



S5Ch

#### Identification of the installation/facility :

Country: FRANCE Location (city): Meudon Name of the facility: S5Ch Date of construction or of acquisition or of main refurbishment: 1951 Owner: ONERA Contact point: chanetz@onera.fr Internet site: www.onera.fr

#### Technical characteristics:

1 - Type of infrastructure	
Wind tunnel	$\boxtimes$
Propulsion bench	
Structures facility	
Material facility	
Simulator (ex. Flight simulator, tower,)	
Flight test bed (aircraft, embedded facilities,)	
Supercomputers	
Other	

## 2 - Main technical characteristics

test-section size : 0.3 X 0.3  $m^2$  stagnation pressure : 20 000 Pa <pi0 <90 000 Pa

stagnation temperature : 290 K < Ti0 < 310 K

Mach number : 1.2 < M < 3.1 (with six different adjustable nozzles )

3 - Research domains which can be addressed (refer to ACARE taxonomy

1. Flight Physics/Airflow control/flow control/P

4 - Main (or specific) associated measurement techniques

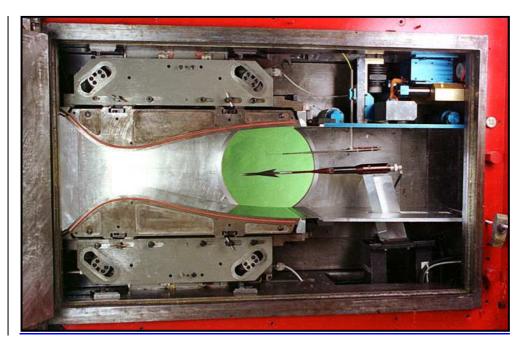
5-holes probes Laser Doppler Velocimetry

5 - Operational status - Fully operational





6 - picture



## Financial elements:

Less than 10	
10 to 30	$\square$
30 to 60	
60 to 100	
More than 100	

# Practices concerning:

Access policy : contract, eventually voucher) Support : European, private, national

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

B. Chanetz, 10 February 2011