



Identification of the installation/facility :

Country: Czech Republic
Location (city): Prague, VZLU - Aerospace Research and Test Establishment
Name of the facility: Dynamic and Static test Labs
Date of construction or of acquisition or of main refurbishment: 1987
Owner: Vyzkumny a zkusebni letecky ustav, a.s. (VZLU)
Contact point: Ing. Josef Jironc, jironc@vzlu.cz
Internet site: www.vzlu.cz

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 checked="" 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

Structural test equipment

- from component up to full-scale aircraft structure

Modal testing:

- accelerometers (weight 1g, 400 units)

- shakers 4N, 10N, 50N, 200N, 2000N

Landing gear test

- drop machine

Bird strike impact test:

- compressed air gun

Test facilities for components and coupon testing:

- TIRA 500 kN, INSTRON 1185 100 kN, AMSLER 100 kN

Hydraulic test machine:

- MTS 250 kN and 1000 kN, 2000 kN, Hydropuls SCHENCK 250 kN, INSTRON-SCHENCK SINUS 100 kN, INOVA 50 kN and 100 kN,

2MN frame

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>)

Aero-structures

4 - Main (or specific) associated measurement techniques



Structural test (from component up to full-scale aircraft structure)
Static strength tests
Fatigue strength tests
Ground vibration tests
Landing gear tests
Bird strike tests
Material testing

5 - *Operational status*
- Fully operational

6 - *Picture*



Financial elements:

Replacement cost (M€uros)

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

Practices concerning:



AirTN
Air Transport Net



national and European support

Comments:

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