



OPEN SUBSONIC WIND TUNNEL

Product Overview

The **Open Subsonic Wind Tunnel** is a precision-engineered apparatus designed to study airflow characteristics around various models under controlled subsonic conditions. It enables experiments related to aerodynamics such as lift, drag, pressure distribution, and flow visualization. The setup is ideal for laboratory demonstrations and research applications in aeronautical and mechanical engineering.

Features

- Accurate simulation of subsonic flow conditions.
- Transparent test section for easy observation of air streamlines and flow behavior.
- Multi-component balance allows measurement of lift, drag, and side forces.
- Smoke generation system provides effective flow visualization.
- Compatible with various aerodynamic models and NACA profile wings.
- Durable and low-vibration structure ensuring stable test conditions.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Technical Specifications

Parameter	Specification
Test Section Size	Approximately 30 × 30 × 55 cm (±2 cm)
Maximum Air Speed at Test Section	Approximately 32 m/s (±2 m/s)
Type	Open Circuit Subsonic Wind Tunnel
Model Support	360° driven model unit with three-component balance
Flow Measurement	Pitot-static tube with inclined manometer
Pressure Measurement	Multitube manometer for differential pressure observation
Flow Visualization	Integrated smoke generation system
Model Set	Includes drag models, pressure cylinder, and pressure wing models
Wing Models	Set of three wings with different NACA profiles, wing with flap, and flutter wing
Construction	High-quality transparent test section for clear visualization of flow patterns
Drive System	Aerodynamically designed axial flow fan driven by variable speed motor

Supplied Accessories

- Three-component balance with 360° model rotation.
- Pitot-static tube with inclined manometer.
- Multitube manometer for pressure readings.
- Smoke generator for flow visualization.
- Set of standard drag models.
- Pressure cylinder and pressure wing models.
- Set of NACA profile wings (three types) including flap and flutter models.

Applications

- Study of aerodynamic drag and lift characteristics.
- Pressure distribution over airfoils and cylinders.
- Flow visualization and wake formation.
- Demonstration of subsonic flow principles.
- Research and educational use in aerodynamic laboratories.

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