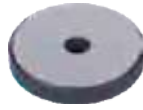




SERIES BLK

STANDARD HARDNESS BLOCK



Rockwell/Vickers/Brinell



Shore A



Leeb

SPECIFICATION

Code	Type	Hardness
BLK-HRC1	Rockwell C	60-70HRC
BLK-HRC2		20-30HRC
BLK-HRC3		30-35HRC
BLK-HRC4		40-50HRC
BLK-HRC5		50-55HRC
BLK-HRB1	Rockwell B	85-95HRB
BLK-HRB2		60-70HRB
BLK-HV1	Vickers	700-800HV5
BLK-HV2		700-800HV10
BLK-HV3		400-600HV5
BLK-HV4		400-600HV10
BLK-HB1	Brinell	150-250HBW 10/3000
BLK-HB2		150-250HBW 5/750
BLK-HLD	Leeb	750-830HLD
BLK-HSA	Shore A	7pcs/set: 30-39HA, 40-49HA, 50-59HA, 60-69HA, 70-79HA, 80-89HA, 90-99HA

RC30

SURFACE ROUGHNESS SPECIMEN

- ◆ For checking, identifying and specifying the roughness by symbol
- ◆ Accuracy: -17% ~ +12%



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

SERIES RP100XS

PROFILE AND ROUGHNESS MEASURING MACHINE



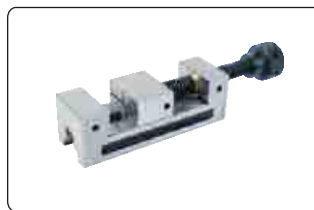
- ◆ Measure the surface profile and roughness with same probe at same time (for **RP100RS**)
- ◆ With high precision and good linearity digital probe (for **RP100RS** and **RP100TS**)
- ◆ Easy to install and replace without calibration
- ◆ Stylus can contact, lift and return automatically
- ◆ CAD file can be exported and imported (for **RP100RS** and **RP100JS**)
- ◆ With manufacturer inspection certificate



RP100RS



stage



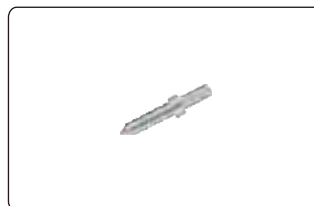
vice



profile calibration block
(for **RP100RS** and **RP100JS**)



roughness calibration block
(for **RP100RS** and **RP100TS**)



Φ3*20mm point stylus



Φ3*21mm knife stylus

SPECIFICATION

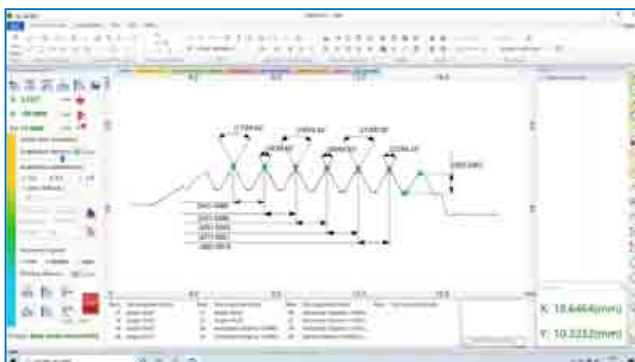
Code		RP100RS	RP100TS	RP100JS
Measuring object		profile and roughness	roughness	profile
Roughness parameter		Ra, Rq, Rz(Ry), R3z, Rz(DIN), Rz(JIS), Rz(ISO), Rp, Rv, Rt, Rsk, Rsm, Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, R, Rx, AR, Rcp, Rmax		\
Wave parameter		wt, wa, wp, wv, wq, wc, wku, wsk, w, wx, wz, wsm, wdc, wte, wmr, Aw, c(wmr), wmr(c), wdq		\
Profile parameter		Pt, Pa, Pp, Pv, Pq, Pc, Pku, Psk, Pdq/p△q, Psm, Pdc, Pmr(c), Pz, pmr, C(pmr)		\
Profile	X axis range	100mm	\	100mm
	X axis straightness	0.8μm/100mm	\	0.8μm/100mm
	Z axis range	650mm	\	650mm
	Z1 axis range (probe)	40mm	\	40mm
	Accuracy	±(1+0.12H)μm, H is measuring height in mm	\	±(1+0.12H)μm, H is measuring height in mm
	Measuring arc accuracy	±(1.5+R/8)μm, R is measuring radius in mm	\	±(1.5+R/8)μm, R is measuring radius in mm
	Measuring angle accuracy	±2'	\	±2'
Roughness	Z1 axis range (probe)	40mm	20mm	\
	Accuracy	±5%		\
	Repeatability	±3%		\
	Resolution	0.0001μm		\
	Number of cut-offs	3-7		\
	Cut off	0.025, 0.08, 0.25, 0.8, 2.5, 8mm		\
Climbing ability		77°(up), 88°(down)		
Measuring speed		0.02mm- 4.0mm/s		
Measuring mode		probe movement		
Movement control		joystick		
Power supply		220V		
Size		985x710x1450mm		

INCLUDED ACCESSORIES

Main unit	1pc
Profile calibration block(for RP100RS and RP100JS)	1pc
Roughness calibration block(for RP100RS and RP100TS)	1pc
Stage	1pc
Vise	1pc
Φ3x21mm R0.025mm knife stylus	2pcs

Φ3x20mm R5μm point stylus	1pc
Φ8x150mm measuring rod	1pc
Computer	1pc
Printer	1pc
Anti-dust cover	1pc

Measuring profile



Measuring roughness



SR200

ROUGHNESS TESTER



VIDEO



Certificate



Data output



Charge

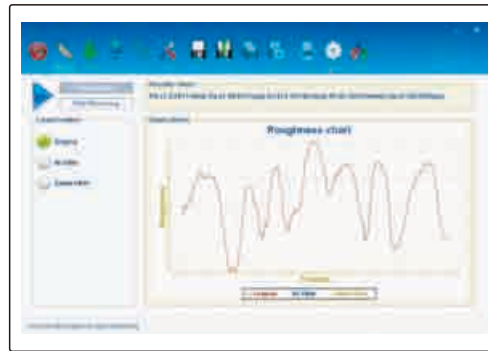
- ◆ 13 roughness parameters
- ◆ With probe position indicator
- ◆ Roughness values, profile, and curve can be shown on the display
- ◆ Memory of maximum 100 results
- ◆ With a mini SD card slot, can save the result into SD card
- ◆ Automatic power off
- ◆ With manufacturer inspection certificate



ROUGHNESS

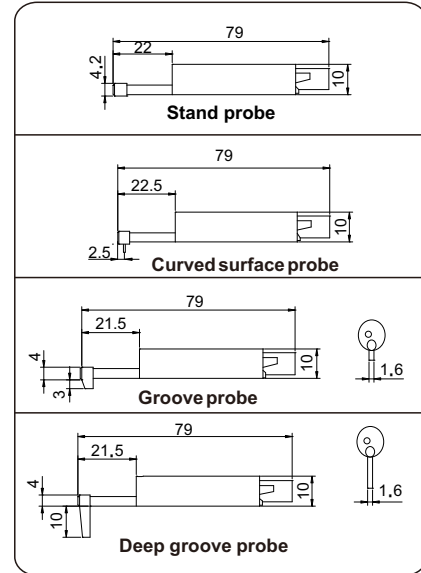


SR200-STD Stand (optional)



Measuring software

unit: mm



SPECIFICATION

Parameters	Ra, Rz, Ry, Rq, Rp, Rm, Rt, R3z, Rmax, Sk, S, Sm, tp	
Range	160μm(±80μm)	
Accuracy	±10%	
Resolution (Ra)	0.001μm	
Probe	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force	0.4mN	
Measuring unit	μm/μin	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1-5	
Traverse speed	0.5mm/s, 1mm/s	
Memory	100 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension(L×W×H)	140×52×48mm	
Weight	440g	

INCLUDED ACCESSORIES

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

OPTIONAL ACCESSORIES

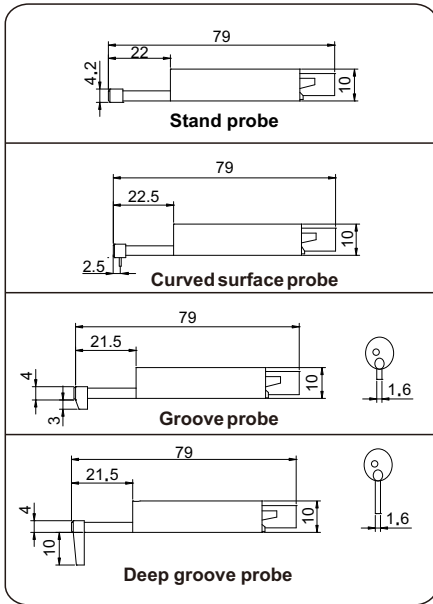
Extension rod	SR200-ER
Curved surface probe	SR200-02
Groove probe	SR200-03
Deep groove probe	SR200-04
Test stand	SR200-STD
Printer	SR200-PR



- ◆ Pocket size
- ◆ With a tablet, can set the parameter quickly
- ◆ Connected with tablet via bluetooth
- ◆ Roughness values, profile, and curve can be shown on the display
- ◆ With manufacturer inspection certificate



unit: mm



Measuring software



SR200-STD Stand(optional)

SPECIFICATION

Parameters	Ra, Rz, Ry, Rq, Rp, Rm, Rt R3z, Rmax, Sk, S, Sm, tp	
Range(Ra)	0.025-12.5µm	
Accuracy	±10%	
Resolution (Ra)	0.001µm	
Probe	type	inductive
	stylus radius/angle	5µm/90°
	stylus material	diamond
Measuring force	0.4mN	
Measuring unit	µm/µin	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1-5	
Traverse speed	0.5mm/s, 1mm/s	
Output file format	Word, Excel	
Power	built-in rechargeable battery	
Dimension(L×W×H)	130×40×44mm	
Weight	340g	

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Tablet	1pc
Calibration block	1pc
Calibration support	1pc
USB cable	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

Extension rod	SR200-ER
Curved surface probe	SR200-02
Groove probe	SR200-03
Deep groove probe	SR200-04
Test stand	SR200-STD
Printer	SR200-PR

SR400

ROUGHNESS TESTER



- ◆ The probe can be working with the main unit separately
- ◆ 22 roughness parameters
- ◆ With probe position indicator
- ◆ Roughness values, profile, and curve can be shown on the display
- ◆ Memory of maximum 100 results
- ◆ Automatic power off
- ◆ With manufacturer inspection certificate



unit: mm

Stand probe	
Curved surface probe $\varnothing > 15\text{mm}$ $\varnothing > 10\text{mm}$	
Groove probe (groove height < 10mm)	
Small hole probe (hole dia. > 2mm)	
Extension rod	

Working with height gauge



Work together



SR200-STD Stand (optional)

SPECIFICATION

Parameters	Ra, Rz, Rq, Rp, Ry, Rv, Rs, R3z, R3y, Rc, Rt, Rmax, Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Rz(JIS)	
Range	±160μm	
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	0.5mm/s, 1mm/s	
Memory	100 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension(L×W×H)	158×64×52mm	
Weight	400g	

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Calibration block	1pc
Calibration support	1pc
Adjustable stand	1pc
Cable(long and short)	2pcs
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

50mm extension rod	SR400-ER
Curved surface probe	SR400-02
Deep groove probe	SR400-03
Small hole probe	SR400-04
Test stand	SR200-STD
Printer	SR400-PR
Connector for height gage	SR400-SP1



- ◆ Pocket size
- ◆ Automatic power off
- ◆ With manufacturer inspection certificate

SPECIFICATION

Parameters	Ra, Rz, Rq, Rt	
Range (Ra)	±10µm	
Accuracy	±15%	
Resolution (Ra)	0.001µm	
Probe	type	piezoelectric
	stylus radius/angle	10µm/90°
	stylus material	diamond
Measuring force	0.5N	
Measuring unit	µm/µin	
Cut off	0.25/0.8/2.5mm	
Evaluation length	1.25/4/5mm	
Power	built-in rechargeable battery	
Dimension(L×W×H)	114×82×33mm	
Weight	160g	

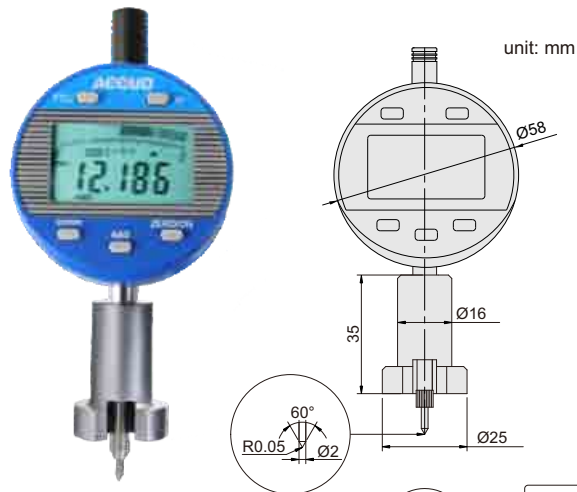


INCLUDED ACCESSORIES

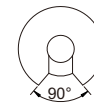
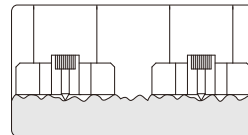
Main unit	1pc
Calibration block	1pc
Calibration support	1pc
USB cable	1pc
AC/DC adapter	1pc



- ◆ 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, it is dangerous that the profile peaks will remain non-coating, rust spots maybe occur.
- ◆ Meet ASTM D 4417-B
- ◆ Zero set block is included, set zero before measurement
- ◆ Buttons: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, ABS/INC measurement
- ◆ Automatically power off (time is adjustable)
- ◆ Data output (cable code:200-03 or 200-04)
- ◆ Stainless steel base



measure peak-to-valley height of blast cleaned surface



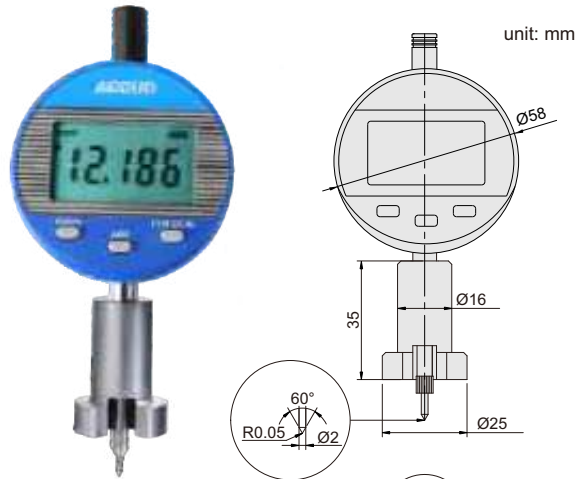
Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
489-010-01	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm

489

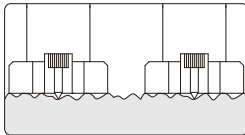
DIGITAL SURFACE PROFILE GAUGE



- ◆ 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, it is dangerous that the profile peaks will remain non-coating, rust spots may occur.
- ◆ Meet ASTM D 4417-B
- ◆ Zero set block is included, set zero before measurement
- ◆ Buttons: on/off, zero, mm/inch, ABS/INC measurement
- ◆ Automatically power off (time is adjustable)
- ◆ Data output (cable code: 200-03 or 200-04)
- ◆ Stainless steel base



measure peak-to-valley height of blast cleaned surface



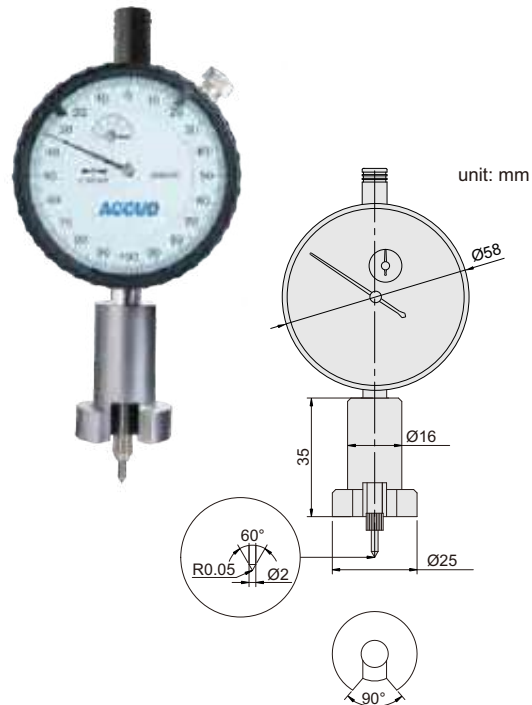
Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
489-010-02	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm



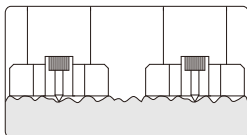
489

SURFACE PROFILE GAUGE

- ◆ 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, it is dangerous that the profile peaks will remain non-coating, rust spots may occur.
- ◆ Meet ASTM D 4417-B
- ◆ Zero set block is included, set zero before measurement
- ◆ Stainless steel base



measure peak-to-valley height of blast cleaned surface



Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
489-001-01	0-1mm	1mm	0.001mm	±0.005mm

