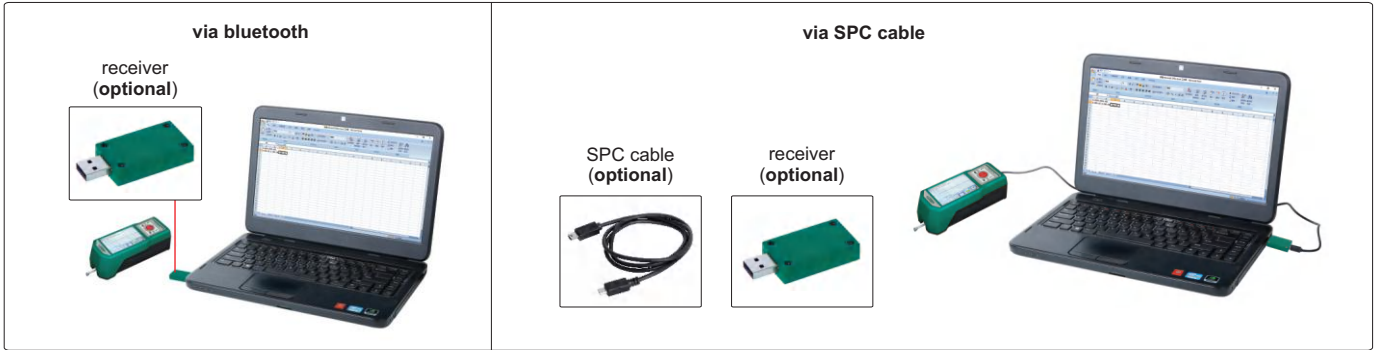
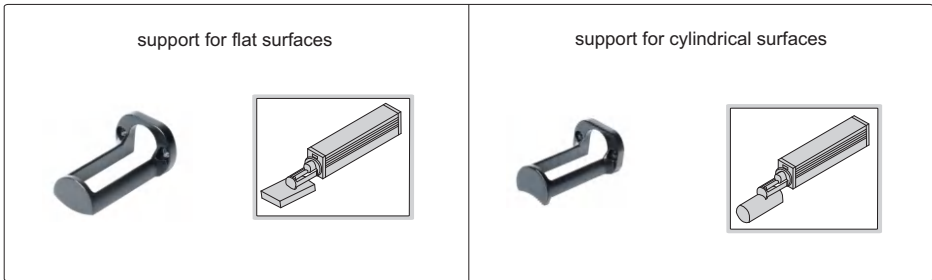


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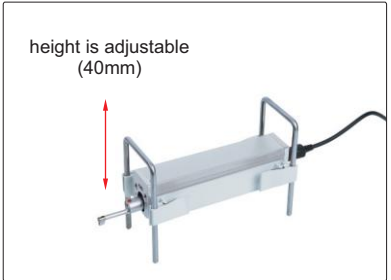
data can be sent to Excel by connecting to computer via bluetooth or SPC cable



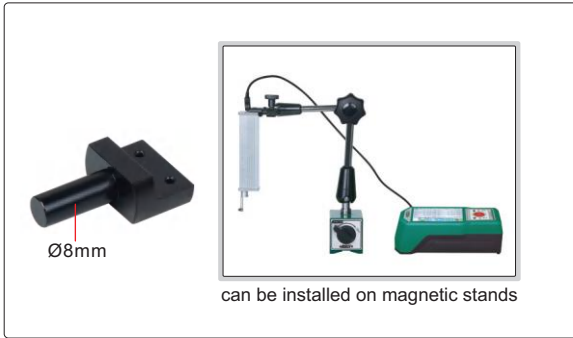
probe support (optional)



adjustable stand (included)



magnetic stand adapter (included)

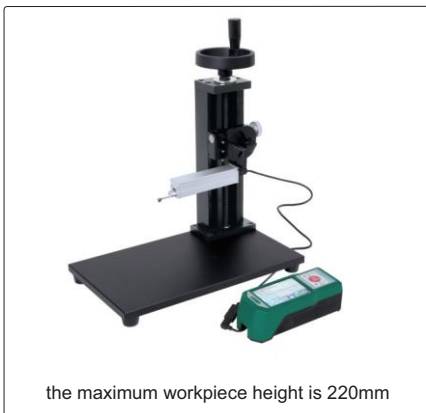


height gauge adapter (optional)



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

light duty test stand (optional)



heavy duty test stand (optional)

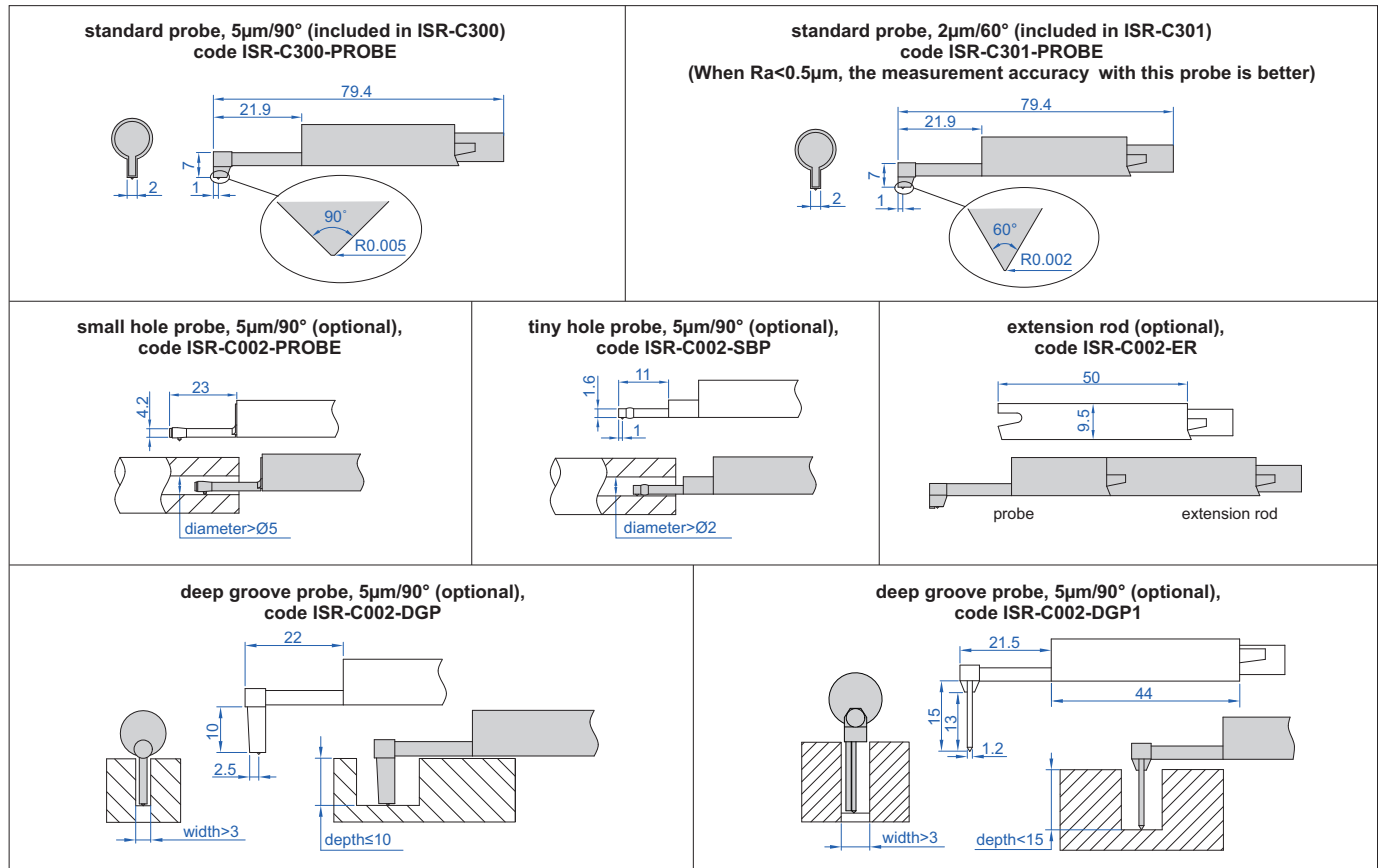


To be continued

Continued from previous page

optional probes

Unit: mm



SPECIFICATION

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 of cut-offs	1~5	
Moving speed	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

Extension rod	ISR-C002-ER
Small hole probe	ISR-C002-PROBE
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Deep groove probe	ISR-C002-DGP1*
Standard probe	ISR-C301-PROBE
Standard probe	ISR-C300-PROBE
Bluetooth printer	ISR-C002-PRINTER
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

*Need to be delivered with roughness tester ISR-C300

DATA OUTPUT

BLUETOOTH

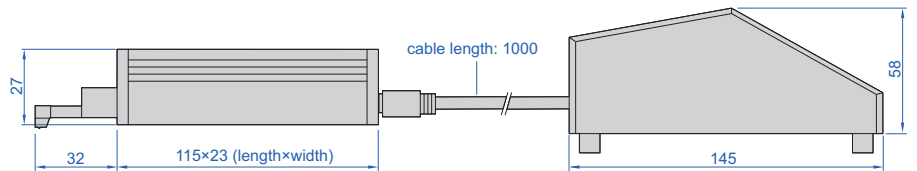
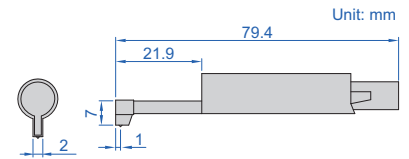
TOUCH SCREEN

CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS

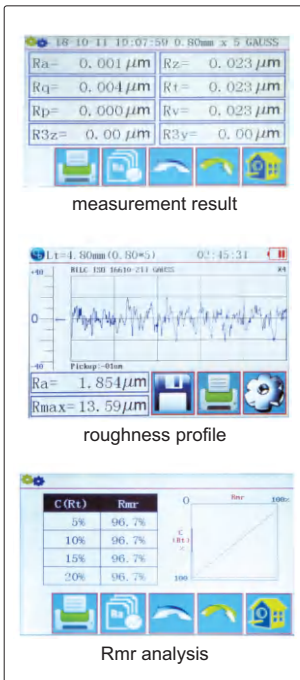
ROUGHNESS TESTER CODE ISR-T120



- 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



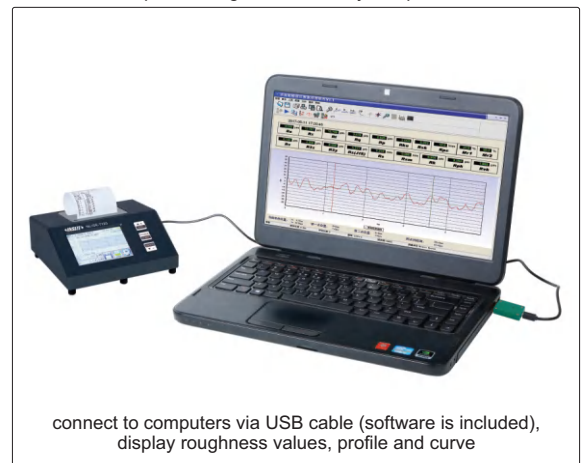
roughness tester screen display



operate roughness tester by mobile phones






operate roughness tester by computers



To be continued

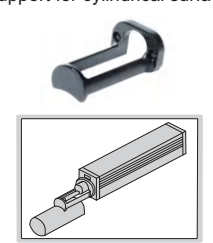
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data can be sent to Excel by connecting to computer via bluetooth or SPC cable

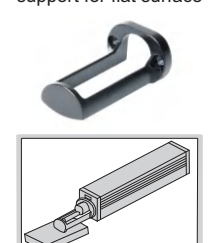
<p>via bluetooth</p> <p>receiver (optional)</p> 	<p>via SPC cable</p> <p>SPC cable (optional)</p>  <p>receiver (optional)</p> 
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probe support (optional)


support for cylindrical surface




support for flat surface



height gauge adapter (optional)




9x9mm




can be installed on height gauges

magnetic stand adapter (included)



Ø8mm

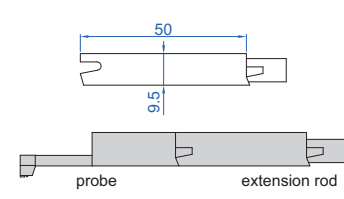
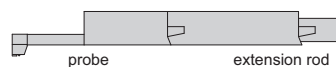
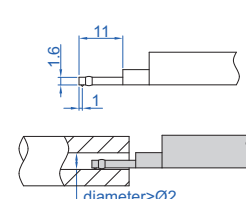
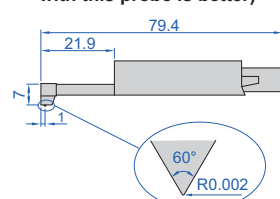
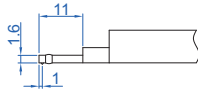
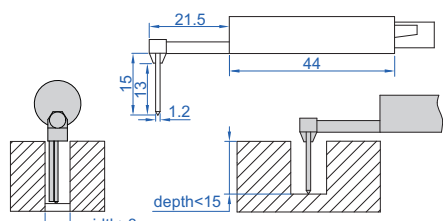


can be installed on magnetic stands

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

optional probes

Unit: mm

<p>extension rod (optional), code ISR-C002-ER</p>  <p>probe extension rod</p>	<p>small hole probe (optional), code ISR-C002-PROBE</p>  <p>diameter > Ø5</p>	<p>tiny hole probe (optional), code ISR-C002-SBP</p>  <p>diameter > Ø2</p>
<p>2µm/60° probe (optional), code ISR-C300-P2UM (When Ra < 0.5µm, the accuracy with this probe is better)</p> 	<p>deep groove probe (optional), code ISR-C002-DGP</p>  <p>width > 3 depth ≤ 10</p>	<p>deep groove probe (optional), code ISR-C002-DGP1</p>  <p>width > 3 depth < 15</p>

To be continued

Continued from previous page

light duty test stand (optional)



heavy 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
	Z axis	640µm (-320µm~320µm)
Accuracy		±10%
Resolution (Ra)		0.001µm
Probe	type	inductive
	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 speed		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

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

*Need to be delivered with roughness tester ISR-T120

ROUGHNESS TESTER (BASIC TYPE) CODE ISR-C003

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

- Unit: μm , μin
- Automatic power off



SPECIFICATION

Parameters*		Ra, Rz, Rq, Rt
Range		Ra, Rq: 0.05~15 μm Rz, Rt: 0.1~50 μm
Accuracy		$\pm 10\%$
Resolution (Ra)		0.01 μm
Probe	type	piezoelectric
	stylus radius/angle	10 $\mu\text{m}/90^\circ$
	stylus material	diamond
Measuring force		5mN
Measuring unit		$\mu\text{m}/\mu\text{in}$
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

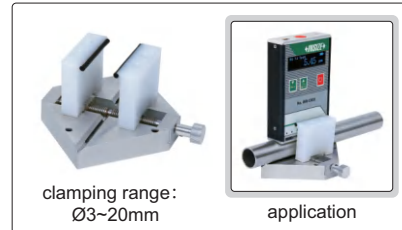
* Rmax parameter can be customized

STANDARD DELIVERY

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



fixture for small shafts (optional)



clamping range:
 $\varnothing 3\sim 20\text{mm}$

application



calibration block (included)

OPTIONAL ACCESSORY

Fixture for small shafts	ISR-C003-FIXTURE
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SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS130-W

INSIZE PLUS
MADE IN EUROPE

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



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

* The actual value is the value to be calibrated

ATTENTION: PLEASE APPLY ANTI-RUST OIL AFTER USE

SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS2

- For checking, identifying and specifying the roughness by symbol
- Made of carbon steel

Machining method	Roughness (Ra) *	Roughness (Rz) *	Quantity
Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	6 pcs
Vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	6 pcs
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	6 pcs
Plain grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm	0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm	6 pcs
Flat lapping	0.05, 0.1µm	0.2, 0.4µm	2 pcs
External grinding	0.2, 0.4, 0.8, 1.6µm	0.8, 1.6, 3.2, 6.3µm	4 pcs

* The actual value is the value to be calibrated



SURFACE ROUGHNESS SPECIMENS

INSIZE PLUS
MADE IN EUROPE

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



ISR-CS315

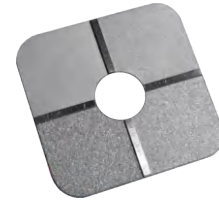
Code	Machining method	Roughness (Ra) *	Roughness (Rz) *	Quantity
ISR-CS315	surface grinding	0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.29, 0.55, 0.91, 1.74, 2.6, 4.65, 7.87, 15.6µm	8 pcs
ISR-CS316	cylindrical grinding	0.025, 0.05, 0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.3, 0.53, 0.88, 1.56, 2.64, 4.4, 7.71, 15.3µm	8 pcs
ISR-CS317	flat lapping	criss-cross	0.025, 0.05, 0.1, 0.2µm	0.4, 0.6, 0.74, 1.26µm
		parallel	0.025, 0.05, 0.1, 0.2µm	0.34, 0.56, 1.12, 1.5µm
ISR-CS318	cylindrical lapping	0.025, 0.05, 0.1, 0.2µm	0.46, 0.54, 0.63, 1.23µm	4 pcs
	superfinishing	0.025, 0.05, 0.1, 0.2µm	0.36, 0.7, 1, 1.4µm	4 pcs
ISR-CS319	face turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.92, 3.2, 6.15, 12.5, 23.7, 48.7, 102, 185µm	8 pcs
ISR-CS320	cylindrical turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.7, 3.2, 6.1, 12.2, 23.7, 47.5, 95, 190µm	8 pcs
ISR-CS321	end milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.92, 3.82, 6.45, 12.2, 25.2, 49.8, 92.6, 191µm	8 pcs
ISR-CS322	reaming	0.4, 0.8, 1.6, 3.2µm	1.7, 3.2, 6.4, 12.8µm	4 pcs
	drilling	1.6, 3.2, 6.3, 12.5µm	7.5, 15.5, 31, 60µm	4 pcs
ISR-CS323	horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	1.8, 3.68, 6.63, 12.8, 25.6, 53, 97.5, 197µm	8 pcs
ISR-CS325	shaping (planing)	0.8, 1.6, 3.2, 6.3, 12.5, 25, 50, 100µm	3.84, 6.7, 12.2, 25.2, 48.7, 99.9, 190, 361µm	8 pcs
ISR-CS326	linishing (belt sanding)	0.1, 0.2, 0.4, 0.8, 1.6, 3.2µm	0.9, 1.55, 3.37, 7.42, 18.5, 31µm	6 pcs
ISR-CS328	vertical grinding	0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm	1.1, 3.5, 6.15, 8.78, 22.19, 40.8µm	6 pcs
ISR-CS329	grit blasting	3.2, 10.5, 18, 25µm	19.2, 63, 108, 150µm	4 pcs
	shot blasting	3.2, 8, 13, 18µm	19.2, 48, 78, 108µm	4 pcs
ISR-CS331	spark erosion (EDM)	0.4, 0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	2.5, 4.5, 7.2, 14.2, 24.7, 51.2, 105, 196µm	8 pcs
ISR-CS333	hand filing	0.4, 0.8, 1.6, 3.2, 6.3µm	3, 5.6, 12.4, 22.5, 61µm	5 pcs
ISR-CS334	castings	0.8, 1.6, 3.2, 6.3, 12.5, 25, 50µm	3.2, 8, 16, 32, 56, 112, 225µm	7 pcs
ISR-CS335	honing	0.05, 0.1, 0.2, 0.4, 0.8, 1.6µm	0.31, 0.56, 1, 2, 4.2, 9µm	6 pcs
ISR-CS336	polishing	0.0125, 0.025, 0.05, 0.1, 0.2µm	0.29, 0.35, 0.67, 0.72, 1.52µm	5 pcs

* The actual value is the value to be calibrated

SHOT AND GRIT BLASTING SURFACE ROUGHNESS SPECIMENS

INSIZE PLUS
MADE IN EUROPE

- 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

* The actual value is the value to be calibrated

SURFACE ROUGHNESS REFERENCE SPECIMENS

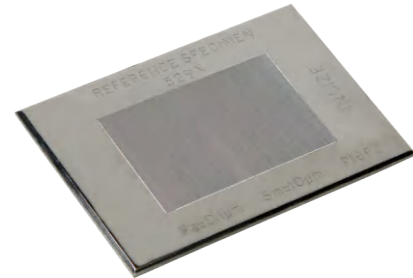
INSIZE PLUS
MADE IN EUROPE

MEASURING ACCURACY OF ROUGHNESS TESTERS CAN BE IMPROVED, IF THE CALIBRATION IS MADE ON A REFERENCE SPECIMEN WITH THE ROUGHNESS VALUE CLOSE TO THE WORKPIECE TO BE MEASURED

- To calibrate roughness testers
- Meets ISO 5436-1: 2000
- Rust proof, made of pure Nickel

Code	Roughness (Ra)
ISR-RS525X	6.25µm *
ISR-RS526X	3.15µm *
ISR-RS527X	3.0µm *
ISR-RS528X	0.5µm *
ISR-RS529X	0.1µm *
ISR-RS530X	1.0µm *
ISR-RS531X	0.3µm *

* The actual value may be slightly different



ISR-RS529X

SURFACE ROUGHNESS REFERENCE SPECIMENS

MEASURING ACCURACY OF ROUGHNESS TESTERS CAN BE IMPROVED, IF THE CALIBRATION IS MADE ON A REFERENCE SPECIMEN WITH THE ROUGHNESS VALUE CLOSE TO THE WORKPIECE TO BE MEASURED

- To calibrate roughness testers
- Made of glass

Code	Roughness (Ra)	Deviation *	Uniformity
ISR-LS601	0.1µm	-20% ~ +10%	3%
ISR-LS602	0.2µm	±10%	3%
ISR-LS603	0.4µm	±10%	3%
ISR-LS604	0.8µm	±10%	3%
ISR-LS605	1.6µm	±10%	3%
ISR-LS606	3.2µm	±10%	2%
ISR-LS607	6.4µm	±10%	2%

* Deviation between the actual value when supply and the nominal value



ISR-LS603



CMM
Page 607-612



Measuring Arms
Page 613-615



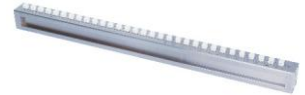
Styli For CMM
Page 616-617



Ceramic Ball Gauges
Page 617-618



Gauge Block Stands For CMM
Page 618



CMM Check Masters
Page 619-621



Jigs For CMM
Page 622-628

COORDINATE MEASURING MACHINES (LARGE RANGE)



FEATURES

- Classic bridge structure, integrated workbench
- High precision air bearing
- Special non-linear spring system to minimize guide way error

RENISHAW SYSTEMS

- Precision grating system, including grating and data acquisition device
- UCC control system, including control box and manual operator
- Probe system, including probe head, probe body and styli



CMM-PM10128A

Visual DMIS CNC CAD+ SOFTWARE

- The software is designed and developed based on the DMIS standard, with excellent compatibility and versatility
- Geometric element measurement, evaluation of shape and position
- Bidirectional data transfer with mainstream CAD systems, complete graphical display
- Optional specialized modules, such as gear module, worm module, pipeline module, blade module, SPC data analysis module, etc.

STANDARD ACCURACY (PM SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (μm)	MPEP			
CMM-PM686A	600×800×600mm	PH10T	TP20	±(2.1+L/300)	2.4μm	800kg	1485×1800×2730	1650
CMM-PM686B		PH10M	SP25M	±(1.5+L/300)	1.5μm			
CMM-PM8127A	800×1200×700mm	PH10T	TP20	±(2.3+L/300)	2.6μm	1000kg	1685×2200×2900	2600
CMM-PM8127B		PH10M	SP25M	±(1.7+L/300)	1.7μm			
CMM-PM8157A	800×1500×700mm	PH10T	TP20	±(2.3+L/300)	2.6μm	1000kg	1685×2500×2930	3000
CMM-PM8157B		PH10M	SP25M	±(1.7+L/300)	1.7μm			
CMM-PM10128A	1000×1200×800mm	PH10T	TP20	±(2.7+L/300)	3.0μm	1500kg	1885×2200×3130	2900
CMM-PM10128B		PH10M	SP25M	±(2.1+L/300)	2.1μm			
CMM-PM10158A	1000×1500×800mm	PH10T	TP20	±(2.7+L/300)	3.0μm	1500kg	1885×2500×3130	3300
CMM-PM10158B		PH10M	SP25M	±(2.1+L/300)	2.1μm			
CMM-PM10228A	1000×2200×800mm	PH10T	TP20	±(2.7+L/300)	3.0μm	1800kg	1885×3580×3130	4200
CMM-PM10228B		PH10M	SP25M	±(2.1+L/300)	2.1μm			
CMM-PM10258A	1000×2500×800mm	PH10T	TP20	±(2.7+L/300)	3.0μm	1800kg	1885×3880×3070	5200
CMM-PM10258B		PH10M	SP25M	±(2.1+L/300)	2.1μm			
CMM-PM10308A	1000×3000×800mm	PH10T	TP20	±(2.7+L/300)	3.0μm	1800kg	1885×4380×3070	5900
CMM-PM10308B		PH10M	SP25M	±(2.1+L/300)	2.1μm			
CMM-PM121510A	1200×1500×1000mm	PH10T	TP20	±(3.1+L/300)	3.4μm	2000kg	2085×2500×3530	3600
CMM-PM121510B		PH10M	SP25M	±(2.5+L/300)	2.5μm			

To be continued

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STANDARD ACCURACY (PM SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (µm)	MPEP			
CMM-PM12210A	1200×2200×1000mm	PH10T	TP20	±(3.1+L/300)	3.4µm	2000kg	2085×3580×3530	4600
CMM-PM12210B		PH10M	SP25M	±(2.5+L/300)	2.5µm			
CMM-PM122510A	1200×2500×1000mm	PH10T	TP20	±(3.1+L/300)	3.4µm	2000kg	2085×3880×3470	5500
CMM-PM122510B		PH10M	SP25M	±(2.5+L/300)	2.5µm			
CMM-PM123010A	1200×3000×1000mm	PH10T	TP20	±(3.1+L/300)	3.4µm	2000kg	2085×4380×3470	6500
CMM-PM123010B		PH10M	SP25M	±(2.5+L/300)	2.5µm			
CMM-PM152210A	1500×2200×1000mm	PH10T	TP20	±(3.5+L/300)	3.8µm	2200kg	2385×3580×3470	5900
CMM-PM152210B		PH10M	SP25M	±(2.9+L/300)	2.9µm			
CMM-PM152510A	1500×2500×1000mm	PH10T	TP20	±(3.5+L/300)	3.8µm	2200kg	2385×3880×3470	6500
CMM-PM152510B		PH10M	SP25M	±(2.9+L/300)	2.9µm			
CMM-PM153010A	1500×3000×1000mm	PH10T	TP20	±(3.5+L/300)	3.8µm	2200kg	2385×4380×3470	7500
CMM-PM153010B		PH10M	SP25M	±(2.9+L/300)	2.9µm			
CMM-PM182510A	1800×2500×1000mm	PH10T	TP20	±(3.9+L/300)	4.2µm	2500kg	2685×3880×3470	7300
CMM-PM182510B		PH10M	SP25M	±(3.3+L/300)	3.3µm			
CMM-PM183010A	1800×3000×1000mm	PH10T	TP20	±(3.9+L/300)	4.2µm	2500kg	2685×4380×3470	8500
CMM-PM183010B		PH10M	SP25M	±(3.3+L/300)	3.3µm			
CMM-PM183510A	1800×3500×1000mm	PH10T	TP20	±(3.9+L/300)	4.2µm	2500kg	2685×4880×3470	9700
CMM-PM183510B		PH10M	SP25M	±(3.3+L/300)	3.3µm			
CMM-PM184010A	1800×4000×1000mm	PH10T	TP20	±(3.9+L/300)	4.2µm	2500kg	2685×5380×3470	10800
CMM-PM184010B		PH10M	SP25M	±(3.3+L/300)	3.3µm			

HIGH ACCURACY (PE SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (µm)	MPEP			
CMM-PE686A	600×800×600mm	PH10T	TP20	±(1.8+L/350)	2.0µm	800kg	1485×1800×2730	1650
CMM-PE686B		PH10M	SP25M	±(1.2+L/350)	1.2µm			
CMM-PE8127A	800×1200×700mm	PH10T	TP20	±(2.0+L/350)	2.2µm	1000kg	1685×2200×2900	2600
CMM-PE8127B		PH10M	SP25M	±(1.4+L/350)	1.4µm			
CMM-PE8157A	800×1500×700mm	PH10T	TP20	±(2.0+L/350)	2.2µm	1000kg	1685×2500×2930	3000
CMM-PE8157B		PH10M	SP25M	±(1.4+L/350)	1.4µm			
CMM-PE10128A	1000×1200×800mm	PH10T	TP20	±(2.3+L/350)	2.5µm	1500kg	1885×2200×3130	2900
CMM-PE10128B		PH10M	SP25M	±(1.7+L/350)	1.7µm			
CMM-PE10158A	1000×1500×800mm	PH10T	TP20	±(2.3+L/350)	2.5µm	1500kg	1885×2500×3130	3300
CMM-PE10158B		PH10M	SP25M	±(1.7+L/350)	1.7µm			
CMM-PE10228A	1000×2200×800mm	PH10T	TP20	±(2.3+L/350)	2.5µm	1800kg	1885×3580×3130	4200
CMM-PE10228B		PH10M	SP25M	±(1.7+L/350)	1.7µm			
CMM-PE10258A	1000×2500×800mm	PH10T	TP20	±(2.3+L/350)	2.5µm	1800kg	1885×3880×3070	5200
CMM-PE10258B		PH10M	SP25M	±(1.7+L/350)	1.7µm			
CMM-PE10308A	1000×3000×800mm	PH10T	TP20	±(2.3+L/350)	2.5µm	1800kg	1885×4380×3070	5900
CMM-PE10308B		PH10M	SP25M	±(1.7+L/350)	1.7µm			
CMM-PE121510A	1200×1500×1000mm	PH10T	TP20	±(2.7+L/350)	2.9µm	2000kg	2085×2500×3530	3600
CMM-PE121510B		PH10M	SP25M	±(2.1+L/350)	2.1µm			

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HIGH ACCURACY (PE SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (μm)	MPEP			
CMM-PE12210A	1200×2200×1000mm	PH10T	TP20	±(2.7+L/350)	2.9μm	2000kg	2085×3580×3530	4600
CMM-PE12210B		PH10M	SP25M	±(2.1+L/350)	2.1μm			
CMM-PE122510A	1200×2500×1000mm	PH10T	TP20	±(2.7+L/350)	2.9μm	2000kg	2085×3880×3470	5500
CMM-PE122510B		PH10M	SP25M	±(2.1+L/350)	2.1μm			
CMM-PE123010A	1200×3000×1000mm	PH10T	TP20	±(2.7+L/350)	2.9μm	2000kg	2085×4380×3470	6500
CMM-PE123010B		PH10M	SP25M	±(2.1+L/350)	2.1μm			
CMM-PE152210A	1500×2200×1000mm	PH10T	TP20	±(3.1+L/350)	3.3μm	2200kg	2385×3580×3470	5900
CMM-PE152210B		PH10M	SP25M	±(2.5+L/350)	2.5μm			
CMM-PE152510A	1500×2500×1000mm	PH10T	TP20	±(3.1+L/350)	3.3μm	2200kg	2385×3880×3470	6500
CMM-PE152510B		PH10M	SP25M	±(2.5+L/350)	2.5μm			
CMM-PE153010A	1500×3000×1000mm	PH10T	TP20	±(3.1+L/350)	3.3μm	2200kg	2385×4380×3470	7500
CMM-PE153010B		PH10M	SP25M	±(2.5+L/350)	2.5μm			
CMM-PE182510A	1800×2500×1000mm	PH10T	TP20	±(3.5+L/350)	3.7μm	2500kg	2685×3880×3470	7300
CMM-PE182510B		PH10M	SP25M	±(2.9+L/350)	2.9μm			
CMM-PE183010A	1800×3000×1000mm	PH10T	TP20	±(3.5+L/350)	3.7μm	2500kg	2685×4380×3470	8500
CMM-PE183010B		PH10M	SP25M	±(2.9+L/350)	2.9μm			
CMM-PE183510A	1800×3500×1000mm	PH10T	TP20	±(3.5+L/350)	3.7μm	2500kg	2685×4880×3470	9700
CMM-PE183510B		PH10M	SP25M	±(2.9+L/350)	2.9μm			
CMM-PE184010A	1800×4000×1000mm	PH10T	TP20	±(3.5+L/350)	3.7μm	2500kg	2685×5380×3470	10800
CMM-PE184010B		PH10M	SP25M	±(2.9+L/350)	2.9μm			

STANDARD DELIVERY

Main unit		1 pc
Probe system	probe head	1 pc
	probe body	1 pc
	styli	1 set
Control system		1 set
Calibration sphere		1 pc
Universal sphere seat		1 pc
Computer		1 pc
Printer		1 pc
Software		1 set
Table and chair		1 set

OPERATION ENVIRONMENT

Air pressure	0.6-0.8MPa
Air supply	200L/min
Temperature	20±2°C; <0.5°C/h, <1°C/24h
Humidity	30%~70%
Max. power	1000W
Power supply	220V±5%, 50Hz

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PH10T AND PH10M SPECIFICATION

Angular movement with horizontal axis	0°~105° in 7.5 steps
Angular movement with vertical axis	±180° in 7.5 steps
Number of positions	720
Steering mode	motorized
Max. output torque	0.45N.m
Max. extension length	300mm
Weight	649g

STYLI SET INCLUDED IN TP20

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball / stainless steel stem	SØ2.5mm	20mm	Ø1.4mm	14mm	4 pcs
		SØ4mm		Ø1.5mm	20mm	1 pc
		SØ3mm	10mm	Ø1.5mm	7.5mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø3mm	20mm	1 pc
		Ø3mm	30mm	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	7mm	7.5mm	1 pc

STYLI SET INCLUDED IN SP25M

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball/ stainless steel stem	SØ1.5mm	21mm	Ø1mm	14mm	1 pc
		SØ2mm		Ø1.4mm	8mm	1 pc
		SØ3mm	Ø1.5mm	12mm	4 pcs	
		SØ4mm	Ø2.5mm	27mm	1 pc	
	ruby ball/ carbon fiber stem	SØ5mm	50mm	Ø3mm	42.5mm	1 pc
		SØ6mm	75mm	Ø4mm	75mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø5mm	10mm	1 pc
		Ø4mm	20mm	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	10mm	13mm	1 pc

COORDINATE MEASURING MACHINES (SMALL RANGE)



FEATURES

- Classic bridge structure, integrated workbench
- High precision air bearing
- Unique Z-axis anti torque design to reduce rotation error

RENISHAW SYSTEMS

- Precision grating system, including grating and data acquisition device
- UCC control system, including control box and manual operator
- Probe system, including probe head, probe body and styli

VISUAL DMIS CNC CAD+SOFTWARE

- The software is designed and developed based on the DMIS standard, with excellent compatibility and versatility
- Geometric element measurement, evaluation of shape and position
- Bidirectional data transmission with mainstream CAD systems, complete graphical display
- Optional specialized modules, such as gear module, worm module, pipeline module, blade module, SPC data analysis module, etc.



CMM-LM564A

STANDARD DELIVERY

Main unit		1 pc
Probe system	probe head	1 pc
	probe body	1 pc
	styli	1 set
Control system		1 set
Calibration sphere		1 pc
Universal sphere seat		1 pc
Computer		1 pc
Printer		1 pc
Software		1 set
Table and chair		1 set

OPERATION ENVIRONMENT

Air pressure	0.6-0.8MPa
Air supply	200L/min
Temperature	20°C±2°C; <0.5°C/h, <1°C/24h
Humidity	30%~70%
Max. power	1000W
Power supply	220V±5%, 50Hz

STANDARD ACCURACY (LM SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (μm)	MPEP			
CMM-LM564A	500×600×400mm	MH20i	TP20	±(2.3+L/250)	2.4μm	500kg	1135×1420×2350	900
CMM-LM564B		PH10T						
CMM-LM686A	600×800×600mm	MH20i	TP20	±(2.6+L/250)	2.7μm	800kg	1420×1740×2760	1300
CMM-LM686B		PH10T						
CMM-LM686C		PH10M	SP25M	±(2.1+L/250)	2.1μm			
CMM-LM8106A	800×1000×600mm	MH20i	TP20	±(2.7+L/250)	2.8μm	1000kg	1620×1940×2760	1700
CMM-LM8106B		PH10T						
CMM-LM8106C		PH10M	SP25M	±(2.2+L/250)	2.2μm			
CMM-LM8126A	800×1200×600mm	MH20i	TP20	±(2.7+L/250)	2.8μm	1000kg	1620×2140×2760	1900
CMM-LM8126B		PH10T						
CMM-LM8126C		PH10M	SP25M	±(2.2+L/250)	2.2μm			
CMM-LM8156A	800×1500×600mm	MH20i	TP20	±(2.7+L/250)	2.8μm	1000kg	1620×2440×2760	2200
CMM-LM8156B		PH10T						
CMM-LM8156C		PH10M	SP25M	±(2.2+L/250)	2.2μm			

To be continued

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HIGH ACCURACY (LE SERIES)

Code	Range (X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension (mm)	Weight (kg)
		Head	Body	MPEE (μm)	MPEP			
CMM-LE564A	500×600×400mm	MH20i	TP20	±(1.9+L/330)	2.1μm	500kg	1135×1420×2350	900
CMM-LE564B		PH10T						
CMM-LE686A	600×800×600mm	MH20i	TP20	±(2.0+L/330)	2.2μm	800kg	1420×1740×2760	1300
CMM-LE686B		PH10T						
CMM-LE686C		PH10M	SP25M	±(1.6+L/330)	1.6μm			
CMM-LE8106A	800×1000×600mm	MH20i	TP20	±(2.1+L/330)	2.3μm	1000kg	1620×1940×2760	1700
CMM-LE8106B		PH10T						
CMM-LE8106C		PH10M	SP25M	±(1.7+L/330)	1.7μm			
CMM-LE8126A	800×1200×600mm	MH20i	TP20	±(2.1+L/330)	2.3μm		1620×2140×2760	1900
CMM-LE8126B		PH10T						
CMM-LE8126C		PH10M	SP25M	±(1.7+L/330)	1.7μm			
CMM-LE8156A	800×1500×600mm	MH20i	TP20	±(2.1+L/330)	2.3μm	1620×2440×2760	2200	
CMM-LE8156B		PH10T						
CMM-LE8156C		PH10M	SP25M	±(1.7+L/330)	1.7μm			

MH20i SPECIFICATION

Angular movement with horizontal axis	0°~90° in 15 steps
Angular movement with vertical axis	±180° in 15 steps
Number of positions	168
Steering mode	manual
Max. extension length	75mm
Weight	210g

PH10T AND PH10M SPECIFICATION

Angular movement with horizontal axis	0°~105° in 7.5 steps
Angular movement with vertical axis	±180° in 7.5 steps
Number of positions	720
Steering mode	motorized
Max. output torque	0.45N.m
Max. extension length	300mm
Weight	649g

STYLI SET INCLUDED IN TP20

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball/ stainless steel stem	SØ2.5mm	20mm	Ø1.4mm	14mm	4 pcs
		SØ4mm		Ø1.5mm	20mm	1 pc
		SØ3mm	10mm		7.5mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø3mm	20mm	1 pc
			30mm	1 pc
Center base		7mm	7.5mm	1 pc

STYLI SET INCLUDED IN SP25M

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball/ stainless steel stem	SØ1.5mm	21mm	Ø1mm	14mm	1 pc
		SØ2mm		Ø1.4mm	8mm	1 pc
		SØ3mm		Ø1.5mm	12mm	4 pcs
		SØ4mm		Ø2.5mm	27mm	1 pc
	ruby ball/ carbon fiber stem	SØ5mm	50mm	Ø3mm	42.5mm	1 pc
		SØ6mm	75mm	Ø4mm	75mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø5mm	10mm	1 pc
		Ø4mm	20mm	1 pc
Center base		10mm	13mm	1 pc

MEASURING ARMS



- In accordance with ISO 10360-12
- Internal balance
- Dual high performance batteries
- Equivalent-arm design
- High-speed WiFi performance
- Aerospace grade carbon-fiber material
- Automatic power off
- U-shaped anti-collision design of the base



CMM-CM30

STANDARD PRECISION, BE SERIES, 6-AXIS

(mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E _{UNI}	P _{SIZE}	P _{FORM}	L _{DIA}
CMM-BE15	1500	0.028	0.036	0.015	0.029	0.038
CMM-BE20	2000	0.030	0.040	0.018	0.035	0.041
CMM-BE25	2500	0.035	0.045	0.020	0.038	0.050
CMM-BE30	3000	0.055	0.065	0.028	0.045	0.080
CMM-BE35	3500	0.075	0.080	0.035	0.058	0.098
CMM-BE40	4000	0.090	0.100	0.044	0.068	0.116
CMM-BE45	4500	0.112	0.120	0.048	0.086	0.128

HIGH PRECISION, CM SERIES, 6-AXIS

(mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E _{UNI}	P _{SIZE}	P _{FORM}	L _{DIA}
CMM-CM15	1500	0.018	0.025	0.009	0.016	0.026
CMM-CM20	2000	0.020	0.028	0.010	0.018	0.032
CMM-CM25	2500	0.023	0.030	0.012	0.022	0.038
CMM-CM30	3000	0.034	0.042	0.016	0.032	0.052
CMM-CM35	3500	0.043	0.056	0.020	0.038	0.066
CMM-CM40	4000	0.052	0.066	0.024	0.044	0.083
CMM-CM45	4500	0.061	0.089	0.038	0.078	0.108

HIGH PRECISION, CM SERIES, 7-AXIS

(mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E _{UNI}	P _{SIZE}	P _{FORM}	L _{DIA}
CMM-CM20S	2000	0.022	0.030	0.012	0.022	0.040
CMM-CM25S	2500	0.027	0.032	0.013	0.025	0.048
CMM-CM30S	3000	0.042	0.053	0.020	0.035	0.078
CMM-CM35S	3500	0.055	0.066	0.024	0.043	0.092
CMM-CM40S	4000	0.065	0.082	0.029	0.048	0.102
CMM-CM45S	4500	0.073	0.099	0.043	0.082	0.132

To be continued

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ULTRA HIGH PRECISE, HP SERIES, 6-AXIS

(mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E _{UNI}	P _{SIZE}	P _{FORM}	L _{DIA}
CMM-HP15	1500	0.012	0.022	0.007	0.012	0.024
CMM-HP20	2000	0.016	0.024	0.008	0.015	0.030
CMM-HP25	2500	0.018	0.026	0.009	0.018	0.032
CMM-HP30	3000	0.026	0.038	0.012	0.025	0.045
CMM-HP35	3500	0.036	0.052	0.016	0.034	0.060
CMM-HP40	4000	0.045	0.063	0.020	0.038	0.077
CMM-HP45	4500	0.055	0.080	0.028	0.050	0.101

ULTRA HIGH PRECISE, HP SERIES, 7-AXIS

(mm)

Code	Measuring range	Maximum permissible error				
		SPAT	E _{UNI}	P _{SIZE}	P _{FORM}	L _{DIA}
CMM-HP20S	2000	0.018	0.026	0.010	0.019	0.038
CMM-HP25S	2500	0.020	0.028	0.011	0.022	0.042
CMM-HP30S	3000	0.032	0.048	0.016	0.032	0.072
CMM-HP35S	3500	0.045	0.061	0.020	0.039	0.088
CMM-HP40S	4000	0.055	0.076	0.026	0.044	0.098
CMM-HP45S	4500	0.065	0.095	0.036	0.065	0.122



Single-point articulation test



Distance measurement error between two points



Sphere form measurement error



Sphere size measurement error



Sphere diameter obtained from performing the articulated location test (diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)

SPECIFICATION

Temperature rate	3°C/5min
Battery life	5h for one battery; 10h for two batteries
Output	USB, WIFI
Operation temperature	5°C~45°C
Operation humidity	0~95%, non-condensing
Power supply	100~240VAC, 50/60Hz
Weight	8.8kg~10.6kg

STANDARD DELIVERY

Main unit	1 pc
3mm zircon ball probe	1 pc
6mm zircon ball probe	1 pc
Calibration cone	1 pc
Lithium batteries	2 pcs
USB cable	1 pc
Power adapter	1 pc
Dust cover	1 pc



3mm zircon ball probe (included)



6mm zircon ball probe (included)



calibration cone (included)

To be continued

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laser line probe
(optional)



electric vacuum base
(optional)



DELL laptop
(optional)

LASER LINE PROBE SPECIFICATION

Code	CMM-CEM-SD	CMM-CEM-HD
Accuracy	±28µm (2σ)	±15µm (2σ)
Working distance	115mm	
Effective scan width	near field 80mm, far field 150mm	
Points per line	maximum 4000 points per line	
Scan rate	1200000 points per second	
Laser	class 2	
Weight	536g	

SYSTEM ACCURACY WITH LASER LINE PROBE

Code	CMM-CEM-SD	CMM-CEM-HD
CMM-CM20S	0.050mm	0.040mm
CMM-CM25S	0.055mm	0.045mm
CMM-CM30S	0.062mm	0.052mm
CMM-CM35S	0.076mm	0.065mm
CMM-CM40S	0.090mm	0.081mm
CMM-CM45S	0.139mm	0.131mm
CMM-HP20S	0.043mm	0.038mm
CMM-HP25S	0.048mm	0.042mm
CMM-HP30S	0.055mm	0.047mm
CMM-HP35S	0.068mm	0.060mm
CMM-HP40S	0.080mm	0.074mm
CMM-HP45S	0.125mm	0.120mm



magnetic base
(optional)

OPTIONAL ACCESSORY

DELL laptop	CMM-CEM-PCE
Polyworks software	CMM-CEM-PW
Adjustable tripod	CMM-CEM-FAT
Electric vacuum base	CMM-CEM-EVCP
Magnetic base	CMM-CEM-IMM
Magnetic cones	CMM-CEM-MC
Magnetic spheres	CMM-CEM-MS
Point probe	CMM-CEM-PP
2mm ruby ball probe	CMM-CEM-RP2
5mm zircon ball probe	CMM-CEM-ZP5
10mm zircon ball probe	CMM-CEM-ZP10
3" straight probe extension	CMM-CEM-SPE3
4" straight probe extension	CMM-CEM-SPE4
60° probe adapter	CMM-CEM-DP60
90° probe adapter	CMM-CEM-DP90
3mm extended ball probe	CMM-CEM-EPB3
6mm extended ball probe	CMM-CEM-EPB6
Probe adapter	CMM-CEM-PA
High accuracy laser line probe	CMM-CEM-HD*
Standard accuracy laser line probe	CMM-CEM-SD*



adjustable tripod (optional)

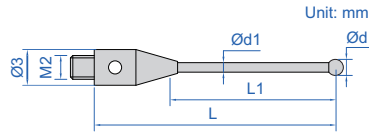
*Laser line probes are suitable for 7-axis measuring arms only

STYLI FOR CMM

- Roundness: 0.25µm



ISQ-20-071



ISQ-25-125

M2 styli

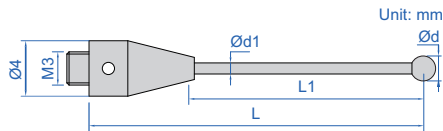
(mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-20-002	1	0.7	10	4.5	stainless steel	ruby
ISQ-20-006	2	1	10	6		
ISQ-20-010	3	1.5	10	10		
ISQ-20-021	2	1.4	20	14		
ISQ-20-025	3	1.5	20	17.5		
ISQ-20-027	4	2	20	20	carbide	
ISQ-20-052	0.5	0.3	10	3		
ISQ-20-071	1	0.7	20	12.5		
ISQ-20-105	2	1.5	30	22.5	ceramic	
ISQ-20-120	3	2	30	27.5	carbon fibre	
ISQ-20-201	4	3	50	50		

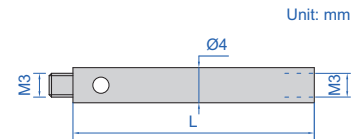
*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip



ISQ-30-066



ISQ-35-110



M3 styli

(mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-30-001	1	0.7	21	4	carbide	ruby
ISQ-30-003	2	1	21	8		
ISQ-30-005	3	1.5	21	12		
ISQ-30-031	2	1.5	30	22.5		
ISQ-30-066	3	2	50	42.5	ceramic	
ISQ-30-080	6	4	75	75	carbon fibre	

*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip

M3 extension rods of styli

(mm)

Code	L	Material
ISQ-35-101	10	stainless steel
ISQ-35-105	20	
ISQ-35-110	35	ceramic
ISQ-35-115	50	

M4 styli

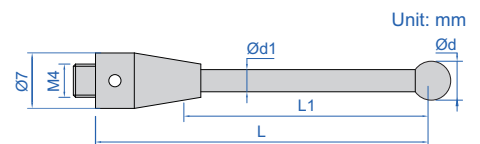
(mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-40-113	3	2	18.5	13	stainless steel	ruby
ISQ-40-208	6	4	50	36		
ISQ-40-106	1	0.7	19.5	4	carbide	
ISQ-40-109	2	1.4	19	8		
ISQ-40-141	1	0.7	20	10		
ISQ-40-195	2	1.5	50	40		
ISQ-40-202	4	2	50	38	ceramic	
ISQ-40-173	5	4	50	34		
ISQ-40-179	6	4	50	36		
ISQ-40-222	6	4	75	63		
ISQ-40-240	5	4	100	84		
ISQ-40-245	6	4	100	86		

*L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip



ISQ-40-195

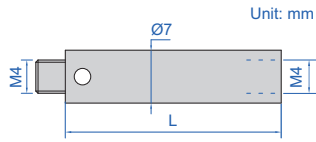


To be continued

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ISQ-45-025

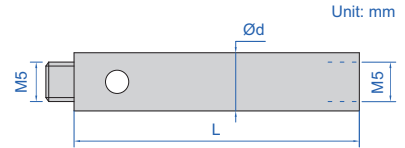
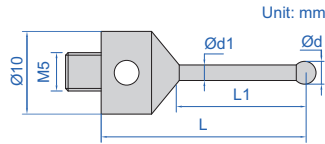


M4 extension rods of styli (mm)

Code	L	Material
ISQ-45-025	30	ceramic
ISQ-45-028	50	



ISQ-50-059



M5 styli (mm)

Code	Ød	Ød1	L	L1*	Material of rod	Material of tip
ISQ-50-051	1	0.7	20	5	carbide	ruby
ISQ-50-059	2	1.5	20	11		
ISQ-50-067	3	2	20	11		
ISQ-50-071	4	2	20	11		
ISQ-50-075	5	3	20	11		

* L1 is the effective working length, which is the distance from the center of the tip to the section of the stem with the same diameter as the tip

M5 extension rods of styli (mm)

Code	L	Ød	Material
ISQ-55-012	20	10	stainless steel
ISQ-55-014	30	10	
ISQ-55-016	50	10	
ISQ-55-018	100	10	
ISQ-55-031	50	20	aluminum
ISQ-55-035	100	20	
ISQ-55-039	200	20	

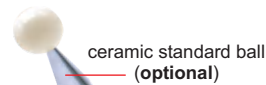
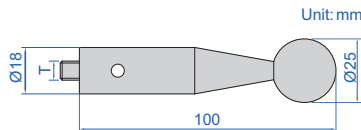
STANDARD BALLS FOR CMM



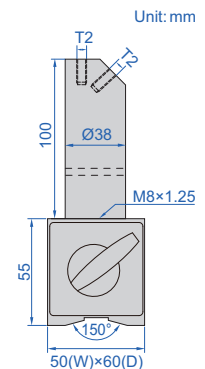
- Diameter accuracy of ceramic ball: +1.25µm/-1µm, roundness: 0.13µm
- Mirror surface
- Stainless steel measuring rod
- Supplied with manufacturer inspection certificate



ISQ-16-025CE-M8



ISQ-16-BASE-M8



(mm)

Code	T	Remark
ISQ-16-025CE-M6	M6	including measuring rod
ISQ-16-025CE-M8	M8	
ISQ-16-025CE-M10	M10	
ISQ-16-025CE-M12	M12	

MAGNETIC BASE (mm)

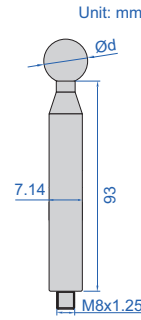
Code	T2	Magnetic force
ISQ-16-BASE-M6	M6	80kgf
ISQ-16-BASE-M8	M8	80kgf
ISQ-16-BASE-M10	M10	80kgf
ISQ-16-BASE-M12	M12	80kgf



- To calibrate CMM probes
- Zirconia material, high strength and hardness, extremely wear resistance and corrosion resistance
- good insulation, antistatic and magnetic resistance
- Mirror surface, with pole
- Supplied with manufacturer inspection certificate



4198-20



CERAMIC BALL GAUGES

High accuracy

Code	Diameter (Ød)	Accuracy	Roundness
4198-8	8mm	±5µm	0.5µm
4198-10	10mm	±5µm	0.5µm
4198-12D7	12.7mm	±5µm	0.5µm
4198-13	13mm	±5µm	0.5µm
4198-14	14mm	±5µm	0.5µm
4198-15	15mm	±5µm	0.5µm
4198-16	16mm	±5µm	0.5µm
4198-17	17mm	±5µm	0.5µm
4198-20	20mm	±5µm	0.5µm
4198-25D4	25.4mm	±5µm	0.5µm

Standard accuracy

Code	Diameter (Ød)	Accuracy	Roundness
4198-8A	8mm	±5µm	1µm
4198-10A	10mm	±5µm	1µm
4198-12D7A	12.7mm	±5µm	1µm
4198-13A	13mm	±5µm	1µm
4198-14A	14mm	±5µm	1µm
4198-15A	15mm	±5µm	1µm
4198-16A	16mm	±5µm	1µm
4198-17A	17mm	±5µm	1µm
4198-20A	20mm	±5µm	1µm
4198-25D4A	25.4mm	±5µm	1µm



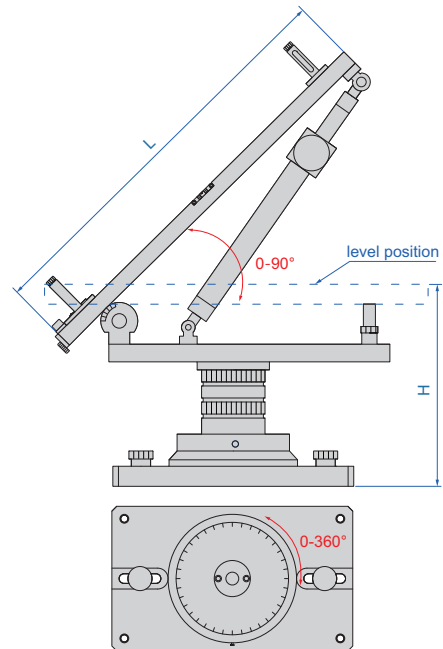
6885-1000

- Made of aluminum
- Used with gauge blocks to calibrate CMM
- Optional accessory: gauge blocks (4101, 4103 and 4104 series)

(mm)

Code	Length (L)	Height (H)
6885-1000	500, 600, 650, 700, 750, 800, 850, 900, 1000	235, 355, 475

GAUGE BLOCK STAND FOR CMM



height column (included, 2pcs)



extension plate (included, 4pcs)

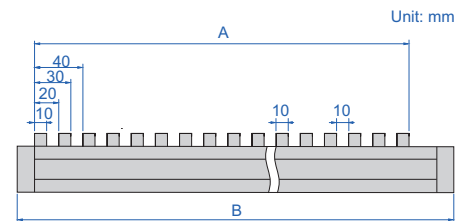
CMM CHECK MASTERS



horizontal use



6882-600A



- To check the accuracy of table movements of machine tools and calibrate CMM, digital height gauge, height gauge, caliper
- Horizontal use and vertical use
- Constructed with ceramic gauge blocks
- Can be used with stand

STANDARD ACCURACY

Code	Size	Step	A (mm)	B (mm)	Range of inside measurement (mm)	Range of outside measurement (mm)	Range of height measurement (mm)
6882-300A*	0-300mm	10mm	310	350	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310	30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330
6882-400A*	0-400mm	10mm	410	450	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410	30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430
6882-500A*	0-500mm	10mm	510	550	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510	30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530
6882-600A*	0-600mm	10mm	610	650	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590, 610	30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590, 610, 630
6882-1000A*	0-1000mm	10mm	1010	1050	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590, 610, 630, 650, 670, 690, 710, 730, 750, 770, 790, 810, 830, 850, 870, 890, 910, 930, 950, 970, 990	10, 30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590, 610, 630, 650, 670, 690, 710, 730, 750, 770, 790, 810, 830, 850, 870, 890, 910, 930, 950, 970, 990, 1010	30, 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, 250, 270, 290, 310, 330, 350, 370, 390, 410, 430, 450, 470, 490, 510, 530, 550, 570, 590, 610, 630, 650, 670, 690, 710, 730, 750, 770, 790, 810, 830, 850, 870, 890, 910, 930, 950, 970, 990, 1010, 1030

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