

Precision Inclinometer

CAPABILITY SHEET · SEAT · ZERO · STILLNESS · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	An inclinometer is judged by its zero and by its stillness.
WHY IT MATTERS	It reads gravity, so it is proved by turning it over and trusted only when it is held still.

THE SET

SEAT	A flat, ground seat plate and a stated datum put the instrument on the work the same way every time.
ZERO	Read, turned end for end and read again: the average is the zero error, and half the difference is the tilt of the seat.
CHECK	A sine bar and gauge blocks on a flat surface plate make a known angle to check the scale at several points.
READING	Readings taken with the work held still, averaged over a settling time, and recorded with the zero that applied.

THE METHOD

ORDER	Specify, seat, zero, check, read and prove. The zero and the stillness are what a quick order skips.
LIMITS	The range, resolution and accuracy come from the customer's work and the instrument chosen, and are not printed here.

CONFIGURATIONS

SINGLE INSTRUMENT	One instrument with a seat plate made to the work and a record of its zero and check.
INSTRUMENT SET	Several instruments in a fitted case, each proved the same way, with one check record.
CALIBRATION SET	The instrument with a sine bar, gauge blocks and a written procedure to prove it again.

STANDARDS & SCOPE

STANDARDS	Public reference: ISO/IEC 17025 for the competence of testing and calibration laboratories.
SCOPE BOUNDARY	It is the instrument: not a weighing system, not boresight equipment, not a tilt platform, and not a gyroscope.
STATUS	Neometrix has quoted against successive inclinometer requirements, and no delivered inclinometer is claimed.

DEFENCE PROGRAMMES DESK

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