

360° SWIVEL VIDEOSCOPE (BASIC TYPE)

TUNGSTEN WIRE WEAVED CABLE
BREAK AND WEAR RESISTANCE

\$ 2771.00



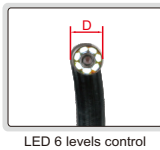
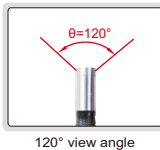
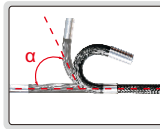
ISV-T105

STANDARD DELIVERY

Main unit (with cable & lens)	1 pc
16G SD card	1 pc
Card reader	1 pc
USB cable	1 pc
Battery	1 pc
AC/DC adapter	1 pc

SPECIFICATION

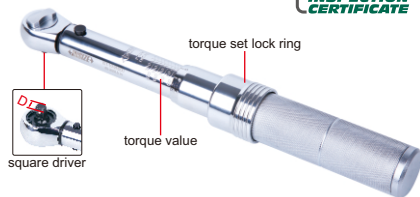
Part No.	ISV-T105
List price	\$ 2771.00
diameter (D)	.23"DIA
pixel	1M
resolution	1280×720
depth of field	.79"~5.90"
bending direction	360°
bending range (α)	0°~220°
angle of view (θ)	120°
illumination	7 pcs LED, with 6 levels control
illuminance	25000 Lux
lens	sapphire glass lens
dust/waterproof	IP67
bend control	manual joystick
temperature alarm	temperature sensor (optional)
length	40"
type	tungsten wire weaved cable
display	3.5" IPS full-view display
display resolution	640×480
function	take pictures, take videos
file format	picture: JPG, video: MP4
image process	image zoom (1X, 2X, 3X, 4X, 5X)
memory	memory card (Maximum: 64G)
output	USB, HDMI, WIFI (optional)
dust/waterproof	IP65
power supply	rechargeable lithium battery (working time ≥ 3 hours; optional: additional battery, working time ≥ 9 hours) AC/DC adapter (for continuous working)
Weight	2.2lb



TORQUE WRENCHES

Starting At \$ 212.00

- According to DIN ISO 6789, ASME B107.300
- All-metal construction



IST-10WM200

SPECIFICATION

Part No.	IST-10WM200	IST-10WM250	IST-10WM100	IST-10WM150	IST-10WM250A
List price	\$ 212.00	\$ 214.00	\$ 232.00	\$ 250.00	\$ 269.00
Range (clockwise)	40~200lb.in	50~250lb.in	20~100lb.ft	30~150lb.ft	50~250lb.ft
Accuracy	±6% (<89lb.in) ±4% (≥89lb.in)	±6% (<89lb.in) ±4% (≥89lb.in)	±4%	±4%	±4%
Graduation	1lb.in	1lb.in	0.5lb.ft	1lb.ft	1lb.ft
Square driver (D)	1/4"	3/8"	3/8"	1/2"	1/2"
Length	11.02"	12.40"	16.73"	19.88"	20.67"
Weight	1.50lb	1.81lb	2.29lb	2.56lb	2.87lb

ATTENTION: CLOCKWISE
OPERATION ONLY

INSIZE
CERTIFICATE

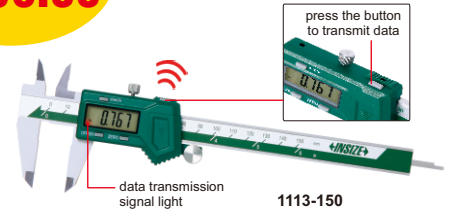
WIRELESS DIGITAL CALIPERS

Starting At \$ 158.00

ATTENTION: THE WORKING LIFE OF
A BATTERY IS ABOUT 3-5 MONTHS

INSIZE
CERTIFICATE

- Non waterproof
- Built-in wireless data transmission module, Zigbee signal
- Transmission distance is 33 feet (under the condition of no obstruction and no electromagnetic interference)
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, data transmission
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel
- Optional accessory: receiver (part no. 7315-2/3/6/7/8/9)



1113-150

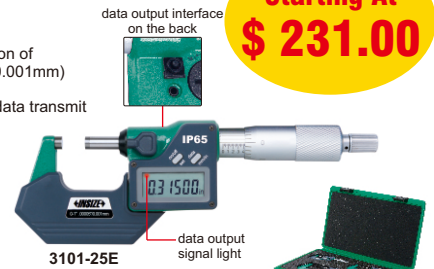
Part No.	Range	Accuracy	List price
1113-150	0-6"/0-150mm	±.0015"	\$ 158.00
1113-200	0-8"/0-200mm	±.0015"	\$ 189.00
1113-300	0-12"/0-300mm	±.0015"	\$ 268.00

WATERPROOF DIGITAL OUTSIDE MICROMETERS (WITH DATA OUTPUT)

DATA OUTPUT IP65 WATERPROOF INSIZE CERTIFICATE

Starting At \$ 231.00

- Resolution .00005"/0.001mm (resolution of 3101-275E and 3101-300E is .0001"/0.001mm)
- IP65 dust/waterproof
- Button function: on/off, set, inch/mm, data transmit
- Automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-1"/0-25mm)
- Optional accessory: data output cable (part no. 7302-31) receiver is needed, 7302-31)



3101-25E

Individual

Part No.	Range	Accuracy	List price
3101-25E *	0-1"/0-25mm	±.00010"	\$ 231.00
3101-50E *	1-2"/25-50mm	±.00010"	\$ 278.00
3101-75E *	2-3"/50-75mm	±.00015"	\$ 310.00
3101-100E *	3-4"/75-100mm	±.00015"	\$ 337.00
3101-125E	4-5"/100-125mm	±.00015"	\$ 388.00
3101-150E	5-6"/125-150mm	±.00015"	\$ 417.00
3101-175E	6-7"/150-175mm	±.00020"	\$ 445.00

3101-33E



3101-66E

Set

Part No.	Range	Micrometers included	Packaging	List price
3101-33E *	0-3"/0-75mm	3101-25E, 3101-50E, 3101-75E	blow mould case	\$ 725.00
3101-44E *	0-4"/0-100mm	3101-25E, 3101-50E, 3101-75E, 3101-100E	blow mould case	\$ 1320.00
3101-66E	0-6"/0-150mm	3101-25E, 3101-50E, 3101-75E, 3101-100E, 3101-125E, 3101-150E	aluminum box	\$ 2295.00

*Supplied with manufacturer inspection certificate

ALUMINUM LEVELS

LIFETIME WARRANTY VIALS

MAGNETIC BASE

Starting At \$ 28.30



4914-600

Part No.	Size (L)	Accuracy	Number of vials	List price
4914-300	12"	.006in/ft	2	\$ 28.30
4914-600	24"	.006in/ft	2	\$ 36.10
4914-800	32"	.006in/ft	2	\$ 45.50
4914-1000	40"	.006in/ft	2	\$ 52.90
4914-1200	48"	.006in/ft	2	\$ 58.50
4914-2000	80"	.006in/ft	3	\$ 81.20

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: 5°F~131°F

COUNTING SCALES



8101-30

Starting At
\$ 448.00

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting, accumulation, checking alarm
- Overload alarm
- Units: lb, lb-oz, kg, g, tj, hj

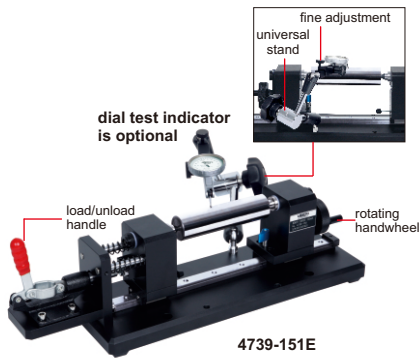
SPECIFICATION

Part No.	8101-6	8101-15	8101-30
List price	\$ 448.00	\$ 448.00	\$ 448.00
Maximum weighing	12lb/6kg	30lb/15kg	60lb/30kg
Minimum weighing	.0090lb/4g	.022lb/10g	.044lb/20g
Resolution (d)	.0005lb/0.2g	.001lb/0.5g	.002lb/1g
Accuracy (m is load)	m≤2.2lb: ±.0025lb 2.2lb<m≤8.8lb: ±.0005lb m>8.8lb: ±.0075lb	m≤5.5lb: ±.005lb 5.5lb<m≤22.0lb: ±.01lb m>22.0lb: ±.015lb	m≤11.0lb: ±.01lb 11.0lb<m≤44.0lb: ±.02lb m>44.0lb: ±.03lb
Operation temperature	14~104°F		
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)		
Dimensions of pan	10.354×8.031"		

BENCH CENTERS

Starting At
\$ 1957.00

- Quick positioning, suitable for mass measurement
- Suitable for cylinders with outside diameter .118"-5.512" or inside diameter .039"-.472"
- Supplied with standard rod to verify accuracy
- Optional accessory: dial test indicators



4739-151E

Part No.	Center height	Distance between two centers	Runout accuracy	Weight	Load	List price
4739-151E	2.756"	6"	.00008"	14lb	33lb	\$ 1957.00

WATERPROOF DIGITAL PROTRACTOR (HEAVY DUTY)

Starting At
\$ 283.00

ABSOLUTE LEVEL AUTOMATIC BACKLIGHT IP54 WATERPROOF

- Suitable for setting horizontal and vertical mitre angles of cutting machine
- Buttons: ON/OFF, HOLD/SUP, SPR/CNR/MTR/BVL
- IP54 dust/waterproof
- With transverse and longitudinal vials
- 2xAAA batteries
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after no data changing, automatic power off in 5 minutes



2174-225

Part No.	Size (L)	Range	Resolution	Accuracy	List price
2174-225	18.11"	0-225°	0.05°	±0.10°	\$ 283.00

STEEL GAUGE BLOCK SETS

Starting At
\$ 340.00

- Made of alloy steel
- Meet ASME B89.1.9
- Supplied with manufacturer inspection certificate



4102-81

Blocks per set	Gauge blocks included in set			Grade 0		Grade AS-1		Grade AS-2	
	Size (inch)	Step (inch)	Quantity	Part No.	List price	Part No.	List price	Part No.	List price
36	.05		1	4102-36	\$ 608.00	4102-136	\$ 451.00	4102-236	\$ 340.00
	.1001-.1009	.0001	9						
	.101-.109	.001	9						
	.11-.19	.01	9						
	.1-.5	.1	5						
	1		1						
81	.1001-.1009	.0001	9	4102-81	\$ 1056.00	4102-181	\$ 752.00	4102-281	\$ 529.00
	.101-.149	.001	49						
	.05-.95	.05	19						
	1-4	1	4						

OUTSIDE MICROMETERS WITH COUNTER



Starting At
\$ 81.50



3400-1

Part No.	Range	Accuracy	List price
3400-1	0-1"	.00015"	\$ 81.50
3400-2	1-2"	.00015"	\$ 91.50
3400-3	2-3"	.00020"	\$ 103.00
3400-4	3-4"	.00020"	\$ 114.00

- Counter resolution .001"
- Thimble graduation .0001"
- Carbide measuring faces, ratchet stop
- Supplied with setting standards (except 0-1" and 0-25mm)

*We can offer in larger sizes

DIGITAL CALIPERS (FRACTION READING)



Starting At
\$ 108.00



1102-150

- Non waterproof
- Resolution: 1/128", 0.01mm, .0005"
- Buttons: unit (inch fraction/mm/inch), on/off, zero
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Data output (for mm and inch)
- Made of stainless steel
- Optional accessory: data output cable (part no. 7315-21 receiver is needed, 7302-21)



Part No.	Range	Accuracy	List price
1102-150	0-6"/0-150mm	.00015"	\$ 108.00
1102-200	0-8"/0-200mm	.00015"	\$ 152.00
1102-300	0-12"/0-300mm	.00015"	\$ 197.00

DIGITAL THICKNESS GAUGES



Starting At
\$ 202.00

- Ceramic spindle tip and anvil
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Keep preset data in memory after restart
- CR2032 battery, automatic power off (time is adjustable)
- Data output
- Optional accessory: data output cable (part no. 7315-50M receiver is needed, 7302-50M, 7305-50M)



2871-101

Part No.	Range	Resolution	Accuracy	List price
2871-10	0-.4"/0-10mm	.0005"/0.01mm	±.001"	\$ 202.00
2871-101	0-.4"/0-10mm	.00005"/0.001mm	±.0002"	\$ 370.00

DIAL INDICATORS



Starting At
\$ 42.40

- Meet ASME B89.1.10M-2001
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points



2307-1

Part No.	Range	Graduation	Accuracy		Range/rev	Dial reading	List price
			First 2.5 rev	Overall			
2307-025	.25"	.001"	±.001"	±.001"	.1"	0-100	\$ 43.70
2307-05	.5"	.001"	±.001"	±.002"	.1"	0-100	\$ 45.50
2307-1	1"	.001"	±.001"	±.002"	.1"	0-100	\$ 42.40
2307-2	2"	.001"	±.001"	±.004"	.1"	0-100	\$ 101.00
2307-0255	.25"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 49.50
2307-055	.5"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 49.50
2307-105	1"	.0005"	±.0005"	±.002"	.05"	0-50	\$ 50.90

PIN GAUGE SETS



Starting At \$ 58.40

- Class ZZ
- Made of stainless steel
- Hardness HRC60-62

4162-2161

Diameter (d)	Step	Pin gauges per set	Part No. Accuracy + .0002"	List price	Part No. Accuracy - .0002"	List price
.011~.060"	.001"	50	4162-111	\$ 58.40	4162-211	\$ 58.40
.061~.250"	.001"	190	4162-1161	\$ 248.00	4162-2161	\$ 238.00
.251~.500"	.001"	250	4162-1251	\$ 369.00	4162-2251	\$ 369.00
.501~.625"	.001"	125	4162-1501	\$ 322.00	4162-2501	\$ 322.00
.626~.750"	.001"	125	4162-1626	\$ 365.00	4162-2626	\$ 365.00
.751~.832"	.001"	82	4162-1751	\$ 303.00	4162-2751	\$ 303.00
.833~.916"	.001"	84	4162-1833	\$ 362.00	4162-2833	\$ 362.00
.917~1.000"	.001"	84	4162-1917	\$ 376.00	4162-2917	\$ 376.00

VISION MEASURING SYSTEMS (MANUAL TYPE)



lens with coaxial light (optional)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc



ISD-V250A

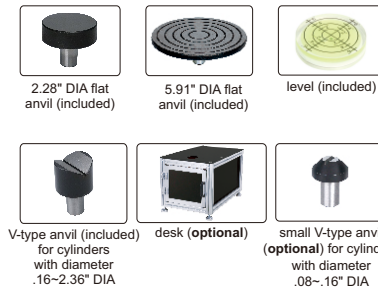
computer is included

Starting At \$ 14230.00

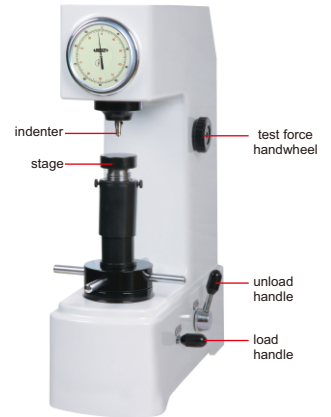
**MANUAL ROCKWELL HARDNESS TESTER (BASIC TYPE)
PART NO. HDT-RW160**



\$ 2393.00



V-type anvil (included) for cylinders with diameter .16~2.36" DIA
desk (optional)
small V-type anvil (optional) for cylinders with diameter .08~.16" DIA



■ According to ISO 6508

SPECIFICATION

Part No.	ISD-V150A	ISD-V250A	ISD-V300A
List price	\$ 14230.00	\$ 14617.00	\$ 17098.00
Measuring range (X*Y*Z)	6x4x6"	10x6x6"	12x8x6"
Stage size	13.94x8.98"	17.72x11.02"	19.69x12.99"
Glass stage size	8.27x6.30"	12.05x7.72"	13.78x9.84"
Resolution of X/Y/Z axis	19.69µin		
Accuracy of X/Y axis	≤(98.4+10L)µin (L is the measuring length in inch)		
Repeatability of X/Y axis	78.74µin		
Objective	0.7X~4.5X (zoom)		
Working distance	3.62"		
Magnification	29X~184X (on 21.5" monitor)		
Camera	1/3" color CCD, 1.5M pixel		
Illumination	surface and contour with adjustable LED		
Max. height of workpiece	6"		
Max. weight of workpiece	44lb		
Operation system	Windows 7/8/10		
Drive method	manual		
Power supply	110/220V, 50/60Hz		
Dimension (L*W*H)	22.05x21.26x33.46"	29.92x23.62x35.43"	29.92x23.62x35.43"
Weight	220lb	264lb	308lb

SPECIFICATION

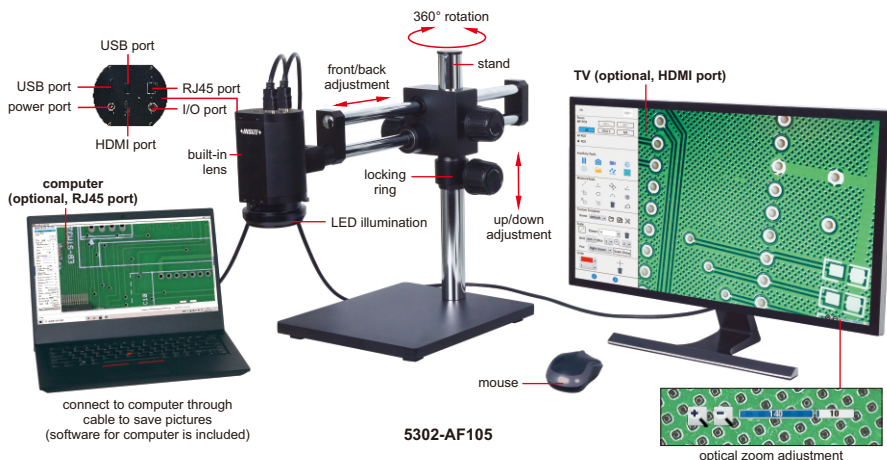
List price	\$ 2393.00
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N (10kg)
Test force	588N (60kg), 980N (100kg), 1471N (150kg)
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	6.69"
Max. testing width	5.31" (from the center of indenter to the wall of main body)
Dimension	18.35x9.37x24.80"
Weight	154lb

STANDARD DELIVERY

Main unit	1 pc
2.28" flat anvil	1 pc
5.91" flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
1/16" DIA steel ball indenter	1 pc
1/16" DIA steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

AUTO FOCUS DIGITAL MICROSCOPES (LARGE VIEW FIELD)

- AUTO FOCUS
- MEASUREMENT
- CAN BE CONNECTED TO PC AND TV AT THE SAME TIME
- TAKE PICTURES AND VIDEOS



5302-AF105

- Auto focus camera
- Take pictures and videos
- Can be connected to TV (HDMI port) and computer (RJ45 port) at the same time
- Built-in measuring software for TV
- Measuring software for computers is included
- Automatic exposure and white balance
- Brightness, contrast ratio, gain are adjustable
- Display cross hair (blue/green/red/yellow/black/brown colors)

Starting At \$ 3749.00

SPECIFICATION

Part No.	5302-AF105 (standard type)	5302-AF108 (high-definition type)
List price	\$ 3749.00	\$ 3850.00
Pixel	2M	8M
Resolution	1920x1080	3840x2160
Magnification	1.4X~25.8X (on 28" TV)	1.4X~51.6X (on 28" TV)
Sensor	1/2.8" CMOS	
Auto focus distance	4"~∞	
Output	HDMI, RJ45	
Frame rate	HDMI: 60fps, RJ45: 50fps	
Power supply	power adapter	
Dimension (L*W*H)	19.69x11.02x16.14"	
Weight	37.48lb	

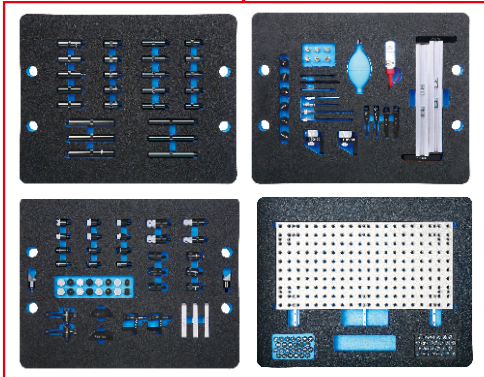
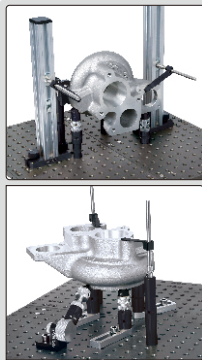
158-PIECE JIG SET FOR CMM
PART NO. ISY-100

\$ 4387.00



Part No.	List price
ISY-100	\$ 4387.00

application examples



ULTRASONIC THICKNESS GAUGE (BASIC TYPE)
PART NO. ISU-100D

\$ 868.00

ATTENTION: NOT SUITABLE FOR CASTINGS AND ALUMINUM WORKPIECES



SPECIFICATION (ON STEEL)

List price	\$ 868.00
Measuring range	.031~11.811"
Resolution	.01/.001"
Accuracy	±.002" (H<.394"), ±(.002"+H/1000)" (.394"≤H<3.937"), ±H/333" (H≥3.937"), H is the thickness to be measured in inch
Transducer	frequency 5MHz diameter (d) .43" DIA
Minimum size of pipes	.79×.05" (diameter×wall thickness)
Velocity	.0394~.3937inch/μs
Operation temperature	main unit: -4~122°F transducer: -4~140°F
Measuring unit	mm/inch
Power supply	2×AAA batteries
Dimension	4.49×2.52×1.1"
Weight	.44lb

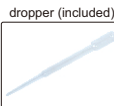
- Measure the thickness from one side of objects, suitable for pipes, tanks, etc.
- Applicable material: steel, stainless steel, glass, copper, brass, polystyrene, titanium, etc.

STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs

MINI DIGITAL REFRACTOMETER
PART NO. 5801-A55

SUITABLE FOR WATER BASED COOLANT



\$ 261.00

- Quickly measure the concentration of coolant
- Automatic temperature compensation
- Brix and refractive index can be displayed
- Refer to the refraction coefficient of coolant, for example: the refraction coefficient of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%
- Automatic power off



SPECIFICATION

List price	\$ 261.00
Measuring range	0~50% (1.3330~1.4200RI)
Accuracy	±0.2% (±0.0003RI)
Resolution	0.1% (0.0001RI)
Power supply	built-in 3.7V rechargeable lithium battery
Dimension	5.79×1.81×1.06"
Weight	.25lb (including battery)

STANDARD DELIVERY

Main unit	1 pc
Dropper	1 pc

13-PIECE MEASURING TOOL SET

\$ 395.00

- Includes:
 - Digital caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (part no. 1108-150)
 - Outside micrometer, range 0-1", graduation .0001" (part no. 3202-1)
 - Dial indicator, range 1", graduation .001" (part no. 2307-1)
 - Magnetic stand (part no. 6201-60)
 - Protractor, range 0-180°, graduation 1° (part no. 4799-180)
 - Pitch gauge, range 4-42TPI, 30 pcs, unified 60° thread (part no. 4820-230)
 - Radius gauge, range 1/32"-1/4" (part no. 4801-15E)
 - Feeler gauge, range .0015"-.035", 31pcs (part no. 4608-31)
 - 90° beveled edge square, 3.937×2.756", grade 0 (part no. 4790-1000)
 - Scriber (part no. 7230)
 - Steel rule, 6"/150mm (part no. 7110-150)
 - Depth base attachment (part no. 6140)
 - Zero setting bar for depth base attachment



5013-E

Part No.	List price
5013-E	\$ 395.00

ROUGHNESS TESTER (SEPARABLE TYPE)
PART NO. ISR-C300

DATA OUTPUT | BLUETOOTH | TOUCH SCREEN | 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
- 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



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 .689" Z axis 12598μin (-6299μin~6299μin)
Accuracy	±10%
Resolution (Ra)	.01μin
Probe	type inductive stylus radius/angle 196μin/90° stylus material diamond
Measuring force	.01ozf
Measuring unit	μm/μin
Cut off	.01/.03/.1"
Number of cut-offs	1~5
Traverse speed	.005"/s, .02"/s, .04"/s
Memory	100 measurement results
Output	bluetooth and USB
Power	built-in rechargeable battery
Dimension (L×W×H)	6.22×2.52×2.05"
Weight	.89lb

\$ 2679.00

STANDARD DELIVERY

Main unit	1 pc
Standard probe	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



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