Dynamic Test Center

Aircraft seat static

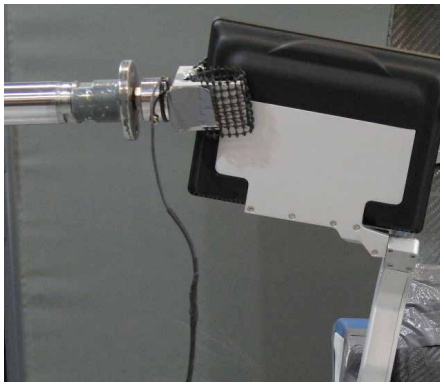
Testing of seats or components

DTC AG supports you with your tests during development stage or during the official approval or certification procedures according to SAE8049B and ETSO-C127a.

- **TENSILE AND COMPRESSION TESTING**
- **STATIC ABUSE LOAD TESTING**
- **STRUCTURE TESTING**

COMPONENT TESTING

We conduct so-called „abuse load tests“ or failure tests on single components of aircraft seats. These include e.g. backrest, fitting, table, screen arm, footrest, etc.
To ensure that the force to be applied is in accordance with the customer's specifications, we may customize the necessary force application tool. These are usually individual pieces suitable for the corresponding component.



Abuse load test on a video arm

Backrest testing

YOUR BENEFITS

Our strengths
DTC AG is a competent partner who covers the entire spectrum from simulation to physical testing with many years of experience.

Your advantage
We offer you flexible examination dates and may issue comprehensive test reports in various languages at competitive prices.

The DTC AG
The independent test center as contact for static and dynamic tests.

Static compression test

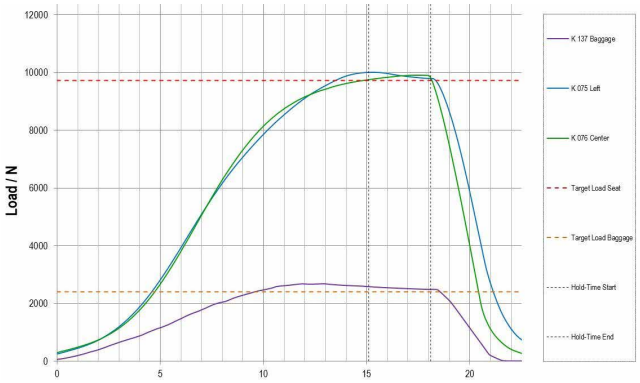
STATIC COMPRESSION TEST

The load determinations are based on aircraft seat specifications according to ETSO-C127 or SAE AS8049.

# 1	9.0 g	forward static load to prove structure of seat
# 2	2.8 g	rearward static load to prove structure of seat
# 3	8.8 g	downward static load to prove structure of seat
# 4	5.4 g	upward static load to prove structure of seat
# 5	4.0 g	sideward outboard to prove structure of seat
# 6	4.0 g	sideward inboard to prove strucutre of seat
# 7	12.0 g	forward static load to prove seat belt assembly including seat belt shackles
# 8	3.72 g	rearward static load to prove seat belst assembly including seat belt shackles
# 9	11.7 g	downward static load to prove front and rear fitting
#10	7.2 g	upward static load

STATIC TENSILE TEST

The test setup in our laboratory may be modularly arranged on our test facility. The hydraulic system allows tests with several load paths at different force levels to be carried out simultaneously, which are recorded with up to 16 measuring channels.



Detailed evaluation with force level

We gladly provide you with competent and efficient support in scheduling and performing of all your required static tests. Please do not hesitate to contact us.

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