

### ROUGHNESS TESTER (COMPACT TYPE) CODE ISR-C200













- The product is light, reliable and durable
- 13 roughness parameters
- Can be operated by mobile phones (only Android system) or computers
- Measurement results can be exported in Excel and PDF format
- Memory of 18000 measurements with only parameters or 30 measurements with graph
- Automatic power off



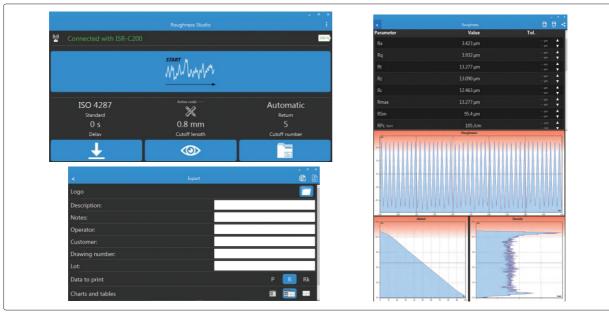
probe can be set at 90°, for transverse measurement



probe cover (included)



adjustable stand (included)



measuring software (included), connect to mobile phones via bluetooth (only Android system) to control roughness tester, or connect to computers via USB cable or bluetooth to control roughness tester, display roughness values and curve, results can be exported in Excel and PDF format

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## +INSIZE+

#### Continued from previous page

#### magnetic stand adapter (included)



# Unit: mm A Solution A Can be installed on height gauges

dial test indicator holder (optional)

#### **SPECIFICATION**

Parameters		Ra, Rq, Rt, Rz, Rc, Rmax, RSm, Rpc, Pt, R, AR, Rx, Ppc	
Range X axis		17.5mm	
italige	Z axis	250µm	
Accurac	;y	±(5%+0.025)µm	
Resolution (Ra)		0.001µm	
type		inductive	
Probe	stylus radius/angle	2μm/90°	
	stylus material	diamond	
Measuri	ng unit	μm/μin	
Cut off		0.25/0.8/2.5mm	
Number of cut-off		1~5	
Moving	speed	0.5mm/s, 1mm/s	
Memory		18000 measurements with only parameters, 30 measurements with graph	
Power supply		built-in rechargeable battery	
Dimension (L×W×H)		160×34×33.5mm	
Weight		200g	

#### STANDARD DELIVERY

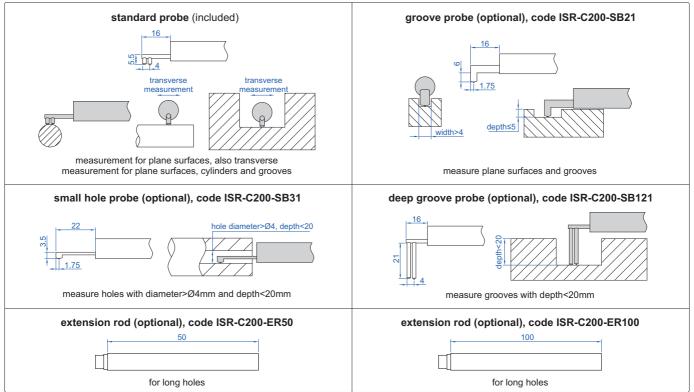
Main unit	1 pc
Standard probe	1 pc
Calibration block	1 pc
Adjustable stand	1 pc
Probe cover	1 pc
Magnetic stand adapter	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

#### **OPTIONAL ACCESSORY**

Dial test indicator holder	6293-6
Groove probe	ISR-C200-SB21
Small hole probe	ISR-C200-SB31
Deep groove probe	ISR-C200-SB121
Extension rod	ISR-C200-ER50
Extension rod	ISR-C200-ER100

#### SPECIFICATION OF PROBES

Unit: mm





### ROUGHNESS TESTER CODE ISR-C002

BLUETOOTH

DATA OUTPUT CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS



- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Support bluetooth printer
- 21 roughness parameters
- Display roughness value, profile and curve
- Memory of maximum 100 results
- Automatic power off



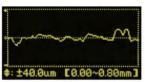


software flash disk (included)

#### screen display



measurement result



roughness profile



Rmr analysis

#### probe cover (included)



adjustable stand (included)



operate roughness tester by mobile phones



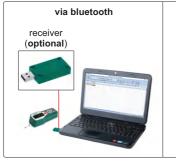
connect to mobile phones via bluetooth (only Android system), display roughness values, profile and curve

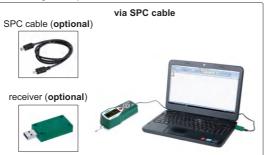
operate roughness tester by computers



display roughness values, profile and curve

#### data can be sent to Excel by connecting to computer via bluetooth or SPC cable





bluetooth printer (optional)



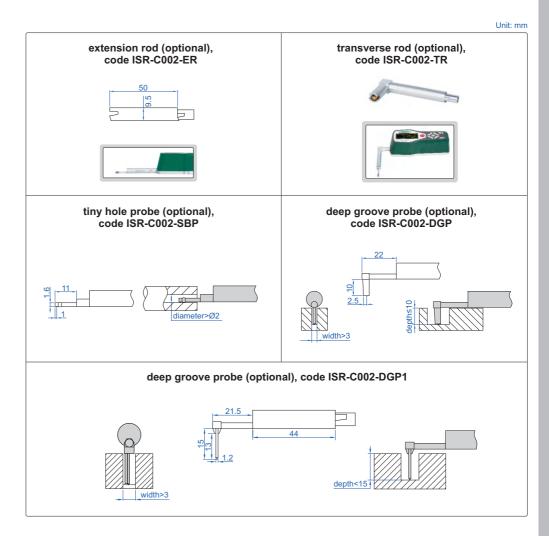


#### light duty test stand (optional)



#### heavy duty test stand (optional)





#### **SPECIFICATION**

SPECIFICATION		
Parameters		Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax
Range		320μm (-160μm~160μm)
Accura	су	±10%
Resolu	tion (Ra)	0.001µm
	type	inductive
Probe	stylus radius/angle	5μm/90°
	stylus material	diamond
Measur	ing force	4mN
Measur	ing unit	μm/μin
Cut off		0.25/0.8/2.5mm
Numbe	r of cut-off	1 to 5
Moving	speed	0.5mm/s, 1mm/s
Memory		100 measurement results
Output		bluetooth and USB
Power supply		built-in rechargeable battery
Dimension (L×W×H)		141×55×40mm
Weight		400g

#### STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

#### **OPTIONAL ACCESSORY**

Extension rod	ISR-C002-ER
Transverse rod	ISR-C002-TR
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Deep groove probe	ISR-C002-DGP1*
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND
Bluetooth printer	ISR-C002-PRINTER
Receiver	ISR-C300-RECEIVER
SPC cable	ISR-C300-SPC

\*Need to be delivered with roughness tester ISR-C002



#### **ROUGHNESS TESTER (SEPARABLE TYPE)**

BLUETOOTH

TOUCH SCREEN

CAN BE OPERATED BY COMPUTERS OR MOBILE PHONES







- Roughness tester can be operated by mobile phones or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Support bluetooth printer
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Touch screen
- Automatic power off



Unit: mm cable length: 1000 115×23 (length×width)

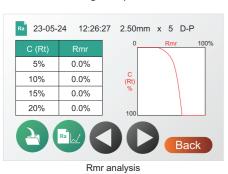
#### roughness tester screen display



measurement result



roughness profile





probe and main unit can be combined together



operate roughness tester by mobile phones



connect to mobile phones via bluetooth display roughness values, profile and curve



software flash disk (included)



bluetooth printer (optional)

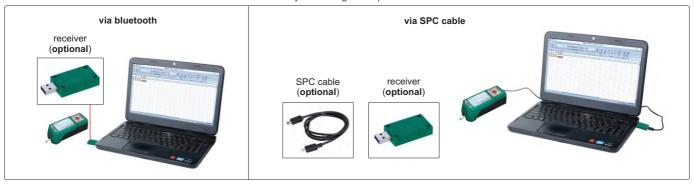
operate roughness tester by computers

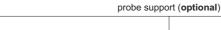


connect to computers via USB cable (software is included), display roughness values, profile and curve



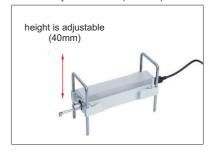
data can be sent to Excel by connecting to computer via bluetooth or SPC cable



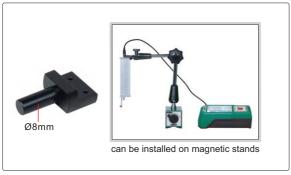




#### adjustable stand (included)



magnetic stand adapter (included)



height gauge adapter (optional)



NOTE: Please check whether the adapter can fit your height gauges. When using INSIZE height gauges, please use the dial test indicator holder of height gauges

light duty test stand (optional)

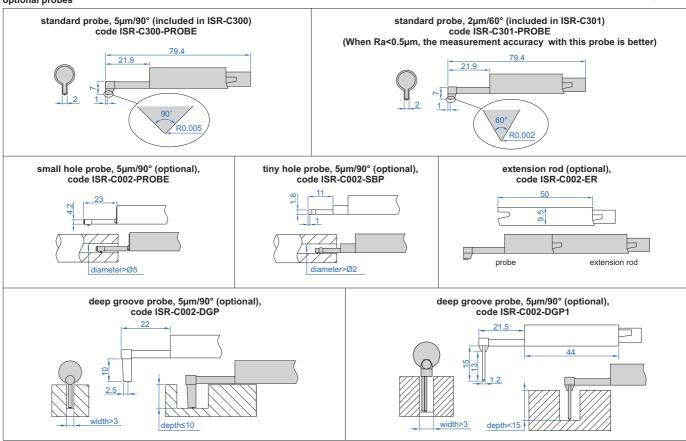


heavy duty test stand (optional)





optional probes Unit: mm



#### **SPECIFICATION**

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Code		ISR-C300	ISR-C301
Measuring force		4mN	0.75mN
Stylus radius/angle		5μm/90°	2μm/60°
Parameters		Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax	
Probe type		inductive	
Stylus material		diamond	
Range	X axis	17.5mm	
Z axis		320µm (-160µm~160µm)	
Accuracy		±10%	
Resolution (Ra)		0.001µm	
Measuring unit		μm/μin	
Cut off		0.25/0.8/2.5mm	
Number o	of cut-offs	1~5	
Moving s	peed	0.135mm/s, 0.5mm/s, 1mm/s	
Memory		100 measurement results	
Output		USB and bluetooth	
Power supply		built-in rechargeable battery	
Dimension (L×W×H)		158×64×52mm	
Weight		400g	

#### STANDARD DELIVERY

Main unit	1 pc
Standard probe (included in ISR-C300)	1 pc
Standard probe (included in ISR-C301)	1 pc
Calibration block and support	1 pc of each
Connecting cable (long and short)	1 pc of each
Magnetic stand adapter	1 pc
Adjustable stand	1 pc
Touch pen	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

#### **OPTIONAL ACCESSORY**

ISR-C002-ER
ISR-C002-PROBE
ISR-C002-SBP
ISR-C002-DGP
ISR-C002-DGP1*
ISR-C301-PROBE
ISR-C300-PROBE
ISR-C002-PRINTER
ISR-C300-LB1
ISR-C300-RECEIVER
ISR-C300-SPC
ISR-C300-COVER1
ISR-C300-COVER2
ISR-C002-STAND1
ISR-C002-STAND

<sup>\*</sup>Need to be delivered with roughness tester ISR-C300





BLUETOOTH

**TOUCH SCREEN** 

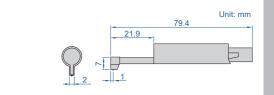
CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS

#### **ROUGHNESS TESTER CODE ISR-T120**



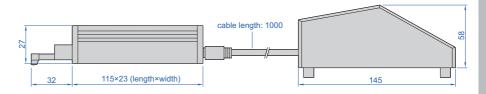


- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable
- Built-in printer can print measurement results and graphics
- 22 roughness parameters
- Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve
- Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Automatic power off



#### roughness tester screen display

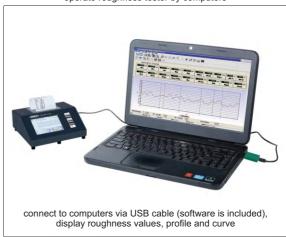




operate roughness tester by mobile phones

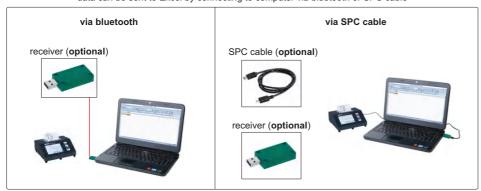


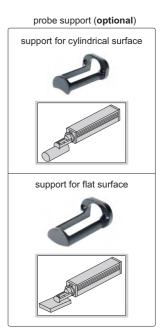
operate roughness tester by computers



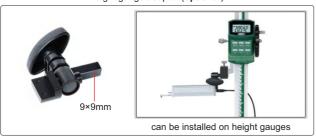


data can be sent to Excel by connecting to computer via bluetooth or SPC cable





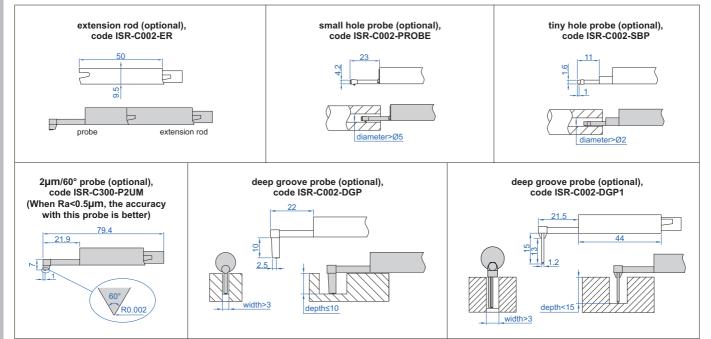




NOTE: Please check whether the adapter can fit your height gauges. When using INSIZE height gauges, please use the dial test indicator holder of height gauges

# magnetic stand adapter (included) Ø8mm can be installed on magnetic stands

optional probes Unit: mm



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light duty test stand (optional)





#### **SPECIFICATION**

Parameters		Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax
Range	X axis	17.5mm
Range	Z axis	640μm (-320μm~320μm)
Accuracy		±10%
Resolution (Ra)		0.001μm
	type	inductive
Probe	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring	force	4mN
Measuring	unit	μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1~5
Traverse s	peed	0.135mm/s, 0.5mm/s, 1mm/s
Memory		100 measurement results
Output		bluetooth and USB
Power supply		built-in rechargeable battery
Dimension (L×W×H)		155×145×58mm
Weight		1000g

#### STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Magnetic stand adapter	1 pc
Adjustable stand	1 pc
Touch pen	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

#### **OPTIONAL ACCESSORY**

	100 0000 00
Extension rod	ISR-C002-ER
Small hole probe	ISR-C002-PROBE
Tiny hole probe	ISR-C002-SBP
2μm/60° probe	ISR-C300-P2UM
Deep groove probe	ISR-C002-DGP
Deep groove probe	ISR-C002-DGP1*
Height gauge adapter	ISR-C300-LB1
Receiver	ISR-C300-RECEIVER
SPC cable	ISR-C300-SPC
Support for flat surface	ISR-C300-COVER1
Support for cylindrical surface	ISR-C300-COVER2
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND

<sup>\*</sup>Need to be delivered with roughness tester ISR-T120



#### **ROUGHNESS TESTER (BASIC TYPE) CODE ISR-C003**

- Unit: μm, μin
- Automatic power off

#### **SPECIFICATION**

	0. 20 10.11.011				
Parameters*		Ra, Rz, Rq, Rt			
Range		Ra, Rq: 0.05~15µm Rz, Rt: 0.1~50µm			
Accuracy		±10%			
Resolution (Ra)		0.01µm			
Probe	type	piezoelectric			
	stylus radius/angle	10μm/90°			
	stylus material	diamond			
Measur	ing force	5mN			
Measuring unit		μm/μin			
Cut off		0.25/0.8/2.5mm			
Evaluation length		1.25mm for cut off 0.25mm 4mm for cut off 0.8mm 5mm for cut off 2.5mm			
Moving	speed	0.75mm/s			
Power supply		built-in rechargeable battery			
Dimension (L×W×H)		106×70×24mm			
Weight		200g			
<u> </u>					

<sup>\*</sup>Rmax parameter can be customized

#### STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
AC/DC adapter	1 pc

ATTENTION: THIS ROUGHNESS TESTER IS NOT SUITABLE FOR ROUGH TURNING, MILLING AND PLANING WORKPIECES





fixture for small shafts (optional)





calibration block (included)

#### **OPTIONAL ACCESSORY**

Fixture for small shafts

ISR-C003-FIXTURE

#### SURFACE ROUGHNESS SPECIMEN SET **CODE ISR-CS130-W**

MADE IN EUROPE

- For checking, identifying and specifying the roughness by symbolRust-proof, made of pure Nickel

Machining method	Roughness (Ra) *	Roughness (Rz)*	Quantity
Flat lapping	0.05, 0.1, 0.2μm	0.55 1 1 6um	3 pcs
гіат іарріпу	2, 4, 8µin	0.55, 1, 1.6µm	
Reaming	0.4, 0.8, 1.6μm	2 6 10um	3 pcs
Realiling	16, 32, 63µin	3, 6, 10µm	
Plain grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm	0.55, 1, 1.6, 3,	6 pcs
Flain grinding	2, 4, 8, 16, 32, 63µin	6, 10μm	
Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	2.5, 4, 8, 16, 32,	6 pcs
Horizoniai milling	16, 32, 63, 125, 250, 500µin	50µm	
Vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	2.5, 4, 8, 16, 32,	6 pcs
vertical milling	16, 32, 63, 125, 250, 500µin	50µm	
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	2.5, 4, 8, 16, 32, 50µm	6 pcs
ruming	16, 32, 63, 125, 250, 500µin		

<sup>\*</sup>The actual value is the value to be calibrated



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