SHOT AND GRIT BLASTING SURFACE ROUGHNESS SPECIMENS

\|\\S\|ZE PLU5 MADE IN UK

- To check the roughness of steel surfaces which have been blast cleaned before painting
- Meets ISO 8503/1
- Rust-proof, made of pure Nickel
- Each piece contains 4 parts



ISR-CS017

Code	Machining method	Roughness (Ra)	Roughness (Rz)
ISR-CS017	Shot blasting	3.2, 8, 13, 18µm	19.2, 48, 78, 108µm
ISR-CS018	Grit blasting	3.2, 10.5, 18, 25µm	19.2, 63, 108, 150µm

COATING THICKNESS GAGE

♦//\S/ZE→ PLU5 MADE IN GERMANY

SUITABLE FOR SMALL SURFACES, CONCAVE OR CONVEX SURFACES

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES



- Suitable for small surfaces, concave or convex surfaces
- Magnetic induction probe (Fe) is to measure the thickness of non-magnetic coating on magnetic substrate
 - Substrate: iron, steel, magnetic stainless steel (does not include non-magnetic stainless steel)
- Coating: zinc, copper, chrome-tin, plastic powder, paint (does not include nickel)

 Eddy current probe (NFe) is to measure the thickness of non-conductive coating on non-magnetic metal substrate
 - Substrate: copper, aluminum, zinc, non-magnetic stainless steel

Coating: plastic powder, paint, anodizing

MAIN UNIT SPECIFICATION

Code		ISO-2000FN	
Measuring	magnetic induction probe (Fe)	0~2000µm	
range	eddy current probe (NFe)	0~800µm	
Accuracy		±(1.5+2%L)µm L is measuring thickness in µm	
		0.1μm (range<100μm)	
Resolution		1μm (range 100~1000μm)	
		10μm (range≥1000μm)	
Repeatabili	tv	1μm (range 0~1000μm)	
Repeatabili	ıy	10μm (range≽1000μm)	
Measuring	mode	continuous or single	
Calibration	mode	four points calibration	
Minimum substrate thickness		magnetic induction probe (Fe): 0.2mm, eddy current probe (NFe): 0.05mm	
Minimum measuring area		5x5mm, calibration should be made on workpiece without coating, test stand (optional) is recommended in order to have same position for calibration and measurement	
Power supply		2×1.5V AA batteries	
Dimension of main unit		122×65×22mm	
Weight of main unit		150g	

connected to probe



magnetic induction probe Fe (optional) ISO-2000FN-FE



main unit ISO-2000FN



eddy current probe NFe (optional) ISO-2000FN-NFE



standard foil (included)

STANDARD DELIVERY

Main unit	1pc
Zero calibration block for Fe probe	1pc
Zero calibration block for NFe probe	1pc
Standard foil	7pcs
Battery (AA)	2pcs

PROBE (OPTIONAL) SPECIFICATION

Magnetic induction probe (Fe)	ISO-2000FN-FE	
Eddy current probe (NFe)	ISO-2000FN-NFE	

- To measure the thickness of any non-magnetic coating on magnetic substrate substrate: steel, iron, magnetic stainless steel (non-magnetic stainless steel is not included) coating: zinc, copper, chrome, tin, plastic, paint (nickel is not included)
- Low and high limits with judgement

SPECIFICATION

Accuracy

Resolution

Repeatability

Output

Memory

Weight

Power supply

Measuring mode

Calibration mode

Minimum substrate thickness

Minimum curvature concave

radius of workpiece convex

Minimum measuring area

Measuring range

■ Calculate average value automatically

MEASURE NON-MAGNETIC COATING ON MAGNETIC SUBSTRATES



±(2%L+2)µm L is measuring thickness in µm

(range<100µm)

zero calibration, one point calibration,

COATING THICKNESS GAGE CODE ISO-1500F





(included)



block (included)



STANDARD DELIVERY

Main unit	1pc
Zero calibration block	1pc
Calibration foil (50µm, 100µm, 500µm, 1000µm, 1500µm)	1set
1.5V AAA battery	3pcs
Software and USB cable	1pc





3×1.5V AAA batteries (power off automatically) **OPTIONAL ACCESSORY**

ISH-DS-PRINTER

MEASURE NON-MAGNETIC COATING ON MAGNETIC SUBSTRATES



eddy current probe Ne (optional) with zero calibration block



zero calibration block for Fe (included)



calibration foils



0~1500µm

0.1µm (range<1000µm)

1µm (range≥1000µm)

continuous and single

two points calibration

0.5mm

30mm

5mm

USB

1200

120g

88×67×30mm

10×10mm

±(1%L)µm (range≥100µm)

Lis measuring thickness in µm

- Magnetic induction probe (Fe, included) is to measure the thickness of non-magnetic coating on magnetic substrate substrate: steel, iron, magnetic stainless steel (non-magnetic stainless steel is not included) coating: zinc, copper, chrome, tin, plastic, paint (nickel is not included)
- Eddy current induction probe (NFe, optional) is to measure the thickness of non-conductive coating on non-magnetic substrate substrate: copper, aluminum, zinc, non-magnetic stainless steel coating: plastic, power, paint, anodizing
- Low and high limits with judgement Calculate average value automatically
- Automatic power off

COATING THICKNESS GAGE (BASIC MODEL) **CODE ISO-1000F**

SPECIFICATION

Probe type	Fe (included)	NFe (optional)
Measuring range	0~1250µm	
Accuracy	±(3%L+1)µm L is measuring thickness in µm	
Resolution	0.1µm (range<5	50µm)
Resolution	1µm (range≥	50µm)
Repeatability	±(2%L)μm L is measuring thickness in μm	
Measuring mode	continuous and single	
Minimum substrate thickness	0.5mm 0.3mm	
Minimum measuring area	Ø7mm Ø5mm	
Minimum curvature radius of convex workpiece	1.5mm 3mm	
Memory	500	
Power supply	3x1.5V AAA batteries	
Dimension	155×72×27mm	
Weight	230g	

STANDARD DELIVERY

Main unit	1pc
Magnetic induction probe (Fe)	1pc
Zero calibration block for Fe probe	1pc
Calibration foils (50μm, 100μm, 250μm, 500μm, 1000μm)	1set
1.5V AAA battery	3pcs

OPTIONAL ACCESSORY

Eddy current probe (NFe) with	
zero calibration block	

ISO-1000F-NFE

CROSS CUT ADHESION TESTER CODE ISQ-PK100





- To test the adhesion of paint coating on metal, wood, plastic, etc. According to ISO 2409, ASTM D3359, DIN53151



step 1: make grid cutting on surface



step 2: paste and remove the tape



step 3: according to the shedding status, judge the adhesion grade

SPECIFICATION

Blade		1mm pitch blade	2mm pitch blade	3mm pitch blade
Applied paint	hard substrate (like metal)	0~60μm	61~120µm	121~250µm
thickness	soft substrate (like wood, plaster)	-	0~120μm	121~250µm
Minimum substrate	hard substrate (like metal)	0.25mm	0.25mm	0.25mm
thickness	soft substrate (like wood, plaster)	-	10mm	10mm
Minimum size of test	150×100mm	150×100mm	150×100mm	
Dimension	170×28×40mm			
Weight		430g		



2X magnifier (included)

brush (included)

STANDARD DELIVERY

Handle	1pc
1mm pitch blade	1pc
2mm pitch blade	1pc
3mm pitch blade	1pc
Test tape (ISQ-PK100-1)	1pc
2X magnifier	1pc
Brush	1pc



test tape (included) ISQ-PK100-1



1mm pitch blade



2mm pitch blade



3mm pitch blade (included)

PULL OFF ADHESION TESTER CODE ISQ-PF200

- To measure the pull off adhesion of paint coating on metal, wood, plastic, etc.

 • According to ISO 4624, EN13144





Ø15.1mm flat dolly



Ø19.5mm flat dolly (included)



ring cutter (included)



glue (included) ISQ-PK100-1



glue for rough surface (included) ISQ-PK100-2

handwheel reading scale +INSIZE+ flat dolly

step 1: glue the dolly on the paint coating



step 2; cut the paint around dolly by using ring cutter



read the adhesion when dolly is pulled off

SPECIFICATION

	Ø15.1mm flat dolly	1~10MPa
Test range	Ø19.5mm flat dolly	2~6MPa
Minimum siz	Minimum size of test sample	
Dimension		30×30mm 70×70×150mm
Weight		1kg

STANDARD DELIVERY

Main unit	1pc
Ø15.1mm flat dolly	3pcs
Ø19.5mm flat dolly	3pcs
Ring cutter	1pc
Glue (ISQ-PF200-1)	3g
Glue for rough surface (ISQ-PF200-2)	6ml

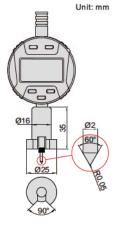


OUTPUT

DISPLAY MAXIMUM, MINIMUM, DIFFERENCE VALUE BETWEEN MAXIMUM AND MINIMUM

- Measure peak-to-valley height of blast cleaned surface. If the profile is too low, the adhesion of the coating to the surface will be reduced.
- If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data ouput
- Stainless steel base
- Optional accessory: data output cable (code 7306-40, 7302-SPC3A, 7305-SPC1A)

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2844-10



DIGITAL SURFACE PROFILE GAGE

DIGITAL SURFACE PROFILE GAGE



measure peak-to-valley height of blast cleaned surfaces

Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
2844-10 0-12.7mm/0-0.5"		12.7mm/0.5"	0.001mm/0.00005"	±0.005mm



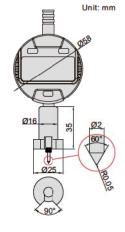


- Measure peak-to-valley height of blast cleaned surface. If the profile is too low, the adhesion of the coating to the surface will be reduced.
 - If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Button function: on/off, zero, mm/inch, absolute/incremental measurement
- CR2032 battery, automatic power off

Range

2843-10 0-12.7mm/0-0.5"

- Data ouput
- Stainless steel base
- Optional accessory: data output cable (code 7306-40, 7302-SPC3A, 7305-SPC1A)



Accuracy

±0.005mm

Digital indicator

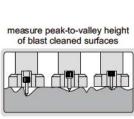
resolution

0.001mm/0.00005"

measure peak-to-valley height

of blast cleaned surfaces









Code

- Measure peak-to-valley height of blast cleaned surface.
- If the profile is too low, the adhesion of the coating to the surface will be reduced. If the profile is too high, there is the danger that the profile peaks will remain uncoated, allowing rust spots to occur.
 ■ Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Stainless steel base

Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
2344-1	0-1mm	1mm	0.001mm	±0.005mm

Digital indicator

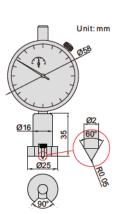
stroke

12.7mm/0.5"

SURFACE PROFILE GAGE







WET FILM GAGE

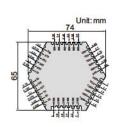
■ Made of stainless steel

Unit: mm



4845-1

Code	Range	Accuracy	Thickness
4845-1	25-800µm	±5μm	1.8mm
4845-2	25-3000µm	25-100µm: ±5µm; 100µm-3000µm: ±5%	1mm





4845-2

ULTRASONIC THICKNESS GAGE (THROUGH COATING) CODE ISU-300D

PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATE

DATA



- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
 - E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrate, can penetrate coating and measure the thickness of substrate
 - T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- Low and high limits with judgment
- Average calculation of maximum 9 readings
- Memory of maximum 500 readings

SPECIFICATION

Measuring range	E-E mode: coating thickness 0~1mm, substrate thickness 4~25mm		
Measuring range	T-E mode: substrate thickness1.5~200mm		
Resolution	0.01mm (range<100mm) 0.1mm (range≥100mm)		
Repeatability	0.03mm (range<100mm) 0.1mm (range≥100mm)		
Accuracy	±0.04mm (range<10mm) ±(0.04+H/1000)mm (range 10~100mm) ±H/333mm (range≥100mm) H is the thickness to be measured in mm		
Velocity	1000~9999m/s		
Power supply	2×1.5V AAA batteries		
Dimension	116×64×27mm		
Weight	220g		

STANDARD DELIVERY

Main unit	1pc
Transducer ISU-T07	1pc
Battery (AAA)	2pcs
Couplant (for ISU-T04, ISU-T06, ISU-T07, ISU-T12)	1bottle
USB cable and software disc	1pc











transducer ISU-T12 (optional)



transducer ISU-T13 (optional)





couplant (included)



software CD (included)

OPTIONAL ACCESSARY

Echo-Echo mode (E-E)

coating

Transducer	ISU-T04, ISU-T06, ISU-T12, ISU-T13
Couplant (for ISU-T13)	ISU-HT5-COUPLANT

SPECIFICATION OF TRANSDUCERS

of Edition of Transporter							
Code	Mode	Frenquency	Diameter (Ød)	Measuring range	Minimum size of pipe for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07	T-E E-E	5.0MHz	10.8mm	T-E mode: 1.5~200mm E-E mode: 4~25mm	T-E mode: 20×1.2mm E-E mode: 20×4mm	<60°C	general use
ISU-T04	T-E	10.0MHz	6mm	0.7~20mm	10×1mm	<60°C	for small tube
ISU-T06	T-E	7.5MHz	8.5mm	0.7~50mm	15×1.2mm	<60°C	for thin material
ISU-T12	T-E	2.0MHz	16.3mm	2~400mm	30×4mm	<60°C	for casting iron
ISU-T13	T-E	5.0MHz	13mm	2~200mm	25×3mm	<350°C	for high temperature