

DESCRIPTION

This is an accessory of the Aerodynamic Tunnel (TA50/250).

It comprises:

- A flat plate (reversible) with blunt and sharp leading edges, and roughened surface and smooth surface.
- Pitot tube on vernier carrier.



PRACTICAL POSSIBILITIES

- 1.- Study of the phenomena of boundary layer development.
- 2.- Study of build-up of boundary layers on flat plate (with sharp and blunt leading edges).
- 3.- Determination of the velocity profile of the boundary layer experiment accessory at different distances from sharp leading edge of a smooth plate. (Conditions of laminar flow).
- 4.- Determination of the velocity profile of the boundary layer experiment accessory at specific distances from the blunt leading edge of a smooth plate. (Conditions of turbulent flow).
- 5.- Determination of the thickness of the boundary layer.
- 6.- Growth of boundary layer on roughened and smooth surfaces.

SPECIFICATIONS

- Flat plate with smooth and roughened surfaces, so the surface effect on the velocity profiles can be determined.
- Pitot tube on vernier carrier.
- Different positions of the tube and carrier, so the velocity profile within the boundary layer can be at specific distances from the plate leading edge.
- The test plate is held between two carrier plates, to fix it to the tunnel.

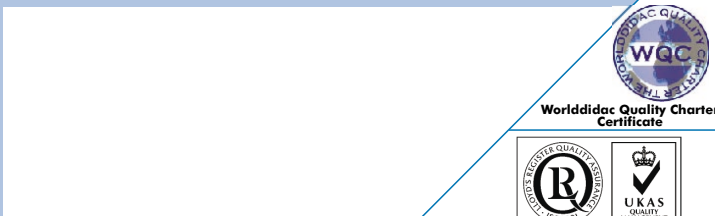
* Specifications subject to change without previous notice, due to the convenience of improvements of the product.

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Issue: ED01/05
Date: September/2005

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