



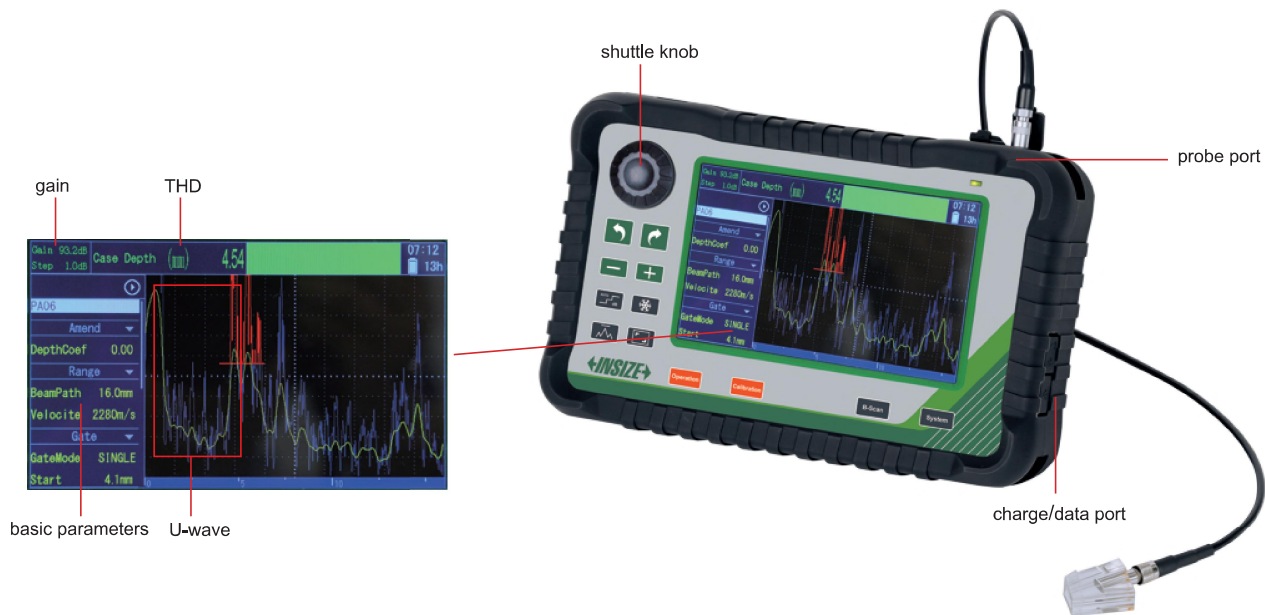
ULTRASONIC CASE HARDENING DEPTH GAUGE

CODE ISU-CD05

CUSTOMIZABLE
PROBES

DATA
OUTPUT

NDT



- Measures quench-hardened case depth by ultrasonic method, no cutting or workpiece damage required
- Accuracy matches the metallographic method, each measurement takes only a few seconds
- Custom probes available for different workpiece sizes and shapes
- 5-inch color screen, supports keypad and touchscreen dual operation for flexible control
- Multiple filter levels, detection modes include full-wave, positive half-wave, negative half-wave, RF and envelope
- Two independent gates, each supports signal-on and signal-loss alarms
- Auto gain, peak memory, waveform freeze, real-time color B-scan imaging
- Built-in auto calibration and digital noise reduction ensure stable measurement
- Stores up to 180 sets of probe and channel parameters, supports channel import and export
- One click test report export via PC software
- Supports single-frame and multi-frame data recording, plus screenshot saving



probe (included)

SPECIFICATION

Measuring object	induction THD (total hardened depth)
Resolution	0.01mm
Accuracy	±0.1mm (comparison with metallography)
Measuring range	0.7~15mm
Repeatability	±0.1mm
Velocity	400~10000m/s
Gain range	120dB, step: 0.1dB, 0.6dB, 1dB, 2dB, 6dB
Working frequency	0.1MHz~20MHz
Filter	wideband, mid, high freq
Rectification	full wave, pos half-wave, neg half-wave, RF, envelope
Gate alarm	gate A, gate B, sig in, sig loss
Gate modes	dual independent gates (A/B)
Measurement modes	PK, lead edge
Professional functions	auto gain, peak memory, wave freeze, gate alarm, color b-scan
Auxiliary functions	auto measurement, auto calibration, digital noise suppression, capture marker
Power supply	8000mAh recharge Li-ion battery, 2h runtime
Dimension (L×W×H)	183×113×45mm
Net weight	780g

STANDARD DELIVERY

Main unit	1 pc
Probe	1 pc
Power adapter	1 pc
Calibration block	1 pc
Couplant	1 bottle

OPTIONAL ACCESSORY

B-scan probe	ISU-CD05-BS
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