

## SHOT AND GRIT BLASTING SURFACE ROUGHNESS SPECIMENS



- 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, 18 $\mu$ m	19.2, 48, 78, 108 $\mu$ m
ISR-CS018	Grit blasting	3.2, 10.5, 18, 25 $\mu$ m	19.2, 63, 108, 150 $\mu$ m

## COATING THICKNESS GAGE

 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 range	magnetic induction probe (Fe)	0~2000 $\mu$ m
	eddy current probe (NFe)	0~800 $\mu$ m
Accuracy	$\pm(1.5+2\%L)\mu$ m L is measuring thickness in $\mu$ m	
Resolution	0.1 $\mu$ m (range<100 $\mu$ m)	
	1 $\mu$ m (range 100~1000 $\mu$ m)	
	10 $\mu$ m (range $\geq$ 1000 $\mu$ m)	
Repeatability	1 $\mu$ m (range 0~1000 $\mu$ m)	
	10 $\mu$ m (range $\geq$ 1000 $\mu$ m)	
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	2x1.5V AA batteries	
Dimension of main unit	122x65x22mm	
Weight of main unit	150g	


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

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

connected to probe


 main unit  
ISO-2000FN


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

## COATING THICKNESS GAGE

main unit  
ISO-3000FN



probe interface

magnetic induction and eddy current integrated probe (optional)  
ISO-3000FN-52DS



probe can rotate 0~90°, suitable for inclined surfaces, grooves and bore surfaces

magnetic induction probe (optional), for bores and grooves  
ISO-3000FN-3T



Software for PC (included), connected to PC by wireless, upload the memory to PC

DATA OUTPUT

FOR MAGNETIC AND NON-MAGNETIC SUBSTRATES



VIDEO



- 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
- Low and high limits with judgement
- Two points calibration
- Memory of 10000 measurement values for browsing and output
- Power off automatically



software CD (included)

### MAIN UNIT SPECIFICATION

Code	ISO-3000FN
Accuracy	±1µm (range<100µm) ±(1%L)µm (range 100~1000µm) ±(3%L)µm (range 1000~2000µm) ±(5%L)µm (range>2000µm) L is measuring thickness in µm
Resolution	0.1µm (range<100µm) 1µm (range 100~1000µm) 10µm (range>1000µm)
Repeatability	1µm (range<1000µm) 10µm (range>1000µm)
Measuring mode	single and continuous
Calibration mode	two points calibration
Minimum substrate thickness	magnetic induction (Fe): 0.3mm eddy current (NFe): 0.05mm
Output	wireless
Power supply	3×1.5V AA battery
Dimension	198×92×35mm
Weight	265g

### PROBE (OPTIONAL) SPECIFICATION

Code	ISO-3000FN-52DS	ISO-3000FN-3T
Measuring range	magnetic induction probe (Fe)	0~5000µm
	eddy current probe (NFe)	0~2500µm
Minimum measuring area		Ø6mm
Minimum curvature radius of workpiece	concave	38mm
	convex	6mm
		Ø3mm
		13mm
		2mm

### STANDARD DELIVERY

Main unit	1pc
Zero calibration block for Fe probe	1pc
Zero calibration block for NFe probe	1pc
USB wireless receiver and software	1pc
Standard foil	2pcs
1.5V AA battery	3pcs



USB wireless receiver (included)



standard foils (included)

### OPTIONAL DELIVERY

Magnetic induction and eddy current integrated probe	ISO-3000FN-52DS
Magnetic induction probe (for bores and grooves)	ISO-3000FN-3T

## COATING THICKNESS GAGE CODE ISO-5000F

probe can rotate 0~90°, suitable for inclined surfaces, grooves and bore surfaces



FOR MAGNETIC SUBSTRATES



VIDEO



- 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)
- Two points calibration
- Probe can rotate 0~90°, suitable for inclined surfaces, grooves and bore surfaces
- Power off automatically

### STANDARD DELIVERY

Main unit	1pc
Zero calibration block for Fe probe	1pc
Standard foil	2pcs
1.5V AA battery	1pc



standard foils (included)

### SPECIFICATION

Measuring range	0~5000µm	
Accuracy	±1µm (range<100µm) ±(1%L)µm (range 100~1000µm) ±(3%L)µm (range 1000~2000µm) ±(5%L)µm (range>2000µm) L is measuring thickness in µm	
Resolution	0.1µm (range<100µm) 1µm (range 100~1000µm) 10µm (range>1000µm)	
Repeatability	1µm (range<1000µm) 10µm (range>1000µm)	
Measuring mode	single	
Calibration mode	two points calibration	
Minimum substrate thickness	0.3mm	
Minimum measuring area	Ø8mm	
Minimum curvature radius of workpiece	concave	38mm
	convex	3mm
Power supply	1×1.5V AA battery	
Dimension	98×28×28mm	
Weight	72g	




 DATA  
OUTPUT

 FOR MAGNETIC AND  
NON-MAGNETIC SUBSTRATES

 Software for PC (included),  
connected to PC by Bluetooth,  
upload the memory to PC

 Android APP (included),  
connected to mobile  
device by Bluetooth,  
display measurement  
value and data statistics


VIDEO

 probe can rotate 0–90°,  
suitable for inclined surfaces,  
grooves and bore surfaces

**COATING THICKNESS GAGE  
CODE ISO-5000FN**


- Integrated with magnetic-induction probe (Fe) and eddy current probe (NFe), switch to the suitable probe automatically according to the material to be measured
- 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
- Two points calibration
- Probe can rotate 0–90°, suitable for inclined surfaces, grooves and bore surfaces
- Memory of 500 measurement values for browsing and output
- Power off automatically


 software CD  
(included)

 standard foils  
(included)

**STANDARD DELIVERY**

Main unit	1pc
Zero calibration block for Fe probe	1pc
Zero calibration block for NFe probe	1pc
USB wireless receiver and software	1pc
Standard foil	2pcs
1.5V AA battery	1pc

**SPECIFICATION**

Measuring range	magnetic induction probe (Fe)	0–5000µm
	eddy current probe (NFe)	0–2000µm
Accuracy		±1µm (range<100µm)
		±(1%L)µm (range 100~1000µm)
		±(3%L)µm (range 1000~2000µm)
		±(5%L)µm (range>2000µm)
		L is measuring thickness in µm
Resolution		0.1µm (range<100µm)
		1µm (range 100~1000µm)
		10µm (range>1000µm)
Repeatability		1µm (range<1000µm)
		10µm (range>1000µm)
Measuring mode	single	
Calibration mode	two points calibration	
Minimum substrate thickness	magnetic induction probe (Fe):	0.3mm
	eddy current probe (NFe):	0.05mm
Minimum measuring area	Ø8mm	
Minimum curvature radius of workpiece	concave	38mm
	convex	3mm
Output	Bluetooth	
Power supply	1×1.5V AA battery	
Dimension	98x28x28mm	
Weight	72g	

- 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
- Calculate average value automatically

 MEASURE NON-MAGNETIC COATING  
ON MAGNETIC SUBSTRATES


VIDEO

**COATING THICKNESS GAGE  
CODE ISO-1500F**

 software CD  
(included)

 zero calibration  
block (included)

 calibration foil  
(included)


printer (optional)

**SPECIFICATION**

Measuring range	0–1500µm	
Accuracy	±(2%L+2)µm L is measuring thickness in µm	
Resolution		0.1µm (range<1000µm)
		1µm (range≥1000µm)
Repeatability		±1µm (range<100µm)
		±(1%L)µm (range≥100µm)
		L is measuring thickness in µm
Measuring mode	continuous and single	
Calibration mode	zero calibration, one point calibration, two points calibration	
Minimum substrate thickness	0.5mm	
Minimum measuring area	10×10mm	
Minimum curvature radius of workpiece	concave	30mm
	convex	5mm
Output	USB	
Memory	1200	
Power supply	3×1.5V AAA batteries (power off automatically)	
Dimension	88×67×30mm	
Weight	120g	

**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

**OPTIONAL ACCESSORY**

Printer	ISH-DS-PRINTER
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**MEASURE NON-MAGNETIC COATING ON MAGNETIC SUBSTRATES**



eddy current probe Ne (optional) with zero calibration block



zero calibration block for Fe (included)



calibration foils (included)



VIDEO



magnetic induction probe Fe (included)

- 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<50µm) 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
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VIDEO



**CROSS CUT ADHESION TESTER CODE ISQ-PK100**

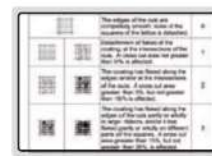
- To test the adhesion of paint coating on metal, wood, plastic, etc.
- According to ISO 2409, ASTM D3359, DIN53151



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

**STANDARD DELIVERY**

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



test tape (included) ISQ-PK100-1



1mm pitch blade (included)



2mm pitch blade (included)



3mm pitch blade (included)



2X magnifier (included)



brush (included)