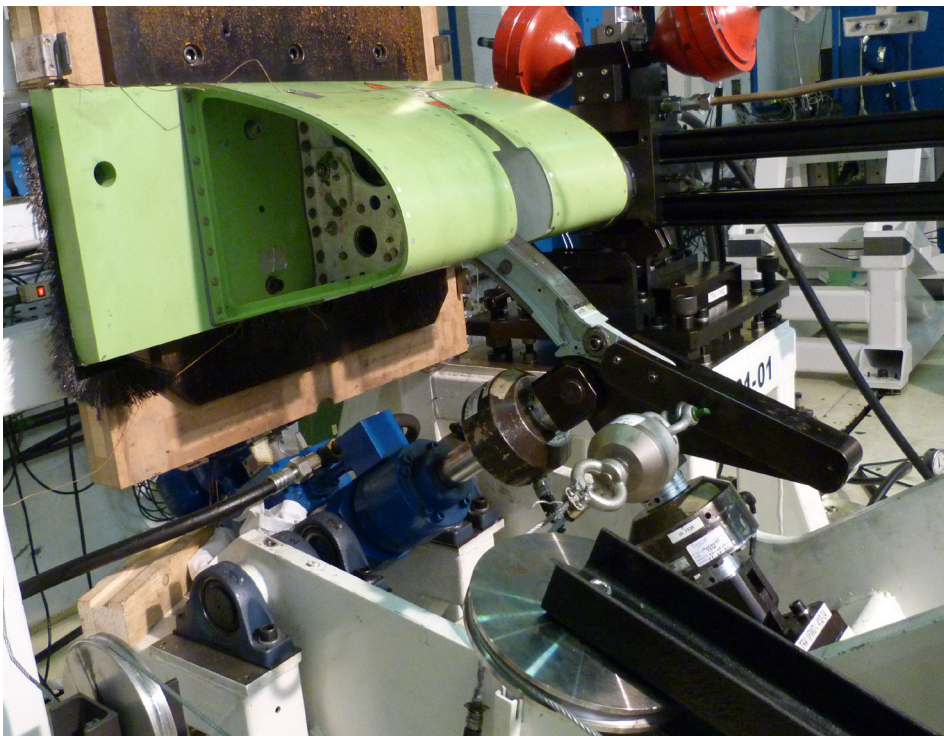
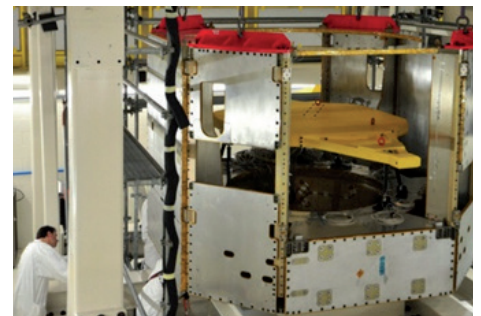


Development & Certification Test Center

- Acknowledged team expertise
- Large scale fully adaptable test set-up
- Huge variety of sensors
- Static, fatigue & damage tolerance tests
- Advanced Know-how in Systems Testing



Rack-pinion Endurance testing

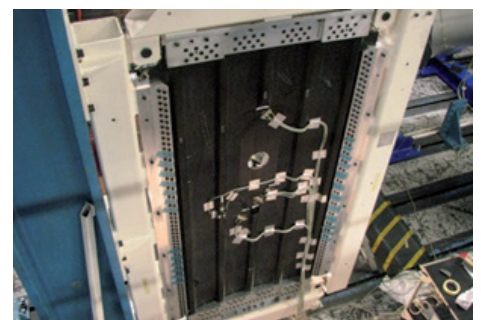


Acceptance tests on satellite structure



Certification test on large structure

When development
and structural testing
meet cleverness



Compression test on fuselage

DIFFERENTIATORS

- Acknowledged team expertise in testing instrumented full scale structures
- Large scale fully adaptable test set-up offering various testing configurations
- Test facilities including a huge variety of hydraulic actuators, sensors and acquisitions systems
- Customized structural tests targeting static, fatigue, damage tolerance and failure requirements
- Advanced measurements Know-how in System tests performance : Flow, pressure & vibrations

As a reliable partner, we challenge your entire full scale structures testing project, from development to large components Certification

SERVICE IDENTIFICATION

LOCATION :

Gosselies – Belgium

EXAMPLES :

- Certification : Static, fatigue, damage tolerance and endurance tests for slats and flaps
- Large satellite structural platform static qualification and manufacturing acceptance tests
- Large fuselage composite panel compression tests
- Rack-pinion actuation system endurance testing under various temperature and contaminant environments

CUSTOMERS

Airbus, Airbus Defense and Space (Astrium), Bombardier, Dassault Aviation, Embraer, Pilatus, ESA, ...

STATE-OF-THE-ART MAIN FACILITIES

- 3 Structural test benches : 1400 m² [15000 ft²]
- 2 System test benches : 200 m² [2150 ft²]
- # max of strain gages : 450 (5x90)
- # of large structural tests : 9
- Max jacks / test : 16 + 22
- 45 actuators, up to : 300 kN [74200 lb]
- Direct access to all Sonaca NDT machines, processes and expertise

CONTACT : Jean-Louis Magerman
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VALUE STREAM MAPPING

- ① Instrumentation
- ② Tooling installation
- ③ Specimen rigging
- ④ Control system tuning
- ⑤ Automatically operated Testing
- ⑥ Conformity & Inspection
- ⑦ Final reporting
- ⑧ Oriented Enterprise 4.0 Management

QUALIFICATION

- EN 9100
- ISO 14001

GLOBAL FOOTPRINT

SONACA MONTREAL

- Wing structures
- Manpower: 310

SONACA GROUP HEADQUARTERS

- Engineering - R&D Center
- Elementary parts & Final assy.
- Manpower: 1830



SONACA TRANSYLVANIA

- Opening 2016

SINELSON

- Leading-edge final assy
- Manpower: 50

SOBRAER

- Engineering-Final assy
- Manpower: 280

SOPEÇERO

- Sheet metal parts
- Manpower: 80

PESOLA

- Machined parts
- Manpower: 50