CATALOG OF MEASUREMENT EQUIPMENT AND NONDESTRUVTIVE TEST







PORTABLE ULTRASONIC FLAW DETECTORS

TO THE PARTY OF TH

DGT-FD850

- 1. The maximum sampling rate of up to 640MHz, the measurement resolution 0.1mm, minimum range 2mm.
- 2.Operating frequency 0.5MHz ~ 20MHz, sensitivity margin of up to 62dB, low frequency there is a better signal to noise ratio.
- 3. High brightness, high-resolution (800x480) color TFT LCD display, the best reading test results.
- 4. High-performance pulse square wave generator with adjustable options, and the probe to achieve the best match (non-inductive coil probe can be achieved excellent incentive), high attenuation material either detect or thin work pieces can bring optimal performance.
- 5. Small size, light weight, battery, can work for more than eight hours.
- 6. With LAN network interface, remote instrument control and data transmission. When the instrument is as a square wave transmitter, it can provide control of the instrument parameters.
- 7. Two-dimensional incremental encoder interface for accurate position detection imaging (B, TOFD sweep).
- 8.Simultaneous analog RF waveform output, output impedance 50Ω , can be used as source data acquisition and probe tests.
- 9. High-speed USB interface to an external U disk data storage and dump.
- 10.Built-in charging function; battery and DC power supply automatically detects the display; charging, automatic switching power supply, charging temperature dual protection.
- 11.A variety of software features, covering all aspects of testing; unique originality universal knob to adjust the way to make testing more easily worry; humanized menu design, Chinese and English language menus
- 12. Automatic test probe frequency, automatically optimizing the width of the square wave, with the probe and optimal instrument.
- 13.Images of the thickness of the alarm function, waveform storage function and a variety of continuous waveform measurement mode.
- 14. Fixed index measuring instruments function and waveform envelope function to achieve the peak memory.

PORTABLE ULTRASONIC FLAW DETECTORS

DGT-FD850

Items	Parameters	
	Square wave, Emitter voltage of 25V ~ 400V continuously adjustable, stepping 25V,	
Transmitted Pulse	continuously adjustable width 30ns ~ 1000ns, Continuously adjustable width 30ns ~	
Transmitted Pulse	1000ns, Stepping 5ns. Under 400Ω/200V, both edges of less than 10ns, Automatic	
	optimization for high-frequency excitation pulse.	
Work Mode	Single, double, penetration	
Launch Damping	400,100Ω	
Operating Frequency	0.5 ~ 20MHz, broadband and narrowband two types	
Gain Range	0.0 ~ 110.0dB	
Gain Step Value	0.1, 1.0, 2.0, 6.0 dB. 0.1dB gear acceleration provides intelligent regulation	
Velocity Range	1000 ~ 20000 m / s. Continuously adjustable in steps of 1, 10, 100m / s. Built-in 8	
velocity karige	velocity values commonly used materials	
Detection Range	2.0 ~ 14000mm (longitudinal wave in steel). Continuous adjustable, step value 0.1,	
Detection Range	1, 10, 100mm	
Detection Methods	Positive half wave, negative half wave, full-wave, RF	
	Two-way real-time hardware-driven alarm signal	
Alarm	Optional: gate alarm (into the wave, wave loss), the thickness of the alarm, DAC	
Addill	curve Alarm, AVG curve alarm, the alarm signal optional buzzer (sound), light-	
	emitting diode (light)	
Display	7-inch high-resolution TFT color LCD screen, big screen, dot-matrix 800×480	
Pulse Shift	-45 ~ 9999mm	
Probe Zero Value	0 ~ 999.99μs	
Pulse Repetition Frequency	25~1000Hz, automatic or manual adjustment mode	
Vertical Linearity Error	≤3%	
Level Linearity Error	≤0.3%	
Sensitivity Margin	> 62dB (200Φ2 flat bottom hole)	
Resolution	> 36dB	
Dynamic Range	≥32dB	
Rejection	(0-99) %, does not affect the linearity and gain	
RF Output Impedance	50Ω	
Electrical Noise Level	<10%	
Probe Interface	BNC or Lemo	
Data Port	USB interface	
Power	High-capacity lithium battery, no memory effect; 220V AC (with adapter).	
Working Time	Continuous work more than eight hours	
Ambient temperature	-30 ℃ ~ 50 ℃	
Relative humidity	(20-95) % RH	
Weight	1.4kg (including battery)	

PORTABLE ULTRASONIC FLAW DETECTORS

DGT-FD800

- 1. Automated display precise flaw location(Depth d、level p、distance s、amplitude、sz dB、φ)
- 2.2. Automated switch three staff gauge ((Depth d, level p, distance s);
- 3.3.Automated calibration of transducer Zero-point, Angles, Front edge and material Velocity;
- 4.4.Convenient to make and use DAC\TCG and AVG to evaluate the echo, the curve can be modified and compensated
- 5.5.6dB DAC functions;
- 6.6.100 independence setup, any criterion can be input freely, we can work in the scene without test block;
- 7.7.Big memory of 1000 A graph
- 8.8. Automated gain and gain scan;
- 9.9.Peak Hold and Peak Memory;

10.10.B scan:

11.11.AWS D1.1

- 12.12. Automated make video of test process and play; use upan, the length of video is unlimited.
- 13.13. Powerful pc software and reports can be export to excel;
- 14.14.Li battery, continue working time up to 10 hours;
- 15.15. The embeded software can be online updated;

Measuring range (mm)	010000		
Vertical linearity error	≤3%		
Horizontal linearity error	≤0.1%		
Sensitivity margin	≥62dB		
Dynamic scope	≥34dB		
Resolution	≥36dB		
Frequency range (MHz)	0.520		
Gain (dB)	0120		
Velocity	100015000		
Measurement mode	single、dual、THRU		
Reject	0-80%		
Pulse shift (µs)	-20+3400		
Zero	(μs) 0.099.99		
Port type	BNC		
Operating temperature	-2050		
H×W×D(mm)	240×156×50		
Weight (kg)	1.0(with Battery)		

PORTABLE ULTRASONIC FLAW DETECTORS

TRANSDUCERS/PROBES

Transducer	Connector	Angle	Size(mm)
			6×6, 8×9, 10×10
Angle Beam	Lemo00	30°, 45°, 60°, 70°, 80°	13×13, 14×16, 18×18
Transducer			20×20,20×22
			30×30
Straight Beam			Ф5, Ф8, Ф10, Ф12
Transducer	Lemo00 Lemo01	Lemo00 0° Lemo01	Ф14, Ф16, Ф20
			Ф25, Ф30
Dual Straight Beam			Ф8, Ф10, Ф12
Transducer	Lemo00 0°	Ф14, Ф20	
			Ф25, Ф30

PORTABLE ULTRASONIC FLAW DETECTORS

Dual Lemo00 to Dual BNC

Dual Lemo01 to Dual Microdot

Dual BNC to Dual Microdot

CABLES



2.0

2.0

2.0





PORTABLE
ULTRASONIC FLAW DETECTORS

CALIBRATION BLOCKS

V1 CALIBRATION BLOCK

Calibration of shear and compression wave probes. Checking beam angle, emergent point and resolution. Calibration of time base and gain settings.

DSC DISTANCE/ SENSITIVITY CALIBRATION BLOCK

Straight Beam: distance, amplitude. Angle Beam: index point, sound path angle (45°-70°), distance, sensitivity.

PHASED ARRAY BLOCK TYPE B

The Phased Array "Type B"
Calibration Block is used as baseline
block to determine long-term
instrument performance changes,
generate DAC curves, and evaluate
linear/ angular resolution, focusing
ability and beam steering capability.

V2 CALIBRATION BLOCK

Small calibration block for on-site checking of miniature shear wave probe index, time base, beam angle and gain, engraved reference mark scales from 35 to 75 degrees.

MINIATURE ANGLE BEAM (ROMPAS) CALIBRATION BLOCK

Straight Beam: distance angle beam, index point, sound path angle (30°-70°).

PHASED ARRAY BLOCK TYPE A

The Phased Array "Type A"
Calibration Block is used during the initial setup and calibration of a phased array ultrasonic unit. It can be used to perform tasks such as beam angle verification, calibration for wedge delay, sensitivity calibration, performing DAC/TCG for thickness up to 50 mm, and crack sizing.



PORTABLE ULTRASONIC FLAW DETECTORS

CALIBRATION BLOCKS

DC DISTANCE CALIBRATION BLOCK

Straight Beam: distance, amplitude. Angle Beam: index point, distance.

DS DISTANCE/ SENSITICITY CALIBRATION BLOCK

Straight Beam: distance, horizontal linearity, sensitivity.

IOW BEAM PROFILE BLOCK

Angle Beam: beam profile (45°, 60°, 70°), probe angle.

SC SENSITIVITY CALIBRATION BLOCK

Angle Beam: sound path angle (45°, 60°, 75°), sensitivity.

RC (AWS) RESOLUTION CALIBRATION BLOCK

Angle Beam: resolution (45°, 60°, 70°).

ASME BASIC CALIBRATION BLOCK

Used for establishment of primary reference responses for UT examination of welds.



DGT-TG130

PORTABLE

Measuring Range(Steel)		0.7mm-225.0mm with 5MHz Transducer		
		5.0mm-300.0mm with 2MHz Transducer		
Operating Temperat	ture		-10 60°C	
Lower Limit Steel Pi	pes		Ф20mm*3.0mm	
Display Resolution (Selectable)	0.1mm/	0.01mm or 0.01/0.00	linch
Data Output		RS232	2 Output for Printer or	PC
Measuring Accuracy	,	±	1% thickness+0.1mm	
Sound Velocity		1000m/s—9999m/s		
Power Supply		2pcs AA Batteries 1.5V		
Battery Life		100 hours without backlight		
Dimensions		152mm×74mm×35mm		
Weight		370g		
	Ti	ansducer Specificatio	ns	
Measuring Range		Contact Area	Frequency	Operating
Transducer (Steel)		Diameter	(MHz)	Temperature
TSTU32	5.0-300.0mm	22mm	2	-10 60°C
5РФ10	0.7-225.0mm	10mm	5	-10 60°C



Measuring Range	0.75mm~300.0mm (0.03inch~11.8inch)
Units	Metric / Imperial unit selectable
Sound Velocity Range	1000m/s~9999m/s (0.039~0.394 in/μs)
Display Resolution	0.01mm or 0.1mm (lower than 100.0mm) 0.1mm (more than 99.99mm)
Accuracy	± (0.5%Thickness+0.04) mm, depends on materials & conditions
Data Memory	5 files (up to 100 values for each file) of stored values 5 Sound Velocity of stored values
Power Source	2pcs 1.5V AA size batteries 250 hours typical operating time (LED backlight off)
Outline Dimensions	150mm×74mm×32mm
Workpiece Surface Temperature	- 10 ~ 60 °C
Minimum Thickness Value Capture Capacity	With a minimum thickness value capture capacity
Measurement Cycle	4 times / SEC, scanning of single point measurement mode 20 times per second
Weight	238 g



DGT-TG320/321/322/330/331/332

Model	320	321	322	.330	331	332
Measuring range(mm)	0.7~300					
Resolution(mm)	0.1		0.01	0.1	0.1	0.01
Accuracy(mm)			±(0.5%H+0.04) r	nm, H is thickn	ess	
Velocity range(m/s)	5920	100	0~9999	5920	1000~9	999
Velocity measurement	✓					
Storage	N	N 2000 Groups N		N	2000 Groups	
Shell	Plastic			Metal		
Operating temperature	-10°C~60°C					
Dampness		20%~90%				
Dimensions		130×70×25mm				
Power supply	2 AAA alkaline batteries					
Weight	200g 420					
Standard Delivery	Main unit, Probes, Couplant bottle					
Optional Accessories	Probes, Couplant					



DGT-TG342/352

Model	342	352		
Measuring range(mm)	0.75	~300		
Resolution(mm)	0.	01		
Accuracy(mm)	±(0.5%H+0.04)m	m,H is thickness		
Velocity range(m/s)	1000-	~9999		
Velocity measurement	,	ı		
Operating temperature	0°C~	0°C~40°C		
Dampness	20%~90%			
Dimensions	230×86	×46mm		
Power supply	Rechargeable NI-MH battery	Rechargeable Lithium battery		
Printer	Build-in High-spec Width for printer p	ed Thermal Printer, paper:44.5±0.5mm		
Weight	400g			
Standard Delivery	Main unit,2 probes(Ф10、Ф8),Couplant,Charger, Paper for printer			
Optional Accessories	Probes,Couplant,Paper for printer, 4 steps calibration block for 352			



Measuring Range (Steel)	Pulse-Echo mode: (0.65-600) mm (in Steel) Echo-Echo mode: (3-30) mm
Display	4.5 digits LCD with EL backlight
Sound Velocity Range	(1000-9999) m/s
Resolution	0.1mm/0.01mm
Accuracy	± (0.5%Thickness+0.01) mm, depends on materials and conditions
Memory	up to 20 files (up to 99 values for each file) of stored values
Power Source	Two "AA" size, 1.5 Volt alkaline batteries. 100 hours typical operating time (EL backlight off)
Communication	USB1.1
Outline dimensions	150mm×74mm×32 mm
Weight	245g
Operating Temperature	- 20°C-+ 60°C
Storage Temperature	-30°C-+70°C
Relative Humidity	≤90%



PORTABLE ULTRASONIC THICKNESS GAUGE

DGT-TG500

Operating Principle	I-E(interface-echo) mode with single-crystal delayed probe	
	E-E(echo-echo)mode with single-crystal delayed probe	
Measuring Range	1.5-20mm (I-E mode)	
Heasting Kange	0.3-10mm (E-E mode)	
Unit and Display Baselution	mm-0.001, 0.01, 0.1	
Unit and Display Resolution	inch-0.0001, 0.001, 0.01	
Probe Zero Adjustment	1-point Calibration	
Probe Zero Adjustment	2-point Calibration	
Measuring Error	±0.005mm(<3mm); ±0.05mm (<20mm)	
Planton	128×64 dot-matrix LCD screen with EL backlight	
Display	(42mm×57mm)	
Measuring Update Rate	4Hz in standard measurement mode	
Material Velocity Range	1000-9999m/s, 0.0394-0.3937in/us	
Data Logger Capacity	Up to 500 readings can be divided into a maximum of 5	
Data Logger Capacity	files(user-selectable)	
Operating Language	English	
Power Supply	Two 1.5V AA Alkaline batteries, warning with low voltage	
On anting Time	Up to 200 hours with alkaline batteries (without backlight)	
Operating Time	depending on operating mode	
Auto-shut off	After 5 minutes of non-use	
Auto-shut on	-10°C to +50°C(Specification to -20°C/-4°F on request)	
Size	149mm×73mm×32mm (H×W×D)	
Weight	200g including batteries	



DGT-CTG210/211/220/221/222/232

Model	210	211	220	221	222	232
Operating principle	Magnetic induction (Fe)	Eddy Current (NFe)	Magnetic induction (Fe)	Eddy Current (NFe)	Fe and NFe	Fe and NFe
Measuring range (µm)			0~1250)μm		
Probe	Settl	ed		Chang	eable	
Shell			Plastic			Metal
Accuracy	±[(1~3%)H+1]					
Low range resolution (µm)	0.1µm					
Min curvature of the min area (mm)	Convex1.5 Concave9					
Diameter of the min area (mm)	Ф7					
Critical thickness of substrate (mm)	0.5					
Memory	500 Groups measured data					
Dimensions	115×70×30mm					
Power supply	AAA Alkaline battery					
Standard configuration	Main Machine,5 calibration specimens (50um、100um、200um、500um、 1000um), Fe or NFe probe, Fe or NFe substrate. Two probes for 222&232.					
Optional Accessories	Probes, Specimens					



Model	242	262	
Operating principle	Magnetic induction or Eddy current (Fe or NFe)		
Measuring range (µm)	0~125	50μm	
Accuracy	±[(1~3	%)H+1]	
Low range resolution (µm)	0.1	μm	
Min curvature of the min area (mm)	Convex1.5	Concave9	
Diameter of the min area (mm)	Ф	7	
Critical thickness of substrate (mm)	0.5		
Operating temperature			
Magnetic field	No strong magnetic field environment		
Memory	500 measured data		
Dimensions	.230×86	×46mm	
Printer	Build-in High-spee Width for printer p		
Power supply	Rechargeable NI-MH battery Rechargeable lithium-battery		
Standard configuration	Main unit,5 specimens (50um、100um、200um、500um 1000um), Charger, paper for printer, Fe or NFe probe,Fe or NFe substrate		
Optional Accessories	Probes, Specimens, Paper for printer		



PORTABLE ULTRASONIC COATING THICKNESS GAUGE

DGT-CTG250A/251A/252A

Model	250A	251A	252A
Operating principle	Magnetic induction	Eddy current	Magnetic induction or Eddy current
Measuring range (µm)	0~12	50µm	0~6000µm
Accuracy		±[(1~3%)H+1]	
Low range resolution (µm)		1µm	
Min curvature of the min area (mm)		Convex1.5 Concave20)
Diameter of the min area (mm)	Ф10		
Critical thickness of substrate (mm)	0.5		
Memory	320 Groups		
Operating temperature	0°C~40°C		
Dampness	20%~90%		
Magnetic field	No strong magnetic field environment		
Dimensions	150×55.5×23mm		
Power supply	AAA Alkaline battery		
Weight	120g		
Standard configuration	Main unit,2 Calibration specimens (S1, S2), Fe and NFe substrate		



PORTABLE ULTRASONIC COATING THICKNESS GAUGE

DGT-CTG250/251/252/253

Model	250	251	252	253
Operating principle	Magnetic induction (Fe)	Eddy current (NFe)	Magnetic induction and Eddy current (Fe and NFe)	Magnetic induction (Fe)
Measuring range (µm)	0~1250μm 0-		0~6000µm	
Accuracy	±[(1~3%)H+1]			
Low range resolution (µm)	1μm			
Min curvature of the min area (mm)	Convex1.5 Concave20			
Diameter of the min area (mm)	Ф10			
Critical thickness of substrate (mm)	0.5			
Operating temperature	0°C~40°C			
Dampness	20%~90%			
Magnetic field	No strong magnetic field environment			
Dimensions	150×55.5×23mm			
Power supply	AAA Alkaline battery			
Weight	120g			
Standard configuration	Main unit, 2 Calibration specimens (S1, S2), Fe and NFe substrate			



COATING THICKNESS GAUGE

PORTABLE ULTRASONIC

DGT-CTG300

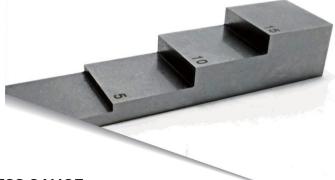
Measu	ring range	0-1250µm, depends on probes, MAX 10mm for the probe F10.				
Workin	g principle	Magnetic & Eddy				
Sul	bstrate	FE / NFE base				
Res	olution			0.1μι	m	
D	isplay		128	x64 LCD wi	th backlight	
Ac	curacy		±2%H+1um	Note: H	is thickness reading	
Me	emory			5 files x 10	0 values	
Uni	t switch		Me	tric (µm) Im	perial (mil)	
Working	temperature	Operation Temp.: -10~50°C Storage Temp.: -30~70°C			70°C	
Р	ower			AA batter	y 2pcs	
w	reight	340g				
:	Size	115×67×31mm				
	Transducers					
	Model		F1	F1/90	F10	N1
Wor	king principle	Magnetic			Eddy	
Measuring Range (μm)		0-400	0-1250	0-10000	0-1250 (0-40 Chromium plating on copper)	10-200
Re:	solution(µm)		0.1		10	0.1
	Minimal Curvatur Radius(mm)	e Convex1	Convex 1.5	Straight	10	3
Measuring Conditions	Basic Materials' Diameter of Minim Area(mm)	al Φ3	Ф7	Ф7	Ф40	Ф5
	Minimum Critical Thickness		0.5	0.5	2	0.3



TRANSDUCERS

PORTABLE

Model	Frequency (MHz)	Diameter (mm)	Connector	Description
P5EE	5	10		Trough Coating
	-	.*		Measurement
				For thick, highly
P02	2	14		attenuating, or
702	-			highly scattering
				materials
P05	5	10		Normal
FUS	,			Measurement
P05/90°	5	10		Normal
PU3/90°	,	10		Measurement
	7	6		For thin pipe wall
P07			Lemo00	or small curvature
P07				pipe wall
				measurement
				Thin work piece:
	10	4		For thin pipe wall
P10				or small curvature
				pipe wall
				measurement
DUTS	PHT5 5 10	10		For high
				temperature (lower
-1115				than 550℃)
			measurement.	



PORTABLE
ULTRASONIC THICKNESS GAUGE

4/5/7/10-STEP BLOCKS

4 STEPS TEST BLOCKS

Dimensions 80x20mm

4A type steps thickness: 6.25mm,12.5mm,18.75mm,25mm

4B type steps thickness: 5mm,10mm,15mm,20mm

7 STEPS TEST BLOCKS

Dimension 140x20mm

7A type steps thickness: 3mm,12.5mm,24mm,30mm,36mm, 42mm, 48mm

7B type steps thickness: 1mm,1.5mm,2mm,4mm,6mm,8mm, 10mm

5 STEPS TEST BLOCKS

Dimensions 100x20mm

5A type steps thickness: 2.5mm,5mm,7.5mm,10mm,12.5mm

5B type steps thickness: 2mm,4mm,6mm,8mm,10mm

10 STEPS TEST BLOCKS

Dimension 200x20mm

10A type steps thickness: 2.5mm, 5mm, 7.5mm, 10mm, 12.5mm, 15mm, 17.5mm, 20mm, 22.5mm, 25mm

10B type steps thickness: 2mm, 4mm, 6mm, 8mm, 10mm, 12mm,14mm, 16mm, 18mm, 20mm

10C type steps thickness: 1mm, 2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10m

ROUGHNESS GAUGES









The maximum driving trip	17.5mm/0.7inch	
Indicating error	Not more than ± 10%	
Variation of indication	Not more than 6%	
The measured profile	Roughness, waviness, the original contour	
	Ra (0.005μm-16μm) ,	
Parameter	Rz (0.02μm-160μm) ,	
	Rq, Rx, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr.	
Filter	RC,PCRC,Gauss,ISO13565	
The sampling length L	0.25mm,0.8mm,2.5mm,8mm	
Evaluation length L	(1-5)l	
Internal storage capacity	100 groups of original data	
External input / output interface	USB	
	Built-in rechargeable lithium ion battery	
Electric source	or external power adapter	
The performance index of sensor		
The detection principle	Current induction	
Measuring range	160 μm	
Tip radius	5 μm	
Tip material	Diamond	
Stylus force	4mN(0.4gf)	
Stylus angle	90°	
The guide head vertical radius	45mm	



DGT-SRT300(HIGH PRECISION)

SURFACE

Measuring Range	Z-axis (vertical)	160µm	
measuring Kange	X-axis (horizontal)	17.5mm	
	Z-axis (vertical)	0.01μm/±20μm	
Resolution		0.02μm/±40μm	
		0.04μm/±80μm	
	Parameters	Ra Rz==Ry(JIS)	
		Rq Rt==Rmax	
Measuring Items	raiameteis	Rp Rv R3z R3y Rz(JIS)	
measuring items		Rs Rsk Rku Rsm Rmr Rpc, Rk, Rpk, Rvk, Mr1, Mr2	
	Standard	ISO, ANSI, DIN, JIS	
	Graph	Supporting curve, roughness profile, direct contour	
Filter		RC, PC-RC, Gauss, D-P	
Sampling length (ir)	0.25, 0.8, 2.5mm	
Evaluation length (ln)		Ln=lr×n	
Evaluation tength	(11)	n=1~5	
	Measuring Principle	displacement differential inductor	
	Stylus	Natural diamond, 90 cone angle, 5µm tip radius	
Sensor	Dynamometer	<4mN	
2611201	Guide head	Carbide, the sliding direction radius 40mm	
	Sliding Speed	lr=0.25, Vt=0.135mm/s, lr=0.8, Vt=0.5mm/s	
	Straing Speed	lr=2.5, Vt=1mm/s, Return, Vt=1mm/s	
Indicator Error		no more than ±10%	
Indication Fluctuation		no more than 6%	
Power		Built-in lithium-ion rechargeable battery, charged by	
		DC5V, 800mA charger	
Dimension		158×63.5×46mm	
Weight		About 300g	



DGT-SRT432

Roughness parameter	Ra、Ry、Rq、Rz、Rt、RSm、RS、Rp、Rv、R3z、RSk、Rmax、Rmr
Measuring range	Ra:0.005-16µm
	Rz:0.02-160µm
Resolution	0.001μm
Sample length/Range	0.25mm, 0.8mm, 2.5mm/±20μm, ±40μm, ±80μm,
Evaluation length	1.25mm, 4mm,5mm/Option from1L-5L (L means the sample
Evaluation length	length)
Standard	ISO、DIN、ANSI、JIS、FCC、CE
Filtering methods	RC, PC-RC, GAUSS, D-P,
Accuracy	≤±5%
Repeat ability	<2%
Sensor	Piezocrystal
Radius of sensor stylus	5μm
Stylus angle	90°
Memory	100 Groups
Power supply	Rechargeable Lithium-Ion battery
Operating temperature	0 °C ~40 °C
Weight	440g
Dimensions	119×47×65mm
Standard configuration	Main Unit, Standard sensor, standard block, Power adapter



SURFACE ROUGHNESS TESTERS

DGT-SRT451

Roughness parameter	Ra、Rz、Rq、Rt		
Measuring range	Ra:0.05-10.0μm		
	Rz:0.1-50µm		
Resolution	0.01μm		
Cut-off lengths	0.25mm / 0.8mm / 2.5mm		
Evaluation length	1.25mm / 4mm / 5mm		
Tracing length	6mm		
Standard	ISO、DIN、ANSI、JIS、FCC、CE		
Accuracy	≤±6%		
Repeatability	<3%		
Sensor	Piezocrystal		
Sensor stylus arc radius and Angle	Radius of sensor stylus:10.0±2.5µm Angle:90°		
Samuel de faure and its abanca asta	Sensor stylus forc: ≤0.016N;		
Sensor stylus force and its change rate	change rate: ≤800N/m		
Pressure of sensor head	≤0.5N		
Power supply	Rechargeable 3.7V Lithium-Ion battery		
Operating temperature	0 °C ~40 °C		
Weight	200g		
Dimensions	106×70×24mm		
Standard configuration	Main Unit, Standard sensor, Model for multi-standard groove,		
	Power adapter, Calibration block		



STANDARD SENSOR

Measure the width greater than 2mm, groove depth less than 3mm groove, or step height of less than 3mm the surface roughness.

SENSOR FOR DEEP GROOVE

Measure the width greater than 3mm, groove depth less than 10mm groove.

SENSOR FOR SMALL HOLE

Measure the width greater than 5mm surface roughness.

STANDARD BLOCKS

Ra: 0.4, 0.8, 1.6, 2.0.

SENSOR FOR CURVED SURFACE

Measure the width greater than 3mm radius of curvature of concave and convex surface of the workpiece surface.

EXTENSION BAR

It can strech out 50mm sensor.

LATERAL SENSOR

It can be used to turn at right angles to the sensor measurements.

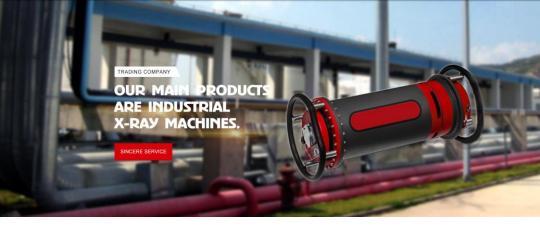
MEASURING PLATFORMS

More information please contact us.

X RAY FAULT DETECTORS







X-RAY FLAW DETECTORS

Portable X-ray Flaw Detectors

- XXQ series are with directional glass x-ray tube.
- Portable X-ray flaw detector is made up by x-ray generator, controller, connecting cable, power cable and accessories.
- The intelligent design for controllers, the tube voltage and exposing time can be preset, the timer is digital.
 - The controllers have over-voltage protection, over-current protection, less-current protection and exposing delay function. Strong impact resistance and anti-jamming performance for the complex work environment.
- X-ray generators have over-temperature protection. When the generator is over-temperature, it will shut down the high voltage automatically.
- We have over 30-year-experience on industrial x-ray machines, and the x-ray
 machines we produce have smaller dimensions, lighter weight, best quality, longer
 trouble-free cycle and lower maintenance cost.

X-RAY FLAW DETECTORS

- XXQ-3505
- XXQ-3005
- XXQ-2505
- XXQ-2005
- XXQ-1605
- XXQ-1005
- XXH-3505Z
- XXH-3005Z
- XXH-2505Z
- XXH-2005Z
- XXH-1505Z
- XXGH-3505Z
- XXGH-3005Z
- XXGH-2505Z
- XXGH-2005Z
- XXG-3505
- XXG-3005
- XXG-2505
- XXG-2005
- XXG-1605
- DGT-350
- DGT-300
- DGT-250
- DGT-200
- DGT-160



XXQ Series - Directional glass X-Ray Tube

XXH Series - Panoramic glass

XXGH Series - Panoramic ceramic

XXG Series - Directional ceramic

DGT Series - Directional ceramic

CONTACT



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