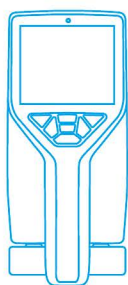


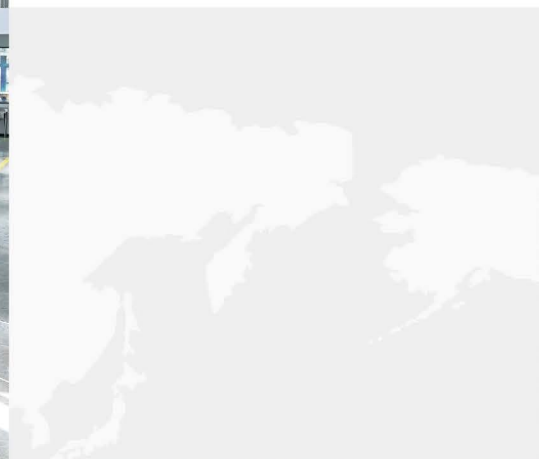
LANGRY™



NDT

INSTRUMENTS

SELECTION MANUAL



Professional after-sales team,
rapid response, accurate
maintenance, escort for users



Self-research technology
independent production
through the ISO9001,CE certification



7000m²

More than 7,000 square
meters of industry park

100+

More than 40 senior
professional and technical
personnel

30+

More than 30 patents and
certificates

40+

Participated in the
preparation of more than 40
industry standards

Who is LANGRY?

Langry is a manufacturer of NDT instruments for the global market, committed to providing customers with engineering quality testing, control products, and engineering quality cloud platform management system integration solutions for R&D, production, and operation and maintenance support.

Since Langry establishment, we've actively participated in the preparation of a number of national and local technical standards, with a number of patents, while relying on the enterprise's own talent echelon construction and extensive cooperation with universities and research institutes, has independently developed more than 70 non-destructive testing instruments in line with international standards, the main products are rebound hammer, rebar scanner, pull-off tester and ultrasonic equipment, etc. Suitable for non-destructive testing of concrete, serving all kinds of roads and bridges and construction projects. Products are exported to more than 80 countries, customers throughout Asia, Europe, the United States, Africa and other continents, won the extensive trust and support of many engineering quality testing companies and consulting companies.



Honor and Qualification

Rebound hammers

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UPV

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Pile Integrity

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RH225-A

RH75-A

Concrete Test Hammer

Langry RH225-A concrete test hammer used for testing the compressive strength of ordinary concrete in the range of 10 to 70 N/mm² (1'450 to 10'153 psi) in structural engineering.

Technical parameters

Model	RH225-A	RH75-A
Standard impact energy	2.207 J	0.735 J
Pointer length	20.0 ± 0. 2 mm	20.0 ± 0. 2 mm
Friction of pointer	0.65 ± 0. 15 N	0.5 ± 0. 1 N
Spherical radius of bouncing rod	25±1.0 mm	25±1.0 mm
Elastic tension spring stiffness	785.0 ± 30. 0 N/m	261.0±12.0 N/m
Operating length of elastic tension spring	61.5±0.3 mm	61.5±0.3 mm
Bounce hammer take-off position	Scale "0~1"	Scale "0~1"
Calibration value on testing anvil	80±2	74±2

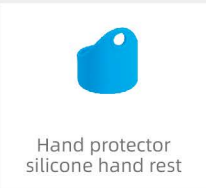
Technical advantages

- Imported high-quality springs are more fatigue-resistant, aluminum alloy spring seat snap ring assembly.
- Improved pointer design, easy to adjust friction and more stable.
- Abrasion resistance of super hard 6061 aluminum alloy casing, and the button is not easy to fall off by stretching process.
- Adopt CNC machining center and other machine tools to refine the movement, and the rebound value is guaranteed.

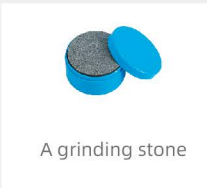
Components



Rebound hammer



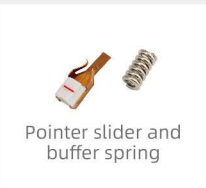
Hand protector
silicone hand rest



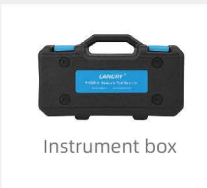
A grinding stone



One maintenance kit



Pointer slider and
buffer spring



Instrument box



Standard

- ISO/DIS 8045 International
- EN 12 504-2 Europe
- BS 1881, part 202 Great Britain
- DIN 1048, part 2 Germany
- NFP 18-417 France
- B 15-225 Belgium
- ENV 206 Europe- ASTM C 805 USA
- JGJ/ T 23-2011 China



RH225-B

Digital Concrete Test Hammer



Electromagnetic
sensor technology



High
precision



Resistant to light
and dust



Bluetooth
Printer-optional

Technical parameters

Model	RH225-B
Memory storage	1,000 components with a maximum of 100 measurement areas
Display screen	2.8 "
Battery power	3.6V lithium-ion battery, 3,200 mAh
Standard impact energy	2.207 J
Elastic tension spring stiffness	785±30.0N/m
Stretch length of elastic tension spring	75.0±0.3 mm
Calibration value on testing anvil	80±2
Consistency of sampling indication	<±0.5

Technical advantages

- Non-loaded and non-contact electromagnetic sensor without interference to rebound values, higher precision and longer service life.
- Resistant to dust, oil stain, and strong light. Equipped with maintenance-free electronic compartment and modular design makes the instrument replacement and assembly quickly.
- Built-in Bluetooth chip can be connected to portable Bluetooth printers to support on-site printing.
- Equipped with online system software can import rebound values automatically, built -in gyroscope, automatically identify the impact direction improve work efficiency.



Components

- ① Rebound hammer
- ② Hand protector silicone hand rest
- ③ A grinding stone
- ④ One maintenance kit
- ⑤ Pointer slider and buffer spring
- ⑥ Power adapter
- ⑦ Instrument box



This product is equipped with professional data processing platform and mobile phone software



Langry RH225-B digital concrete test hammer used for testing the compressive strength of ordinary concrete in the range of 10 to 70 N/mm² (1'450 to 10'153 psi) in structural engineering.



RH450-A RH550-A

Concrete Test Hammer

It is suitable for structural engineering high-rise buildings, etc. It is usually suitable for the compressive strength test of concrete with strength grade of C50~C100.



Chrome plated pointer shaft



Fine zero adjustment screw



Imported premium springs



High-precision aluminum alloy flanges

Components

- ① Rebound hammer
- ② Hand protector silicone hand rest
- ③ A grinding stone
- ④ One maintenance kit
- ⑤ Instrument box



Technical advantages

- High toughness alloy steel spring , better elasticity and more fatigue resistance.
- Chrome-plated pointer for easy adjustment of friction and greater stability.
- High precision CNC machining refined movement to ensure more accurate rebound value.
- High strength body shell, light and easy to use, pressure and fall resistance.
- Custom sheathed hand rest, more comfortable to operate.

Introduction

With the development of economic construction, high-strength concrete is widely used in all kinds of engineering construction. Langry developed and produced RH450-A with 4.5J impact energy on the basis of concrete test hammer with 2.207J impact energy in accordance with relevant regulations.

Technical parameters

Model	RH450-A	RH550-A
Standard impact energy	4.500J	5.500J
Pointer length	20.0±0.2mm	20.0±0.2mm
Friction of pointer	0.65±0.15N	0.65±0.15N
Spherical radius of bouncing rod	35±1.0mm	18±1.0mm
Elastic tension spring stiffness	900±40N/m	1100±50N/m
Operating length of elastic tension spring	106.0±0.5mm	86.0±0.5mm
Bounce hammer take-off position	Scale "0-1"	Scale "0-1"
Calibration value on testing anvil	88±2	83±1




Soft rubber hand rest
for hand protection



High
precision flange



High-strength aluminum
alloy cylinder body



Imported high
quality spring

RH20-A

Mortar Rebound Hammer

Technical advantages

- The spring of the whole machine is made of imported high-quality steel wire, the material of the core steel is excellent.
- The current exquisite processing technology is used, so the rebound value is more stable.
- The pointer direct-reading mortar hammer has a clear scale and is easy to use.

Technical parameters

Model	RH20-A
Measuring range	2~15 MPa
Standard impact energy	0.196 J
Pointer length	20.0 ± 0.2 mm
Friction of pointer	0.5 ± 0.1 N
Operating length of elastic tension spring	61.5±0.3 mm
Stretch length of impact spring	75.0±0.3 mm
Bounce hammer take-off position	Scale "0~1"
Calibration value on testing anvil	74±2



GZI GZIII GZII GZIV

Testing Anvil

The Testing Anvil is suitable for ordinary rebound hammer and is a matching equipment for rebound hammer calibration, the types are divided into GZI, GZII, GZIII and GZIV type.

Technical advantages

- Ordinary(GZI/GZII) surface is treated with environmentally friendly baking paint.
- Guide cylinder adopts the latest structure, press the rebound hammer process automatic guidance, no manual adjustment.
- Testing Anvil body made of high quality steel and high quality tool steel, durable, stable and reliable.
- Guide cylinder sampling lightweight modular design, whether the guide cylinder is removed or not, the weight of the steel anvil meets the requirements of the code.

Model	GZ I	GZII	GZIII	GZIV
The total weight	20.0 ^{+0.3} / _{-0.1} kg	16.0 ^{+0.3} / _{-0.1} kg	2.40 ^{+0.02} / _{-0.02} kg	1.05 ^{+0.02} / _{-0.01} kg
Core hardness	HRC 60±2			
RH550	83±1	—	—	—
RH450	88±2	—	—	—
RH225	—	80±2	60±2	41±2
RH75	—	74±2	64±3	56±3
RH20	—	74±2	—	—

RS350

Integrated Rebar Scanner



Equipped with high-precision sensors



High-resolution touch screen

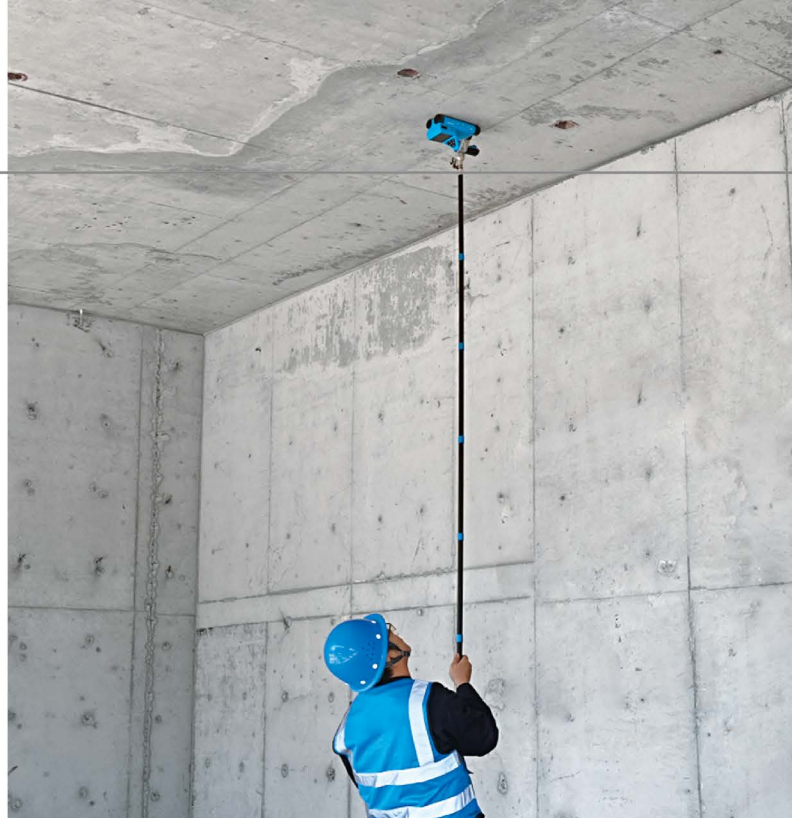
0.1

The display accuracy is accurate to 0.1



Multi-language

Langry RS350 integrated rebar scanner is mainly used to detect the position, distribution and direction of rebar, thickness of concrete cover and diameter estimation of rebar in reinforced concrete structures.



The detection page display



Technical parameters

Model					RS350			
Application range of rebar diameter					Φ6-Φ50			
Maximum range (mm)	First range				1~120			
	Second range				1~210			
Max. allowable deviation on concrete cover depth	±1 (mm)				1~80			
	±2 (mm)				81~120			
	±3 (mm)				121~160			
	±4 (mm)				161-210			
Applicable range of diameter estimation(mm)					Φ6-Φ50			
Max. deviation of diameter estimation					±1 specification			
Display accuracy of diameter estimation (mm)					0.1			
Name	Way of power supply	Instrument weight	Screen size	Range of scanning	Mode of data transmission	Laser positioning	Instrument size	Screen lattice
LR-G300	Lithium battery	650g	3.5"	Unbounded	Bluetooth or USB	4 wire	210x95x120	640x480
LR-G200	Lithium battery	880g	3.2"	Unbounded	Bluetooth or USB	3 wire	235x120x130	320x240

RS250

Rebar Scanner



High-resolution
touchable screen



The working hours can
last up to 24 hours



Professional
data analysis software

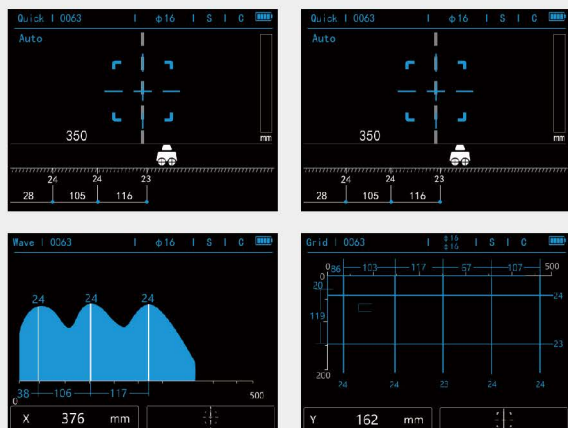
RS250 Rebar Scanner is a portable intelligent NDT instrument mainly used in the structural inspection of reinforced concrete.



Technical parameters

Model		RS250
Application range of rebar diameter		Φ6-Φ50
Maximum range (mm)	First range	1~105
	Second range	1~205
Applicable range of diameter estimation(mm)		Φ6-Φ50
Max. deviation of diameter estimation		±1 specification
Display accuracy of diameter estimation (mm)		0.1

The detection page display



Technical advantages

- The integrated design of the host sensor is small in size, making it more convenient and efficient to use.
- Using high-precision grating sensors to scan displacement and steel spacing is more accurate.
- Support multiple levels of reinforcement correction, resulting in more accurate detection results.
- Supports USB wired data transfer, making data uploading easier.
- Using a 2.8-inch color LCD display screen and equipped with a capacitive touch screen, human-machine interaction is more convenient.

RS150

Rebar Scanner



Dual operation mode One machine dual use



Effectively avoidstirrup interference



Accurately determinethe position of the rebar

Technical parameters

Model		RS150
Application range of rebar diameter		Φ6-Φ50
Maximum range (mm)	First range	6~90
	Second range	6~190
Max. allowable deviation on concrete cover depth	±1 (mm)	6~80
	±2 (mm)	81~120
	±3 (mm)	121~140
	±4 (mm)	141~190
Applicable range of diameter estimation(mm)		Φ6-Φ50
Max. deviation of diameter estimation		±1 specification
Display accuracy of diameter estimation (mm)		0.1
Power supply		Li-on rechargeable battery

Introduction

RS150 rebar scanner is a portable intelligent NDT instrument mainly used in the structural inspection of reinforced concrete.

Technical advantages

- One machine with dual operation modes, the probe can be used alone or used with a displacement trolley.
- Adopt a high-precision linear Hall sensor, higher detection accuracy.
- Equipped with large-capacity rechargeable lithium battery for long-lasting battery life, upgraded stirrup correction function, effectively improve detection accuracy.

TD6

Rebar Detector Testing Device

Technical parameters

Model	TD6
Thickness of concrete cover	Main reinforcement 10、20.....80、90mm
	stirrup 19、29.....89、99mm
Reinforcement specification	Φ18 Round steel、Φ10 Round steel
Materials	Non-magnetic material
Standard block size (mm)	624×350×135
Bar spacing	Main reinforcement 40~440mm Multiple choices
	Stirrup40~240mm Multiple choices



FT90

Floorslab Thickness Tester



Hd color LCD
screen



UI interface
Touchable design



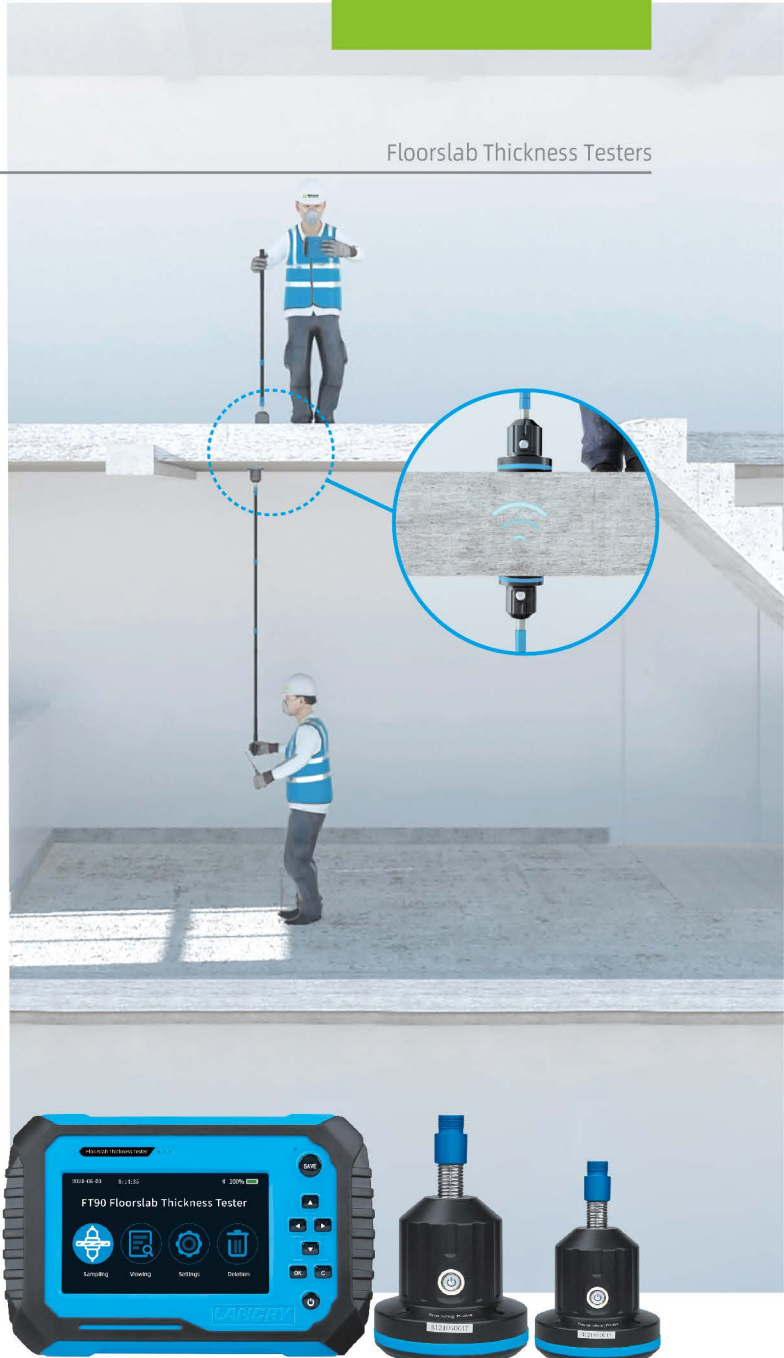
Removable
lithium battery



The probe automatically
interprets the direction

Technical advantages

- The receiving probe automatically interprets the direction and locks the center, which greatly improves the detection efficiency.
- The receiving probe and the host connect with Bluetooth, which simplifies their use and reduces the risk of failures due to frequent plugging and unplugging of signal lines.
- The instrument is equipped with a capacitive touch screen for full touch operation. Real-time display of measurement data, automatic determination of the minimum value.
- The instrument is equipped with professional software for data analysis, which transfers data between the instrument and the computer, analyzes the detection data, and generates detection reports.

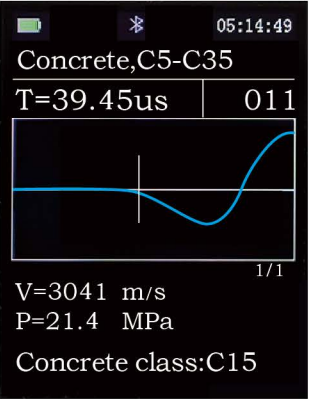


Technical parameters

Model	FT90
Measurement range	20-900mm
Maximum permissible error	20-350mm ±1mm
	350-600mm ±2mm
	601-900mm ±3mm
Data storage capacity	The instrument can store data for 5,000 components locally
LCD	The instrument features a 5.0-inch full-color touch screen with a resolution of 854×480
Battery	The instrument features built-in large-capacity lithium-ion batteries
Size / Weight	[Host] Size: 200×125×50mm. Weight: 620g.
	[Transmitting probe] Size: Φ90×87(mm). Weight: 270g
	[Receiving probe] Size: Φ110×110mm. Weight: 400g

UPV2100

Ultrasonic Pulse Velocity Tester



Accurate response waveform



Integrated design easy to operate



Professional equipment in various modes

Technical advantages

- Professional concrete testing instruments with multiple testing modes.
- The host is designed as an integrated unit, making operation simple and detection easy and efficient.
- It can be externally connected to a transducer to achieve ultrasonic measurement, providing higher detection accuracy.
- High magnification acquisition, accurately reflecting waveforms in complex working conditions and large-distance testing.
- Professional upper computer data analysis software.

Technical parameters

Model	UPV2100
Measurement range of ultrasonic pulse propagation speed (m/s)	1000 - 10000
Measurement range of integrated ultrasonic pulse propagation time (μs)	10 - 100
Integrated ultrasonic pulse propagation time display range (μs)	10 - 120
Integrated ultrasonic transducer center distance (mm)	120 ± 1
Ultrasonic oscillation frequency (kHz)	50 ± 10
Instrument power supply voltage (V)	Built-in battery power supply 3.7 ± 0.5
Power consumption (W)	≤ 5
Weight of the main unit (kg)	≤ 0.7
Overall dimensions of the host (length × width × height) (mm)	235 × 65 × 135

Introduction

The concrete ultrasonic detector UPV2100 calculates the speed of sound waves by receiving the distance and time of ultrasonic pulse propagation, and then evaluates the performance of solid materials and detects defects such as cracks. The ultrasonic speed depends on the density and elasticity of the material, as well as the presence of defects (cracks and voids), which determine the strength and quality of the material. Through transmission testing of objects, structures, and building components, the following information can be obtained: Strength; Density; Crack depth.

PIT8300

Low Strain Pile Integrity Tester



Clearly
collect data



Precision
structure design



Waveform optimization
processing



Dedicated PC
software

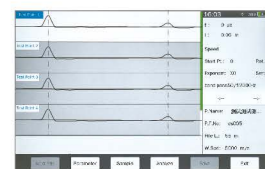
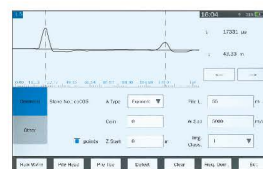


The PIT8300 Low Strain Pile Integrity Tester is a digital, portable instrument that uses low strain reflection wave method to detect the integrity of concrete foundation piles.

The low strain method is suitable for detecting the integrity of concrete pile shafts and determining the extent and location of defects in the pile shafts.

Technical advantages

- High-precision 24-bit A/D data acquisition, high-precision wide frequency response, real and clear signal acquisition.
- Perform real-time processing on the detected waveform, including smoothing, integration, filtering, exponential or linear amplification, etc.
- It can perform superimposed averaging on signals to remove "noise" signals, and can view the superimposed signals at any time to eliminate poor-quality signals.
- Professional PC data processing and analysis software, supporting multiple signal processing and custom report template output modes.



Technical parameters

Model	PIT8300
Display screen	8", resolution 1280×800
Storage mode	16G internal storage space
A/D sampling accuracy	24 bits
Sampling interval	0-1000μs
Sampling length	1024, 2048, 4096, 8192, four options available
Data upload method	Wifi upload to cloud, U disk transfer
Sensor type	Accelerometer
Sensor sensitivity	100 mV/g
Sensor range	50g
Triggering mode	signal triggering
Power supply	detachable lithium battery (6360mAh/68.688Wh/10.8V)
Working time	> 8h
Working environment	-10~50°C, ≤90%RH
Number of channelsx	-10~50°C, ≤90%RH
Outline dimensions	258×188×52mm

CWD800

Crack Width & Depth Tester



Comprehensive testing of seam depth and width



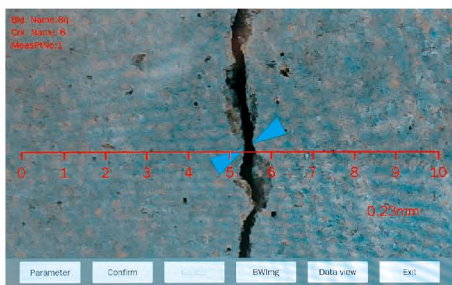
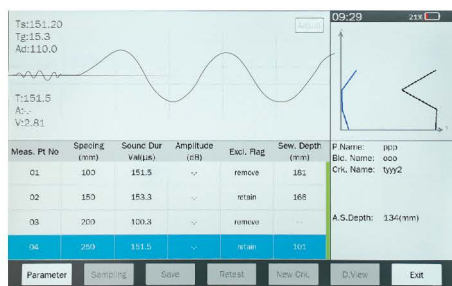
Automatically identify and capture cracks



Automatically search for the first wave



Professional data analysis software



Introduction

The CWD800 Crack Width & Depth Tester is an integrated, high-precision professional device designed using ultrasonic principles and microscopic imaging technology. It is suitable for detecting the width and depth of cracks on the surfaces of non-metallic materials such as concrete, graphite, and nylon.

Technical advantages

- It possesses two major functions: crack depth measurement and crack width measurement.
- During the ultrasound acquisition process, automatically search for the first wave and adjust the amplification factor.
- The high-definition camera automatically captures cracks and displays the crack width in real time.
- Equipped with a crack depth measurement and positioning ruler, it is convenient to carry and quickly locates the position of the crack depth measurement point.
- Utilize professional data analysis software to analyze the test data and generate a test report.

Technical parameters

Model	CWD800
Number of channels	Dual channel
Display mode	8-inch color LCD screen, resolution 1280×800
Storage capacity	16G
Sampling interval	0.05μs-1μs multi-range selection
Sampling length	512 points - 4096 points, multiple options available
Transmitting voltage	65V-1000V, multiple voltage options available
Transfer method	U disk
Host power supply	6360mAh, 10.8V rechargeable lithium battery
Probe power supply	3.85V rechargeable lithium batteries
Product size	Main unit: 258×188×52mm Transducer: φ43×74mm Probe: 42×42×100mm
Depth measurement range	≤500mm
Depth measurement accuracy	Accuracy ±5mm for seam depth ≤50mm; accuracy ±10% for 50 < seam depth ≤500mm
Width measurement range	0 ~ 10mm
Accuracy of width measurement	±0.01mm

P16 P25

Pull-off tester

Introduction

The multifunctional strength tester can be used to test the bonding strength of mortar, asphalt, tiles, coatings, and protective layers.

Technical advantages

- Integrated design, integrating oil pressure system and digital pressure gauge, high stability and easy portability.
- The whole machine is made of high-strength aluminum alloy material, which is lightweight and beautiful.
- Built in uninterrupted spiral oil pump pressurization system, the rocker screw does not need to be unscrewed in advance before detection.
- Peak holding function.



Technical parameters

Model	P16	P25
Stroke of hydraulic cylinder	5mm	5mm
Scope of work	1.6 ~ 16kN	2.5 ~ 25kN
Resolution	0.001kN (0.01MPa、1psi)	
Accuracy	EN ISO 7500-1 Class 1 ($\pm 1\%$, from 20 % of maximum force)	

P50

Pull-off tester

Introduction

P50 Pull-off Tester can be used for measuring the strength of concrete, non-destructive testing, and determining bond strength, anchor retention force, etc.

Technical advantages

- Integrated design, integrating oil pressure system and digital pressure gauge, high stability and easy portability.
- The whole machine is made of high-strength aluminum alloy material, which is lightweight and beautiful.
- Loading speed prompt to make the detection more in line with regulatory requirements.
- The force time curve and load are displayed on the same screen, and the detection process data is fully recorded.
- Easy calibration, stable force output, high accuracy, and no temperature drift.

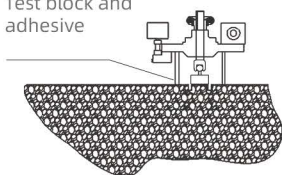


Technical parameters

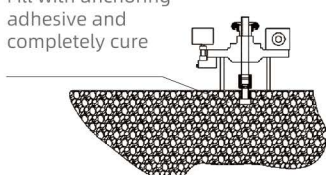
Model	P50
Stroke of hydraulic cylinder	10mm
Scope of work	5 ~ 50kN
Resolution	0.001kN (0.01MPa、1psi)
Accuracy	EN ISO 7500-1 Class 1 ($\pm 1\%$, from 20 % of maximum force)

Test diagram

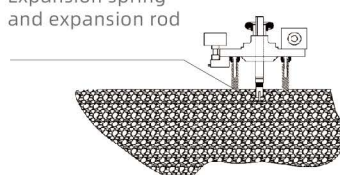
Pull-off Method :
Test block and
adhesive



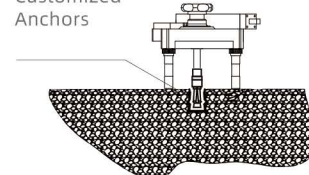
Post anchoring method:
Fill with anchoring
adhesive and
completely cure



After-loading and pulling out method:
Expansion spring
and expansion rod



Pull-off method:
Customized
Anchors



P10

Pull-off Tester

Langry Pull-off Tester P10 is suitable for testing the pull-off force of plutonium nails of fixed thermal insulation material in construction engineering, the bonding strength of wall thermal insulation material, various plates, paint, etc.

Technical parameters

Model	P10
Measuring range	0-10kN
Journey	65mm
Accuracy	EN ISO 7500-1 Class 1 ($\pm 1\%$, from 10 % of maximum force)
LCD screen	Segment LCD + blue backlight
Power supply method	3.7V rechargeable lithium battery
Data storage	More than 500
Host weight	3.2kg
Rising (loading) speed	0.001kN



P6

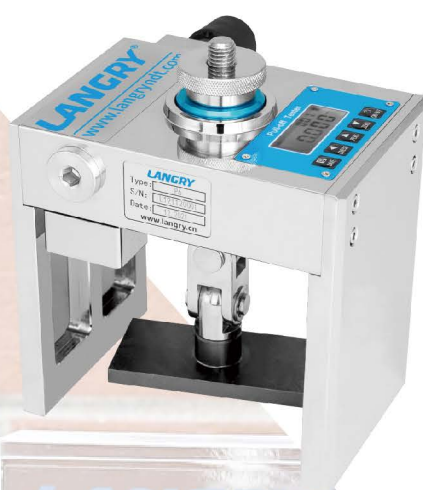
Pull-off Tester

Technical parameters

Model	P6
Hydraulic cylinder stroke	10mm
Display mode	kN、MPa
Measuring range	0.6-6kN
Accuracy	0.001kN
Peak hold	Yes
Data storage	More than 500
Host weight	2.0kg
Accuracy	EN ISO 7500-1 Class 1 ($\pm 1\%$, from 20 % of maximum force)

Technical advantages

- Adopts the integrated design of display instrument and instrument host. It does not need to connect the instrument. It can be used directly after startup, which makes the on-site detection more convenient and fast.
- Unique and innovative mechanical design, no need to shake the screw before testing, with features such as small driving torque, comfortable and reasonable shaking, continuous and uniform load, and stable body.
- Supports under-voltage display, peak hold, over-rangedisplay, etc.



PA10

Automated Pull-off Tester

The PA10 automated pull off tester is suitable for testing the rivet pulling force of fixed thermal insulation materials in construction projects, the bond strength of wall thermal insulation materials, mortar bond strength, and other material bond strength.



Lightweight and comfortable to operate

Technical advantages

- Adopting an integrated structure and a high hardness aluminum alloy body.
- Configure high-precision S-type sensors to improve detection accuracy.
- One click loading, automatic stop after specimen fracture, automatic maintenance and recording of detection peak.
- Quickly pre tighten the nut by pinching the hand to avoid useless empty travel, and the 30mm effective lifting travel design is suitable for various detection conditions.
- High definition color LCD display, clear and easy to operate interface, and more reasonable detection process.

Technical parameters

Model	PA10
Measuring range	0-10kN
Journey	30mm
Accuracy	EN ISO 7500-1 Class 1 ($\pm 1\%$, from 10 % of maximum force)
LCD screen	2.0 inch color LCD screen (320x240)
Data storage	2000 pieces of data
Host weight	5kg
Rising (loading) speed	Constant speed: (5 ± 1) mm/min, multi-gear adjustable; or constant force: 250 ± 50 N/s or 29 ± 4 N/s, two options
Resolution	0.001kN

Test blocks



Rivet pulling tool Be applicable to P10 pull-out tester and PA10 Automated Pull-off Tester



Hook type standard block for PA10 Automated Pull-off Tester

APT50

Anchor Pull-out Tester

Introduction

Langry Anchor Pull-out Tester is suitable for testing the anchoring force of various anchors, rebars, expansion bolts, and other anchoring components and it can also be used for testing the tensile strength of glass curtain walls on-site.

Technical advantages

- High-strength aluminum alloy host does not deform under high pressure.
- The oil pump and one-way valve do not leak oil during precision machining at constant pressure.
- Integrated digital pressure gauge, using high-quality and high-impedance pressure sensor.
- Memory capacity of 4000 data records .
- Zero tracking, peak hold and automatic shut down.
- 2.8 "HD color touchable LCD screen.
- Force value - time curve, load display on the same screen. Complete recording of the detection process.



Technical parameters

Model	APT50
Cylinder center hole	18mm
Cylinder stroke	50mm
Measurement range	0-50kN
Cylinder weight	1.5kg
Common anchorage	Φ6-Φ12
Pull rod	M12
Converter	M6-10



Real-time display
of force curve



High-resolution
touch screen



Mass storage Support
Bluetooth upload



Easy calibration and
stable force output



APT100/200/300 500/1000

Anchor Pull-out Tester



Long battery
life



500 data records
in memory



Higher
accuracy level

Technical parameters

Model		APT100	APT200	APT300	APT500	APT1000
Hand Pump	Weight Kg	10			18	
	Maximum Drawing Force	100kN	200kN	300kN	500kN	1000kN
Hydraulic Cylinder	Cylinder Center Hole	27	34	45	60	86/95
	Cylinder Stroke (Mm)	60	70		120	150
	Weight Kg	3.5	13.5	15	24.5	58/75
Accuracy Level		EN ISO 7500-1 Class 1 ($\pm 1\%$, from 20 % of maximum force)				
Manometer	Power Source	3.7V 3200mAh Rechargeable lithium battery				
Accessory	Common Anchorage	$\varnothing 6-20$	$\varnothing 6-25$	$\varnothing 6-32$	$\varnothing 6-40$	$\varnothing 25-50$
	Pull Rod	M18	M24	M30	M39	M45
	Converter	M6-20	M6-22	M6-27	M6-36	M20-42

Technical advantages

- The thickened high-strength steel, no deformation under high pressure.
- Ultra power-saving design for working time of more than 200 hours.
- Zero tracking, peak hold, automatic shut down.
- Memory capacity of 500 data records and functioned with dot-matrix LCD with back lighting.
- Automatic data correction to improve the accuracy of the instrument.
- LCD monitor with wide viewing display for reading convenience.
- The oil pump and one-way valve do not leak oil during precision machining at constant pressure.



Accessory anchor

Reinforcement products accessories Specification (mm)
 $\varnothing 6, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 38, 40, 50$. 16 types
in total.



Converter, Pull rod

Specification of commonly used accessories for threaded products
such as expansion bolts and anchor bolts Specification(mm):
M6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 42-16 types in total

AT10-M

Adhesion Tester

Standard

ASTM D4541 《Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers》
ASTM D7234 《Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers》

Technical advantages

- Portable handheld instruments can be used in any place without external power supply, and they can be used both in the laboratory and on-site.
- The self-aligning aluminum spindle can perform precise measurements on smooth or uneven surfaces.
- Hydraulic design allows smooth and continuous pressure to be applied in a single piston stroke.
- The force-time curve and load are displayed on the same screen, fully recording the data of the testing process.
- Users can choose the measurement unit: psi (pounds per square inch), MPa (megapascals), or kN (kilonewtons); the sealed housing is rainproof, dustproof, and shockproof, meeting or exceeding the IP65 standard.
- The spindle size, measurement unit, and stored data can be selected by pressing the buttons.
- The pressure system has been strictly calibrated,with an accuracy of 1% FS, convenient calibration, stable force output, high precision, and no temperature drift.





Optional accessories



Precision sensor



Portable handheld device

Technical parameters

Model	AT10-M
Resolution	1 psi (0.01MPa)
Accuracy	EN ISO 7500-1 Class 1 (±1%, from 20 % of maximum force)
Cylinder stroke	10mm
Measuring range	0~10kN
store	4000 pieces
endurance	15 hours
Display screen	2.8 inch color LCD touch screen

Components





Multi-angle clamping, more convenient installation of measuring nails

SJY-800B SJY-1000B

Penetration Strength Tester

Introduction

Penetration strength tester is an instrument designed specifically for measuring the strength of mortar and concrete in the construction industry. There is a correlation between the depth of penetration of the nail and the actual compressive strength of the tested component. By standardizing the strength curve, the corresponding compressive strength value of the component can be accurately calculated based on the measured penetration depth value. The penetration strength tester is an effective tool for quickly, conveniently, and non destructively testing the strength of masonry mortar and concrete in the construction industry, and is widely used in various fields such as construction and engineering testing.

Technical advantages

- SJY-800B is suitable for testing the strength of mortar. SJY-1000B is a strength tester suitable for concrete.
- Light weight body design, more labor-saving detection.
- Innovative lever afterburner design, more convenient operation.
- Supplied with high-quality measuring nails.
- Improved pointer design, easy to adjust friction and more stable.



Technical parameters

Model	SJY-800B	SJY-1000B
Penetration force	800±8N	1000±10N
Working stroke	20±0.10mm	20±0.10mm
Measuring nail length	40mm	40mm/35.00mm
Nail diameter	3.5mm	3.50mm/3.10mm
Gauge groove	39.5mm	39.5mm/34.5mm

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