

Łukasiewicz
Institute
of Aviation



Probes for measuring
the air flow velocity vector

MULTI-HOLE PRESSURE PROBES

CUSTO-PROBE

Multi-hole measuring probes

CHARACTERISTICS

The comprehensive offer of Łukasiewicz ILOT includes: design, production, calibration and software for processing measurement results*.

CUSTO PROBE Product Features:

- A range of probes with standard shapes and tailored to customer requirements.
- Available shape variants of the probe body: straight / L type / cobra type / other.
- Available variants of the nose tip: cone / hemisphere / other.
- Hole count: 3/5/7.
- Probe diameter down to 1,70 mm.
- Standard uncertainty of measuring angles $< 1^\circ$.

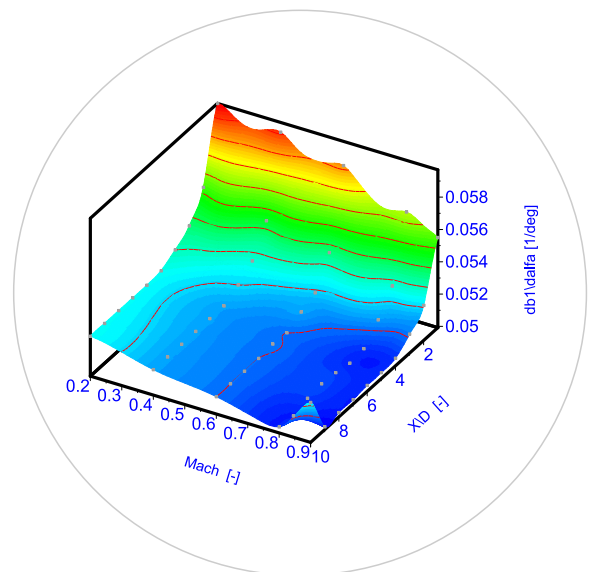


- Typical probe operating temperature up to 300°C / temperature measurement option.
- Wind tunnel calibration service; speed up to Mach 0.9, angles up to $\pm 45^\circ$.
- Universal holders or custom mounts dedicated to customer requirements.
- Software for processing measurement results based on calibration characteristics.
- Individual probe marking with a unique number.

Technologies:

- Single-piece design.
- Optimized in-house process chain, including CAD, 3D printing (metal / polymer), heat treatment, surface treatment, quality control DT, NDT.
- Precise methodology of velocity vector measurement.

* It is possible to order each of the above-mentioned services separately.



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The Łukasiewicz Research Network – Institute of Aviation

offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.

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