AEROTUNNEL

LEVERAGE OUR TECH

www.aerotunnel.it

AEROTUNNEL and AEROSTUDI^M by ASSE S.r.l. Via Cicerone, 11 - 34133 Trieste IT, Plant in v. Gregorcic, 43, 34170 Gorizia IT, Contacts: +39 0481 522076 posta@aerostudi.com www.aerostudi.com



What do we offer?



AEROTUNNEL's test facility and core instrumentation has been entirely developed by its team of engineers and manufactured at ASSE's workshop.

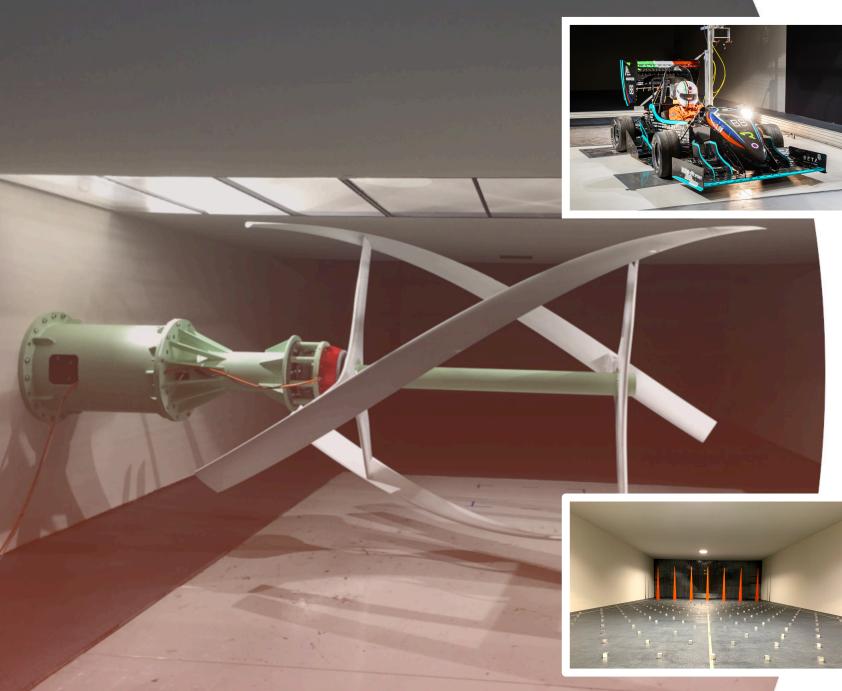
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HSTS High Speed Test Section

Upper TS Front area: 2,4 x 2,4 m Length: 6 m Max speed: 150 km/h

- Higher speed tests in real scale for sports (skiing, cycling, motorcycling) or scaled models (aeronautical and other industrial sectors)
- Equippable with a support mast with variable pitch and yaw angles to measure aerodynamic coefficients





LSTS Low Speed Test Section

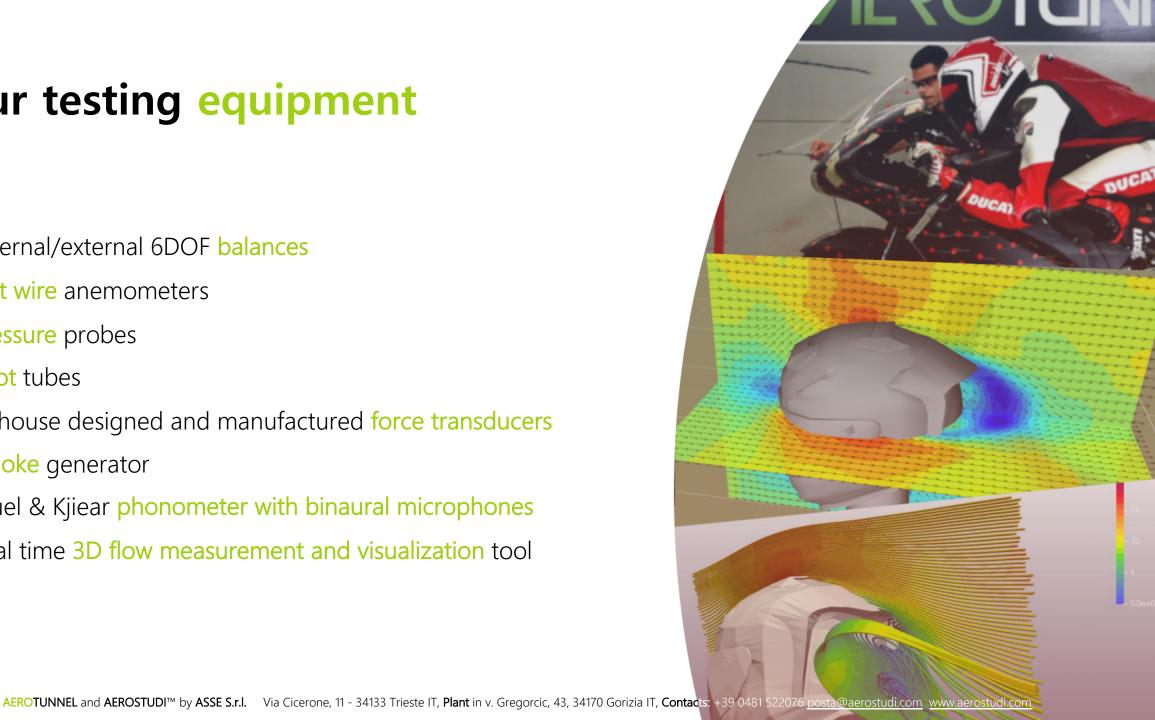
Lower TS Front area: 7,0 x 2,4 m Length: 10 m Max speed: 50 km/h

One of Italy's largest Atmospheric Boundary Layer wind tunnels

- Low speed tests on auto vehicles, ship models and buildings
- Built-in 360° rotation capability to expose the model to different yaw angles

Our testing equipment

- Internal/external 6DOF balances
- Hot wire anemometers
- Pressure probes
- Pitot tubes
- In-house designed and manufactured force transducers
- Smoke generator
- Bruel & Kjiear phonometer with binaural microphones
- Real time 3D flow measurement and visualization tool



Test data and videos

Data acquisition

In-house software to configure instruments, acquire and record data.

Real time results

TV studio

3 Ultra HD (4k) TV cameras on 3 axis (x, y, z)

State of the art video console to show and record tests





Our load cells

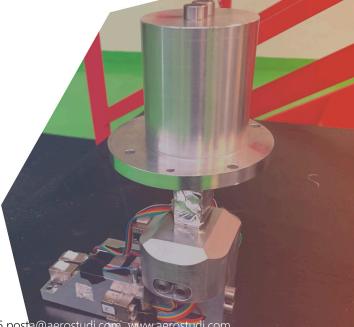
Internally developed force transducers: the core of AEROTUNNEL's balances

- Precision < 2 ‰ of full scale
- Specifically designed to meet customer's demands

Our balances

- 6DOF
- Can be used under control of a fully computerized data acquisition and model attitude control systems
- Continuously electronically controlled yaw angle: -360° to +360°
- Continuously electronically controlled pitch angle with an additional mast on request
- Precision < 2 ‰ of full scale
- Sensitivity on x and y axes < 0,01 ‰ of the z load (we can measure
 5 g drag force with a 500 kg load along z)
- Dimensions from Ø300 mm up to Ø4000 mm with loads from 10 kg up to 10.000 kg

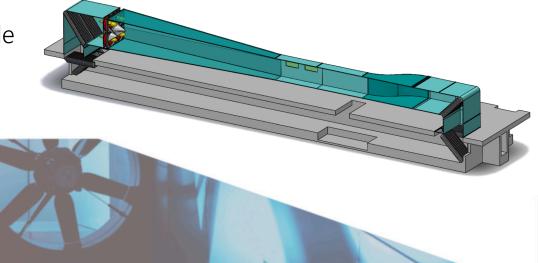


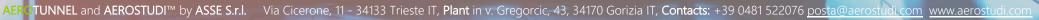


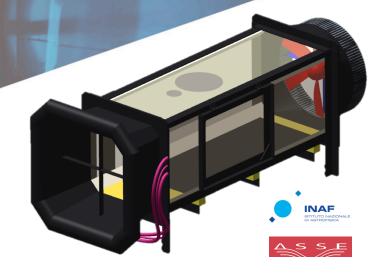
Wind tunnels design and manufacturing

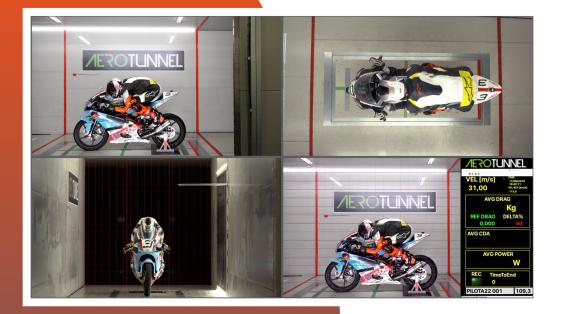
We can build a custom balance for your wind tunnel, build a wind tunnel around a balance or design everything from scratch based on your requirements

- Open and closed loop
- Vertical and horizontal
- From little test sections for didactic purposes up to industrial scale
- Designed for any specific needs









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Software

Written, tested and validated by us for wind tunnel testing management

- Manages acquisition and video recording
- Few manual inputs required
- The operator's role is mainly to oversee the test, paying attention to possible anomalies



If you want to know more... Follow us on LinkedIn!



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