

Dynamic Testing Aviation

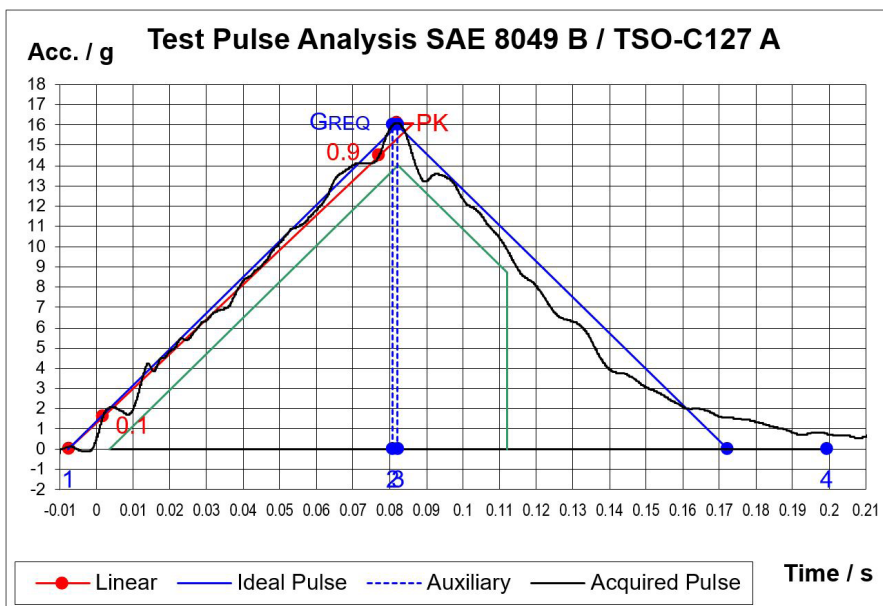


DTC AG supports you during development stage or official approval / certification procedures according to SAE8049B and ETSO-C127a as well as ETSO-C39, NAS 806, NAS 809, CS 25.561, CS 25.562

- ✓ **HYDRAULIC DECELERATION BREAK**
- ✓ **FORWARD-, DOWNWARD- AND HIC-TEST SETUPS**
- ✓ **3D-LASERSCAN, DISPLACEMENT OF THE DUMMY**

HYDRAULIC BREAK

Sled decelerations can be achieved with high precision and reproducibility thanks to the hydraulic brake..



Pulse of a 16g test

YOUR BENEFIT

Our strengths

- over 20 years of experience in aircraft seat testing
- in-house-developed hydraulic brake providing the realization of any desired deceleration pulse with high accuracy
- modern measurement equipment

Your advantage

- flexibility in terms of examination dates
- short processing times

The DTC AG

The independent test house as contact for dynamic tests

FORWARD-, DOWNWARD AND HIC-TEST SETUPS

We can perform all dynamic test constellations on our deceleration sled facility. In addition, we can implement test setups according to your requirements for the simulation of seat attachments, floor structures or aircraft structures.



16g structural test with 10° pitch and roll



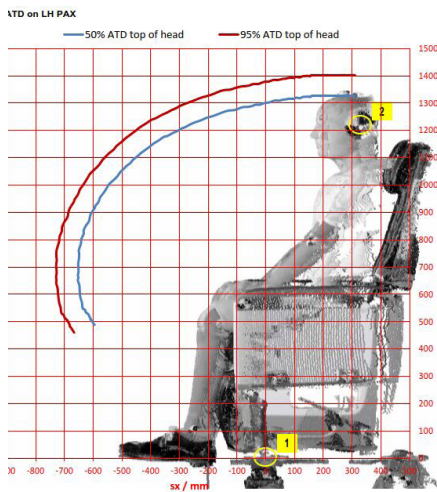
Downward test with helicopter seat



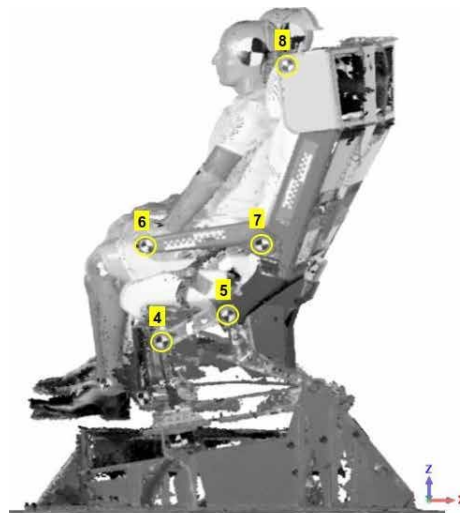
Row-to-Row test

3D-LASERSCAN, DISPLACEMENT OF THE DUMMY

A 3D laser scanner can be used for evaluation of permanent deformation. The recorded data enables a full 3D comparison beside the required points given by the regulation. To determine the forward displacement of the dummy in front row aircraft seats, we are able to use the combination of the video and 3D scan data precisely to reproduce the head movement. As a result the exact motion of the head without additional testing may be obtained.



Evaluation head forward displacement



Evaluation of the permanent deformation (view from left and front)

