

DIGITAL MEASURING TAPE CALIBRATION SYSTEM CODE ISC-M5002



- Suitable for steel tape, depth-measuring steel tape, fiber tape
- Automatic weight loading with DC motor control ensures low noise and minimal jitter
- Aluminum profile frame provides excellent leveling, easy installation, and convenient length extension
- Integrated imaging and grating systems enable clear, intuitive observation of scale lines for enhanced reading efficiency
- Measurement pulley system with high-precision guide rails delivers superior linearity and low friction, supporting X, Y, and Z-axis fine adjustments for precise readings
- Clamping device allows X-axis micro-adjustment for rapid, accurate zeroing, ball-jointed clamping surface enhances contact and prevents side slippage
- High-precision grating displacement sensors and standard steel tape measures serve as data acquisition sources, real-time processing via data box directly outputs measurement results

SPECIFICATION

Measuring range		5m
Standard steel tape measure accuracy		$\pm(0.03\text{mm}+3\times 10^{-6}L)$, L is measuring length in mm
Straightness of the bench calibration surface		$\leq 0.3\text{mm/m}$
Friction between the surface of the calibration bench and the calibrated steel tape measure		$\leq 4\text{N}$
Measuring microscope	resolution	0.01mm
	magnification	20X
	view filed	6mm

* Customized lengths for test benches (5m~50m)

STANDARD DELIVERY

Main unit	1 set
5m standard steel tape	1 pc
Measurement pulley system	1 set
Measuring microscope	1 pc
Tape clip	2 pcs
Weights	1 set
Digital display box	1 set
Electric weight loading mechanism	1 set

OPTIONAL ACCESSORY

Zero point calibration unit	ISC-M5002-Z500
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