





Making measurement more scientific since 1995...



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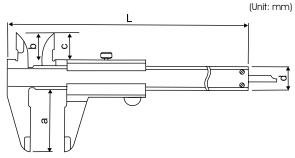
Graduation: 0.02mm/0.0013

(Unit: mm)

Measuring Instruments

Vernier Calipers without fine Adjustment





FEATURES

- Vernier and main scale are with Satin Chrome finish for glare free reading.
- Raised sliding surfaces for protection of the scale.
- Can measure OD, ID, Depth and Steps.
- Made of Stainless Steel.

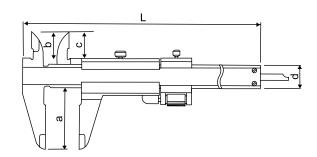
SPECIFICATION & DIMENSIONS

		· ·	Oluu	uanoi	1. 0.02	11111/).OO I
Order No.	Range	Accuracy (±)	а	b	c	d	L
101-150	150mm/6"	0.03mm	40	21	16.5	16	235
101-200	200mm/8"	0.03mm	50	25	20.5	16	290
101-300	300mm/12"	0.03mm	64	27.5	22	20	405

Vernier Calipers with fine adjustment



- finish for glare free reading.
- Raised sliding surfaces for protection of the scale.
- Can measure OD, ID, Depth and Steps.
- Provided with a fine adjustment carriage to feed the slider finely.
- Made of Stainless Steel.



SPECIFICATION & DIMENSIONS

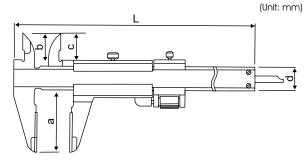
				Graduation: 0.02mm/0.001					
Order No.	Range	Accuracy (±)	a	b	С	d	L		
102-130	130mm/5"	0.03mm	40	21	16.5	16	235		
102-180	180mm/7"	0.03mm	50	25	20.5	16	290		
102-280	280mm/11"	0.03mm	64	27.5	22	20	405		
102-450	450mm/18"	0.05mm	110	45	37	25	610		
102-600	600mm/24"	0.05mm	110	45	37	25	770		

Vernier Calipers with Carbide Jaws



FEATURES

- Carbide Tipped Jaws for internal and external measurements, suitable for measuring rough surfaces, castings, abrasives.
- Vernier and main scale are with Satin Chrome finish for glare free reading.
- Raised sliding surfaces for protection of the scale.
- Can measure OD, ID, Depth and Steps.
- Provided with a fine adjustment carriage to feed the slider finely.
- Made of Stainless Steel.



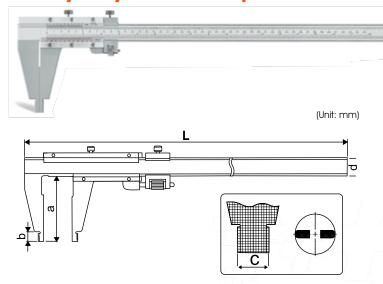
SPECIFICATION & DIMENSIONS

duation: 0.02mm/0.001"

Graduation:	0.02mm/0	nn1 "

Order No.	Range	Accuracy (±)	a	b	С	d	L
103-130	130mm/5"	0.03mm	40	20.5	16.5	16	235
103-180	180mm/7"	0.03mm	50	23.5	19	16	290
103-280	280mm/12"	0.03mm	60	26	20	20	405

Heavy Duty Vernier Calipers



FEATURES

- Vernier and main scale are with Satin Chrome finish for glare free reading.
- Used for Internal, external and step measurements.
- Provided with a fine adjustment carriage to feed the slider finely.
- Made of Stainless Steel.

SPECIFICATION & DIMENSIONS

Graduation: 0.02mm/0.001"

Order No.	Range	Accuracy (±)	a	b	С	d	L
111-300	300mm/12"	0.04mm	75	12	10	20	415
111-450	450mm/18"	0.05mm	100	12	10	25	608
111-600	600mm/24"	0.05mm	100	12	10	25	770
111-1000	1000mm/40"	0.08mm	150	24	20	32	1250
111-1500	1500mm/60"	0.12mm	200	24	20	32	1755
111-2000	2000mm/80"	0.14mm	200	24	20	40	2240

Heavy Duty Solid Type Vernier Calipers



FEATURES

- Mono Block type Vernier Calipers.
- Vernier and main scale are with Satin Chrome finish for glare free reading.
- Used for Internal, external and step measurements.
- Provided with a fine adjustment carriage to feed the slider finely.
- Made of Stainless Steel.

SPECIFICATION & DIMENSIONS

Graduation: 0.02mm/0.001"

(Unit: mm)

Order No.	Range	Accuracy (±)	a	b	C	d	L
112-450	450mm/18"	0.05mm	100	12	10	25	608
112-600	600mm/24"	0.05mm	100	12	10	25	750
112-1000	1000mm/40"	0.08mm	150	24	20	32	1250

Long Jaw Vernier Calipers



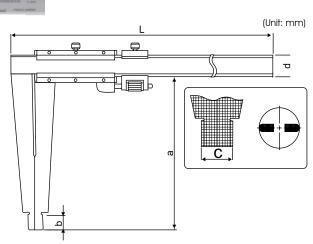
FEATURES

- Long Jaws for measuring hard to reach work pieces.
- Vernier and main scale are with Satin Chrome finish for glare free reading.
- Used for internal, external and step measurements as well.
- Provided with a fine adjustment carriage to feed the slider finely.
- Made of Stainless Steel.

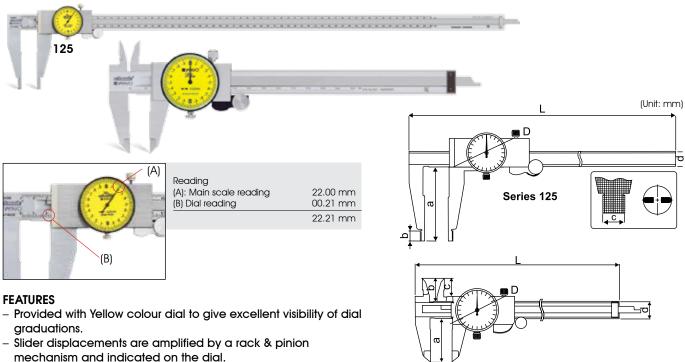
SPECIFICATION & DIMENSIONS

Graduation: 0.02mm/0.001"

Order No.	Range	Accuracy (±)	a	b	С	d	L
113-300	300mm/12"	0.05mm	90	12	10	20	415
113-450	450mm/18"	0.06mm	200	12	10	25	605
113-600	600mm/24"	0.06mm	200	12	10	25	755
113-1000	1000mm/40"	0.08mm	200	24	20	32	1245



Dial Calipers



- mechanism and indicated on the dial.
- Can measure OD, ID, Depth and Steps.
- Shock proof movement.
- Clamping screw atop the slider.
- Zero setting through swivelling dial and locking screw.
- Covered rack keeps gears, wheels clean.
- Made of Stainless Steel.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)	a	Þ	С	a	a	L
121-150	150mm	0.03mm	40	21	16.5	16	39	235
121-200	200mm	0.03mm	50	25	20.5	16	39	290
121-300	300mm	0.04mm	64	27.5	22	20	44.5	405
	Graduation: 0.02mm							

Order No.	Range	Accuracy (±)	a	b	С	d	d	L
122-150	150mm	0.03mm	40	21	16.5	16	39	235
122-200	200mm	0.03mm	50	25	20.5	16	39	290
122-300	300mm	0.04mm	64	27.5	22	20	44.5	405

SPECIFICATION & DIMENSIONS

Graduation: 0.05mm

Oraer No.	kange	Accuracy (±)	a	D	C	a	a	L	
123-150	150mm	0.03mm	40	21	16.5	16	39	235	
123-200	200mm	0.03mm	50	25	20.5	16	39	290	
123-300	300mm	0.04mm	64	27.5	22	20	44.5	405	
Graduation: 0.02mm									
Order No.	Range	Accuracy (±)	а	b	c	d	d	L	
Order No. 125-450		Accuracy (±) 0.08mm	a 86			d 22		L 580	
		, , ,		18		22		_	

Digimatic Calipers



(Unit: mm)

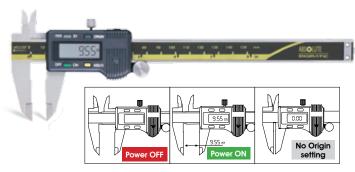
FEATURES

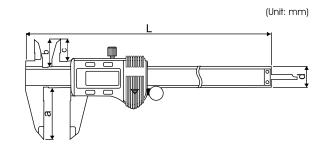
- Slide roller for easy controlled operation.
- Power supply : One LR44 Battery.
- Function: On/Off, Origin (Zero setting), inch/mm.
- Made of Stainless Steel.
- IP54 Protected from limited dust ingress and water spray from any direction

SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)	а	b	C	d	L
130-150	150mm/6"	0.03mm	40	21	16.5	16	235
130-200	200mm/8"	0.03mm	50	25	20.5	16	290
130-300	300mm/12"	0.03mm	62	26	21.5	17	390

Absolute Digimatic Calipers





FEATURES

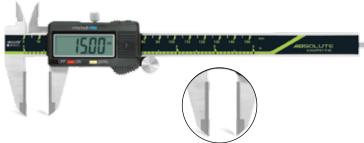
- Slide roller for easy controlled operation.
- Zero/ABS key: Allows the display to be Zero set at any slider position along the scale for incremental comparison measurements.
- This switch will also return to the absolute mode and display the true position from the origin point.
- Power supply: One LR44 Battery.
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of Stainless Steel.

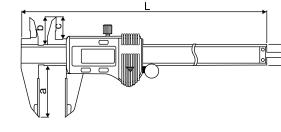
SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)	a	b	C	d	L
131-150	150mm/6"	0.03mm	40	21	16.5	16	235
131-200	200mm/8"	0.03mm	50	25	20.5	16	290
131-300	300mm/12"	0.03mm	64	27.5	22	20	405

Digimatic Calipers with Carbide Jaws





FEATURES

- Carbide Tipped Jaws for internal and external measurements, suitable for measuring rough surfaces, castings, abrasives.
- Provided with slide roller for easy controlled operation.
- Power supply: One LR44 Battery.
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of Stainless Steel.

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

(Unit: mm)

Order No.	Range	Accuracy (±)	a	b	C	d	- 1
133-150	150mm/6"	0.03mm	40	21	16.5	16	235

Digimatic Calipers

WITH DUST & WATER PROOF CONFIRMING TO IP67 LEVEL



(Unit: mm)

FEATURES

- IP67 dust-tight/water resistant.
- Provided with Slide roller for easy controlled operation.
- Power supply : One CR2032 Battery.
- Function: On/Off, Origin (Zero setting), inch/mm.
- 136B series with built in wireless transmission (Bluetooth enabled).
- Made of Stainless Steel.

SPECIFICATION & DIMENSIONS

Range	Accuracy (±)	a	b	C	d	L
150mm/6"	0.03mm	40	21	16.5	16	235
150mm/6" (BLUE TOOTH)	0.03mm	40	21	16.5	16	235
300mm/12"	0.03mm	60	26	21.5	16	390
300mm/12" (BLUE TOOTH)	0.03mm	60	26	21.5	16	390
	150mm/6" 150mm/6" (BLUE TOOTH) 300mm/12" 300mm/12"	150mm/6" 0.03mm 150mm/6" 0.03mm (BLUE TOOTH) 0.03mm 300mm/12" 0.03mm 300mm/12" 0.03mm	150mm/6" 0.03mm 40 150mm/6" 0.03mm 40 (BLUE TOOTH) 0.03mm 60 300mm/12" 0.03mm 60	150mm/6" 0.03mm 40 21 150mm/6" (BLUE TOOTH) 0.03mm 40 21 300mm/12" 0.03mm 60 26 300mm/12" 0.03mm 60 26	150mm/6" 0.03mm 40 21 16.5 150mm/6" (BLUE TOOTH) 0.03mm 40 21 16.5 300mm/12" 0.03mm 60 26 21.5 300mm/12" 0.03mm 60 26 21.5	150mm/6" 0.03mm 40 21 16.5 16 150mm/6" (BLUE TOOTH) 0.03mm 40 21 16.5 16 300mm/12" 0.03mm 60 26 21.5 16 300mm/12" 0.03mm 60 26 21.5 16

Heavy Duty Digimatic Calipers



(Unit: mm)



FEATURES

- Functions: On/Off, ABS, Origin, Inch/mm, data pre-set.
- Power Supply: One CR2032 Battery.
- Made of Stainless Steel.
- Data Output.

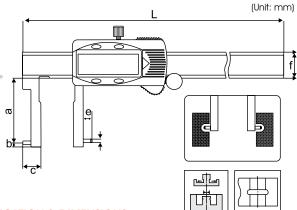
SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)	а	b	C	d	е	L
145-300-100	300mm/12"	0.05mm	100	12	10	25	Х	420
145-300-150	300mm/12"	0.05mm	150	12	10	32	Χ	420
145-450	450mm/18"	0.05mm	100	12	10	25	Х	610
145-600	600mm/24"	0.06mm	100	12	10	25	Χ	770
145-600-150	600mm/24"	0.06mm	150	12	10	32	Χ	770
145-600-200	600mm/24"	0.06mm	200	12	10	32	Х	770
145-1000	1000mm/40"	0.08mm	150	20	20	32	Х	1210
145B-450	450mm/18"	0.05mm	100	12	10	25	55	620
145B-600	600mm/24"	0.06mm	100	12	10	25	55	770

Digimatic Inside Point Type Calipers





FEATURES

- Designed for inside groove measurements.
- Function: On/Off, Origin(Zero Setting), Data Output, inch/mm.
- Power Supply: One LR44 Battery.

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- Made of Stainless Steel.

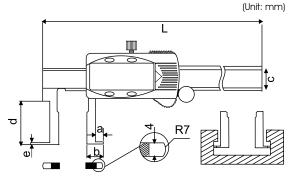
SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)	a	b	C	d	е	f	L
155-150	24-150mm	0.04mm	30	3	12	2	5	16	250
155-200	25-200mm	0.04mm	40	3	12.5	2	5	16	310
155-300	50-300mm	0.06mm	80	3	25	3	10	17	410

Digimatic Inside Flat Point Type Calipers





FEATURES

- Designed for inside groove measurements
- Power supply: One LR44 battery
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of stainless steel

SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)	a	b	С	d	e L
156-150	22-150mm	0.05mm	5	11	16	30	1 250
156-200	25-200mm	0.06mm	5	12.5	16	40	1 310
156-300	30-300mm	0.06mm	5	15	17	50	1.5 410

Digimatic Inside Knife Edge Point Type Calipers



(Unit: mm)

FEATURES

- Designed for inside groove measurements
- Power supply: One LR44 battery
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of stainless steel

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

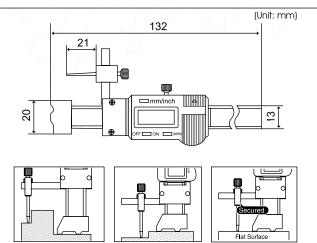
Order No.	Range	Accuracy (±)	a	b	C	d	е	L
157-150	14-150mm	0.05mm	30	10	1	16	5	240
157-200	15-200mm	0.05mm	40	10	1	16	5	290
157-300	17-300mm	0.06mm	50	12	1.5	17	5	400

Digimatic Gap & Step Gauges



FEATURES

- Used for checking the mutual position of two adjacent surfaces
- Zero setting at any position,
- Power supply: One LR44 battery
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of stainless steel

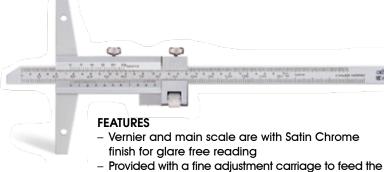


SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)
158-030	-10-30mm	0.02mm

Vernier Depth Calipers

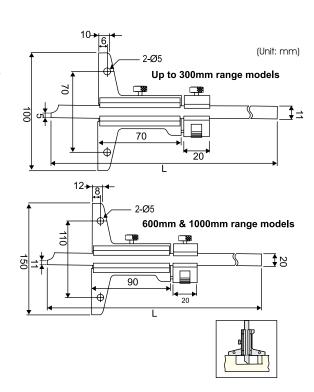


- Provided with a fine dajustment carriage to feed the slider finely
- Base and measuring faces are hardened and micro-lapped

SPECIFICATION & DIMENSIONS

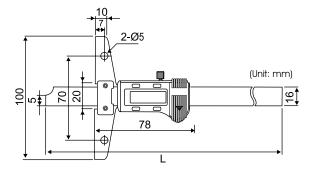
Graduation: 0.02mm/0.001"

Order No.	Range	Accuracy (±)	L
185-150	150mm/6"	0.03mm	250
185-200	200mm/8"	0.03mm	300
185-300	300mm/12"	0.04mm	400
185-600	600mm/24"	0.05mm	720
185-1000	1000mm/40"	0.07mm	1125



Digimatic Depth Calipers





- Provide stable depth measurements.
- Zero/ABS key: Allows the display to be Zero set at any slider position along the scale for incremental comparison measurements.
- This switch will also return to the absolute mode and display the true position from the origin point.
- Power supply: One LR44 Battery.
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of Stainless Steel.

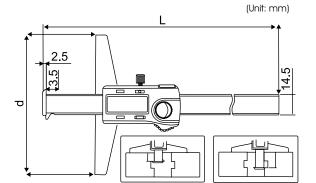
SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)	L
186-150	150mm/6"	0.03mm	250
186-200	200mm/8"	0.03mm	300
186-300	300mm/12"	0.04mm	405

Digimatic Double Hook Depth Calipers





FEATURES

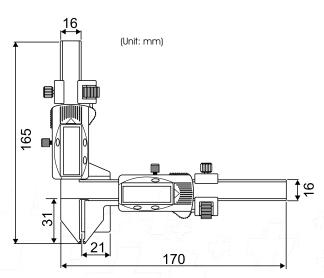
- For depth and step measurements.
- Function: On/Off, Origin(Zero set), ABS, inch/mm conversion.
- Power Supply: One CR1632 battery.
- Data output.
- Made of stainless steel.

SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)	d	L
187-150	0-150mm/0-6"	0.03mm	100	233
187-200	0-200mm/0-8"	0.03mm	100	283
187-300	0-300mm/0-12"	0.04mm	150	383

Digimatic Gear Tooth Calipers





FEATURES

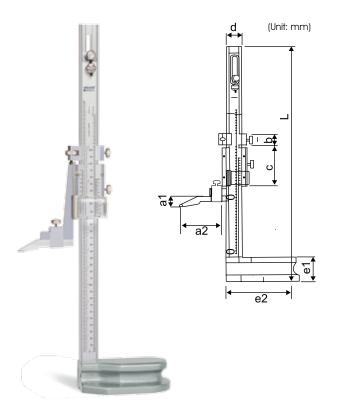
- Accurately measures the thickness of the gear.
- Function: On/Off, Origin(Zero Setting), Data Output, inch/mm.
- Power Supply: Two LR44 Batteries.
- Made of Stainless Steel.
- Carbide Tipped Jaws.

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)
135-025	M1-25mm	0.04mm

Vernier Height Gauges



FEATURES

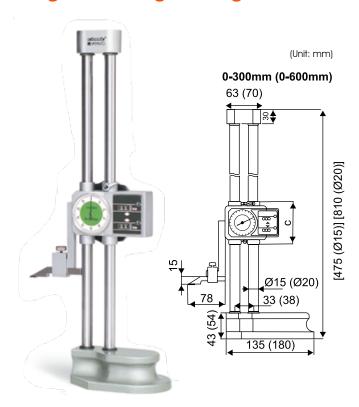
- Right hand type for easy use, clear crisp black graduations on a Satin Chrome finish for glare free reading.
- Provided with carbide tipped scriber.
- Fine adjustment carriage to feed the slider finely.
- Equipped with adjustable sliding scale.
- Provided with magnifier reading glass for easy reading.
- Super solid base for greater stability.

SPECIFICATION & DIMENSIONS

Graduation: 0.02mm/0.001"

Order No.	Range	Accuracy (±)	a1	a2	b	С	d	e1	e2	L
201-300	300mm/12"	0.04mm	17	80	22	74	28	50	140	545
201-450	450mm/18"	0.05mm	19	95	24	90	35	57	170	705
201-600	600mm/24"	0.05mm	19	95	24	90	35	57	170	860
201-1000	1000mm/40"	0.07mm	19	95	24	90	35	57	170	1750

Digit Dial Height Gauges



FEATURES

- Easy and error free reading with both up and down digital counters as well as a dial.
- The digital counter can be Zero set at any position.
- The double column gives high stability.
- Provided with a feed wheel for easy coarse feeding.
- Provided with carbide tipped scriber.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)
225-300	300mm	0.04mm
225-600	600mm	0.05mm

Digimatic Double Beam Height Gauges



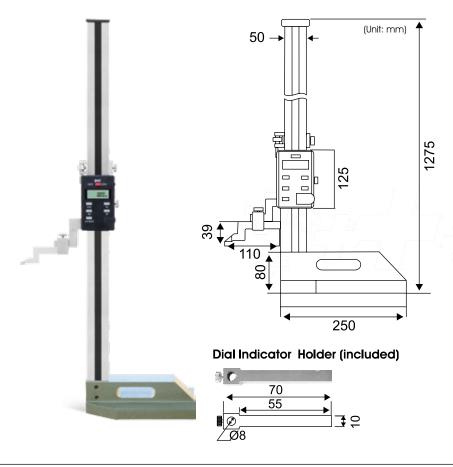
FEATURES

- Can easily measure the height of small parts.
- The clear LCD screen provides digital read out to 0.01 mm for error free reading.
- Double columns provide high stability.
- Provided with a feed wheel for easy coarse feeding.
- Provided with carbide tipped scriber.
- With locking screw.
- Functions: Zero setting, presetting, inch/mm conversion.
- Power supply: One LR44 Battery.

SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)
251-300	300mm/12"	0.04mm
251-600	600mm/24"	0.05mm

Single Beam Digimatic Height Gauge



FEATURES

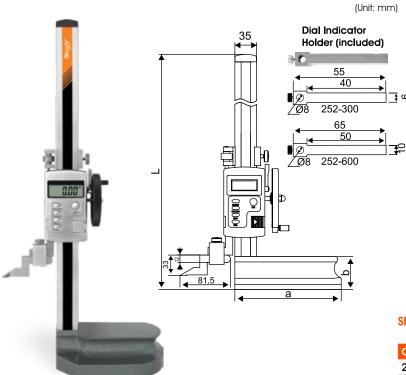
- Carbide Tipped scriber
- Provided with a fine adjustment carriage to feed the slider finely.
- Power supply: One LR44 Battery
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)
253-1000	1000mm/40"	0.07mm

Single Beam Digimatic Height Gauges with hand wheel



FEATURES

- Allows smooth height measurements by using slider adjustment wheel.
- Carbide Tipped scriber.
- Provided with a fine adjustment carriage to feed the slider finely.
- Power supply: One LR44 Battery.
- Function: On/Off, Origin (Zero setting),
 Data output, inch/mm.

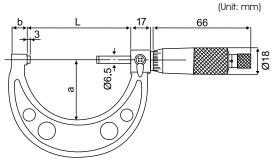
SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)	a	b	L
252-300	300mm/12"	0.04mm	172	53	535
252-600	600mm/24"	0.05mm	178	53	835

CESSE Measuring Instruments

Outside Micrometers





FEATURES

- Carbide tipped measuring faces.
- Clear graduations on Satin Chrome finish.
- Positive locking clamp.
- Ratchet stop for exact repetitive readings.

SPECIFICATION & DIMENSIONS

METRIC		Gradu	atior	n: 0.0	1 mm
Order No.	Range	Accuracy (±)	a	b	L
301-025	0-25mm	$4\mu m$	28	9	32
301-050	25-50mm	$4\mu m$	38	14	57
301-075	50-75mm	5μm	49	15	82
301-100	75-100mm	5μm	60	15	107
301-125	100-125mm	6μm	73	16.5	133
301-150	125-150mm	6μm	85	16.5	158
301-175	150-175mm	$7\mu \mathrm{m}$	104	19.4	183
301-200	175-200mm	7μm	117	19.4	209
301-225	200-225mm	8μm	130	19.4	234
301-250	225-250mm	8μm	142	19.4	260
301-275	250-275mm	9μm	155	19.4	285
301-300	275-300mm	9μm	168	19.4	310

SPECIFICATION & DIMENSIONS

IMPERIAL	-	Grad	luatio	on: 0.	001"
Order No.	Range	Accuracy (±)	a	b	L
301-01	0-1"	0.00015"	28	9	32
301-02	1-2"	0.00015"	38	14	57
301-03	2-3"	0.0002"	49	15	82
301-04	3-4"	0.0002"	60	15	107
301-05	4-5"	0.00024"	73	16.5	133
301-06	5-6"	0.00024"	85	16.5	158
301-07	6-7"	0.00028"	104	19.4	183
301-08	7-8"	0.00028"	117	19.4	209

SPECIFICATION & DIMENSIONS

METRIC		Gradua	ition: (0.00	l mm
Order No.	Range	Accuracy (±)	a	b	L
302-025	0-25mm	$4\mu m$	28	9	32
302-050	25-50mm	$4\mu m$	38	14	57
302-075	50-75mm	5μm	49	15	82
302-100	75-100mm	5μm	60	15	107

SPECIFICATION & DIMENSIONS

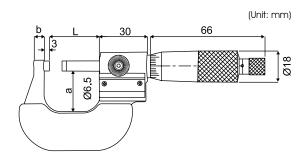
IMPERIA	L	Grad	uatio	n: U.U	001"
Order No.	Range	Accuracy (±)	a	b	L
302-01	0-1"	0.00015"	28	9	32
302-02	1-2"	0.00015"	38	14	57
302-03	2-3"	0.0002"	49	15	82
302-04	3-4"	0.0002"	60	15	107
302-05	4-5"	0.00024"	73	16.5	133
302-06	5-6"	0.00024"	85	16.5	158
302-07	6-7"	0.00028"	104	19.4	183
302-08	7-8"	0.00028"	117	19.4	209

Digit Counter Outside Micrometers



FEATURES

- Provided with a Mechanical counter for quick and error free readings
- Carbide tipped measuring faces.
- Positive locking clamp.
- Ratchet stop for exact repetitive readings.



SPECIFICATION & DIMENSIONS

Counter Graduation: 0.01mm Sleeve Graduation: 0.001mm

Order No.	Range	Accuracy (±)	a	b	L
331-025	0-25mm	4μm	26	6	32
331-050	25-50mm	4μm	32	8	57

(Unit: mm)

48

Digimatic Outside Micrometers







Measuring Tube Wall Thickness

SPECIFICATION & DIMENSIONS

Resolution: 0.001mm/0.0005"

Order No.	Range	Accuracy (±)	a	b	L
352-025	0-25mm/0-1"	2μ m	32	6	27.5
352-050	25-50mm/1-2"	2μm	57	8	37
352-075	50-75mm/2-3"	3μ m	82	8	50
352-100	75-100mm/3-4"	3μm	107	10	61

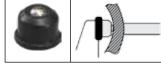
46

FEATURES

- Function: on/off, set, mm/inch, ABS/INC
- No data output
- CR2032 battery, automatic power off
- Carbide measuring faces
- Friction timble
- Supplied with spherical anvil
- Positive locking clamp

Digimatic Outside Micrometers





FEATURES

- Large LCD screen.
- With carbide measuring faces.
- IP65 (Dust and Water Jet Penetration Proof).
- Positive locking clamp.
- Ratchet stop.
- Supplied with spherical anvil.
- Functions: on/off, set, ABS/INC, inch/mm conversion.
- Without data output.
- Power supply : One LR44 Battery

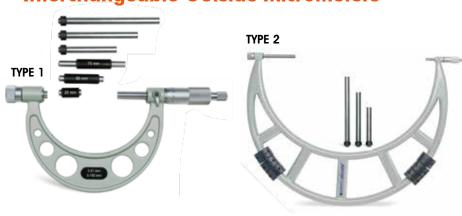
SPECIFICATION & DIMENSIONS

Resolution: 0.001mm/0.0005"

(Unit: mm)

Order No.	Range	Accuracy (±)	a	b	L
351-025	0-25mm	2μ m	25	6	34.5
351-050	25-50mm	2μm	32	8	59.5
351-075	50-75mm	3μ m	44.5	8	84.5
351-100	75-100mm	3μm	57	8	109.5

Interchangeable Outside Micrometers



(Unit: mm) 38 66 TYPE 1 TYPE 2

FEATURES

- Wide measuring range with interchangeable anvils.
- Satin chrome scale.
- Durable frame with insulated grips.
- Carbide tipped measuring faces.
- Provided with Ratchet stop for constant force.
- Supplied with setting standards for each range.

- supplied will sell	ing sidiladic	33 IOI	Cuc	in lange.	- supplied with senting standards for each range.					
SPECIFICATION & DIMENSIONS										
Type 1:	Graduation	: 0.01	lmm	SPECIFICATION 8						
Order No. Range	Accuracy (±)	a	L	Type 1:	Graduation:					
311-050 0-50mm	$4\mu m$	35	58	Order No. Range	Accuracy (±)					
311-100 0-100mm	5µm	57	108	311-002 0-2"	0.00015"					
311-150 0-150mm	6μm	82	158	311-004 0-4"	0.0002"					
311-151 50-150mm	6μm	82	158	311-006 0-6"	0.00024"					
311-200 100-200mm	1 7μm	114	208	311-026 2-6"	0.00024"					
311-300 150-300mm	9μm	165	308	311-048 4-8"	0.00028"					
311-301 200-300mm	9μm	165	308	311-612 6-12"	0.00035"					
	•									

Type 1:		Graduation	1: 0.0	100
Order No.	Range	Accuracy (±)	a	L
311-002	0-2"	0.00015"	35	58
311-004	0-4"	0.0002"	57	108
311-006	0-6"	0.00024"	82	158
311-026	2-6"	0.00024"	82	158
311-048	4-8"	0.00028"	114	208
311-612	6-12"	0.00035"	165	308

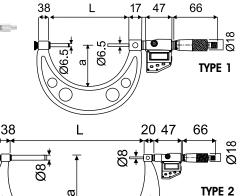
SPECIFICATION & DIMENSIONS

Type 2:		Graduation	n: 0.0	11mm
Order No.	Range	Accuracy (±)	a	L
311-400	300-400mm	11μm	224	409
311-500	400-500mm	13μm	275	509
311-600	500-600mm	1 <i>4μ</i> m	321	609
311-700	600-700mm	16μm	371	709
311-800	700-800mm	18μm	426	809
311-900	800-900mm	20μm	476	909
311-1000	900-1000mm	22μm	576	1009

Digimatic Interchangeable Outside Micrometers







(Unit: mm)

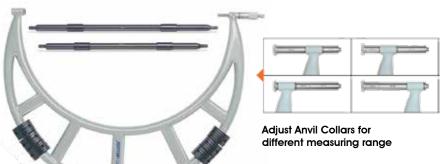
FEATURES

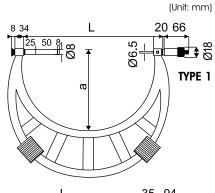
- Large LCD screen.
- With carbide measuring faces.
- IP54 (Dust and Water Resistant).
- Positive locking clamp.
- Ratchet stop.
- Functions: on/off, set, ABS/INC, inch/mm conversion.
- With data output.
- Power supply: One Battery LR44
- Supplied with setting standards for each range
- Optional: Output Data Cable

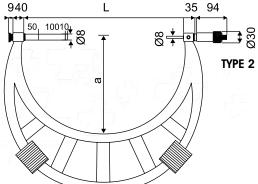
Type 1:		Resolution : 0.001mm/0.0001			
Order No.	Range	Accuracy (±)	a	L	
361-050	0-50mm	2μ m	35	58	
361-100	0-100mm	3μ m	57	108	
361-150	0-150mm	3μ m	82	158	
361-151	50-150mm	3μ m	82	158	
361-200	100-200mm	$4\mu m$	114	208	
361-300	150-300mm	5μ m	165	308	
361-301	200-300mm	5μm	164	308	

Type 2:		Resolution: 0	0.001mm/0.	0001"
Order No.	Range	Accuracy (±)	a	L
361-400	300-400mm	6μm	224	409
361-500	400-500mm	7μm	275	509

Adjustable Outside Micrometers







FEATURES

- Wide measuring range with anvil collars.
- Tube type low-weight model.
- Satin chrome scale.
- Durable frame with insulated grips.
- With carbide measuring faces.
- Provided with Ratchet stop for constant force.
- Supplied with setting standards for each range.

SPECIFICATION & DIMENSIONS

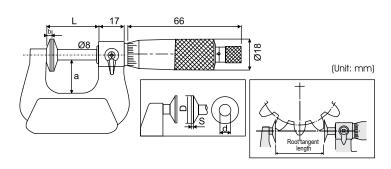
Type 1:		Graduatio	on: 0.	01mm
Order No.	Range	Accuracy (±)	a	L
312-400	300-400mm	11 <i>µ</i> m	250	410
312-500	400-500mm	13 μ m	295	510
312-600	500-600mm	1 <i>4µ</i> m	345	610
312-700	600-700mm	16μm	395	710
312-800	700-800mm	18µm	445	810
312-900	800-900mm	$20\mu m$	495	910
312-1000	900-1000mm	$22\mu m$	545	1010

SPECIFICATION & DIMENSIONS

Type 2:		Graduati	on: 0.	01mm
Order No.	Range	Accuracy (±)	a	L
312-1200	1000-1200mm	22μm	645	1210
312-1400	1200-1400mm	24μm	745	1410
312-1600	1400-1600mm	$28 \mu m$	845	1610
312-1800	1600-1800mm	$31 \mu m$	945	1810
312-2000	1800-2000mm	$34 \mu m$	1045	2010

Disc Micrometers





FEATURES

- Measures "root tangent length" of spur gears and helical gears.
- Equipped with Ratchet Stop for constant measuring force.

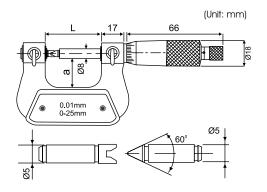
				G	radı	uatio	n: 0.0	1mm
Order No.	Range	Accuracy (±)	a	b	L	DØ	S	d
321-025	0-25mm	4μm	24	3.3	34	20	0.7	8
321-050	25-50mm	4μm	32	3.3	59	20	0.7	8
321-075	50-75mm	5µm	45	3.3	85	20	0.7	8
321-100	75-100mm	5µm	57	3.3	110	20	0.7	8
321-125	100-125mm	6μm	70	4.3	138	30	0.9	12
321-150	125-150mm	6μm	82	4.3	163	30	0.9	12
321-175	150-175mm	7μm	95	4.3	188	30	0.9	12
321-200	175-200mm	7μm	107	4.3	214	30	0.9	12

Screw Thread Micrometers



FEATURES

- Measures pitch diameter of various screw threads
- Supplied with set of 5 matching anvils/spindle tips for pitch measurements.
- Supplied with 60° setting standard (except for 0-25mm).
- Ratchet stop for constant force.



SPECIFICATION & DIMENSIONS

		0.01	
(=raa	uation:	0.01mm	1

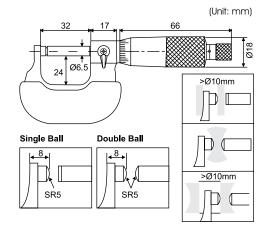
Order No.	Range	Accuracy (±)	а	L Remarks
322-025	0-25mm	4μ m		42 5(mm/TPI) set of
322-050	25-50mm	4μm	38	67 Matching Anvils/ Spindle included 0.4-0.5/64-48, 0.6-0.9/44-28, 1-1.75/24-14, 2-3/13-9, 3.5-5/8-5

Tube Outside Micrometers



FEATURES

- Measures wall thickness of tubes.
- Carbide tipped measuring faces.
- Clear graduations on Satin Chrome finish.
- Positive locking clamp.
- Ratchet stop for exact repetitive readings.



SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Туре	Accuracy (±)
324-025\$	0-25mm	Single Ball	$4\mu m$
324-025D	0-25mm	Double Ball	4μ m

Point Outside Micrometers



(Unit: mm) 57 17 66 325-25A 325-25B 15° SR0.3 30° SR0.3

FEATURES

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways.
- Carbide tipped measuring points
- Ratchet stop for constant force

SPECIFICATION & DIMENSIONS

 Order No.
 Range
 Degree
 Accuracy (±)

 325-25A
 0-25mm
 15° 4μ m

 325-25B
 0-25mm
 30° 4μ m

Crimp Height Micrometers



(Unit: mm) 4 λ_{60} Ø.05

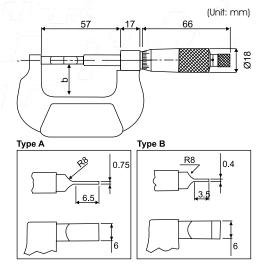
SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)
326-025	0-25mm	4μm

Blade Outside Micrometers





FEATURES

- Measures groove diameter of shafts, keyways.
- Ratchet stop for constant force.
- Non-rotating spindle.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Туре	Accuracy (±)	a	L
323-25A	0-25mm	Α	4μ m	32	57
323-50A	25-50mm	Α	4μ m	44.5	82
323-75A	50-75mm	Α	5μm	57	107
323-100A	75-100mm	Α	5μm	69.5	132.6
323-25B	0-25mm	В	4μm	32	57

Tubular Inside Micrometers



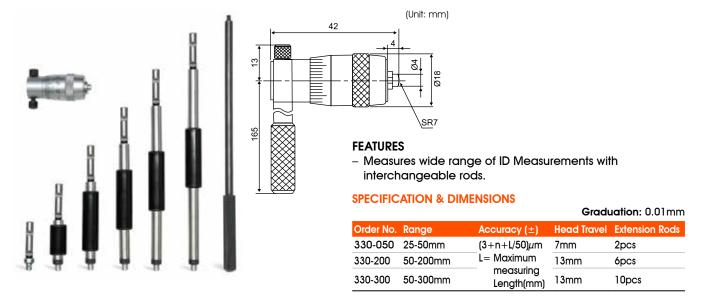
(Unit: mm) M12x1 \sr8 329 - 1.000 / 1.500 329 - 300 / 500 M12x1

FEATURES

- Measures wide range of ID measurements by combining extension rods and anvils with the micrometer head.
- Carbide tipped measuring faces.

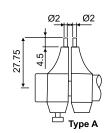
				Giadualion. 0.01111111
Order No.	Range	Accuracy (±)	Head Travel	Extension Rods
329-300	50-300mm	$(3+n+L/50)\mu m$	13mm	13, 25, 50 (2pcs), 100
329-500	50-500mm	n= No. of Rods	13mm	13, 25, 50 (2pcs), 100, 200
329-1000	50-1000mm	L= Maximum Measuring	13mm	13, 25, 50 (2pcs), 100, 200, 250 (2pcs)
329-1500	50-1500mm	Length	13mm	13, 25, 50 (2pcs), 100, 200, 250 (4pcs)
329-2100	100-2100mm		25mm	25, 50, 100, 200, 400 (4pcs)

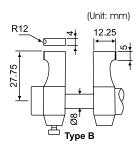
Inside Micrometers Rod Type



Jaw Type Inside Micrometers







FEATURES

- Caliper type jaws for ID measurements.
- Carbide tipped measuring faces.
- Supplied with setting ring.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)	Туре	Setting Ring
328-030	5-30mm	7μ m	Α	5mm
328-050	25-50mm	8μm	В	25mm

Groove Micrometers



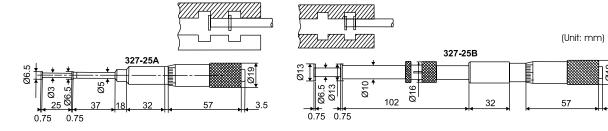
FEATURES

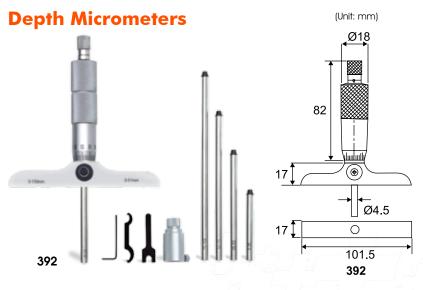
- Measures width, depth of grooves, inside/outside bores and tubes.
- With two graduations for inside and outside measurements.
- Non-rotating spindle has two directional ratchet stop for constant force.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

	F	Range		
Order No.	Outside	Inside	FlangeØ	Accuracy (±)
327-25A	0-25mm	1.6-26.5mm	6.5mm	10μm
327-25B	0-25mm	1.6-26.5mm	13mm	10μm





FEATURES

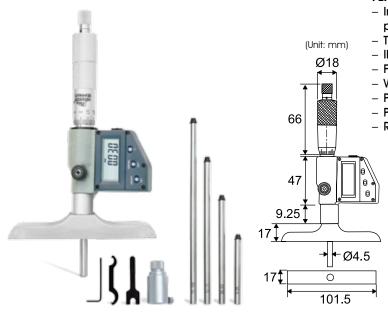
- Interchangeable rods, with lapped measuring end, provide a wide measuring range.
- Clear graduations on Satin Chrome finish.
- The rod length can be adjusted in 25mm increments.
- Positive locking clamp.
- Ratchet stop for exact repetitive readings.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)	
392-025	0-25mm	4μ m	
392-050	0-50mm	4μ m	
392-100	0-100mm	5µm	
392-150	0-150mm	5μm	

Digimatic Depth Micrometers



FEATURES

- Interchangeable rods, with lapped measuring end, provide a wide measuring range.
- The rod length can be adjusted in 25mm increments.
- IP54 (Dust and Water Resistant).
- Functions: on/off, set, ABS/INC, inch/mm conversion.
- With data output.
- Power supply: One Battery LR44.
- Positive locking clamp.
- Ratchet stop for exact repetitive readings.

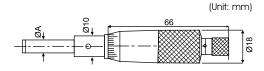
SPECIFICATION & DIMENSIONS

Resolution: 0.001mm/0.00005"

Order No.	Range	Accuracy (±)
393-025	0-25mm	
393-050	0-50mm	Micrometer head 3µm
393-100	0-100mm	— Rod (2+L/75)µm L=Maximum Measuring Length
393-150	0-150mm	E-Maximam Meadaming Lengin

Micrometers Head





FEATURES

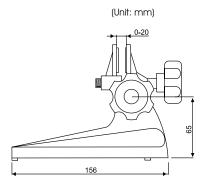
- Carbide Tipped Measuring Face.
- Ratchet Stop for constant force.

		Graduation: 0.01mm
Danas	A CX	Accuracy ())

Order No.	Range	AØ	Accuracy (±)	
5001	0-25mm	6.5mm	3μ m	
5002	0-25mm	8mm	3μm	

Micrometers Stands





FEATURES

 Designed to hold micrometers upto 100mm, for easy and accurate measurement.

SPECIFICATION & DIMENSIONS

Order No.	
6001	

Inside Dial Caliper Gauges



SH





(Unit: mm)

FEATURES

 Measures ID, inside grooves, center distance.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

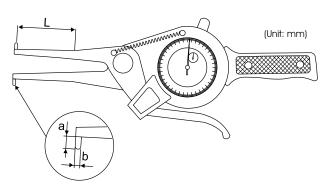
Range	Accuracy (±)	L	S	Н	A(R)
5-25mm	0.03mm	35	1	1.5	0.3
10-30mm	0.03mm	55	2	3.5	0.5
20-40mm	0.03mm	80	3	6.5	0.5
30-50mm	0.03mm	80	3	8.5	0.5
40-60mm	0.03mm	80	3	8.5	0.5
	5-25mm 10-30mm 20-40mm 30-50mm	5-25mm 0.03mm 10-30mm 0.03mm 20-40mm 0.03mm 30-50mm 0.03mm	5-25mm 0.03mm 35 10-30mm 0.03mm 55 20-40mm 0.03mm 80 30-50mm 0.03mm 80	5-25mm 0.03mm 35 1 10-30mm 0.03mm 55 2 20-40mm 0.03mm 80 3 30-50mm 0.03mm 80 3	5-25mm 0.03mm 35 1 1.5 10-30mm 0.03mm 55 2 3.5 20-40mm 0.03mm 80 3 6.5 30-50mm 0.03mm 80 3 8.5

Inside Pistol Caliper Gauges



FEATURES

- Measures ID, inside grooves, center distance.



SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)	a	L	bØ
464-035	15-35mm	0.04mm	3	50	3
464-055	35-55mm	0.04mm	6	80	3
464-075	55-75mm	0.04mm	8	90	3
464-095	75-95mm	0.04mm	8	100	3
464-115	95-115mm	0.04mm	10	150	3.2
464-135	115-135mm	0.04mm	10	150	3.2

Outside Pistol Caliper Gauges



(Unit: mm)

FEATURES

- Measures OD, groove thickness, tube wall thickness.

SPECIFICATION & DIMENSIONS

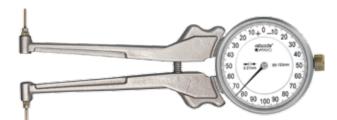
Graduation: 0.01mm

Order No.	Range	Accuracy (±)
465-020	0-20mm	0.04mm

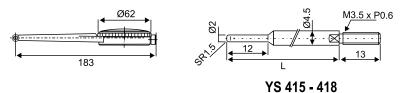
Internal Dial Caliper Gauges

(WITH INTERCHANGEABLE ANVILS)

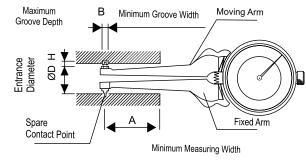
(Unit: mm)



Dimensions: Spare Contact Points (Option) External Dimensions



Dimensions



Order No.	L
YS-415	23
YS-416	31
YS-417	39
YS-418	47

YS 414

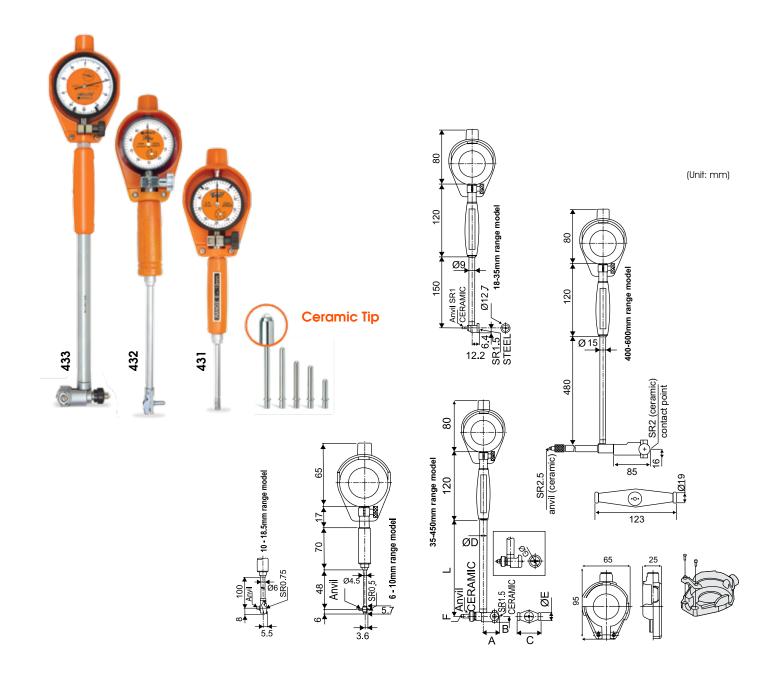
FEATURES

- Internal dial caliper gauge can measure internal diameter of cylindrical work piece and recessed groove diameter.
- Set dimension within ±1mm (indication range 2mm) can be comparatively measured by alternatively using auxiliary spare contact point in accordance with measured dimension.
- Please set standard dimension within measuring range with micrometer or ring gauge.
- Provided with a set of interchangeable spare measuring contact points that enables to measure various dimensions.

*Ø D=Measuring Range – 2H

Order No.	Graduation (mm)	Measuring (mm)	Indicating Range (mm)	Accuracy (μm)	Measuring Face (N)		Contact	Point Measuring Range (mm)	Maximum Depth A (mm)	Diameter		Minimum Groove B (mm)									
				YS-413 55-73		45-53	5														
		0.01 55-153 2	53 2	(±)20 3 or les			YS-414	71-89		54-72	8.5										
VM 4 000	0.01				2 01 1000	3 or less 240	YS-415	87-105	00	70-88	8.5	2 5									
YM-882 0.0	0.01				3 Of less	3 Of Iess	3 Of less	3 Of less	3 or less	3 Of less	3 Of less	240	YS-416	103-121	90	86-104	8.5	3.5			
																				YS-417	119-137
							YS-418	135-153		118-136	8.5										

Dial Bore Gauges



FEATURES

- Supplied with interchangeable anvils in different sizes.
- The Dial indicator is fully protected by a rugged cover.
- Packed as a set with all necessary accessories.

YAMAYO offers Dial Bore Gauges with interchangeable anvils and necessary accessories to perform close tolerance measurements of holes, taper and roundness.

SPECIFICATION & DIMENSIONS

Repeatability: 0.003mm

Order No.	Range	Indicator	Accuracy (±)
431-010	6-10mm	3mm x 0.01mm	0.012mm
432-018	10-18mm	3mm x 0.01mm	0.012mm
433-035	18-35mm	10mm x 0.01mm	0.015mm
433-060	35-60mm	10mm x 0.01mm	0.018mm
433-160	50-160mm	10mm x 0.01mm	0.018mm
433-250	160-250mm	10mm x 0.01mm	0.018mm
433-450	250-450mm	10mm x 0.01mm	0.018mm
433-600	400-600mm	10mm x 0.01mm	0.020mm

	Graduation: 0.01						.01mm
Order No.	Α	В	С	DØ	EØ	GØ	L
433-060	12.2	6.4	27	12.8	13	14	150
433-160	26	9	27	12.8	13	14	150
433-250	56.5	13	74.5	12.8	15	20	409
433-450	86.5	15	101.5	14.5	15	20	409

Telescoping Gauges



FEATURES

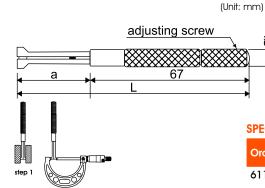
- Used for measurements of internal diameter of holes and width of slots, measurement readings are achieved by using outside micrometer
- Supplied in a set of 6 gauges.

SPECIFICATION & DIMENSIONS

Order No.	Range	Gauges Included	L	AØ	BØ	СØ
612-150	8-150mm	8-12.7mm	115	4	3	6
		12.7-19mm	115	5	4	6
		19-32mm	115	5	4	6
	32-54mm	138	7	6	7	
		54-90mm	138	7	6	7
		90-150mm	138	7	6	7

Small Hole Gauges





FEATURES

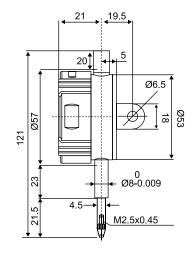
- Measures small holes, grooves and slots.
- Supplied with 4 gauges per set.
- Satin chrome finish.

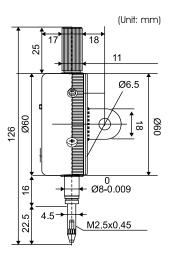
SPECIFICATION & DIMENSIONS

Order No.	Range	Gauges Included	L	Øb	Øa
611-013 3-13mn		3-5mm	90	5.5	22.5
			97.5	5.5	30
		7.5-10mm	103	8.5	35
		10-13mm	103	8.5	40

Digimatic Indicators







FEATURES

- Functions: On/Off, Origin (Zero setting), Data output, inch/mm.
- Power Supply: One CR2032 battery.
- Provided with Flat and Lug backs.
- 415-010 with IP54 Protection.
- 415-010 with Ceramic Tip.

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)	Hysteresis
415-010	12.7mm/0.5"	1 <i>5µ</i> m	$10\mu m$

Order No.	Range	Accuracy (±)	Hysteresis
415-001	12.7mm/0.5"	5μm	$2\mu m$

Dial Indicators



SPECIFICATION & DIMENSIONS

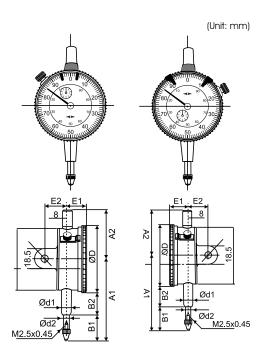
Graduation:	0.01mm
-------------	--------

Order No.	Range	Accuracy (±)	Hysteresis	Range/ Rev	Dial Reading
401-001	1mm x 0.001mm	5μ m	$2\mu m$	0.2mm	0-100
402-010	10mm x 0.01mm	1 <i>7µ</i> m	$3\mu m$	1mm	0-100
403-005	5mm x 0.01mm	16μm	$3\mu m$	0.5mm	0-50
404-025	25mm x 0.01mm	30μm	6μm	1mm	0-100
405-010	10mm x 0.01mm	1 <i>7μ</i> m	3µm	1mm	0-100

Order No.	A1	A2	B1	B2	DØ	E1	E2	Ød1	Ød2
401-001	64.7	57.5	14	18.8	60	16.5	18.5	8	4.5
402-010	68.4	45.5	20.9	17.5	60	14.5	19	8	4.5
403-005	50.5	33	17.5	13	40	14	18	8	4
404-025	56	56	36	17	56	15.5	20.5	8	4.5
405-010	68.5	45	21	18.5	58	16	19	8	4.5

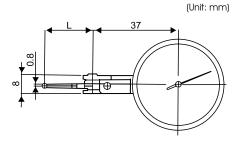
FEATURES

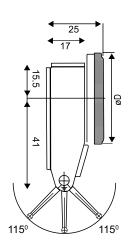
- Satin Chrome body with inset dial indicator for measuring mm stroke.
- Adjustable scale with stop screw.
- Jeweled movement.
- Provided with Flat and Lug type back plates.



Dial Test Indicators







FEATURES

- Provides easy and accurate measurements of narrow and recessed areas.
- Two way measuring directions
- High Sensitivity and Quick Response.
- Jeweled Movement.
- Carbide Contact point is provided as standard.
- Supplied with dovetail locks.
- Optional Long Stylus 44.5 mm

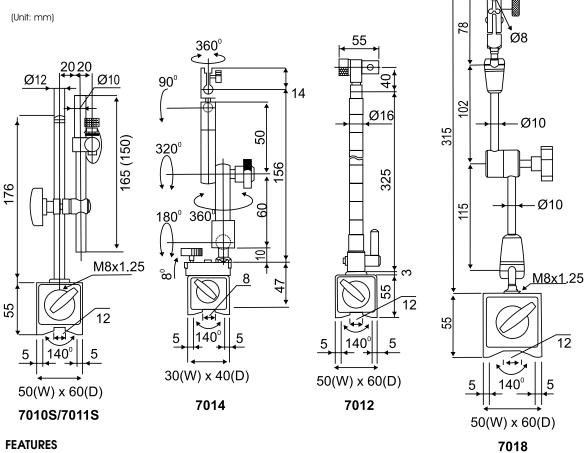
SPECIFICATION & DIMENSIONS

Graduation: 0.01mm Order No. Range Accuracy (±) Hysteresis Dial Reading DØ 445-08 0.8mm 0-40-0 20.5 $13\mu m$ $3\mu m$ 32 446-08 0.8mm 0-40-0 38 20.5 $13\mu m$ $3\mu m$ 446-08L 0-40-0 0.8mm $13\mu m$ 38 44.5 $3\mu m$

Cra	duat	lion:	0.02mm	

Order No.	Range	Accuracy (±)	Hysteresis	Dial Reading	DØ	L
447-02	0.2mm	6μm	$2\mu m$	0-100-0	38	20.5





FEATURES

- With powerful On/Off magnetic base.
- The On/Off switch offers instant mounting and dismounting without any adverse effect to indicator or the work surface.
- For Digital/Dial Indicators and Dial Test Indicators.
- Extra rigid.

Order No.	Magnetic Force	Applicable Holding Stem Ø	Dovetail groove	Remarks
7010S	80kgf	8mm, 1/4" (6.35mm)	-	-
7011S	80kgf	8mm, 1/4" (6.35mm)	-	With Fine Adjustment
7014S	40kgf (mini)	8mm	Provided	With Fine Adjustment
7012	80kgf	1/4" (6.35mm), 3/8" (9.53mm)	Provided	-
7018	80kgf	8mm	Provided	-

Lever Dial Holders



FEATURES

UNIVERSAL HOLDER (6101)

- Compatible with all types of dial test indicators
- With dovetail slide clamp.

HOLDER (6102)

Dial test indicator can be set at the required attitude to the work-piece

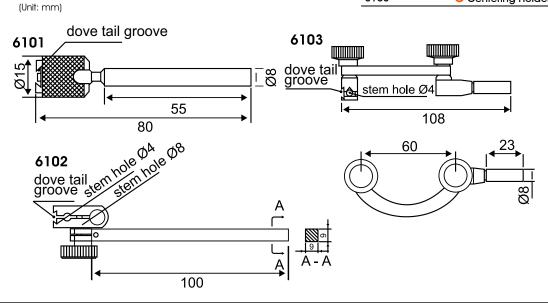
CENTERING HOLDER (6103)

- Cylinders and holes can be centered on machine tools

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Туре
6101	Universal Holder
6102	3 Holder
6103	Centering Holder



Gauge Block Set



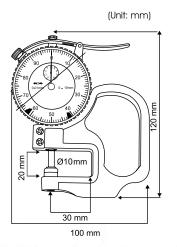
FEATURES

- Made from high quality steel.
- Excellent wring-ability.

			-
Order No.	Grade	Blocks Per Set	Block included in Set
621-1120	0	112 pcs	- 1.0005 mm (1 pc.)
621-1122	2	112 pcs	_ Step of 0.001 mm : 1.001-1.009 (9 pcs.)
			Step of 0.01 mm : 1.01-1.49 (49 pcs.) Step of 0.5 mm : 0.5 - 24.5 (49 pcs.) Step of 25 mm : 25 - 100 (4 pcs.)
621-870	0	87 pcs	Step of 0.001 mm : 1.001-1.009 (9 pcs.)
621-872	2	87 pcs	Step of 0.01 mm : 1.01-1.49 (49 pcs.)
			Step of 0.5 mm : 0.5 - 9.5 (19 pcs.)
			Step of 10 mm : 10 - 100 (10 pcs.)
621-830	0	83 pcs	_ 0.5 mm (1 pc.); 1.0 mm (1 pc.);
621-832	2	83 pcs	1.005 mm (1 pc.)
			Step of 0.01 mm : 1.01-1.49 (49 pcs.) Step of 0.1 mm : 1.5 -1.9 (5 pcs.)
			Step of 0.5 mm : 2.0 - 9.5 (16 pcs.)
			Step of 10 mm : 10 - 100 (10 pcs.)
621-322	2	32 pcs	- 1 005mm (lpc): 50mm (lpc)
			- 1.005mm (1pc.): 50mm (1pc.) Step of 0.01mm: 1.01 – 1.10 (10pcs.)
			Step of 0.1mm: 1.10 – 1 (10pcs.)
			Step of 1mm: 1 – 10 (10pcs.)
			Step of 10mm: 10 – 30 (3pcs.)

Dial Thickness Gauges





FEATURES

- Suitable for measuring thickness of paper, film, wire, sheet metal, jewelry, leather and similar materials.
- Equipped with ceramic rust free spindle tips.

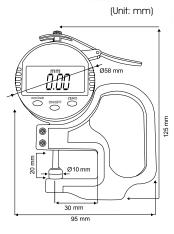
SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accuracy (±)
462-10	10mm	0.02mm

Digimatic Thickness Gauges





FEATURES

- Suitable for measuring thickness of paper, film, wire, sheet metal, jewellery, leather and similar materials.
- Equipped with ceramic rust free spindle tips.
- Functions: On/Off, Origin(Zero setting),
 Data output, inc/mm.
- Power Supply: One CR2032battery, automatic power off.

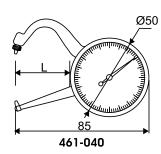
SPECIFICATION & DIMENSIONS

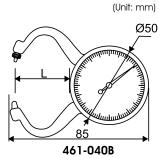
Graduation: 0.01mm

Order No.	Range	Accuracy (±)
466-010	0.01mm/0.0005"	0.1mm
466-001	0.001mm/0.00005"	0.005mm

P Type Dial Caliper Gauges







FEATURES

 Compact and convenient these calipers measure the thickness of leather, fabric, paper, metal or any other kind of similar material, made from the highest quality parts and material, ensuring years of reliable service. Comes in an impact resistant plastic case.

SPECIFICATION & DIMENSIONS

Graduation: 0.05mm

Order No.	Range	Accuracy (±)	L
461-040	10mm	0.1mm	35
461-040B	10mm	0.1mm	30

Quick Mini Thickness Gauges



FEATURES

- Suitable for quick thickness inspection of gems stones, paper, leather, wires, plastic parts, etc.
- Flat measuring faces on one side for easy and multiple usage.
- Functions: On/Off, Origin(Zero set), inch/mm conversion.
- Power Supply: One LR44 battery.

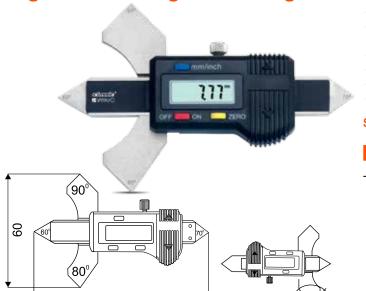
(Unit: mm)

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

Order No.	Range	Accuracy (±)
475-025	25mm/1"	0.03mm

Digimatic Welding Seam Gauges



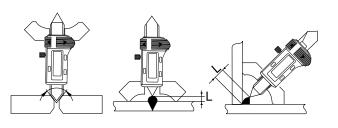
FEATURES

- Used for measuring welding seam thickness.
- Can check the angles of the groove (The gauge is provided with four angular templates: 60°, 70°, 80° and 90°
- Zero setting at any position,
- Power supply: One LR44 battery
- Function: On/Off, Origin (Zero setting), Data output, inch/mm.
- Made of stainless steel

SPECIFICATION & DIMENSIONS

Resolution: 0.01mm/0.0005"

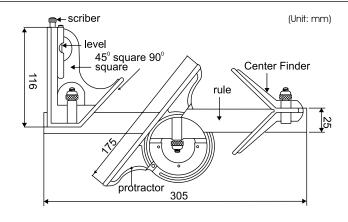
Order No.	Range	Accuracy (±)
800-020	0-20mm	0.03mm



Combination Square Sets

100





FEATURES

- Three measuring heads are attached to the stainless steel rule (blade) allowing versatile measurements on various types of work pieces.
- Square head is used to set the ruler at 90° or 45° to an edge of a work piece.
- Center head is used to locate centers of round work pieces.
- Protractor head is used to set the ruler at a desired angle to an edge of a work piece. Also used for measuring angles.
- The measuring heads are hardened.

SPECIFICATION & DIMENSIONS

Graduation: 5min (0°-90°-0°)

Order No.	Range	Accuracy (±)
501-300	300mm	Center – 0.15mm
501-600 600mm		Protractor – 7 min
		Square 45°-10 min
		Square 90°-8 min

Bevel Protractors



SPECIFICATION	& DIMENSIONS	Graduation: 5'
Order No.	Range	Accuracy (±)
511-360	∩-360º	5'

150mm blade (Unit: mm) fine adjustment 300

FEATURES

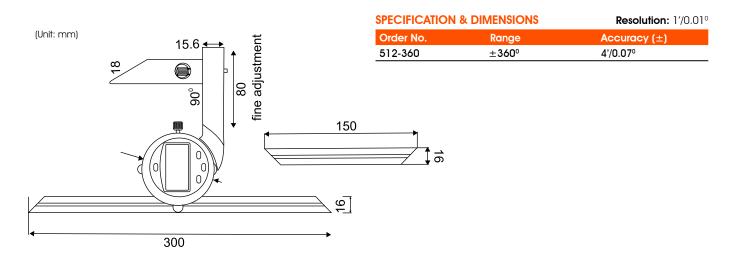
- For use as a reference for assembling and machining.
- Provided with magnifying glass for easy readings.

Digimatic Bevel Protractors



FEATURES

- Highly precise instrument for accurately measuring the angles of machines, moulds and jigs.
- Made of stainless steel.
- All the measuring faces are grounded.
- Supplied with suitable gauge holder for the instrument to be attached with height gauges.
- Power Supply: One CR2032 battery.
- Functions: On/Off/Ref, Hold, Mode: short press to select 90°, 180°, 360°, Long press to switch between "°" and "´", CAL to invert the display.



Angle Gauge Set



FEATURES

- Used for checking of internal and external angles.
- Quick reference gauge for inspection in various industries like metal fabrication, wood working, tools and moulds.

SPECIFICATION & DIMENSIONS

Order No.	Range	Composition of Angle Gauges (°)	Set of	Accuracy (±)
601-18	5º-90º	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90	18 pcs	30'

Radius Gauges



FEATURES

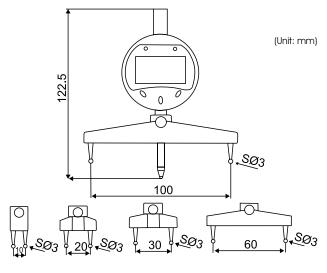
 Each piece compromises of 2 internal and 3 external radius gauge.

SPECIFICATION & DIMENSIONS

Order No.	Range	Composition of Angle Gauges (°)	Set of	Accuracy (±)
602-26	0.5-15mm	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5. 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0	26 pcs	0.05mm

Digimatic Pye Tapes





FEATURES

- For measuring radius of internal and external arcs.
- 5 jaws provided for measuring different sizes of arcs.
- Power Supply: One CR2032 battery.

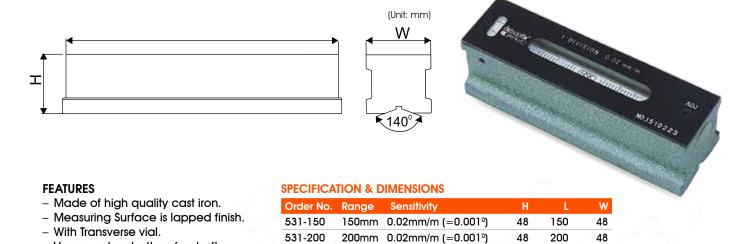
SPECIFICATION & DIMENSIONS

Resolution: 0.005mm/0.00005"

Order No.	Range of radius (R)	Accuracy (±)	
651-700	5-700mm/0.2-27.5"	0.01R	

R being the radius to be measured

Linear Levels



300mm 0.02mm/m (=0.001°)

Digital Levels

– V-grooved on bottom for shafts.

- Supplied with adjusting wrench.



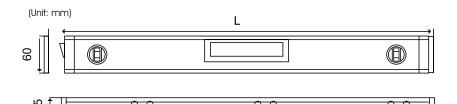
531-300

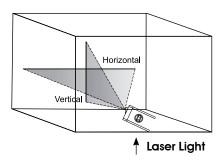


300

48

48





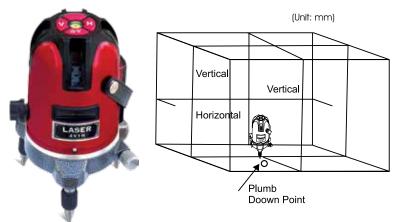
FEATURES

- Measures angles, levels quickly and accurately.
- Frame made of aluminium
- Magnetic bottom
- Permanent zero pre-set
- Power supply: Two AAA batteries
- Function: On/Off, absolute and relative measurement conversions, backlight, mm/m, %, in/ft conversions, alarm buzzer.
- Auto display flip over when bottom faces up
- Horizontal and Vertical cross line laser light
- Machined base for higher accuracy

Resolution: 0.1º

Order No.	Range	Length	Accuracy (±)
533-330	0-360º(90ºx4)	300mm	
533-345		450mm	0° and 90° :0.1° Rest: 0.2°
533-360	-	600mm	-

Laser Level Markers



FEATURES

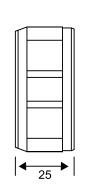
The YAMAYO 534-010 Three-Line Laser generates one horizontal and two 360° vertical lines plus plumb down point for level, plumb, align and square applications. Equipped with a 360° rotational base and a durable belt pouch that helps users quickly layout the job, with precision. The base has manual fine adjustment, which allows easy setup and convenient viewing of the laser point on the floor, the 360° rotational base helps users effectively set right angles up to 10 meters without having to reset. 5/8" Thread mount provided for use with a tripod, The Smart Pendulum System self-levels and beeps when out-of-level condition.

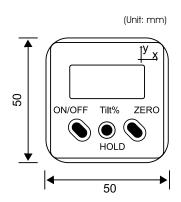
TECHNICAL DATA

Order No.	534-010
Laser Wavelength	Vertical/Horizontal 635nM, Plumb Down Point 650nM
Range	Radius 10M
Range of Auto Self Level Setting	±3°
Launch Angle	≥110°
Control Mode	Gravity Pendulum / Magnetic Damping
Horizontal Accuracy	±1mm/5M
Vertical Accuracy	±1mm/5M
Right Angle (90°) Accuracy	±0.0250 (±1mm/3M)
Plumb Down Point Accuracy	±1mm/1.5M
Orthogonal Accuracy	±1mm/3M
Working Environment	Indoors and Outdoors
Working Temperature	-10°C + 45°C
Material	Metal
Size	Ø: 100mm* H: 175mm
Weight	1.75Kg (including battery)
Accessories included	Laser light visibility enhancement glasses, (3) AA Batteries, Aluminium carrying case, belt, Strap

Dual Axis Digital Angle Protractor DUST & WATER RESISTANCE CONFIRMING TO IP65 LEVEL







FEATURES

- Measures angles in single and dual axis
- IP65 dust/water resistant
- Frame made of Aluminium
- User friendly display
- Magnetic Bottom
- Automatic backlit display
- Zero setting not required when battery is replaced as the same is permanently zero preset, Auto display flip over when bottom faces up.
- Functions: On/off, Origin, Tilt%, Hold, Absolute and relative measurements.
- Power supply: Two AAA batteries
- Power Off aromatically in 3 minutes

SPECIFICATION & DIMENSIONS

Resolution: 0.1º

Order No.	Range	Repeatability	Accuracy (±)
532-090	4x90°	0.10	0.20

Digital Protractors

FEATURES

- IP65 Dust/Water resistant.
- Function: On/Off, Origin(Zero Setting), Hold.
- Permanent Zero Pre-set.
- Power Supply: Two AAA Batteries.
- Frame made of aluminium.
- Magnetic bottom V-grooved for shafts.
- Automatic backlit display.
- Auto display flip over when bottom faces up.

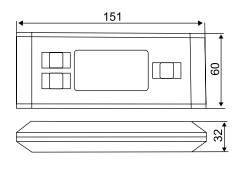
SPECIFICATION & DIMENSIONS

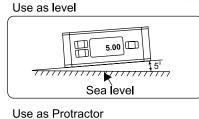
Resolution: 0.05°

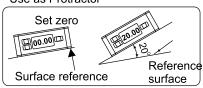
Order No.	Range		Accura	cy (±)
	0:	4x900	0° and	90º: 0.05º
510.0/0	mm/m:	1000mm/m	Others:	0.15º
513-360	%:	100%	7	7/ /
	in/ft:	12in/ft		

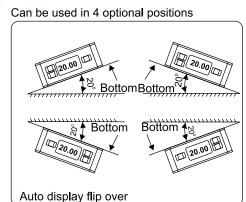


(Unit: mm)









Beveled Edge Squares 70° 70° (Unit: mm) W SPECIFICATIO

FEATURES

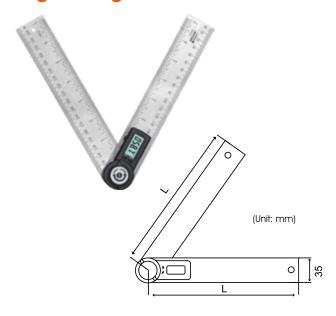
- The finest precision checking squares, not graduated
- The blade is bevelled on both edges of each side, providing excellent visual line contact with the job.
- The beam and blade are hardened, ground and lapped to ensure parallelism and straightness.
- The beam is grooved at the inner corner for clearance of burr or dirt.
- Made of high quality hardened stainless steel.

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Range	Accura	cy (±)	a	b	C
		Inside	Outside			
502-075	75-100mm	6μm	$7\mu\mathrm{m}$	15	15	4.5
502-100	100-70mm	7 μ m	$7\mu \mathrm{m}$	18	18	5.5
502-150	150-100mm	$7\mu m$	8µm	25	25	6.5

Digital Angle Finder



FEATURES

- Measures angles, lengths quickly and accurately.
- 1mm & 1/32" graduations on the steel rulers
- Power supply: One CR2032 3V lithium battery
- Function: On/Off, Origin(Zero setting), inch/mm.
- With clamping screw to lock the steel rulers at any angle
- Made of stainless steel

SPECIFICATION & DIMENSIONS

Resolution: 0.01º

Order No.	Size/Length(L)	Range	Accuracy (±)
514-200	200mm	0-360°	0.3°
514-300	300mm	0-360°	0.30

Steel Rulers



SPECIFICATION & DIMENSIONS

Order No.	Size	Graduation	Width	Thickness	Remark
701-015	15cm/6"	(Top)	18mm	0.8mm	inch to mm
701-030	30cm/12"	0.5mm,	25mm	1mm	Conversion
701-060	60cm/24"	1mm,	28mm	1.2mm	table
701-100	100cm/40"	(Bottom)		1.5mm	provided on
701-120	120cm/48"	1/64", 1/32", 1/16"	38mm	2mm	the reserve
701-200	200cm/80"		40mm	2mm	side

FEATURES

- Clear Graduations on satin-chrome matt finish surface.
- Stainless tempered.

Straight Edge GRADE (2)



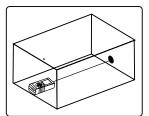


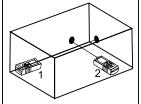
- Used for checking straightness, flatness and marking purposes.
- Made from hardened steel.
- Satin-Chrome plated.

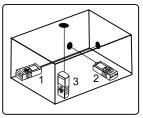
Order No.	Size (L x W x H)	Straightness
671-1000	1000x10x50mm	0.05mm
671-1500	1500x12x60mm	0.09mm
671-2000	2000x12x60mm	0.15mm
671-3000	3000x20x100mm	0.35mm

Laser Distance Meter

(Unit: mm)

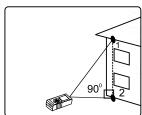


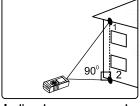




Distance measurements Area measurements

Volume measurements





Indirect measurements

Calculating a distance using 3 measurements

FEATURES

- Distance measure, Area, Volume Calculations
- Indirect Measurement
- Continuous Measurement
- Reference setting
- History: Can Store upto twenty measurements
- Unit settings: m/in/ft with instant conversions to any mentioned units
- Laser Class: 2
- Laser Wavelength: 635nm
- Laser Power: <1mW
- With sound setting
- Auto Instrument switch-off after 3 min
- Power Supply: 2 x 1.5V AAA batteries
- Protective pouch provide with the instrument
- Shockproof & Robust
- Provided with 1/2" thread mount for use with a tripod
- Operating Temperature: 0°C ...+40°C
- Storage Temperature: -10°C...+60°C

SPECIFICATION & DIMENSIONS

Order No.	Range	Accuracy (±)		Net Weight
CJ-40	0.2-40m	3mm	118mm X 53mm X 30mm	110g

Steel Tapes

SPECIFICATION & DIMENSIONS

	Size (Length)			
Order No.	Size	Width		
Y-16	3mts	16mm		
Y-19	5mts	19mm		



Oil Tape Refills

CARBON STEEL REFILL, STAINLESS STEEL REFILL (MATT FINISH)



Length		Width
MS	10mts	13mm
SS	10mts	13mm
MS	15mts	13mm
SS	15mts	13mm
MS	20mts	13mm
SS	20mts	13mm
MS	30mts	13mm
SS	30mts	13mm
MS	50mts	13mm
SS	50mts	13mm
MS	100mts	13mm
SS	100mts	13mm
MS	200mts	13mm

Oil Tapes

CARBON STEEL & STAINLESS STEEL BLADE



SPECIFICATION & DIMENSIONS

Order No.	Size (Length)	Blade (Width)	Remarks
10MS	10mts	13mm	
10SS	10mts	13mm	
15MS	15mts	13mm	— Plumbob Carbon
15SS	15mts	13mm	Steel Refill
20MS	20mts	13mm	
20SS	20mts	13mm	
30MS	30mts	13mm	— Optional:
30SS	30mts	13mm	150mm Brass
50MS	50mts	13mm	Plumbob
50SS	50mts	13mm	
100MS	100mts	13mm	─ 150mm Stainless — Steel Plumbob
100SS	100mts	13mm	- sieei riuindod
200MS	200mts	13mm	

Plumbobs for Oil Tapes



SPECIFICATION & DIMENSIONS

Order No.	Size (Length)	Remarks
100B	100mm	Brass Plumbob
150B	150mm	Brass Plumbob
150SS	150mm	Stainless Steel Plumbob

Measuring Wheel



FEATURES

- Light weight and durable
- 318 mm diameter PVC rubber coated ABS wheel
- Measures forwards, backwards and subtracts when retracted
- 5 digit mechanical counter with reset button
- Fold-able metal handle
- Wide range of measuring applications for indoor and outdoor spaces
- Packed in nylon carry bag

SPECIFICATION & DIMENSIONS

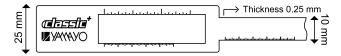
Order No.	Range	Accuracy (±)
8500	0.1-9999.9m	0.5%

Measuring Instruments

Pye Tapes



(Unit: mm)



FEATURES

- Used for measuring circumference and diameters of all types of round bodies
- Scale with laser engraved markings
- Made of stainless steel
- Supplied with calibration certificate from NABL Accredited Lab
- Graduation 0.01mm

SPECIFICATION & DIMENSIONS

Graduation: 0.01mm

Order No.	Circumference Range	Diameter Range	Accuracy (±) Circumference
652-300	90-950	28-300mm	
652-600	940-1880	300-600mm	(±) (0.3 + 0.2L)
652-900	1880-2880	600-900mm	Where "L" is the Value of Length
652-1200	2820-3760	900-1200mm	in Meter
652-1500	3760-4710	1200-1500mm	

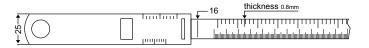
SPECIFICATION & DIMENSIONS

Graduation: 0.1mm

Order No.	Circumference Range	Diameter Range	Accuracy (±) Circumference	
653-950	90-950	20-300mm	1.5mm	0.5mm
653-2200	940-2200	300-700mm	1.5mm	0.5mm
653-3460	2190-3460	700-1100mm	1.5mm	0.5mm



(Unit: mm)



Durometers





FEATURES

 Suitable for accurately measuring the penetration hardness of Rubber, Vinyl, silicone, leather, soft plastics and other similar materials.

SPECIFICATION & DIMENSIONS

Order No.	Range	Graduation	Accuracy (±)
661-100	0-100 HA	1HA	Shore A



SPECIFICATION & DIMENSIONS

Order No.	Size (Length)
Trio	450mm
Trio	600mm
Trio	1000mm
Trio	1200mm
Trio	1500mm
Trio	2000mm
Piccolo	450mm
Piccolo	600mm

5100 Portable Hardness Tester



APPLICATION:

For the majority of your hardness testing assignments.

- Die cavity moulds
- Heavy work piece
- Assembled and permanently installed parts
- Failure analysis of pressure vessels steam trubo generator set and other large equipments
- Bearings and other parts
- Material identification of metals

FEATURES

- OLED display of 128 X 32 matrix
- Converts to all hardness scales (HV, HB, HRC, HEB, HRA and HS)
- Easy to use menu driven system
- Mini USB Interface
- 600 groups of Data Memory
- Upper and lower limit of hardness can be pre-set with alarm
- In-built calibration software
- Use of optional devices Type C, DC, G, D+15, DL facilitated (5100 Pro)
- Smart skid proof design
- Operating environment: -10°C \sim +15°C, Humidity: 20% \sim 80%
- Storage environment: -30° $\sim +180^\circ$, Humidity: 5% $\sim 95\%$
- Dimensions: L: 155mm, W: 55mm, T: 25mm
- Weight: 160g

MEASURING RANGE / MATERIALS

Material	HLD	HRB	HRC	НВ	HV	HSD
Steel and cast steel	300-900	38-100	20-68	81-654	81-955	32-100
Cold work tool steel	300-840	-	20-67	-	80-898	-
Stainless steel	300-800	46-101	-	85-655	85-802	-
Grey cast iron	360-650	-	-	93-334	-	-
Nodular cast iron	400-660	-	-	131-387	-	-
Cast aluminum alloys	170-570	23-84	-	19-164	-	-
Brass	200-550	13-95	-	40-173	-	-
Bronze	300-700	-	-	60-290	-	-
Copper	200-690	-	-	45-315	-	-

Particulars		Particulars		Particulars	
Main Unit	1 pc	Cleaning Brush	1 pc	Manual	1 pc
Charger	1 pc	Small supporting	1 pc	Calibration Certificate	1 pc
Test Block	1 pc	Carry Case	1 pc		

Hardness Tester 5100 DL



FEATURES

- Integrated impact device DL for confined spaces e.g. gear wheels: no cables!
- Wide measuring range in HLDL and display of converted hardness values in HB, HRB, HRC, HV, HS
- For materials steel & cast steel
- Testing at any angle
- Simple handling and low test expenditure

Measuring

Material	HLDL	НВ	HRB	HRC	HV	HS
Steel &	560	81	37	20.6	80	30.6
Cast steel	~950	~646	~99.9	~68.2	~950	~96.8

TECHNICAL SPECIFICATIONS

Particulars	
Standard impact device	DL integrated
Hardness scales	HLDL, HB, HRC, HRB, HV, HS
Measuring range/materials	See table above
Accuracy	±12HLDL
Memory	99 average readings
Output	USB to PC (Optional)
Mim. surface roughness of workpiece	1.6μ (Ra) Diameter = 2.8 mm
Needle front section of DL-device	Length = 50mm
Max. Workpiece hardness	950HLDL
Min radius of Workpiece (convex/concave)	Rmin = 10mm
Min Worksiana weight	2~5kg on stable support
Min. Workpiece weight	0.05~2kg with compact coupling
Min Workpiece thickness coupled	5mm
Min thickness of hardened layer	0.8mm
Indentation depth	Impact devices data
Continuous working time	8h
Power	rechargeable NiMH battery
Overall dimensions	0~40°C
Weight	200g

Particulars	
Main unit integrated with impact device DL	l pc
Test block with HLD value	1 pc
Charger	1 pc
Cleaning brush	1 pc
Carrying suitcase	1 pc
Calibration certificate	1 pc
Instructional manual	1 pc

TH-130 Plus + Portable Hardness Tester



APPLICATION:

For the majority of your hardness testing assignments.

MAIN FEATURES

- Self contained (Impact Device D integrated): no cables.
- Integrated impact direction sensor.
- Highly accurate (±4HL) in any impact direction (360°) automatically.
- Integrated display of results for all common hardness scales.
- 128*64 dot matrix high contrast LCD for optimum viewing in all conditions.
- Easy calibration.
- Full USB communication with PC, software included free of charge.
- Internal storage of data with day and time, data capacity: 560.
- Battery: 3 AAA Rechargeable Ni-MH (3.6V / 800mAH).
- Intelligent sleep mode.
- Standards and Guidelines applied: DIN 50156 (2007), DGZfP Guideline MC 1 (2008), VDI / VDE Guideline 2616 Paper 1 (2002), ISO 18625 (2003), ASTM A956 (2006), GB/T 17394 (1998), JB/T 9378 (2001), JJG 747 (1999), CNAL T0299 (2008), JIS B7731 (2000).
- Accessories: Test Block; Charger; 3 AAA Ni-MH Battery; Cleaning Brush; PC Communication Software.
- Optional: Wireless mini printer; Support rings set.
- CE Certificate.
- Operating environment: Temperature: -10~+60°; Humidity: 20%~85%.
- Storage environment: Temperature: $-30 \sim +80^{\circ}$; Humidity: $5\% \sim 95\%$.
- Dimensions: 148 x 63 x 24.5 mm.
- Weight: 300g.

MEASURING RANGE / MATERIALS

Material	HLD	HRB	HRC	НВ	HV	HSD
Steel and cast steel	300-900	38-100	20-68	81-654	81-955	32-100
Cold work tool steel	300-840	-	20-67	-	80-898	-
Stainless steel	300-800	46-101	-	85-655	85-802	-
Grey cast iron	360-650	-	-	93-334	-	-
Nodular cast iron	400-660	-	-	131-387	-	-
Cast aluminium alloys	170-570	23-84	-	19-164	-	-
Brass	200-550	13-95	-	40-173	-	-
Bronze	300-700	-	-	60-290	-	-
Copper	200-690	-	-	45-315	-	-

Particulars		Particulars		Particulars		
Main Unit	1 pc	Small support Rins	l pc	Manual	1 pc	
Test Block	1 pc	Cleaning brush	1 pc	Calibration Certificate	1 pc	
Charger	1 pc	USB cable	1 pc	Carry case	1 pc	

TH-160 Split Segment Code Screen Leeb Hardness Tester







MAIN FEATURES

- Non Destructive hardness testing of materials
- Most suitable for use in laboratory, engineering site, Metal processing, chemical industry, commodity inspection and other detection fields
- Supports 360 degree measurement direction
- High-contrast segment code LCD display
- Compatible to 7 types of optional impact devices for special application with automatic recognition
- In built software for calibration
- High brightness LED backlight display for dim working environment
- Compact, potable and highly reliable for harsh operating environment
- Resistant to vibration, shock and electromagnetic interference
- Memory of 100 groups of 32 readings each group (optional data to PC software)
- Confirms to ASTM- A956-06 standard test method for Leeb Hardness Testing

TECHNICAL SPECIFICATIONS

Particulars	
Range	HLD(170~960) / HRC(17.9~69.5) / HRB(13.5~101.7) / HB(19~683) / HV(80~1042) / HS(30.6~102.6)
Hardness System	Leeb(HL), Brinell(HB), Rockwell B(HRB), Rockwell C(HRC), Vickers(HV), Shore(HS)
Measuring Materials	Steel & Cast Steel, Alloy Tool Steel, Stainless Steel, Grey Cast Iron, Ductile Iron, Cast Aluminum, Copper Zinc Alloy(Brass), Copper Tin Alloy(Bronze), Pure Copper
Accuracy	+/- 0.5%(HLD=800) / Indication repeatability: 0.8%(HLD=800)
Display	High contrast segment coded liquid crystal
Data output	USB to PC without software (Optional)
Memory	100 groups (32 readings in each group)
Power	2 x AA batteries
Operating Temperature	- 10degree C ∼ +50 Degree C
Dimensions	150mm(L)x74mm(W)x33mm(H)

Particulars		Particulars		Particulars	
Main Host	1 pc	Nylon Brush	1 pc	Manual	1 pc
D-Type Impact Device	1 pc	Small Support Ring	1 pc	Calibration Certificate	1 pc
Standard Leeb Hardness Block	1 pc	Carry Case	1 pc		

TH-170 Leeb Hardness Tester



The MANNO Bin TH -170 is an high accuracy hardness tester (uses Lemo connector for high accuracy levels) distinguished by using variety of optional impact devices for suitable applications, wide measuring range, simplicity of operation, low power consumption and long standby time.

CONFIRMS TO THE INTERNATIONALLY ACCEPTABLE STANDARD ASTM A956-02

FEATURES

- Measuring Direction: Any Direction

- Screen Display: 128*64 dot matrix LCD,

backlight and adjustable contrast

Data Memory: 100 group of readings

– Power: 3*1.5V AAA

– Weight: 0.22Kg (Standard Configuration:

Host +D Impact device)

– Dimension: 155mm×68mm×27mm

– Standard Accessories: Main Unit, D Impact device,

Standardized test block,

Small support ring, Nylon cleaning

brush, Calibration Certificate

& Manual

MEASURING RANGE / MATERIALS

Particulars	Ststem			Impact Devic	es (Optional)		
Particulars	Hardness	D/DC	D+15	С	G	E	DL
	HRC	17.9-68.5	19.3-67.9	20.0-69.5	-	22.4-70.7	20.6-68.2
	HRB	38.4-99.6	-	-	47.7-99.9	-	37.0-99.9
Stool and Cast Stool	HRA	59.1-85.8	-	-	-	61.7-88.0	-
Steel and Cast Steel	НВ	81-651	80-638	80-683	90-646	83-663	81-646
	HV	83-976	80-937	80-996	-	84-1042	80-950
	HS	32.2-99.5	33.3-99.3	31.8-102.1	-	35.8-102.6	30.6-96.8
Wrought Steel	HS	32.2-99.5	-	-	-	-	-
Cold Work Tool Steel	HRC	20.4-67.1	19.8-68.2	20.7-68.2	-	22.6-70.2	-
Cold Work 1001 Steel	HV	80-898	80-935	100-941	-	82-1009	-
	HRB	46.5-101.7	-	-	-	-	-
Stainless Steel	НВ	85-655	-	-	-	-	-
	HV	85-802	-	-	-	-	-
	HRC	-	-	-	-	-	-
Grey Cast Iron	НВ	93-334	-	-	92-326	-	-
	HV	-	-	-	-	-	-
Nodular Cast Iron	HRC	-	-	-	-	-	-
Nodular Cast Iron	НВ	131-387	-	-	127-364	-	-
Cast Aluminum	HV	-	-	-	-	-	-
Casi Aluminum	НВ	19-164	-	23-210	32-168	-	-
Brass	HRB	23.8-84.6	-	22.7-85.0	23.8-85.5	-	-
	НВ	-	-	-	-	-	-
Propre	HRB	-	-	-	-	-	-
Bronze	НВ	60-290	-	-	-	-	-
Copper	НВ	45-315	-	-		-	

TH-270 Metal Hardness Tester



The \MYAYO \(\mathcal{B}\) is an advanced hardness tester distinguished by its high accuracy, wide measuring range and simplicity of operation. It is most suitable for testing of;

- Individual parts or components in assembly machines
- Mould surface of a die
- Heavy components e.g. rolls for rolling mills, etc.
- Testing in a production line e.g. crank-shafts, cylinder blocks, etc

It can be used for most metals and can display results in suitable scales. Its highly sophisticated **INFRARED PRINTER** facilitates on line printing with great ease.

CONFIRMS TO THE INTERNATIONALLY ACCEPTABLE STANDARD ASTM A956-02

Particulars	
HL display range	0 ~ 999HLD
Accuracy	±6 HL(at 800HLD)
Repeatability	±6 HL
Testing direction	Any direction
Display	Large LCD with back light
Scales	HRB, HRC, HB, HV. HSD, MPa
Power	dry cell (3 x1.5V AAA)
Operating temperature	$0^{\circ} \sim +50^{\circ} (32^{\circ}F \sim 122^{\circ}F)$
Storage temperature	$10^{\circ}\text{C} \sim +60^{\circ}\text{C} (14^{\circ}\text{F} \sim 140^{\circ}\text{F})$
Humidity	5% ~ 95%
Dimensions	150mm*80mm*24mm (5.9x3.1x0.9 inches)
Weight	Approx.200g (display unit)

Particulars	
Min. weight of test object	5kg (less than 5kg to 0.1kg must be coupled on solid support)
Min. thickness of test object	5mm (less than 5mm upto 3mm must be coupled)
Min. thickness of layers	0.8mm
Min. Radius of curved surface	30mm (with optional support rings : 11mm)
Measuring Range	HRC :19.8~68.5, HB :30 ~ 655, HV :80 ~ 976, HRB :13.5 ~ 99.6, HSD :26.4 ~ 99.5, Mpa :375 ~2639
Standard accessories	Display Unit, Impact Device D, Test Block, Mini IR Printer, Charger, Little supporting, Clearing Brush, Carry case

TH-370 Pro Leeb's Portable Hardness Tester

FEATURES

- High Accuracy (±6HLD)
- Colour Cap-active Touch Screen
- Automatic scale conversion
- HB,HRB,HRC,HV,HSD, Mpa
- Automatic identification of the
- Richter sensor (D,DC,DL,C,D+15,G)
- Direction compensation function of measurement data
- 2000 group data storage capacity
- Wireless micro printer for quick on spot testing reports
- USB data interface
- Power Source: Lithium batteries



TECHNICAL SPECIFICATIONS

Particulars	
Model	TH 370 pro
Accuracy	±6HLD
Conversion scale	HRC, HRB, HB, HV, HSD, Mpa
Impact Device	D Type (Universal)
Display	Color Cap-acitive Touch Screen
Data Storage	2000 groups
Measurement Direction	360 degree (any direction)
Printer	Wireless Micro Printer
Data Transmission	USB
Power	Lithium battery 1400mAh
Working Condition	Temperature: -10°C~40°C; Humidity: 20%~85%
Storage Condition	Temperature: -30°C~80°C; Humidity: 5%~95%
Approved Standards	GB/T17394,GB/T1172,ASTM A956&DIN50156

TEST AND CONVERSION RANGE

Material	HV	НВ	HRC	HRB	HSD	Intensity
Steel or Cast Steel	83-976	140-651	19.8-68.5	59.6-99.6	26.4-99.5	375-2639
Cold Rolled Tool Steel	80-900		21-67			
Stainless Steel	85-802	85-655	20-62	47-102		
Cast Iron		140-387				
Cast Aluminium Alloy		30-159				
Pinchbeck Alloy (Brass)		40-173		13.5-95.3		
Copper-tin Alloy (Bronze)		60-290				
Pure Copper and Low Copper Alloys		45-315				

Particulars		Particulars		Particulars	
Main Unit	1 pc	Charger	l pc	Calibration Certificate	l pc
Impact device D	1 pc	Nylon brush	1 pc	Carry case	1 pc
Printer	1 pc	Small support ring	1 pc		
Test Block	1 pc	Manual	1 pc		

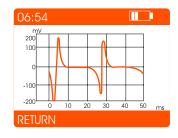
TH-420 High Precision Colour Screen Portable Hardness Tester



FEATURES

- High-Performance ARM processor with CORTEX M4 Processing Chip
- Values in all Hardness Scales Displayed at a glance on the main interface
- Six Impact Devices available for special applications
- Automatic Impact Device Probe identification with plug and play feature
- Impact waveform bench marking (PROCEQ type) to judge the effectiveness of the test and working state of Impact Device
- Wide measuring range (see next page)
- USB communication interface with data processing Software
- Optional Bluetooth printer
- Power Source: 2 x 1.5V AA Battery

INDUSTRY-LEADING TECHNOLOGY



MULTIPLE HARDNESS VALUES CAN BE DISPLAYED IN ONE MEASUREMENT

HL 780 HRB--- HS 79.4 HL 609 HRC 58.6 HV 665

MEASURING RANGE

Material	System Hardness			Impact Dev	vices (Optional)	
		D/DC	D+15	С	G	E	DL
	HRC	17.9-68.5	19.3-67.9	20.0-69.5	-	22.4-70.7	20.6-68.2
	HRB	59.6-99.6	-	-	47.7-99.9	-	37.0-99.9
STEEL AND	HRA	59.1-85.8	-	-	-	61.7-88.0	-
CAST STEEL	HB	127-651	80-638	80-683	90-646	83-663	81-646
	HV	83-976	80-937	80-996	-	84-1042	30.6-96.8
	HS	32.2-99.5	33.3-99.3	31.8-102.1	-	35.8-102.6	30.6-96.8
WROUGHT STEEL	HS	32.2-99.5	-	-	-	-	-
CWT CT	HRC	20.4-67.1	19.8-68.2	20.7-68.2	-	22.6-70.2	-
CWT, ST	HV	80-898	80-935	100-941	-	82-1009	-
STAINLESS	HRB	46.5-101.7	-	-	-	-	
	HB	85-655	-	-	-	-	-
STEEL	HV	85-802	-	-	-	-	-
	HRC	-	-	-	-	-	-
GC, IRON	НВ	93-334	-	-	92-326	-	-
	HV	-	-	-	-	-	-
NC IDON	HRC	-	-	-	-	-	-
NC, IRON	НВ	131-387	-	-	127-364	-	-
C ALUM	HV	-	-	-	-	-	-
C, ALUM	НВ	19-164	-	23-210	32-168	-	-
DDACC	HRB	23.8-84.6	-	22.7-85.0	23.8-85.5	-	-
BRASS	НВ	-	-	-	-	-	-
DDON7E	HRB	-	-	-	-	-	-
BRONZE	НВ	60-290	-	-	-	-	-
COPPER	НВ	45-315	-	-	-	-	-

UHT-910 Ultrasonic Portable Hardness Tester



APPLICATION:

- Hardness Test of flange edge and gear root stamping parts, molds, thin plate, face hardened gear tooth, gear groove and taper parts
- Hardness test of axel, thin-wall pipes and vessels.
- Hardness Test of wheels and turbine rotors
- Hardness Test of bit edge
- Hardness Test of welding parts
- Hardness Test of most ferrous and non-ferrous metals and their alloys in industrial production

FEATURES

- High Hardness Testing Range upto 76 HRC
- Highly Accurate
- Supports 360 degree test direction
- High Test Speed output results in 1sec; easy to test on assembly line
- Very Tiny Test Indentation- requires High Power Microscope to see the indentation mark
- USB connectivity for interface communication
- High Data Storage Capacity
- 3.5" Large Screen Display with 320x480 Colour Graphics dot matrix
- Confirms to DIN 50159-1-2008; ASTM-A1038-2005; JB/T 9377-2010; JJG-654-2013; JJF 1436-2013







Particulars	
Model	HV, HB, HRB, HRA, HRC Scales
Test Range:	HV 50~1599, HB 85~550, HRB 41-100, HRA 61~85.6, HRC 20~76
Accuracy	+/-4%HV (HV10/HV5 @<250/250 ~500HV) +/-5%HV(HV2/HV1@HV500~800) +/-6%HV(HV2/HV1@>800HV), +/-4%HB, +/-1.5HR
Power Source	3.6V mAh Re-Chargeable Lithium Battery (Endurance – 10 hrs)
Standard Delivery	Main Unit 1pc, Probe - 1 pc, Test Block - 1pc, Battery charger -1 pc, Mannual - 1 pc,
	Calibration certificate, Carry case

TH-180 Pen Type Portable Metal Hardness Tester



APPLICATION FIELD:

For the majority of your hardness testing assignments.

FEATURES

- Self contained (Impact Device D integrated): no cables.
- Integrated impact direction sensor.
- Highly accurate in any impact direction (360°) automatically.
- Integrated display of results for all common hardness scales.
- Large, high contrast display for optimum viewing in all conditions.
- Easy calibration.
- Battery: Rechargeable Li-on.
- Standards and Guidelines applied: ASTM A956
- Operating environment: Temperature: -10°C +50°C; Humidity: 20%-85%.
- Dimensions: 147 x 35 x 22 mm.
- Weight: 100 g.

Measuring Range / Materials

Steel and cast steel, Cold work tool steel, Stainless steel, Grey cast iron, Nodular cast iron, Cast aluminium alloys, Brass, Bronze, Copper

Measuring Range

HLD (170 \sim 960), HRC (17.9 \sim 69.5), HB (19 \sim 683), HV (80 \sim 1042), HS (30.6 \sim 102.6), HRA (59.1 \sim 88), HRB (13.5 \sim 101.7)

Standard Delivery

Main Unit x 1, Charger x 1, Test Block x 1, Cleaning Brush x 1, Carry Case x 1,

TH-250 Coating Thickness Gauge



The YMMYO Bias TH-250 Coating Thickness Gauge is a state of the art thickness gauge, you can easily detect the thickness of non-magnetic coating on a magnetic substrate (ferrous) or an insulating coating on a non-magnetic conductive substrate (non-ferrous) utilizing an integrated probe.

TH-250 can be used in many areas of industry including manufacturing, general engineering, automotive industries, commercial inspection, for measuring thickness and corrosion of pressure vessels, chemical equipment, boilers, oil storage tanks, etc. in industries of petroleum, shipbuilding, power station, and

The TH-250 utilizes an integrated probe that can automatically detect a Ferrous or Non-Ferrous substrate and comes with 2 substrate samples (steel, aluminium), 4 calibrated thickness samples, carry case, batteries and operation manual.

TECHNICAL SPECIFICATIONS

machine manufacturing.

Particulars	
Product Info	In Built Probe(s)
Operating Principle	Magnetic induction/eddy current (F/NF)
Measuring Range	0-1250um/0-50mil
Resolution	0.1/1
Accuracy	\pm 1-3%n or \pm 2.5um
Min. Measuring Area	6mm
Min. Sample Thickness	0.3mm
Battery Indicator	Low Battery Indicator
Metric / Imperial	Convertible
Power Supply	4x1.5V AAA(UM-4) battery auto power off
Operating Conditions	0 to 45°C
Dimensions	126x65x27mm
Weight	81g(not including battery)

TR 210 High Precision Surface Roughness Tester

FEATURES

- 7 PARAMETERS RA, RZ, RQ, RT, RP, RV, RC
- High precision inductive sensor
- GAUSS filter
- Comply with ISO4287
- 256X64 OLED display
- Built in lithium ion battery and charging control circuit, high capacity, no memory effect, continuous working time more than 15 hours;
- Aluminium mold design body for durable and better antielectromagnetic interference ability





STANDARD DELIVERY

Main Unit x 1

Calibration block x 1
AD/DC adapter and data line x 1

Testing support board x 1





TR-310 Surface Roughness Tester



Wireless and simultaneous operations by mobile phone

FEATURES

- Checks roughness of metal and non-metallic surface
- Select from Ra, Rz, Rq, Rt parameters
- Features external calibration on keyboard
- Uses high speed microprocessor DSP
- Double OLED Screens
- Data output USB Port
- Large measuring range suitable for most materials
- Measures flat, outer cylinder and sloping surface
- Rechargeable Lithium battery 3.7V
- Mobile phone support APP

TECHNICAL SPECIFICATIONS	
Particulars	
Recharge parameter	Ra, Rz, Rt, Rq
Tracing length	6mm
Tracing speed	1.0mm/sec
Cut-off lengths	0.25mm/ 4.0mm/ 5.0mm
Measuring range	Ra, Rq: 0.05-10.0μm and Rz, Rt: 0.1-50μm
Accuracy	0.01m
Repeatability	<12%
Radius and angle of the stylus point	3.7V Li-ion battery
Recharging time	3 hours
Operating temperature	−20-40°C
Relative humidity	<90%
Dimensions (L x W x H)	110mm x 81mm x 32mm
Weight	150g

TR-200 (Advance) Surface Roughness Tester



The MMMO Bliss TR -200 (ADVANCE) is a high accuracy surface roughness tester that can test as many as 13 roughness parameters it is equipped with probe position indicator and can be connected with printer via Bluetooth (code ISR-C100-Printer), TR -200 can display roughness values, profile and curve, it has a maximum memory storage of 100 readings and turns power off automatically. TR -200 can be operated wireless and simultaneously by a mobile phone or computer and can also provide wireless print for more convenience.











Adjustable stand (included)

Probe cover (included)

Particulars	
Parameters:	Ra, Rz, Ry, Rp, Rm, Rt, R3z, Rmaz, Sk, S, Sm, tp
Range:	160 μm
Accuracy:	±10%
Resolution (Ra):	$0.001 \mu \mathrm{m}$
Probe:	Type: inductive Stylus radius/range: 5 μ m/900 Stylus material: diamond
Measuring force:	0.4mN
Measuring unit:	μm/μin
Cut off:	0.25/0.8/2.5mm
Number of cut-offs:	1 to 5
Traverse speed:	0.5mm/s, 1mm/s
Memory:	100 measurement results

Particulars	
Output:	USB
Power:	built-in rechargeable battery
Dimension (L x W x H):	140x52x48mm
Weight:	440g
Standard Accessories:	Main unit: 1pc, Calibration Block: 1pc, Calibration support: 1pc, Adjustable stand:1pc, Probe cover: 1pc, USB cable and software: 1pc, AC/DC adaptor: 1pc, Presurf Mobile 1.0: 1pc.
Optional Accessory:	Extension rod(code ER 100), Curved surface probe (code RS 110), Groove probe 3mm (code RS 130), Deep groove probe 10mm (code RS 131), Advanced software (Presurf-10), Test stand (TS 620), Printer (code PRT100, 200, 300)

TT-100C Ultrasonic Thickness Gauge



The YAYAYO Bis TT -100C Ultrasonic Thickness Gauge is a hand held microprocessor controlled thickness gauge specifically designed for measuring the thickness of metallic and non-metallic materials e.g. steel, cast steel, aluminium, red copper, brass, zinc, quartz glass, pvc, grey cast iron, nodular cast iron and any other good ultrasonic wave-conductor as long as it has parallel top and bottom surfaces.

With uses in many areas of industry the AMAYO Bias TT -100C Ultrasonic Thickness Gauge can perform precise measurements on various types of raw materials, component parts, and assembled machinery. It can also be used to monitor all types of pipes and pressure vessels for the loss of thickness due to corrosion/erosion.

The YAMAYO Big TT -100C Ultrasonic Thickness Gauge is extremely easy to use, after a simple calibration to known thickness or sound velocity the gauge will give accurate readings in millimeters and inches.

Particulars	
Display type	LCD
Range	0.75~300mm (Depend on Probe Type)
Resolution	0.01mm
Accuracy	\pm (0.5%H+0.01mm) H refers to the thickness of the testing piece
Sound velocity	1000-9999m/s
Power supply	2*AAA
Operating temperature	$-10^{\circ}\text{C}\sim60^{\circ}\text{C}$ Humidity $20\%\sim90\%$
Dimensions	126x68x24mm
Weight	164gms (without batteries)
Standard Accessories	Carrying case: 1pc, Operation manual: 1pc, Processor unit: 1pc, Sensor probe: 1pc

TT-100 Plus + Ultrasonic Thickness Gauge



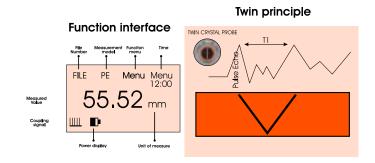
The YAXAYO Blow TT -100C Plus is a highly accurate microprocessor controlled thickness gauge specifically designed for measuring the thickness of metallic and non-metallic materials e.g. steel, cast steel, aluminium, red copper, brass, zinc, quartz glass, pvc, grey cast iron, nodular cast iron and any other good ultrasonic wave-conductor as long as it has parallel top and bottom surfaces With uses in many areas of industry the YAXAYO Blow TT -100C Plus can perform highly precise measurements on various types of raw materials, component parts, and assembled machinery. It can also be used to monitor all types of pipes and pressure vessels for the loss of thickness due to corrosion/erosion.

The MAYO Miss TT -100C Plus is extremely easy to use, after a simple calibration to known thickness or sound velocity the gauge will give accurate readings in millimeters and inches.

Particulars	
Display type	LCD
Range	0.75~400mm (45# Steel) (Depend on Probe Type)
Resolution	0.01mm / 0.01mm 0.001 inch
Accuracy	±(0.5%n+0.01)
Sound velocity	1000-9999m/s
Power supply	4 x 1.5V AAA (UM-4) Alkaline cells
Operating temperature	0-50°C Humidity < 80%
Dimensions	140 x 72 x 34mm
Weight	185gms (without batteries)
Standard Accessories	Carrying case: 1pc, Operation manual: 1pc, Main unit: 1pc, Sensor probe : 1pc

TT-100 Pro Ultrasonic Thickness Gauge





APPLICATION FIELD:

The thickness gauge is based on the principle of pulse reflection ultrasonic measurement Widely used in petroleum, chemical industry, metallurgy, shipbuilding, aviation, aerospace and other fields.

FEATURES

- Adopting PE and VERI measurement modes, accurate thickness measurement can be carried out for various materials.
- Using high precision timing chip and V-PATH calibration model, the measurement range is wide and the measurement precision is high.
- Display resolution 0.01mm.
- Liquid Crystal Display contrast adjustable, and with LED backlight display, can be used in a variety of environments.

TECHNICAL SPECIFICATIONS

Particulars	
Working theory	Ultrasonic
Test Model	PE/VERI
Resolution	0.01mm
Testing Material	Steel, Iron, Glass, Plastic, Aluminium
Storage Capacity	500 groups data
Humidity	≤90%
Size	150 * 71 * 33mm
Display	0.01mm

Particulars	
Testing arrange	0.65 - 500 mm
Display Size	2.0" FSTN, 128 * 64 lattice, LED
Velocity Range	1000-9999m/s
Testing System	Metric/English
Testing Temperature	0 ~ 50°C
Power	2 * 1.5V AA battery
Weight	160g

OPTIONAL PROBE SELECTION

Modle	Features	Frequency (MH2)	Diameter (mm)	Testing range (mm)	Allowed Temperature
5M Standard Probe	Universal	5	10	$1.0 \sim 250.0$	
2M Coarse Grain Probe		2	12	2.0 ~ 500.0	-10 ~ 60°C
7M Small Diameter Probe	Special	7.5	6	0.65 ~ 35.0	
H2M High Temperature Probe		3	12	4.0 ~ 80.0	-10 ~ 350°C

Particulars		Particulars		Particulars	
Main Unit Π 100 Pro	1 pc	1.5 V AA Battery	2 pc	Carry Case	l pc
Probe 5MHz 10 Dia	1 pc	Instruction Manual	1 pc		
Coupling Agent	1 pc	Calibration Certificate	1 pc		

TT-900 Ultrasonic Thickness Gauge For Composite Materials



FEATURES

- A&B Scan
- Big Digit Color TFT Display 320x240
- Through coat thickness measurements
- Thickness Measurements of Fiberglass and composite Materials (Probe D1025)
- Automatic probe recognition
- Automatic zero calibration
- Automatically locates the detection point
- Automatic and Manual measurement mode selectable
- Automatic Freezing of measurement screen
- Memory of 100 files with 100 readings each
- Direct Data to PC, No software required

OPTIONAL PROBES:

- 2MHz D2012 (12mm dia)
- 5MHz D5008 (8mm dia)
- 5MHz High Temperature Probe D5113
- 7.5MHz D7006 (6mm dia)
- 10MHz D7004 (4mm dia)
- D1025 for Fiberglass & Composite Materials

TECHNICAL SPECIFICATIONS

Particulars	
Dange	T-E 0.65mm ~ 400mm
Range	E-E 3.00mm ~ 25.00mm
Resolution	0.01mm
A	+/- $(0.1\%$ thickness +0.04mm when thickness= $10\sim$ 99.9mm)
Accuracy	+/-0.3% thickness mm when thickness > 100mm
Probe mode	Dual Element 5MHz (Standard)

Particulars	
Data output	USB to PC without software
Memory	10,000 readings in 100 files
Power	2 x AA batteries
Operating Temperature	20°C ~ +50°C
Dimensions	133mm(L)x75mm(W)x29mm(H)
Weight	0.26kg (including batteries)
· · · · · · · · · · · · · · · · · · ·	

STANDARD DELIVERY

Particulars
Main Unit
Dual Element probe (D5301 or D1025)
Build-in calibration block (Thickness=4mm, Velocity = 5920m/s)
USB Cable

Particulars Carrying case Operating manual Calibration Certificate

USES: THICKNESS OF COMPOSITE MATERIALS



Fibre glass in the inner part of Yacht



Wind mill blades



Fibre glass in component of front bumper in automobile



Polyurethane Materials

YG 60 Gloss Meter





FEATURES

- Small Only 80 grams weight, size as small as name card
- Accurate Passed metrological certification
- Fast Single measure time less than 1S
- Long Continuous measure 10000 times after recharge
- Auto Calibration no need for manual calibration, measure immediately after power on, intelligent
- Calibration base Anti-pollution, calibration at any time, to ensure long-term accuracy.



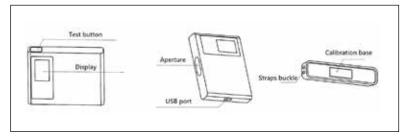












OPTIONAL PROBE SELECTION

Modle	YG60 SE	YG60 Pro	YG60 Max	
Calibration	Automatic			
Measure Angle		600		
Parameter		Gloss (GU)		
Aperture		23 x 7 mm		
Measure range	0-200 GU	0-1000 GU	0-1200 GU	
Stability	1 GU	0-100:0.1G	U;>100:1GU	
Repeatability	1	0.2 / 0.2%	0.1 / 0.1%	
Measure time	Less than 1s			
Battery	Rechargeable, 5000 times continuous tests	Rechargeable, 10000 times continuous tests	Rechargeable, 12000 times continuous tests	
Display	IPS full color screen, 135 x 240, 1.14 inch			
Interface	USB	·		
Working temperature	0400C			
Humidity	<85%, with no condensation			
Accessories	USB cable, Straps, Manual, Calibration base, Cleaning cloth			
Weight	80g 116g		6g	
Size	84mm x 70mm x 17mm			

Moisture Meter



FEATURES

- Specifically designed for measuring wood moisture, Has four calibration scales enabling the user to take accurate moisture measurements in 100 wood species
- Large LCD display for easy reading
- Operating principle: Electrical resistance
- Functions: On/Off, low battery indicator, hold button, mode button to select wood group
- Integrated measuring electrode pins
- Auto power off
- Power supply: One 9V battery
- Operating temp.: 0-40°C
- Weight: 110g (not including battery)
- Dimensions: 140mm(L) x 65mm(W) x 35mm(T)

SPECIFICATIONS & DIMENSIONS

Order No.	Range (Wood)	Resolution	Accuracy (±)
MT 10	0~99.9%	0.1%	0.5%

Lux Meter



FEATURES & TECHNICAL SPECIFICATIONS

- Display: Large LCD characters displayRange: 0.1~200,000Lux, 0.01~20,000Fc
- Resolution: 0.1Lux / 0.01Fc
- Accuracy: ±4%
- Measurement speed: 2 times / second
- Units: Lux & Fc
- Hold function, Auto range & Manual range
- Auto Power OFF: After approx.15 minutes
- Power Supply: One 9V battery
- Low power of battery detecting
- Operating Environment: 14 to 122°F (-10 to 50°C), 10%~90%RH
- Dimensions: 145 X 67 X 32mm (5.7" x 2.6" x 1.3")
- Weight: 170g (6.0 oz)

ET-711 Industrial Endoscope



FEATURES

- YAMAYO Bliss ET-711 Industrial Endoscope is a device that is both, practical and easy to handle. It guarantees non-destructive control for industrial applications that are difficult to dismantle.
- YANKYO Bliss ET-711 Industrial Endoscope is a device that allows high definition visual inspection, video recordings and photography of deep cavities, partitions, ducts and critical interior surfaces.
- YAYAYO Bliss ET-711 Industrial Endoscope is widely used in the visual inspection of aircraft engines, aero derivative industrial gas turbines, steam turbines, diesel engines, automotive and truck engines. Gas and steam turbines require particular attention because of safety and maintenance requirements. It can be used for Inspection of engines to prevent unnecessary maintenance, which can become extremely costly for large turbines. It is also used in manufacturing of machined or cast parts to inspect critical interior surfaces for burrs, surface finish or complete through-holes. Other common uses include forensic applications in law enforcement, building inspection, and in gunsmithing for inspecting the interior bore of a firearm.

Particulars	ET-800 Industrial Endoscope
Monitor	5.0 inch Colour High Definition IPS
Resolution	2 megapixel
Number of Camera Lens	2 Lens (Optional : 3 Lens)
Lens Diameter	5.5mm for 2 Lens / 8 mm for 3 Lens
Horizontal Perspective	70 degree
Auxiliary Lights	8 Adjustable LED Lights
Standard Cable Length	1 mtr (Optional : 5mtr/8mtr/10mtr/15mtr)
Memory	32 GB
Water Proof Level	IP 67





















Engine inspection

Sewer inspection

Underwater detection

Air conditioning detection

ET-808 Industrial Endoscope

FEATURES

- YAMAYO Bliss ET-808 Industrial Endoscope is a device that is both, practical and easy to handle. It guarantees non-destructive control for industrial applications that are difficult to dismantle.
- YANAYO Blue ET-808 Industrial Endoscope is a device that allows High Definition visual inspection, video recording and photography of deep cavities, partitions, ducts and critical interior surfaces.
- YAYAYO Bliss ET-808 Industrial Endoscope is widely used in the visual inspection of aircraft engines, aero derivative industrial gas turbines, steam turbines, diesel engines, automotive and truck engines. Gas and steam turbines require particular attention because of safety and maintenance requirements. It can be used for Inspection of engines to prevent unnecessary maintenance, which can become extremely costly for large turbines. It is also used in manufacturing of machined or cast parts to inspect critical interior surfaces for burrs, surface finish or complete through-holes. Other common uses include forensic applications in law enforcement, building inspection, and in gunsmithing for inspecting the interior bore of a firearm.



TECHNICAL SPECIFICATIONS

Particulars	ET-800 Industrial Endoscope	
Monitor	5.0 inch IPS Display (High Definition)	
Resolution	2 megapixel	
Number of Camera Lens	2 Lens (Optional: 3 Lens)	
Lens Diameter	5.5mm (2 Lens) / 8 mm (3 Lens)	
Viewing Angel	70 degree (2 Lens) / 78 degree (3 Lens)	
Auxiliary Lights	6+1 Adjustable LED Lights / 6+1+1 Adjustable LED Lights	
Flood Light	90 degree rotary light	
Photo/Video Resolution	1920*1080	
Standard Cable Length	1 mtr (Optional : 5mtr/8mtr/10mtr/15mtr)	
Memory	32 GB	
Water Proof Level	IP 67	

Particulars		Particulars		Particulars	
Main Unit	1 pc	Large Hook	1 pc	Manual	1 pc
Cable 5.5mm 1mtr with Dual Lens	1 pc	Small Hook	1 pc	Carry Bag	1 pc
Manual	1 pc	Sharp Hook	1 pc		
Magnet	1 pc	Type C Charging Cable	1 pc		





















Air conditioning detection

Multi Functional Articulating Endoscope

Model No: ET 1002

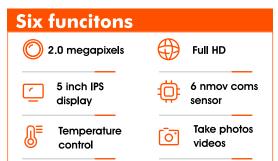
with 8 mm lens, 1 mtr cable lenght

Model No: ET 7006

with 6 mm lens, 1 mtr cable lenght

Model No: ET 9009

with 8 mm lens, 2 mtrs cable lenght



TECHNICAL SPECIFICATIONS

Particulars	
Screen Type	5.10 inch IPS Display
Lens	Dual Lens
Image resolution	1920* 1080P
Auxiliary light	8+ 1LED
Charge time	About 2.5h
Charging interface	Type C
Flexible cable length	1M/2M

TECHNICAL SPECIFICATIONS

TECHNICAL OF ECH TOATION		
Particulars		
Screen Type	2 million pixels	
Video resolution	1280° 720P	
Focal depth	A:2- 10CM B:25CM	
Battery	2000mAh	
Working time	About 3h	
Waterproof size	lp67 (for lens)	
Packing size	42*22*8.5M	

FEATURES

















MCT 300 Mobile Generation Coating Thickness Guage



PRODUCT INTRODUCTION:

MCT:300 Coating Thickness Gauge is an intelligent coating thickness measurment device that works on highly integrated sensing technology that replaces the traditional interface with the Mobile Phone via dedicated software App. This series subverts the user's perception of the way traditional coating thickness gauges are used. A smooth connection can be established between the mobile phone and the smart senor probe that can perform highly accurate coating thickness measurements, data storage, data sharing on multiple social media platforms and inter-connections which greatly increases the convenience of testing.

FEATURES

- Sensor probe establishes and processes signals while using the Mobile Phone to utilize full standard display, Distributed storage and automatic data output.
- Super strong resistance to electromagnetic interference through full shielding technology, which is suitable for on-site measurements.
- Convenient report generation and report printing
- Supports user defined watermarks with ease of forwarding through various social media platforms
- Operates on Android Mobile Phones
- Can connect with multiple devices through USB hub





TECHNICAL SPECIFICATIONS

Particulars	MCT 300 Mobile Generation Coating Thickness Guage	
Working principle	Magnetic induction	Eddy current
Probe type	F	N
Measuring range (μm)	0 ~ 1500	0 ~ 1500 Chromium plating on copper 0-40
Lower limit of resolution (µm)	0.1	0.1
Indication Value		
Zero calibration (μm) (H refers to the actual thickness of the measured object)	±(3%H + 1)	±(3%H + 1.5)
Two point calibration (µm) (H refers to the actual thickness of the measured object)	± [(1 ~ 3)% H +1]	± [(1 ~ 3)% H +1.5]
Indication Value		
Minimum radius of curvature (mm)	Convex 3	Convex 3
Diameter of minimum area (mm)	Ø7	Ø7
Critical thickness of matrix (mm)	0.5	0.3

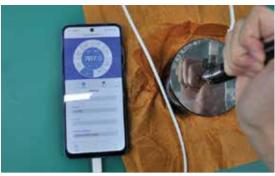
FACTORS AFFECTING MEASUREMENT ACCURACY

(▲ indicates influence)

Factors / Method	Magnetic Induction	Eddy Current
Magnetic properties of base metal	A	
Electrical properties of base metal		_
Base metal thickness		_
Edge effect	_	_
Curvature	A	_
The deformation	_	_
Surface roughness	_	_
Magnetic field	_	
Attached substance	<u> </u>	_
Pressure of the probe	_	_
Direction of the probe	_	_

MHT 600 Mobile Generation Leeb Hardness Tester







PRODUCT INTRODUCTION:

MHT: 600 Hardness tester is an intelligent testing device that works on highly integrated sensing technology that replaces the traditional interface with the Mobile Phone via dedicated software App. This series subverts the user's perception of the way traditional testing instruments are used. A smooth connection can be established between the mobile phone and the smart senor device that can perform highly accurate tests, data storage, data sharing on multiple social media platforms and inter-connections which greatly increases the convenience of testing.

FEATURES

- Impact Device establishes and processes signals while using the Mobile Phone to utilize full standard display, Distributed storage and automatic data output.
- Super strong resistance to electromagnetic interference through full shielding technology, which is suitable for onsite hardness measurements.
- Convenient report generation and report printing
- Supports user defined watermarks with ease of forwarding through various social media platforms
- Supports Android operating system
- Can connect with multiple mobile phones through USB hub

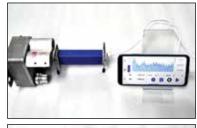
TECHNICAL SPECIFICATIONS

Particulars	
Min. weight of test object	5kgs (less than 5 kgs to 0.1kg must be coupled)
Min. thickness of test object	5mm (less than 5mm upto 3mm must be coupled)
Min. thickness of hardness layers	0.8mm
Min. Radius of curved surface	30mm (with optional support rings 11mm)
Measuring Range	HLD 170-960 / HRC 17.9-68.5 / HB 30-655 / HV 80-976 / HRB 13.5-99.6 / HSD 32.2-99.5
Standard delivery	Impact device D, Calibration Block, Software , Data cable

Name	Qty.
Software	1 pc
Data cable	1 pc
Impact device	1 pc
Calibration block	1 pc

MSJ 210 Mobile Generation Surface Roughness Tester







PRODUCT INTRODUCTION:

MSJ:210 Surface Roughness Tester is an intelligent testing product that relies on highly integrated intelligent sensing technology and replaces the traditional host with a mobile App. This series subverts people's perception of the way traditional testing instruments are used. After connecting different smart sensors to the mobile phone, the function of the roughness testing instrument can be realized through the mobile phone App, which realizes the smooth connection between the mobile phone and the smart sensor, and can be used for data storage, data query, data sharing, multi-platfrom, interconnection and other functions, which greatly increases the convenience of testing.

FEATURES

CSV format.

- High precision inductive sensor with improved main structure
- Five filtering methods: Gaussian, FFT, PC, DP, 2RC
- Compatible with ten standards including JIS-82, JIS-87, JIS-94, JIS-01, JIS-13, JSO-84, ISO-97, DIN-90, ASME-95, GB-14
- It is more convenient to use smart phones to evaluate and process the measurement results
- The setting is simple, and most of the parameters are selected automatically.
 It can generate PDF rest reports and export data files in

TECHNICAL SPECIFICATIONS

Particulars	MCT 300 Mobile Generation Coating Thickness Guage				
Sensor					
Detection principle	Inductive type		Maximum drive stroke	17.5	
Measuring range	200μm	Drive parameters	Maximum drive stroke	0.5mm/s	
Stylus radius	5μm		Return drive	2mm/s	
Stylus material	Diamond	Indication error	Not more than $\pm 10\%$		
Measuring force	4mN (0.4gf)	Indication variability	Not more than 6%		
Stylus angle	90°	Display content	Menu: Modify measurement conditions, calibrate indication value, choose to communicate with mobile phone or report output etc.		
Guide head longitudinal radius	45mm		Parameters: Compatible with four standard roughness parameters of ISO, DIN, ANSI and JIS.		
			Graphics: non-filtered profile graphics. filtered profile graphics and tp curves.		
			Prompt information: m	easurement information, menu prompt information.	
Parameters measurement	Ra75, Rq, Rp, Rv, Rc, Rt, S, R3z, PPI, Ra, Rsk, Rku, Ry, Sm, RΔa, RΔq, Rz, Pc, Rλq, Ir, RSm, Rz94, RPc, Rz.I, Rpm, HSC, Rk, Rpk, Rvk, Mr1, Mr2, V0, K, A1, A2, Rmr(i), Rmr2(i), Rdc(i)				

Name	Qty.
Actuator host	1 pc
Sensor / Data cable	1 pc
Adjustable stand	1 pc
Roughness standard test block	1 pc



Measuring Instruments



Bliss

NDT Instruments





































Precision Measuring Instruments & Non-Destructive Testing Instruments

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