



Identification of the installation/facility :

Country: Germany
Location (city): Stuttgart
Name of the facility: Gas Guns Test Facility
Date of construction or of acquisition or of main refurbishment: 2005
Owner: DLR (German Aerospace Center)
Contact point: Dr. Nathalie Toso (nathalie.toso@dlr.de)
Internet site: <http://www.dlr.de/bt/>

Technical characteristics:

1 - Type of infrastructure

Wind tunnel	<input type="checkbox"/>
Propulsion bench	<input type="checkbox"/>
Structures facility	<input checked="" type="checkbox"/>
Material facility	<input type="checkbox"/>
Simulator (ex. Flight simulator, tower, ...)	<input type="checkbox"/>
Flight test bed (aircraft, embedded facilities, ...)	<input type="checkbox"/>
Supercomputers	<input type="checkbox"/>
Other	<input type="checkbox"/>

2 - Main technical characteristics

3 gas gun calibres: 200 mm, 60 mm, and 32/25 mm diameters
Projectiles weight: from 1 g up to ~6 kg
Velocities up to 400 m/s depending on the weight of the projectiles and the gas gun used.

3 - Research domains which can be addressed (refer to ACARE taxonomy <http://www.acare4europe.com/sites/acare4europe.org/files/document/ASD-Annex-final-211004-out-asd.pdf>)

Aircraft security
Metallic materials & basic processes
Non-metallic materials & basic processes
Composite materials & basic processes
Structural analysis and design

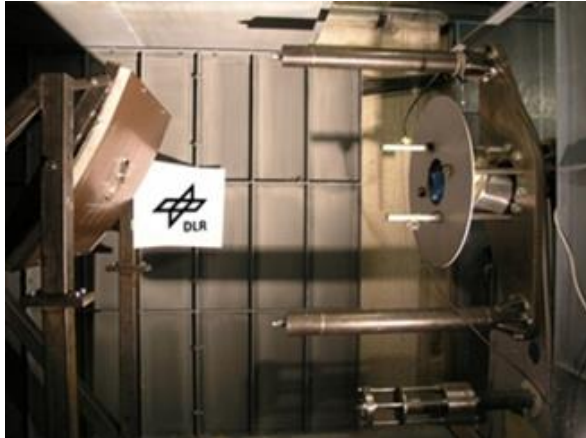
4 - Main (or specific) associated measurement techniques

Strains, force, high speed films

5 - Operational status

Fully operational

6 - Picture



Financial elements:

Replacement cost (M€uros)

- | | |
|---------------|-------------------------------------|
| Less than 10 | <input checked="" type="checkbox"/> |
| 10 to 30 | <input type="checkbox"/> |
| 30 to 60 | <input type="checkbox"/> |
| 60 to 100 | <input type="checkbox"/> |
| More than 100 | <input type="checkbox"/> |

Practices concerning:

Access policy: Contract, research projects

Support: ./.

Comments:

Research facility

Origin of information ('signature'): author and date

Dr. Nathalie Toso
28.09.2016