



Identification of the installation/facility :

Country: Sweden
Location (city):Bromma (Stockholm)
Name of the facility:STARCS TVM500
Date of construction or of acquisition or of main refurbishment:1968
Owner:STARCS
Contact point:Mikael Tjernlund
Internet site:www.starcs.se

Technical characteristics:

1 - Type of infrastructure

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

For wind tunnels : max velocity (or Mach number), test section area, max Re_{γ}/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,...

Subsonic-Transonic-Supersonic wind tunnel with 0.5 by 0.5 m test section, Mach number 0.5 - 3.7 continuously variable. Transonic test section with slotted walls and plenum exhaust system, Supersonic nozzle with flexible floor and ceiling operated by single jack mechanisms. Stagnation pressures 110 - 1000 kPa. Blow down operation with run time 10 - 90 s depending on run conditions

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

Force and moment measurement using internal balance and sting mounted pitch and roll mechanism. Schlieren optical system.

5 - Operational status

Fully operational



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, voucher, free access for research, etc...)
Commercial customers, Research at reduced price.

Support (regional, national, European, private, ...)
No external support at present.

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

Per Davidsson 2011-01-17