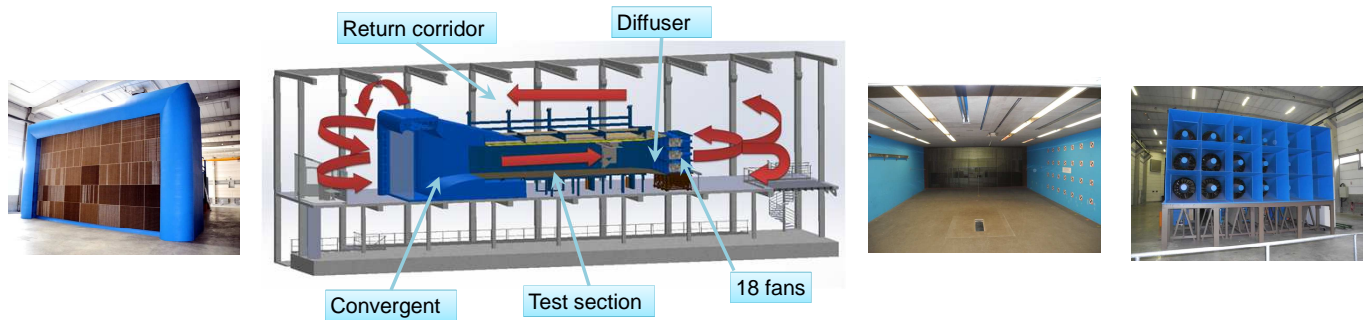


LOW SPEED WIND TUNNEL L2

Versatile wind tunnel devoted to 3D model aerodynamics characterisation and land and maritime industrial project (construction, transportation)

PRINCIPLE Eiffel-type wind tunnel with a 40 m long return corridor – Maximum velocity 20 m/s – Turbulence 2.5 %



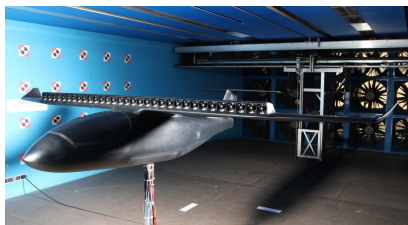
DESCRIPTION

- 6 m x 2.4 m closed test section, 12.5 m long
- Flow velocity from 0 to 20 m/s driven by variator on each of the 18 fans
- Mounting on rotating plate (360°), on mast or on sting
- Grid for generation of maritime or planetary boundary layer
- 3 dimensional cross-beam sounding device

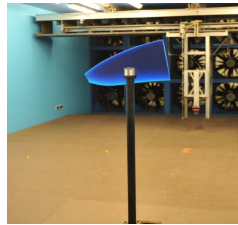


Mast mounting

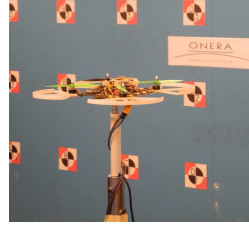
Sting mounting



Electric plane



Blade section



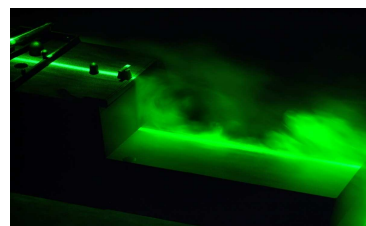
Drone



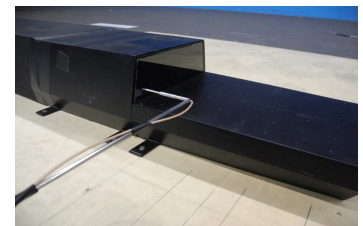
Helicopter carrier ship

AVAILABLE MEASUREMENTS

- Aerodynamics characterisation, aerodynamics force and moment measurements (6 components balance, accelerometers, inclinometers)
- Wall pressure measurements and pressure sounding in the flow field
- Local velocity measurement (hot wire)
- Measurement of velocity field by PIV
- Visualisation by laser tomography
- Temperature and concentration measurement (gas tracer, panache)



Laser tomography



Hot wire measurement

CONTACT

<https://www.onera.fr/en/daaa/contact>

PARTNERS AND FUNDERS

