



**Identification of the installation/facility :**

Country: Germany  
Location (city): Stuttgart  
Name of the facility: Drop Tower (Fallturm)  
Date of construction or of acquisition or of main refurbishment: 1986  
Owner: DLR (German Aerospace Center)  
Contact point: Dr. Nathalie Toso ([nathalie.toso@dlr.de](mailto:nathalie.toso@dlr.de))  
Internet site: <http://www.dlr.de/bt/>

**Technical characteristics:**

*1 - Type of infrastructure*

- Wind tunnel
- Propulsion bench
- Structures facility
- Material facility
- Simulator (ex. Flight simulator, tower, ...)
- Flight test bed (aircraft, embedded facilities, ...)
- Supercomputers
- Other

*2 - Main technical characteristics*

Drop height (max.)	12 m
Drop velocity (max.)	14 m/s
Dropping weight (max.)	600 kg
Impact energy (max.)	60 kJ
Size of components (max)	800 x 800 x 980 mm (L x W x H)

*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, load, displacement, accelerations, high speed films

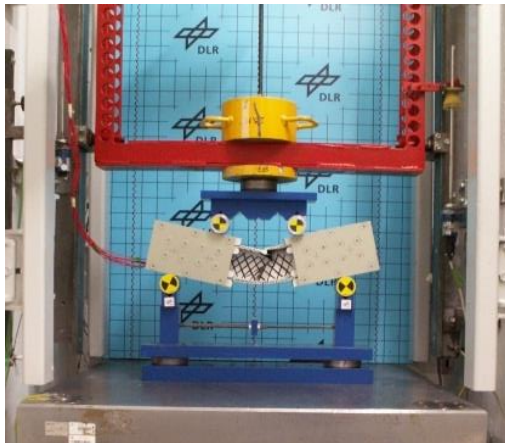
*5 - Operational status*

- Fully operational (hours available in 2012 or 2013)
- Sleeping but possible to reactivate within 6 months (or a reasonable time frame)
- Not used since 5 years or more

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

**Comments:**

Research facility

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

Dr. Nathalie Toso  
13 August 2014