



## Identification of the installation/facility :

Country: UK

Location (city): Bristol

Name of the facility: National Composite Centre

Date of construction or of acquisition or of main refurbishment: 2010/11

Owner:

Contact point: +44 (0)117 928 8173

Internet site: [www.nationalcompositescentre.co.uk](http://www.nationalcompositescentre.co.uk)

## Technical characteristics:

### 1 - Type of infrastructure

Wind tunnel	<input type="checkbox"/>
Propulsion bench	<input type="checkbox"/>
Structures facility	<input 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

For wind tunnels : max velocity (or Mach number), test section area, max Rey/m, special features (power if continuous, pressure and temperature if blow down, ...)

For aeroby propulsion bench: air mass flow, temperature, pressure, type of fuel,...

For solid combustion bench : max force,...

The UK's hub to develop and implement composite manufacturing technologies and systems;

This will include:

- Rapid and high-rate manufacture
- Material developments
- Preform technologies
- Design and related issues
- Post processing, environmental and in-service issues

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

4 - Main (or specific) associated measurement techniques

5 - Operational status

- Fully operational in 2010)



**Financial elements:**

Replacement cost (M€uros)

Less than 10

10 to 30

30 to 60

60 to 100

More than 100

**Practices concerning:**

Access policy contract

Support - none

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