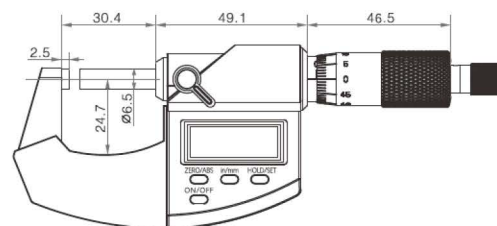


▶ Digital Micrometer



5217-25



Technical Data

Model	Measuring range(mm)	Resolution (mm/)	Accuracy (mm)
5217-25	0-25	0.001/0.00005"	±0.003
5217-50	25-50	0.001/0.00005"	±0.003
5217-75	50-75	0.001/0.00005"	±0.003
5217-100	75-100	0.001/0.00005"	±0.003

Features

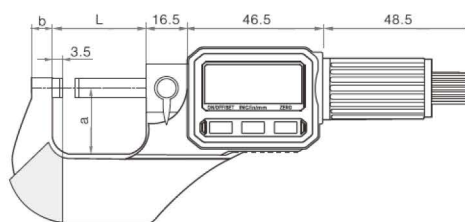
- Both LCD display and cursor scale line;
- Durable carbide measuring head;
- Can used for direct measurement and comparative measurement;
- Data retention function, convenient to use in occasions where direct reading is not suitable;
- Automatic power off for non-response within 5 minutes;
- Service temperature: 0-40°C, service humidity: ≤ 80%;
- Power supply: CR2032.



▶ Digital Micrometer



5219-25



Technical Data

Model	Range (mm)	Accuracy (mm)	Resolution (mm/inch)	a (mm)	b (mm)	L (mm)
5219-25	0-25	±0.003	0.001/0.00005"	23.5	6.5	31.5
5219-50	25-50	±0.003	0.001/0.00005"	32	8.7	57.0
5219-75	50-75	±0.004	0.001/0.00005"	45	8.7	81.5
5219-100	75-100	±0.004	0.001/0.00005"	57.5	8.7	106.7

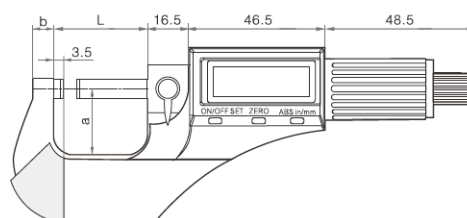
Features

- Material: Stainless steel
- Measuring force: 5~10N
- Storage temperature: -20°C ~60°C
- Operating temperature: 0°C ~ 40°C
- Battery: 3V CR2032 environmental lithium battery
- Buttons: on/off, zero, mm/inch conversion, ABS/INC

► Digital Micrometer



5202-25



Technical Data

Model	Range (mm)	Accuracy (mm)	Resolution (mm/inch)	a (mm)	b (mm)	L (mm)
5202-25	0-25	±0.003	0.001/0.00005"	23.5	6.5	31.5
5202-50	25-50	±0.003	0.001/0.00005"	32	8.7	57.0
5202-75	50-75	±0.004	0.001/0.00005"	45	8.7	81.5
5202-100	75-100	±0.004	0.001/0.00005"	57.5	8.7	106.7

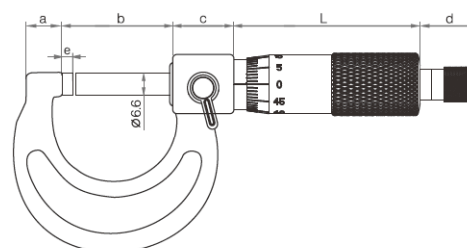
Features

- Material: Stainless steel
- Measuring force: 5~10N
- Storage temperature: -20°C ~60°C
- Operating temperature: 0°C ~ 40°C
- Battery: 3V CR2032 environmental lithium battery
- Buttons: on/off, zero, mm/inch conversion, ABS/INC

► Outside Micrometer



5201-25A



Technical Data

Model	Range (mm)	Accuracy (mm)	Resolution (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	L (mm)
5201-25A	0-25	±0.004	0.01	10.5	31	17.5	17	3.6	52.5
5201-50A	25-50	±0.004	0.01	16	56.8	17.5	17	3.6	52.5
5201-75A	50-75	±0.005	0.01	16	82	17.5	17	3.3	52.5
5201-100A	75-100	±0.005	0.01	17	106	17.5	17	3	52.5
5201-125A	100-125	±0.006	0.01	18	131.6	17.5	17	3.4	52.5
5201-150A	125-150	±0.006	0.01	18	157.2	17.5	17	3.7	52.5
5201-175A	150-175	±0.007	0.01	21.9	181.5	17.5	17	3.8	52.5
5201-200A	175-200	±0.007	0.01	21.4	208	17.5	17	3.3	52.5

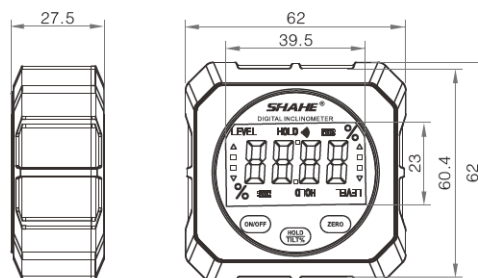
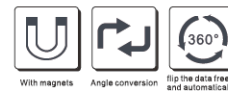
Features

- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except 5201-25A)

▶ Touch Digital angle finder



5518



Technical Data

Model	Range	Accuracy	Resolution	Repeat ability	Magnets	Illum inate
5518	4°90°	± 0.2°	0.05°	0.1°	On the bottom	Yes

Features

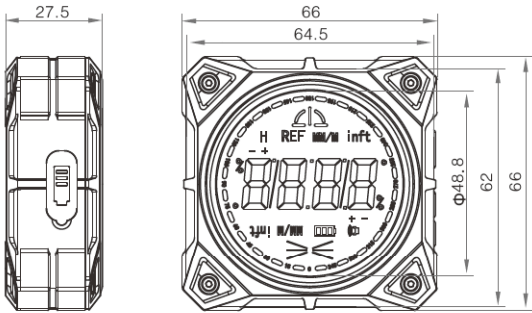
- Battery: 2*AAA batteries
- Operating temperature: -10~50°C
- Humidity: ≤ 85% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes



▶ Digital angle finder



5519



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5519	4°90°	±0.2°	0.05°	0.1°	Inside of the base
5519S	4°90°	±0.2°	0.05°	0.1°	magnets on 4 surfaces

Features

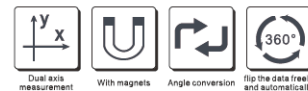
- Battery 3.7V lithium battery
- Operating temperature: -10~50°C
- Humidity: ≤ 85% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes



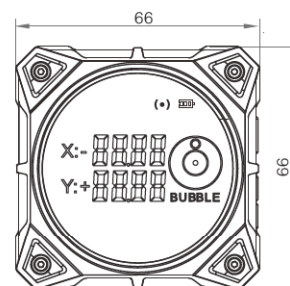
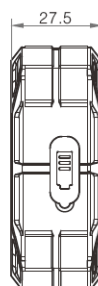
Biweekly
Simultaneous Measurement



▶ Digital angle finder



5520



Technical Data

Model	Range		Accuracy	Resolution	Repeatability	Magnets
	Single Axis	Double Axis				
5520	4*90°	±40°	±0.2°	0.05°	0.1°	Inside of the base

Features

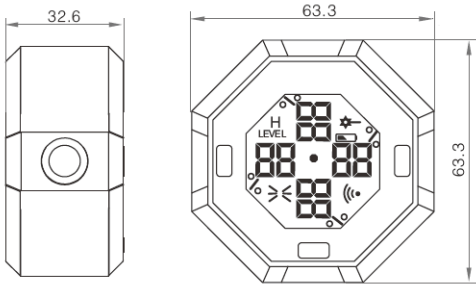
- Battery 3.7V lithium battery
- Operating temperature: -10~50°C
- Humidity: ≤ 85% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes



▶ | Octagonal four sided laser digital inclinometer



5525



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5525	4°90°	±0.2°	0.05°	0.1°	magnets on 4 surfaces

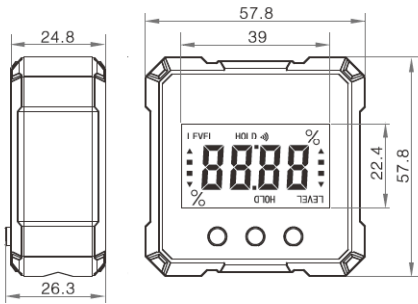
Features

- Buttons: on/off, zero, data hold, iaser switch
- Angle and slope conversion
- Line Laser Accuracy: ± 5mm/2m
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- Operating Temperature: -10~50°C
- Battery:2*AAA batteries

▶ | Digital Inclinometer



5315-90C(VA white light)



Technical Data

Model	Range	Accuracy	Resolution	Repeat ability	L*H*W (mm)	Magnets	Illum inate
5315	4°90°	±0.2°	0.05°	0.1°	57.8*57.8*26.3	On the bottom	Yes

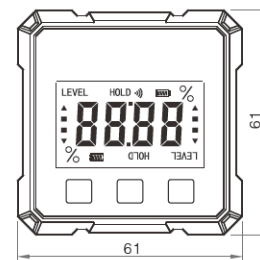
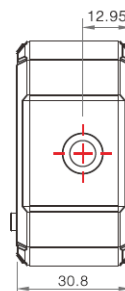
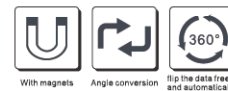
Features

- Battery: 2*AAA batteries
- Operating temperature: 0°C ~ 40°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes

▶ Two-sided Laser Digital Inclinometer



5521



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5521	4°90°	±0.2°	0.05°	0.1°	magnets on 4 surfaces

Features

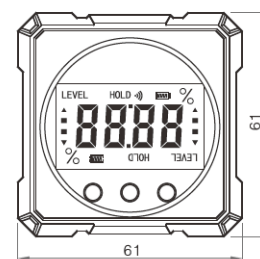
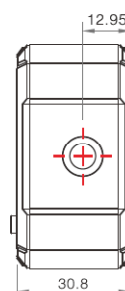
- Buttons: on/off, zero, data hold, laser switch
- Angle and slope conversion
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery



▶ Two-sided Laser Digital Inclinometer



5341-90



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5341	4°90°	±0.2°	0.05°	0.1°	magnets on 4 surfaces

Features

- Buttons: on/off, zero, data hold, laser switch
- Angle and slope conversion
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery

▶ Two-sided Laser Digital Inclinator

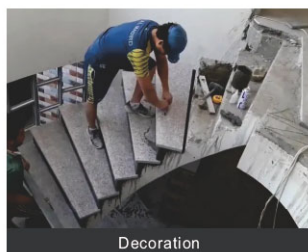


Multiple application scopes

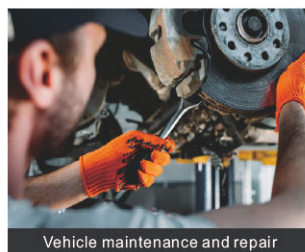
The application range is wide, and the diversified use requirements are met.



Architectural engineering



Decoration

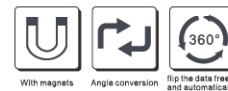


Vehicle maintenance and repair



Mechanical processing

Digital Inclinometer



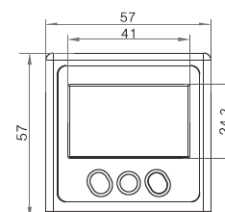
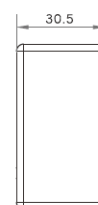
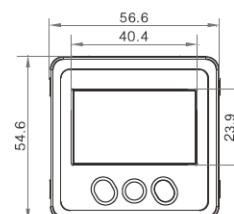
5515-90W(LCD white light)



5515-90G(LCD Green light)



5515-90BG(VAGreen light)



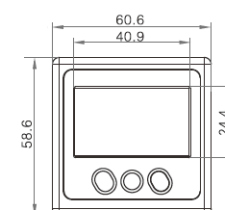
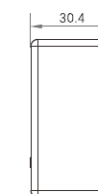
5515-90BW(LCD white light)



5415-90(LCD white light)



5339-90(LCD white light)



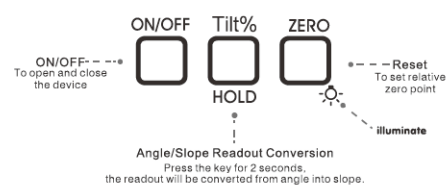
5515-90WF(LCD white light)



5515-90GF(LCD Green light)



5515-90BWF(LCD white light)



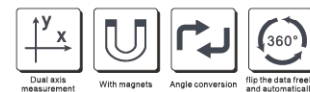
Technical Data

Model	Range	Accuracy	Resolution	Repeat ability	L*H*W (mm)	Net Weight (g)	Magnets	Illum inate	waterproof
5515-90 W/G/BG/BW	4°90°	±0.2°	0.05°	0.1°	56.6*54.6*26	80	On the bottom	Yes	
5515-90 WF/GF /BGF/BWF	4°90°	±0.2°	0.05°	0.1°	56.6*54.6*26	80	On the bottom	Yes	IP65
5415-90	4°90°	±0.2°	0.05°	0.1°	57*57*30.5	190	On the bottom	Yes	
5339-90	4°90°	±0.2°	0.05°	0.1°	61*59*30.5	225	On the 3 side surfaces	Yes	

Features

- Battery: 2*AAA batteries
- Operating temperature: -10°C~50°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes

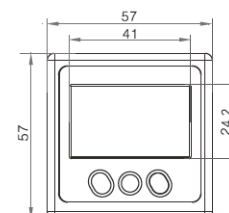
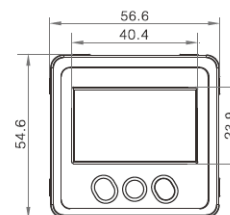
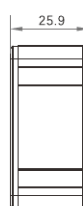
Dual Axis Digital Inclinator



5515-90DS



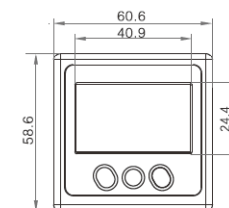
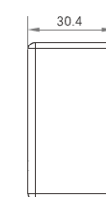
5515-90FS



5415-90DS



5339-90DS



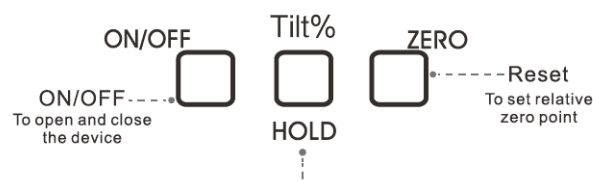
with illuminate



with magnets on three sides surfaces



LCD display



Angle/Slope Readout Conversion

Press the key for 2 seconds, the readout will be converted from angle into slope.

Technical Data

Model	Range		Accuracy	Resolution	Repeatability	L*H*W (mm)	Net Weight (g)	Magnets	Water proof
	Single Axis	Double Axis							
5515-90DS	4°90°	±40°	±0.2°	0.05°	0.1°	56.6*54.6*26	80	Inside of the base	
5515-90FS	4°90°	±40°	±0.2°	0.05°	0.1°	56.6*54.6*26	80	Inside of the base	IP65
5415-90DS	4°90°	±40°	±0.2°	0.05°	0.1°	57*57*30.5	190	On the base	
5339-90DS	4°90°	±40°	±0.2°	0.05°	0.1°	61*59*30.5	225	On 3 surfaces	

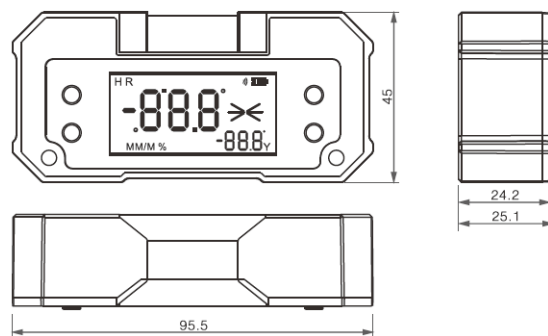
Features

- Battery: 2*AAA batteries
- Operating temperature: 0°C ~ 40°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes
- Biaxial measurement in both horizontal and vertical directions

Wireless Digital Angle Gauge



5346-L



Technical Data

Model	Range		Accuracy		Resolution	Repeatability	Magnets
5346-L	Uniaxial 4 × 90°	Biaxial ± 60°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1	magnets on 2 surfaces
5346	Uniaxial 4 × 90°	Biaxial ± 60°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1	magnets on 2 surfaces

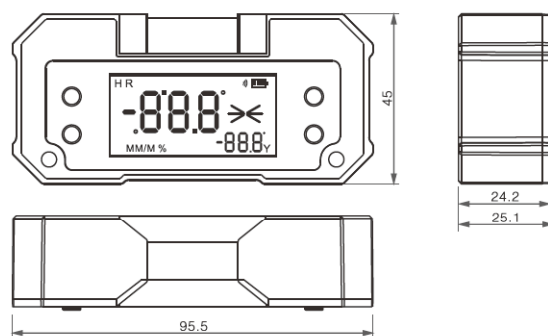
Features

- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery
- Main display:
 - For uniaxial measurement, the main display screen only displays X-axis data.
 - For biaxial measurement, the main display screen displays X-axis and Y-axis data at the same time.

Digital Angle Gauge



5346



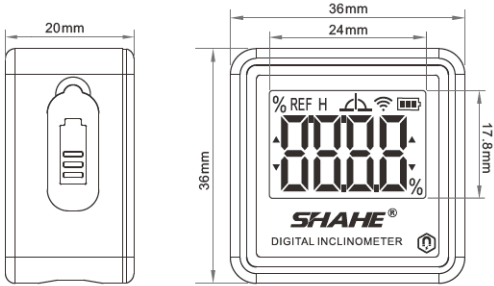
Technical Data

Model	Range		Accuracy		Resolution	Repeatability	Magnets
5346-L	Uniaxial 4 × 90°	Biaxial 40°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1	magnets on 2 surfaces
5346	Uniaxial 4 × 90°	Biaxial 40°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1	magnets on 2 surfaces

Features

- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery
- Main display:
 - For uniaxial measurement, the main display screen only displays X-axis data.
 - For biaxial measurement, the main display screen displays X-axis and Y-axis data at the same time.

▶ | Pocket Wireless Digital Inclinometer



Technical Data

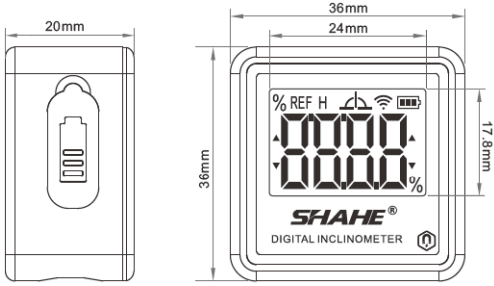
Model	Range	Accuracy	Resolution	Repeatability	Magnets
5347-90	4°90°	±0.2°	0.05°	0.1°	magnets on 1 surfaces
5347L-90	4°90°	±0.2°	0.05°	0.1°	magnets on 1 surfaces

Features

- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery



▶ | Pocket Digital Inclinometer



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5347-90	4°90°	±0.2°	0.05°	0.1°	magnets on 1 surfaces
5347L-90	4°90°	±0.2°	0.05°	0.1°	magnets on 1 surfaces

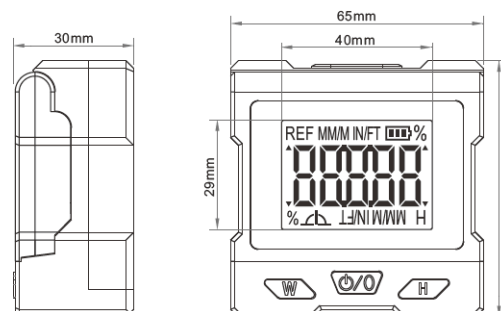
Features

- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: -10~50°C
- Battery 3.7V lithium battery

▶ Flip digital inclinometer



5348



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5348	4°~90°	±0.1°	0.01°	0.1°	magnets on 4 surfaces

Features

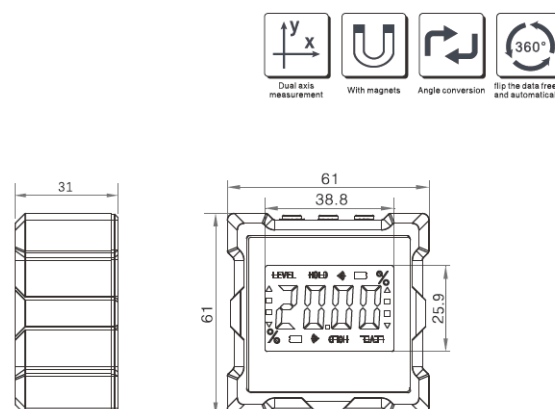
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature -10 ~ 50°C
- Battery 3.7V lithium battery



▶ Digital Inclinometer



5418-90



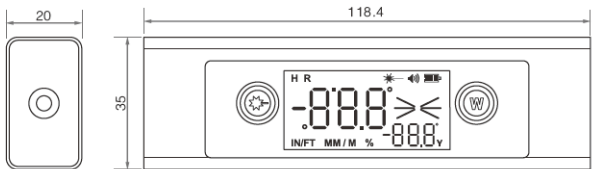
Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5418-90	4°~90°	±0.2°	0.05°	0.1°	magnets on 4 surfaces

Features

- Battery: 2*AAA batteries
- Operating temperature: 0°C ~ 40°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes

▶ Smart Angle Gauge



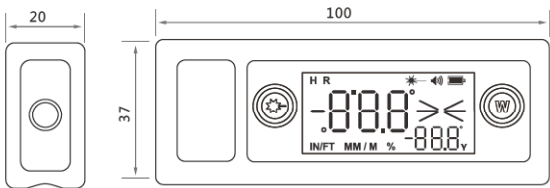
Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Charger interface
5342	Single axis 4×90°	Single axis ± 0.2°	0.1°	0.1°	DC5V 400mA (Type-c)
	Double axis ± 60°	Dual axis ± 0.3°			

Features

- Magnet:Magnetic adsorption measurement surface, it can be adsorbed on the measured workpiece for measurement.
- Benchmark:Absolute zero measurement with the horizontal plane as the reference point.
- Working environment:0-40°C(Humidity not more than 80%)
- Power supply:3.7V lithium battery

▶ Smart Angle Gauge



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Charger interface
5524	Single axis 4×90°	Single axis ± 0.2°	0.1°	0.1°	DC5V 400mA (Type-c)
	Double axis ± 60°	Dual axis ± 0.3°			

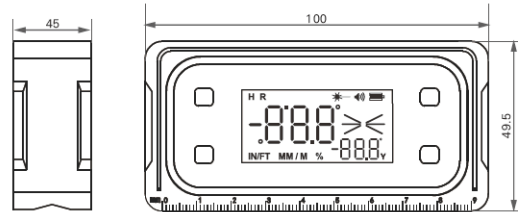
Features

- Magnet:Magnetic adsorption measurement surface, it can be adsorbed on the measured workpiece for measurement.
- Benchmark:Absolute zero measurement with the horizontal plane as the reference point.
- Working environment:0-40°C(Humidity not more than 80%)
- Power supply:3.7V lithium battery

▶ Touch inclinometer



5522



Technical Data

Model	Range	Accuracy	Resolution	Repeatability	Magnets
5522	Uniaxial 4 × 90°	Biaxial ± 60° Uniaxial 0.2° Biaxial 0.3°	0.1	0.1	Inside of the base

Features

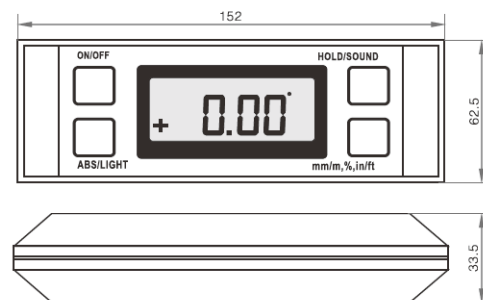
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- Operating Temperature: 0~40°C, (humidity is not more than 80%)
- Power supply: 2*AAA Battery
- Main display:
 1. For uniaxial measurement, the main display screen only displays X-axis data.
 2. For biaxial measurement, the main display screen displays X-axis and Y-axis data at the same time.



▶ Digital Protractor



5340-90



Technical Data

Model	Range	Accuracy	Resolution	Magnets	Illuminate
5340-90	4*90°	± 0.15°	0.05°	Yes	Yes
5340-90D	4*90°	± 0.15°	0.05°	/	Yes

Features

- Battery: DC3V (AAA*2)
- Operating temperature: 0°C ~ 40°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold
- Automatic power off in 3 minutes
- With protractor, inclinometer and level in one
- Precise aluminum construction
- V-groove base plate with magnet

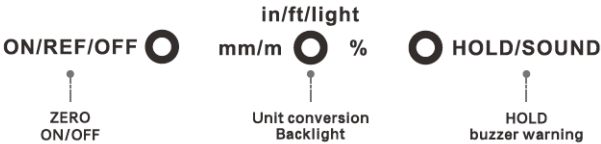
▶ Multi-function Digital Level



5419-400D



5419-225



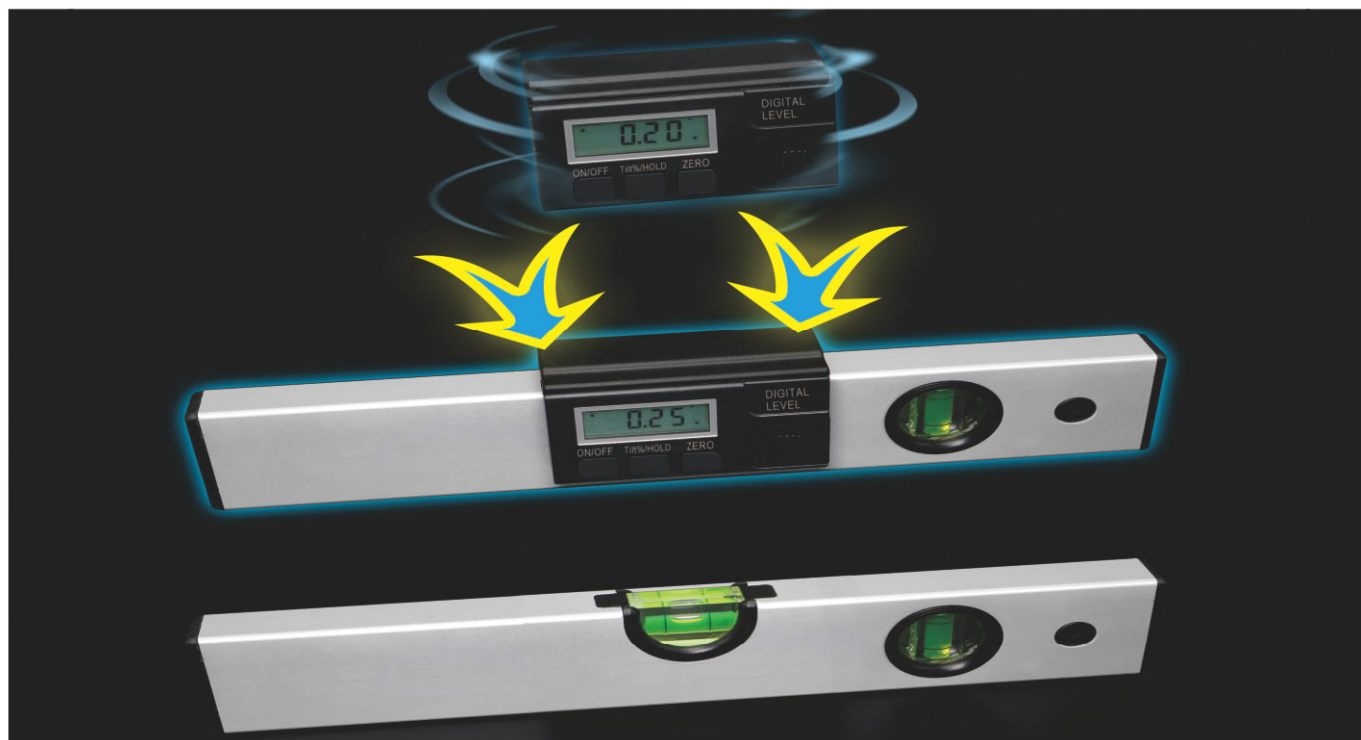
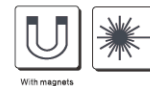
Technical Data

Model	Specification (mm/inch)	Range	Accuracy	Resolution	With Laser
5419-225	225/9	4°90°	± 0.2°	0.05°	/
5419-400	400/16	4°90°	± 0.2°	0.05°	/
5419-600	600/24	4°90°	± 0.2°	0.05°	/
5419-1000	1000/40	4°90°	± 0.2°	0.05°	/
5419-225D	225/9	4°90°	± 0.2°	0.05°	Yes
5419-400D	400/16	4°90°	± 0.2°	0.05°	Yes
5419-600D	600/24	4°90°	± 0.2°	0.05°	Yes
5419-1000D	1000/40	4°90°	± 0.2°	0.05°	Yes

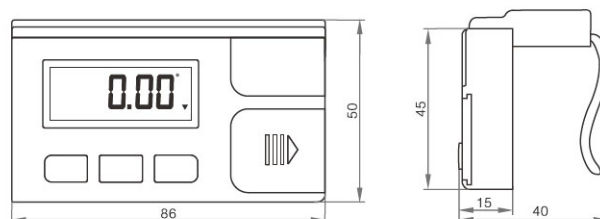
Features

- Material: high strength aluminum alloy
- Buttons: on/off, zero, units conversion (mm/m, in/ft, %), data hold, backlight, buzzer warning, angle/slope conversion
- Automatic power on/off
- Optional laser

► Multi-function Digital Level



Application



Technical Data

Model	Range	Accuracy	Resolution	Repeatability
5517K-90	4*90°	± 0.2°	0.05°	0.1°

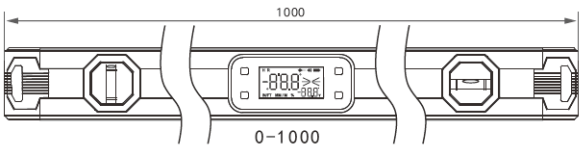
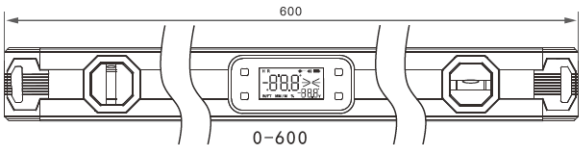
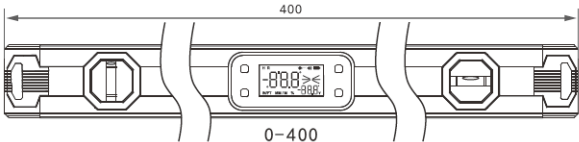
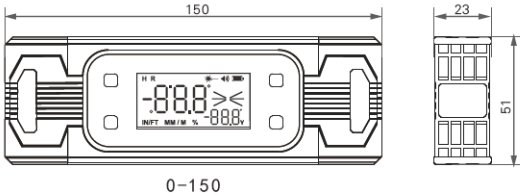
Features

- Available in different levels
- Optional clamping device
- Absolute angle measurement and relative angle measurement
- Angle and slope conversion

▶ | Touch Digital level ruler



5527-150



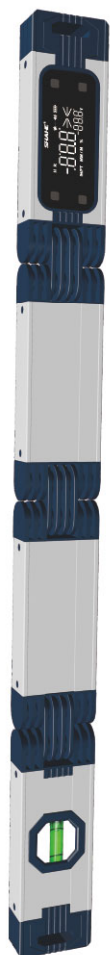
Technical Data

Model	Range		Accuracy		Resolution	Repeatability
5527-150	Uniaxial 4 × 90°	Biaxial ± 60°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1
5527-400						
5527-600						
5527-1000						

Features

- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: 0~40°C, (humidity is not more than 80%)
- Power supply: 2*AAA Battery
- Main display:
 1. For uniaxial measurement, the main display screen only displays X-axis data.
 2. For biaxial measurement, the main display screen displays X-axis and Y-axis data at the same time.

▶ Folding Multi-function Digital Level



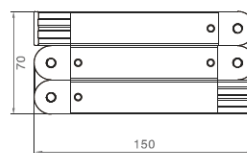
5521-4

Technical Data

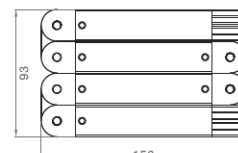
Model	Range		Accuracy		Resolution	Repeatability
5528-3	Uniaxial 4 × 90°	Biaxial ± 60°	Uniaxial 0.2°	Biaxial 0.3°	0.1	0.1
5528-4						
5528-5						

Features

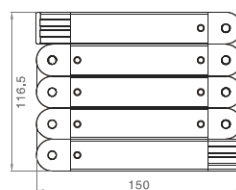
- Absolute and relative measurements are available
- Automatic power off in 3 minutes
- With powerful magnet, the square is rechargeable
- Operating Temperature: 0~40°C, (humidity is not more than 80%)
- Power supply: 2*AAA Battery
- Main display:
 1. For uniaxial measurement, the main display screen only displays X-axis data.
 2. For biaxial measurement, the main display screen displays X-axis and Y-axis data at the same time.



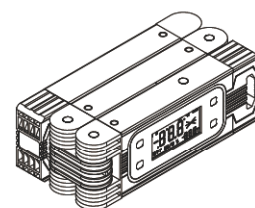
Top View of Triple-unit Installation



Top View of Quad-unit Installation



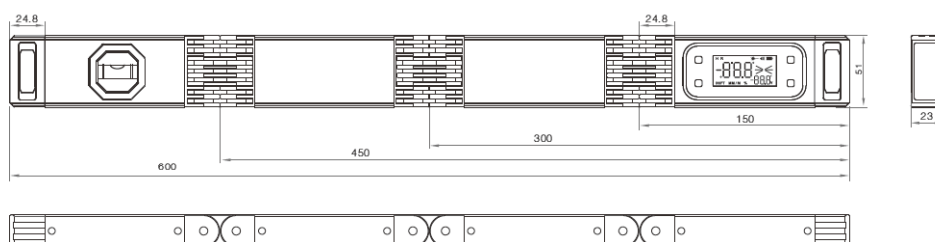
Top View of Quint-unit Installation



Axonometric View of Triple-unit Installation



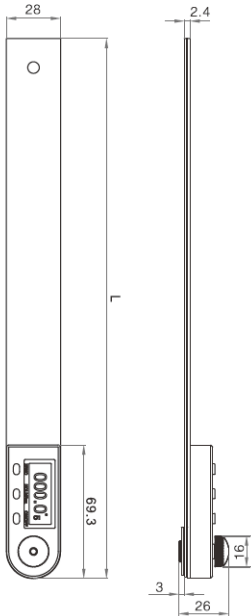
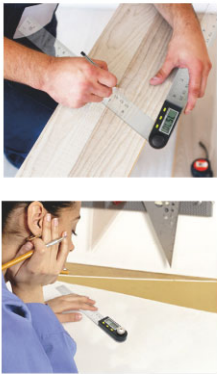
With magnets



▶ Digital Angle Ruler



5423F-200



5423Z



5423F

Features

- Measure the angles and lengths
- Battery: 3V CR2032 environmental lithium battery
- Operating temperature: 0°C~ 40°C
- Humidity: ≤ 80% RH
- Buttons: on/off, zero, angle/slope conversion, data hold

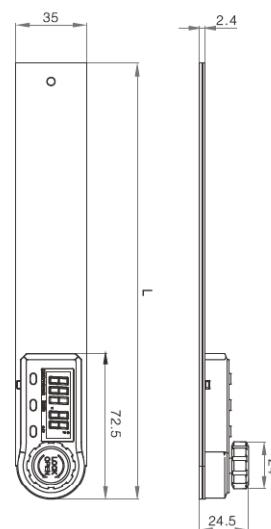
Technical Data

Model		Range		Accuracy (mm)	Resolution	Decimal Reading	Sexagesimal Reading	L (mm)
		(mm)	(°)					
5423Z-200	5423F-200	0-200	0-360°	± 0.3	0.05°	Yes	Yes	280
5423Z-300	5423F-300	0-300	0-360°	± 0.3	0.05°	Yes	Yes	380
5423Z-500	5423F-500	0-500	0-360°	± 0.3	0.05°	Yes	Yes	585

▶ Digital Angle Ruler



5424F-200



5424Z-200



5424F-200

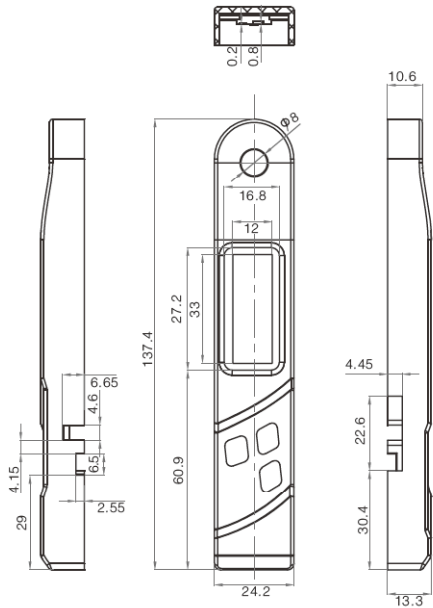
Features

- Measure the angles and lengths
- Material: Stainless steel
- Buttons: on/off, zero, angle/slope conversion, data hold

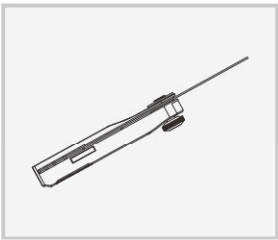
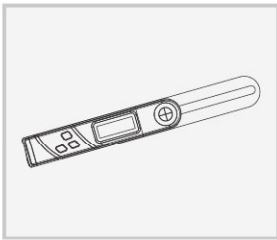
Technical Data

Model		Range		Accuracy (mm)	Resolution	Decimal Reading	Sexagesimal Reading	L (mm)
		(mm)	(°)					
5424Z-200	5424F-200	0-200	0-360°	± 0.3	0.05°	Yes	Yes	217
5424Z-300	5424F-300	0-300	0-360°	± 0.3	0.05°	Yes	Yes	317
5424Z-500	5424F-500	0-500	0-360°	± 0.3	0.05°	Yes	Yes	517

T-type Digital Angle Ruler



5350-T



Features

- Measure the angles and lengths
- Material: Stainless steel
- Measuring range: 0–360°
- Battery: CR2032
- Working temperature: 0–400°C
- Working humidity: ≤80%
- Buttons: d/m, hold, on/off/zero,

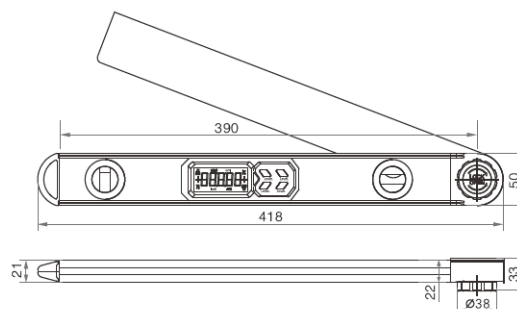
Technical Data

Model	Range (°)	Accuracy (mm)	Resolution	Decimal Reading	Sexagesimal Reading	L (mm)
5350-T	0–360°	± 0.4	0.05°	Yes	Yes	137.4

▶ Two-in-One Horizontal Angle Ruler



5425S-400



Technical Data

Model	5425S-400	
Type	Level bar	Angle ruler
Range	4*90°	0~225°
Resolution	0.05°	0.05°
Accuracy	± 0.2°	± 0.5°
Repeatability	0.1°	0.05°

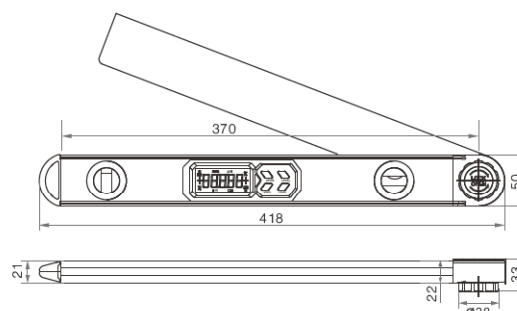
Features

- Backlight
- Lockable
- Material: high strength aluminum alloy
- Automatic power off in 3 minutes
- Absolute and relative measurements can be made on the horizontal plane
- Storage Temperature: -20 ~ 60°C
- Operating Temperature: 0 ~ 40°C
- Humidity: ≤ 80% RH
- Battery: 2*7# batteries (1.5V)

▶ Aluminum Alloy Angle Ruler



5425-400



Technical Data

Model	Range	Accuracy	Resolution
5425-400	0~225°	± 0.5°	0.05°

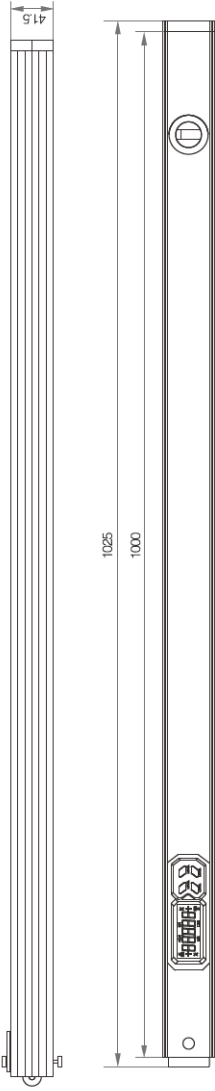
Features

- Backlight
- Lockable
- Material: high strength aluminum alloy
- Automatic power off in 3 minutes
- Storage Temperature: -20 ~ 60°C
- Operating Temperature: 0 ~ 40°C
- Humidity: ≤ 80% RH
- Battery: 2*7# batteries (1.5V)

Folding guiding ruler



5420-2000



Technical Data

Model	Specification (mm/inch)	Range	Accuracy	Resolution	With Laser
5420-2000	225/9	4°90°	± 0.3°	0.05°	/

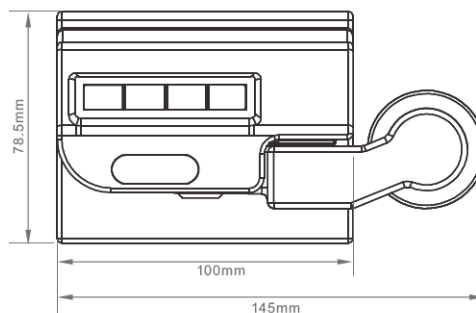
Features

- Material: high strength aluminum alloy
- Buttons: on/off, zero, units conversion (mm/m, in/ft, %,mm/2m), data hold, backlight, buzzer warning, angle/slope conversion
- Automatic power on/off
- Optional laser

▶ Saw Caliper



5511



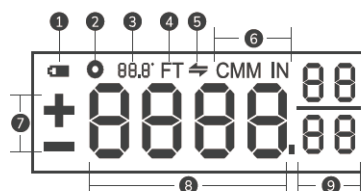
Saw Caliper User's Manual

- A saw caliper is used with a cutting machine to measure the length of wood and aluminum profiles. It can be affixed to the cutting machine with its clamping mechanism which can be adjusted according to the thickness of the backboard of the cutting machine in a range of 4 mm ~ 12 mm. It rolls on the surface of the cutting material with its wheel while outputs and displays the distance data on the LCD display.

Features

- Material: abs
- Range: 30 m
- Resolution: 0.05 mm
- Accuracy: $\pm 1.5 \text{ mm} / \pm 0.04 \text{ inch}$
- Buttons: ON/OFF, UNIT, LIGHT, ZERO,
- Battery: 2*AAA batteries

Saw Caliper User's Manual



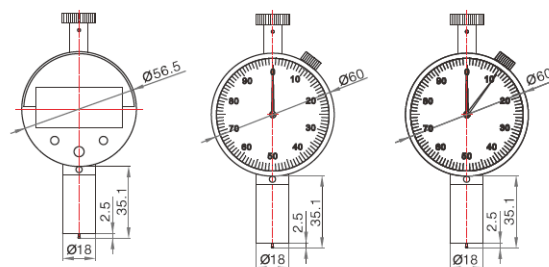
- | | |
|------------------------|------------------------------|
| 1. Battery Level | 6. U Nits: Mm/cm/in |
| 2. Blade Settings | 7. Positive/negative |
| 3. Angle | 8. Integer Digits |
| 4. Units Ft | 9. Decimal/fractional Digits |
| 5. Comparing Fractions | |



► Shore A Hardness Tester



LXD-A



LX-A-1



LX-A-2



Features

- Applied in the experiment of testing the hardness of low and medium hardness plastic, rubber, etc.
- Conform to the standard ISO868 and ISO7619 international standards
- Conform to the standard GB/T531, TB6148 and JJG304 standards

Technical Data

Range (HA)	0–100
Recommended Range (HA)	10–90
Outline Dimension (mm)	115*60*25
Pressure Needle Range (mm)	2.5
End Pressure of Pressure Head (mm)	0.79
Net Weight (kg)	~0.13, ~0.14, ~0.16

► Shore C Hardness Tester



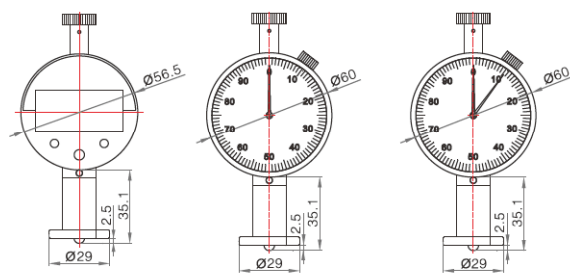
LXD-C



LX-C-1



LX-C-2



Features

- Measure the hardness of rubber and plastic microporous materials containing foaming agent, when the compression rate is 50% and the force is more than 0.5kg/cm
- Conform to the standard GB/T2489 and other related standards

Technical Data

Range (HC)	0–100
Recommended Range (HC)	10–90
Outline Dimension (mm)	115*60*25
Pressure Needle Range (mm)	2.5
End Pressure of Pressure Head (mm)	2.5
Net Weight (kg)	~0.13, ~0.14, ~0.16

▶ | Shore D Hardness Tester



LX-D-D

LX-D-1

LX-D-2

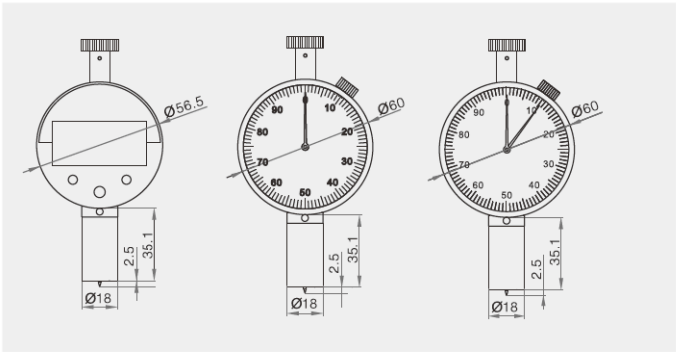


Technical Data

Range (HD)	0-100
Recommended Range (HD)	20-90
Outline Dimension (mm)	115*60*25
Pressure Needle Range (mm)	2.5
End Pressure of Pressure Head (mm)	0.1
Net Weight (kg)	~0.13, ~0.14, ~0.16

Features

- Applied in the experiment of testing the hardness of high hardness materials, such as ordinary hard rubber.
- Conform to the standard GB/T2489 and other related standards



▶ | LAC-J、LD-J Hardness Tester Stand



LAC-J



LD-J



Features

- LAC-J type is suitable for SHAHE LX-A, LX-C hardness tester.
- LD-J type is suitable for SHAHE LX-D hardness tester.

▶ Webster Hardness Tester



W-20(0.6-6mm)



W-20A(0.6-13mm)



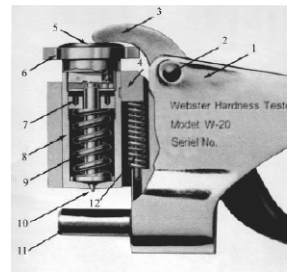
W-20B(0.6-8mm)



Features

- Mainly used for measuring the aluminum alloy (1100~7075)
- Hardness Measuring Range 0~20HW (aluminum and aluminum alloy 25 ~ 110HRE) (Copper alloy 60 ~ 90HRF)
- Accurate Measurement Range 5 ~ 18HW (determined by the instrument design principle)
- Accuracy: $\pm 0.5\text{HW}$
- Resolution: 1HW
- Measuring thickness:
 - W-20: 0.6~ 6mm (anvil diam 10mm)
 - W-20 a: 0.6~13mm(anvil diam 10mm) (anvil cylinder diam 23.5mm)
 - W-20 b: 0.6~ 8mm (anvil diam 6mm)

Instruments Instruction



- | | |
|----------------------|------------------|
| 1. Upper Handle | 10. Indenter |
| 2. Supporting Screw | 11. Anvil |
| 3. Lower Handle | 12. Reset Spring |
| 4. Reset Key | |
| 5. Adjusting Screw | |
| 6. Dial Head | |
| 7. Adjusting Nut | |
| 8. Indenter Cylinder | |
| 9. Load Spring | |

How It Works

Webster Hardness Tester is a kind of indentation hardness tester. Under a certain force, the pressing head is pressed into the test sample surface, and the pressing depth is inversely proportional to the hardness. The symbol of the Webster Hardness Tester is HW. For over-range sample tests, the pointer shows the force at 20; for low range sample tests, the tip does not move when subjected to a force and shows that it is still on the left side of the case.

How To Use

Place the measured object in the position between the anvil and the indenter, hold the upper and lower handles, press them hard, and pull the lower handles up. At the same time, the indenter and dial head assembly will move towards the anvil. When the indenter touches the object under test, keep pressing until the object is no longer moving. The indicator is now reading the Wechsler hardness number. It can be converted to Vickers and Rockwell hardness values according to the attached table.

Instrument calibration

The calibration of the instrument is divided into full scale calibration and standard test block calibration. There are 20 marks on the dial. Full scale calibration means that after the pointer does not move under the empty stroke, the pointer is adjusted to the 20 position by adjusting the adjusting screw in the ballot box. Standard test block calibration means that when the standard test block is placed between the anvil and the indenter for testing, the pointer is adjusted to the same value position as indicated by the standard test block by adjusting the adjusting nut in the indenter cylinder.

▶ | Barcol Impressor Hardness Tester



934-1

Specification

Indenter 26° pan head cone, head face diameter 0.157mm	
Testing Range	0~100HBa (25~135HBW)
Resolution	0.5HBa
Indication Error Hardness range	81~88HBa ± 1HBa 42~48HBa ± 2HBa
Repeatability Error	81~88HBa ± 1.5HBa 42~48HBa ± 2.5HBa
Weight	0.5kg

Introduction

This handy tool is used to test the hardness of aluminum, copper, brass and many other materials, including plastics and fiberglass. It can be used both for machining parts and raw materials.

Features

- Portable, convenient and easy to use – No training or experience required.
- Repeatable – Consistently get the accurate results.
- Versatile: It can be used anywhere and anywhere the operator is allowed to operate.
- Hardness readings are immediately displayed on the dial without waiting, preloading or measuring separately

▶ | Digital Barcol Hardness Tester



934-1S

Specification

Indenter 26° pan head cone, head face diameter 0.157mm	
Testing Range	0~100HBa (25~135HBW)
Resolution	0.5HBa
Indication Error Hardness Range	81~88HBa ± 1HBa 42~48HBa ± 2HBa
Repeatability Error	81~88HBa ± 1.5HBa 42~48HBa ± 2.5HBa
Weight	0.54kg

Introduction

This handy tool is used to test the hardness of aluminum, copper, brass and many other materials, including plastics and fiberglass. It can be used both for machining parts and raw materials.

Features

- Portable, convenient and easy to use: No training or experience required.
- Versatile: It can be used anywhere and anywhere the operator is allowed to operate.
- Repeatable: Consistently get the accurate results.
- Different hardness units.
- Peak mode.
- Directly set the number of measurements and calculate the average value.

Digital Leeb Hardness Tester



SL-140
without printer



SL-150
without printer



SL-160
with printer

Technical Data

Operating Temperature	0~40° C
Storage Temperature	-20~50° C
Operating Voltage	4.7V~6.0V
Power Supply	4 Section 1100mAH rechargeable battery
Charging Power	not more than 200mA
Weight	580g (with D impact device)
Host Dimension	233X91X31(mm)
Specifications	40X44 rolls of printing paper printing paper

Introduction

Digital Leeb Hardness Tester is developed on the basis of international popular metal material hardness tester following the principle of Leeb hardness measurement. It has the characteristics of high precision, small volume, easy operation and wide measuring range. It is especially suitable for large, heavy malleable parts, such as the roller turbine shaft. In addition, it is also applicable to installed and can not be removed parts, such as pressure vessels, water turbine sets and other equipment. Leeb Hardness Tester is widely used in petrochemical, aerospace, electric power, natural gas, automobile, shipbuilding, railway, machinery manufacturing and other industries.

Features

- Can Test a variety of materials.
- Test direction is not restricted.
- Test results can be printed.
- Data can be modified at any time.
- Automatic detection of battery voltage, low-voltage prompts.
- The large screen can display a variety of parameters.
- Measurement accuracy $\pm 8\text{HL}$ (HLD=800 5 point arithmetic average).

NK Analog Force Gauge



Product Description

NK series analog Force Gauge, compact size, high precision. They are simple to operate, easy to carry, and can display units in newtons and kilograms. At the same time, its PEAK/ TRACK knob can be switched between peak load test and continuous load test, is an excellent replacement for the old force gauges. It can also be used for tensile or push load tests, insertion force tests or tensile and destructive tests. Widely used in electrical, high and low voltage electrical appliances, hardware, auto parts, lighters and ignition systems, light industry, machinery, textile and other industries.

Product Description

Model	NK-20	NK-30	NK-50	NK-100	NK-200	NK-300	NK-500	NLB-20	NLB-30	NLB-50	NLB-100	NLB-200	NLB-300	NLB-500	ALB-4	ALB-10	ALB-20	ALB-40	ALB-100
Max load	20N /2kg	30N /3kg	50N /5kg	100N /10kg	200N /20kg	300N /30kg	500N /50kg	20N /4.4lb	30N /6.6lb	50N /11lb	10N /22lb	200N /44lb	300N /66lb	500N /110lb	45lb /2kg	11lb /5kg	22lb /10kg	45lb /20kg	110lb /50kg
Min load	2N /0.2kg	3N /3kg	5N /0.5kg	10N /1kg	20N /2kg	30N /3kg	50N /5kg	2N /0.4lb	3N /0.6lb	5N /1lb	10N /2lb	20N /4lb	30N /6lb	50N /10lb	4.5lb /0.2kg	1lb /0.5kg	2.2lb /1.1kg	4.5lb /2.2kg	11lb /5.5kg
Load graduation value	0.1N/ 20g	0.2N /20g	0.25N /50g	0.5N /100g	1.0N /200g	2.0N /200g	2.5N /500g	0.1N /0.04lb	0.2N /0.04lb	0.25N /0.1lb	0.5N /0.2lb	1.0N /0.4lb	2.0N /0.4lb	2.5N /1.0lb	0.02lb /0.02kg	0.05lb /0.05kg	0.1lb /0.1kg	0.2lb /0.2kg	0.5lb /0.5kg
Rod journey	10mm																		
Outline dimension	260x66x36mm																		

HF Digital Force Gauge



HF-2~1000



HF50N~200K



HF3000N~1000K



HF1000N~200K
HF100K~2000K
(Clamps do not include)

Product Description

NK series analog Force Gauge, compact size, high precision. They are simple to operate, easy to carry, and can display units in newtons and kilograms. At the same time, it can also be used for tensile or push load tests, insertion force tests or tensile and destructive tests. Widely used in electrical, high and low voltage electrical appliances, hardware, auto parts, lighters and ignition systems, light industry, machinery, textile and other industries.

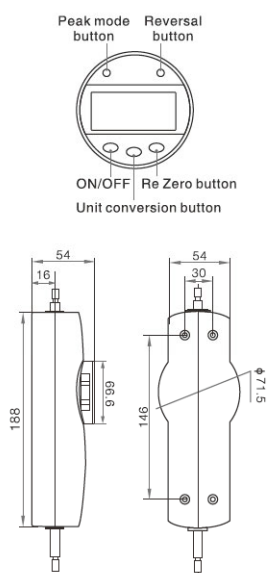
Features

- High accuracy: accuracy 0.5
- High resolution: the minimum reading 0.001 N
- Six measuring models: stand mode; pull-push peak mode, pull peak mode; the external
- Mode: on-off mode; external saying on-off mode. have maximum increasing test efficiency?
- Three display way for option: real-time; peak; auto-peak.
- Three unit conversions: N; Kg; Lb.
- Peak holding function: automatically capture the peak value in the test process.
- Comparison: free setting of up and down deviation, LCD display "MAX" and "MIN" respectively, buzzer alarm
- Signal output function: set the comparison value, it outputssignal when the measured force value is greater than the comparison value.
- Auto-peak function: peak display for 2 sdeconds, automatic release.
- Automatic shut down function: automatic shutdown within 10 minutes.
- Calculate function: When the computer is connected, the maximum and minimum values of each test can be calculated.
- Turnover LCD display screen: press the "print" button, the screen can be flipped 180 degrees.
- The real time analysis function it can be connected with the computer and synchronized, and the test curve can be displayed on the computer when testing, and various analysis can be carried out.

Technical Data

Type	HF-2	HF-3	HF-5	HF-10	HF-20	HF-30	HF-50	HF-100	HF-200	HF-300	HF-500	HF-1000	HF-2000	HF-3000	HF-5000	HF-10K	HF-20K	HF-30K	HF-50K	HF-100K	HF-200K	HF-300K	HF-500K	HF-1000K	HF-2000K
Peak load value	2N	3N	5N	10N	20N	30N	50N	100N	200N	300N	500N	1000N	2000N	3000N	5000N	10KN	20KN	30KN	50KN	100KN	200KN	300KN	500KN	1000KN	2000KN
	0.2kg	0.3kg	0.5kg	1kg	2kg	3kg	5kg	10kg	20kg	30kg	50kg	100kg	200kg	300kg	500kg	1Kkg	2Kkg	3Kkg	5Kkg	10Kkg	20Kkg	30Kkg	50Kkg	100Kkg	200Kkg
	0.45Lb	0.65Lb	1.1Lb	2.2Lb	4.5Lb	6.5Lb	11Lb	22Lb	45Lb	65Lb	110Lb	220Lb	450Lb	350Lb	1100Lb	2.2KLb	4.5KLb	6.5KLb	11KLb	22KLb	45KLb	65KLb	110KLb	220KLb	450KLb
Load division value	0.001N			0.01N			0.1N			1N			0.01KN			0.01KN			1KN						
	0.0001Kg			0.001Kg			0.1Kg			0.1Kg			0.001KKg			0.01KKg			0.1KKg						
	0.0001Lb			0.001Lb			0.01Lb			0.1Lb			0.001KLb			0.01KLb			0.1KLb						
Sensor structure	Inside Type											Both	Outside Type												
Accuracy	± 0.5%											± 1%													
Power	7.2V 1.2Vx6 Ni-MH Battery group																								
Charge Time	4~6h																								
Battery Using Time	~10h																								
Battery Life	≥300 times																								
Charger	Input:AC100~240V 50Hz Output: DC 10V 300mA																								

► WDF Digital Force Gauge



Technical Data

Model	Measuring range	Resolution(N)	Resolution(kg)
WDF-10	10N	0.01N	0.001N
WDF-20	20N	0.01N	0.001N
WDF-30	30N	0.01N	0.001N
WDF-50	50N	0.01N	0.001N
WDF-100	100N	0.1N	0.01N
WDF-200	200N	0.1N	0.01N
WDF-300	300N	0.1N	0.01N
WDF-500	500N	0.1N	0.01N

Features

Accuracy: $\pm 1\%$
 Mode: peak mode, real-time mode
 Range: 10N~500N
 Graduation value: 0.01
 Power supply: 3V CR2032 lithium battery

► SF Digital Force Gauge



Features

- Low voltage alarm function
- Operation mode: Peak hold mode (P) / Real-time mode (T)
- Automatic power off in 10 minutes
- With short circuit, leakage, overload protection

Technical Data

Model		SF-2	SF-3	SF-5	SF-10	SF-20	SF-30	SF-50	SF-100	SF-200	SF-300	SF-500
Max Loading Value / Load Division Value	N	2/0.001	3/0.001	5/0.001	10/0.01	20/0.01	30/0.01	50/0.01	100/0.1	200/0.1	300/0.1	500/0.1
	kg	0.2 /0.001	0.3 /0.001	0.5 /0.001	1.0 /0.001	2/0.001	3/0.001	5/0.001	10.01	20.001	30.001	50/0.01
	lb	0.45 /0.001	0.65 /0.001	1.1 /0.001	2.2 /0.001	4.5 /0.001	6.5 /0.001	11/0.001	20/0.01	45/0.01	65/0.01	110/0.01
Accuracy		± 0.5%										
Sensor Structure		Inside										
Storage Temperature		-10°C ~ 60°C										
Operating Temperature		5°C ~ 35°C										
Humidity		15% ~ 80%RH										
Operating Environment		No surrounding source and corrosive medium										
Battery		3.7V lithium battery										
Charger	Input	AC 100 ~ 240V 50/60HZ										
	Output	DC 5V 1000mA										

▶ | AMF Digital Force Gauge



Features

- 3 measuring modes: real-time mode, peak mode, first peak mode
- Backlight and buzzer alarm
- Automatic power off
- Gravity acceleration setting function
- Set upper and lower limits for statistical analysis
- Minimal force shielding function

Model		AMF-2	AMF-3	AMF-5	AMF-10	AMF-20	AMF-30	AMF-50	AMF-100	AMF-200	AMF-300	AMF-500
Max Loading Value / Load Division Value	N	2/0.001	3/0.001	5/0.001	10/0.01	20/0.01	30/0.01	50/0.01	100/0.1	200/0.1	300/0.1	500/0.1
	kg	0.2 /0.001	0.3 /0.001	0.5 /0.001	1/0.001	2/0.001	3/0.001	5/0.001	10/0.01	20/0.01	30/0.01	50/0.01
	lb	0.45 /0.001	0.65 /0.001	1.1 /0.001	2.2 /0.001	4.5 /0.001	6.5 /0.001	11/0.001	22/0.01	45/0.01	65/0.01	110/0.01
Sensor Structure		Inside										
Accuracy		± 1%										
Storage Temperature		-10°C ~ 60°C										
Operating Temperature		5°C ~ 35°C										
Humidity		15% ~ 80%RH										
Operating Environment		No surrounding source and corrosive medium										
L*H*W (mm)		124*60*31										
Weight		About 0.4kg										
Battery		2*7# batteries (1.5V)										
Units		N, kg, lb, Oz										

▶ | ANC Digital Torque Gauge



Features

- Operation mode: Peak hold mode (P) / Real-time mode (T) / Preset mode (Pre)
- Buzzer and LCD display
- Backlight
- Automatic power off in 10 minutes

Technical Data

Model	ANC-30	ANC-135	ANC-200
Minimum Division Value (N.m)	0.01	0.1	0.1
Max Operation Range (N.m)	3-30	13.5-135	20-200
Square Drive (inches)	1/2		
Accuracy	Clockwise: ± 2% Counterclockwise: ± 2.5%		
Battery	2*7# batteries		

▶ AWG Digital Torque Wrench



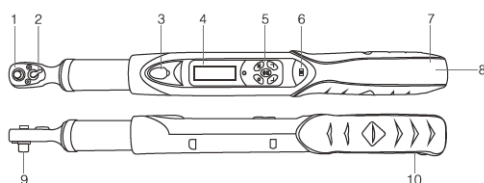
Features

- Digital torsion reading
- Accuracy: ± 2 (range 20 ~ 100%)
- Clockwise and counterclockwise both can be operated
- Peak hold and real-time mode
- Buzzer and LED display (up to preset torque value)
- Four units: (ft-lb; in-lb; N-m; kgf.cm)
- 100 records can be stored
- Communication function
- Automatic shutdown within 5 minutes

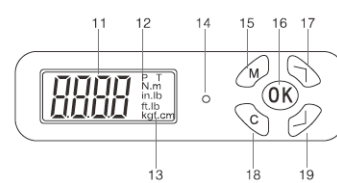
Product Description

Digital torque wrench is different from general torque wrench, it has powerful operation functions, including torque setting, time setting, mode setting, data storage, data clearing, data output and user calibration functions. Simple operation, installation digital display, reduce the requirements for operators. Widely used in automobile industry, mechanical industry and other bolt fastening and control process.

Function and name of each part



- | | | |
|------------------------------|-------------------------------|-------------------------------------|
| 1. double-sided ratchet head | 6. buzzer | 11. torque value |
| 2. direction paddle | 7. battery case | 12. P(peak mode), T(Real-time mode) |
| 3. communication hole | 8. battery cover | 13. Unit(N.m, in.lb, ft.lb, kgf.cm) |
| 4. LCD screen | 9. ratchet torque square head | 14. LED indicator |
| 5. button | 10. Handle | |



- | | |
|-----------------|-------------------|
| 15. menu button | 18. cancel button |
| 16. Ok button | 19. down button |
| 17. up button | |

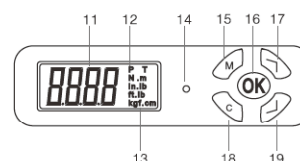
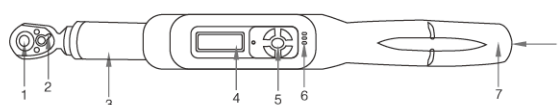
Technical Data

Model	AWG2-010	AWG2-030	AWG3-030	AWG3-060	AWG3-085	AWG3-135	AWG4-135	AWG4-200	AWG4-340	AWG6-500	AWG6-850
Max. Operation Range (N.m)	10N.m/7.3 7ft.lb/88.5 0in.lb/101 .97kgf.cm	30N.m/22 12ft.lb/26 5.5in.lb/30 5.9kgf.c m	30N.m/2 2.12ft.lb /265.5in .lb/305. .91kgf.c m	60N.m/4 4.25ft.lb /531.04i n.lb/611 .82kgf.c m	85N.m /62.69 ft.lb/7 52.31i n.lb/8 66.75k gf.cm	135N.m/ 99.57ft.l b/1195i n.lb/137 6.61kgf. cm	135N.m/9 9.57ft.lb/1 195in.lb/1 376.61kgf. cm	200N.m/ 147.5ft.l b/1770i 3009in.l n.lb/203 9.43kgf. cm	340N.m/ 250ft.lb/ 3009in.l b/3467. 03kgf.c m	500N.m/ 4424in.l b/368.7f t.lb/509 8.58kgf. cm	850N.m/ 7521in.l b/626.8f t.ln/866 7.58kgf. cm
Square Drive (inches)	1/4		3/8				1/2			3/4	
Measured Torque Range (N.m)	0.5~10	1.5~30	1.5~30	2~60	4.25~85	6.75~135	6.75~135	10~200	17~340	25~500	42.5~850
Length	390		420				655				
Accuracy	Clockwise: ± 2% counterclockwise: ± 2.5%									Clockwise: ± 2.5% counterclockwise: ± 3.5%	
Data storage capacity	100										
Operation mode	Peak hold mode (P)/Real-time mode(T)										
Unit	N.m、in.lb、ft.lb、kgf.cm										
Ratchet head type	Double-side ratchet head										
Number of ratchet gear	36									48	
Button	5										
Power	AA battery×2 1.5V (No.5 battery)										
Operation temperature	-10℃-60℃										
Storage temperature	-20℃-70℃										
Humidity	No condensation to 90%										
Drop test height	1 meter										
Vibration test condition	10G										
Life time test	10000 times										



AWJ Digital torque wrench

Product Description



Features

- With clockwise accuracy $\pm 2\%$, counterclockwise accuracy $\pm 2.5\%$ (20 to 100% of maximum operating range)
- Clockwise and counterclockwise both can be operated.
- Peak mode and real-time mode
- Buzzer and LCD display (when the predetermined torque value is reached)
- Four units (ft.lb, in.lb, N.m, kgf.cm)
- 99 records can be stored
- Automatic shutdown within 5 minutes

Technical Data

Storage temperature	-20°C~70°C
Humidity	Without condensation can reach to 90%
Precision	$\pm 2\%$ -clockwise/ $\pm 2.5\%$ -counterclockwise
Drop test height	1 meter
Vibration test conditions*2	10G
Life test*3	10,000 times

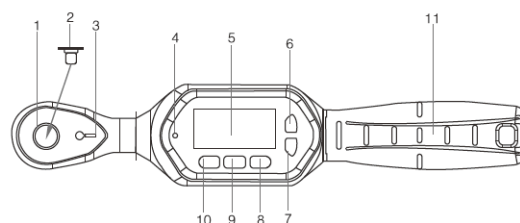
1. Double-sided ratchet head
2. Direction paddle
3. Main body
4. LCD display
5. Button
6. Buzzer
7. Battery case
8. Battery cover
9. Ratchet torque square head
10. Handle
11. Torque value
12. P (peak mode), T (real-time mode)
13. Unit (N.m, in.lb, ft.lb, kgf.cm)
14. LED indicator
15. Menu button
16. Confirm button
17. Upward button
18. Cancel button
19. Downward button

Technical Data

Model	AWJ2- 0010	AWJ2- 0030	AWJ3-0030	AWJ3-0060	AWJ3-0085	AWJ3- 0135	AWJ4- 0135	AWJ4-0200	AWJ4-0340	AWJ6-0500	AWJ6-0850
Resolution	0.01					0.1					
Max. Operation Range (N.m)	10N.m/ 7.37ft.lb /88.50in .lb/101. 97kgf.c m	30N.m/ 22.12ft.l b/265.5i n.lb/305 .91kgf.c m	30N.m/ 22.12ft.l b/265.5i n.lb/305 .91kgf.c m	60N.m/ 44.25ft.l b/531.0 4in.lb/6 11.82kgf .cm	85N.m/ 62.69ft.l b/752.3 1in.lb/8 66.75kgf .cm	135N.m /99.57ft .lb/1195 in.lb/13 76.61kgf .cm	135N.m /99.57ft .lb/1195 in.lb/13 76.61kgf .cm	200N.m /147.5ft .lb/1770 in.lb/20 39.43kgf .cm	340N.m /250ft.l b/3009i n.lb/346 7.03kgf. cm	500N.m /4424in. lb/368.7 ft.lb/50 98.58kgf .cm	850N.m /7521in. lb/626.8 ft.ln/866 7.58kgf .cm
Square Drive (Inches)	1/4		3/8				1/2			3/4	
Size of replaceable head connection	9*12						14*18				
Setting range of buzzer (N.m)	0.5~10	1.5~30	1.5~30	3~60	4.25~85	6.75~135	6.75~135	10~200	17~340	25~500	42.5~850
Length	390		420				535		655	950	1220
Accuracy*1	Clockwise: ± 2% Counterclockwise: ± 2.5%					Clockwise: ± 2.5% Counterclockwise: ± 3.5%					
Storage capacity of materials	100										
Operating mode	Peak hold (P)/real time mode (T)										
Unit	N.m、in.lb、ft.lb、kgf.cm										
Type of ratchet head	Two-way ratchet head										
Teeth number of ratchet head	36									48	
Number of button	5										
Power	2 sets of 1.5V#5 battery										
Operating temperature	-10℃~60℃										

▶ AWM Mini Digital Torque Wrench

Product Description



Features

- It has a large screen and backlight.
- Accuracy is 2% in clockwise direction and 2.5% in counterclockwise direction. (20% to 100% of the full measuring range).
- Clockwise and counterclockwise both can be operated.
- The buzzer and LED indicator light are triggered when the preset torque value is reached. (peak-limited mode).
- Four units: (N.m; kgf.cm; lbf.ft; lbf.in).
- Three measuring modes: real-time mode, peak mode and preset mode.
- 999 records can be stored.
- Automatic shutdown within 5 minutes.

1. Quick separation button
2. Ratchet head (back side)
3. Steering shifting sheet
4. LED indicator lamp
5. LCD screen
6. Upward button
7. Power on/Zero button
8. Confirm button
9. Menu button
10. Downward button
11. Grip

Technical Data

Model (with no communication)	AWM-10	AWM-30	AWM-60	AWM-100
Minimum division value	0.01			0.1
Maximum operating range(N.m)	10N.m/7.37ft.lb/ 88.50in.lb/101.97 kgf.cm	30N.m/22.12ft.lb /265.5in.lb/305.9 1kgf.cm	60N.m/44.25ft.lb /531.04in.lb/611. 82kgf.cm	100N.m/73.7ft.lb /885.0in.lb/1019. 7kgf.cm
Connector(Inches)	1/4		3/8	1/2
Setting range of buzzer(N.m)	0.3~10	0.9~30	1.8~60	3~100
Length(mm)	230		240	285
Accuracy*1	Clockwise: $\pm 2\%$; Counterclockwise: ± 2.5			
Data storage capacity	999			
Operating mode	Peak mode(P)/ Real-time mode(T)/ Preset mode(Pre)			
Unit	N.m, kgf.cm, lbf.ft, lbf.in			
Form of ratchet head	Bidirectional ratchet head			
Number of ratchet teeth	72 teeth			
Number of button	5			
Power	2 sets of AAA battery			
Operating temperature	$-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$			
Storage temperature	$-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$			
Test falling height	one meter			
Vibration test condition*2	10G			
Service life test*3	10000 times			



▶ | AYQ Preset Torque Driver



Product Description

- AYQ idling torque screwdriver has torque requirements for tightening workpiece screws.
- Product clockwise operation, preset torque value.
- Over the set value of the screwdriver idling, priority can be given to the control of hard screw fastening.

Technical Data

Type	LTDK-1.5	LTDK-3	AYQ-0.6	AYQ-1.2	AYQ-3	AYQ-6
Torque range	0.1-1.5(kgf・cm)	0.2-3.0(kgf・cm)	0.1-0.6(N・m)	0.2-1.2(N・m)	0.5-3(N・m)	1-6(N・m)
Tivision value(N・m)	0.01(kgf・cm)	0.02(kgf・cm)	0.01(N・m)	0.02(N・m)	0.05(N・m)	0.1(N・m)
Precision	99mm		161mm		186mm	
Full size(mm)	Ø17mm		Ø26mm		Ø31mm	
Handle diameter(mm)	About 0.1kg		About 0.3kg		About 0.4kg	
Net weight	± 5%					
Connection size	— — — —		6.35mm			

▶ | Torque Screwdriver



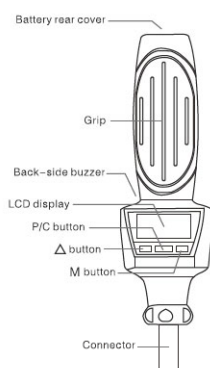
Technical Data

Model	ZSQ-0.6	ZSQ-1.2	ZSQ-3	ZSQ-6
Range	0.1~0.6(N.m)	0.2~1.2(N.m)	0.5~3(N.m)	1~6(N.m)
Indexes	N.m 0.01	N.m 0.02	N.m 0.05	N.m 0.1
Precision	± 6%			
Dimension	156mm			
Handle outer diameter	Ø39mm			
	Ø31mm			
Joint size	6.35 Hexagon			
Net weight	kg 0.275			

Features

- Idling torque screwdriver with torque requirements for tightening the screw fastening the workpiece.
- Clockwise operation of the product,value can be pre-set torque.
- Exceeds the set value screwdriver idling,priority control efforts can be threaded fastening.

▶ Digital Torque Screw Driver



Features

- Directly read the torque value.
- Automatic shutdown within 10 minutes.
- Clockwise and counterclockwise both can be operated.
- Three measuring modes: real-time mode, peak mode and preset mode.
- Four units: (N.m; lbf.ft; lbf.in; and kgf.cm).
- It has the function of data storage in peak mode.

Specification

Preset torque value	The early warning range is 85% of the preset torque value.
Power supply	Two AAA batteries.
Operating temperature	0~40℃
Humidity	≤85%
Storage temperature	-10~60℃

Technical Data

Model	Measuring range (N.m)	Division value (N.m)	Accuracy	Hexagonal nominal size		Net weight (kg)
				(inch)	mm	
ANS-R-0.5	0.05-0.5	0.0001	± 2%	1/4	6.35	0.4
ANS-R-2	0.2-2	0.001		1/4	6.35	
ANS-R-4	0.4-4	0.001		1/4	6.35	
ANS-R-8	0.8-8	0.001		1/4	6.35	

▶ ATG,ATN Tension Gauge



ATN series



ATG series

Product Description

Tension meter relay connections to apply pressure, electronic switches, micro-switches, valves, spring widening pressure, dial spindle pressure measurement equipment, automatic telephone equipment connections and pressure mechanical pressure armature, tape recorders buffer pressure point of contact pressure and other precision pressure, tension tests. Tight force instrument. Widely used in electrical manufacturing, mechanical manufacturing, automotive light industry and in scientific research and resting industry.



Technical Data

Type	Units:N						Units:G					
	ATN-0.3	ATN-0.5	ATN-1	ATN-1.5	ATN-3	ATN-5	ATG-30	ATG-50	ATG-100	ATG-150	ATG-300	ATG-500
Max.measured value	0.3N	0.5N	1N	1.5N	3N	5N	30g	50g	100g	150g	300g	500g
Division value	0.01N	0.02N	0.05N	0.05N	0.1N	0.2N	1g	2g	5g	5g	10g	20g
Measuring range	0.06-0.3-0.06N	0.1-0.5-0.1N	0.2-1-0.2N	0.3-1.5-0.3N	0.6-3-0.6N	1-5-1N	6-30-6g	10-50-10g	20-100-20g	30-150-30g	60-300-60g	100-500-100g
G.W.(kg)	0.25kg											

▶ AZZS Tension Gauge



Technical Data

Model	AZZS -0.5	AZZS -1	AZZS -1.5	AZZS -2	AZZS -2.5	AZZS -3	AZZS -5
Division Value (N)	0.001						
Accuracy (N)	± 1%						
Storage Temperature	-20°C ~ 70°C						
Operating Temperature	0°C ~ 40°C						
Units	N, kg, lb, Oz, g						

Features

- Portable size
- Data hold in peak mode
- Set the automatic shutdown time
- Automatic power off in low voltage
- Super-long standby

▶ Tension Gauge

Product Description

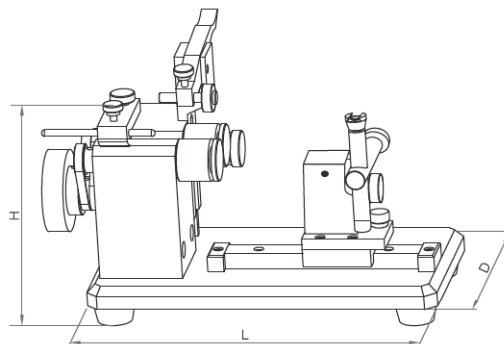
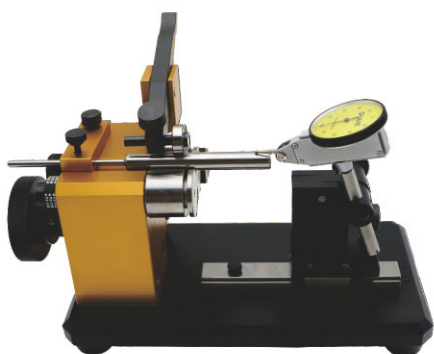
Tension meter relay connections to apply pressure, electronic switches, micro-switches, valves, spring widening pressure, dial spindle pressure measurement equipment, automatic telephone equipment connections and pressure mechanical pressure armature, tape recorders buffer pressure point of contact pressure and other precision pressure, tension tests. tighten force instrument. widely used in electrical manufacturing, mechanical manufacturing.



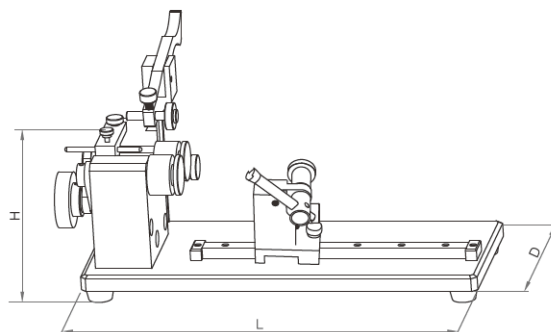
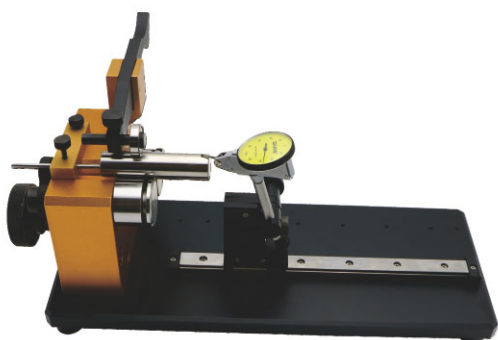
Technical Data

Model	ATL-1	ATL-2	ATL-3	ATL-5	ATL-10	ATL-20
Max. Load	1N	2N	3N	5N	10N	20N
	0.1Kg	0.2Kg	0.3Kg	0.5Kg	1Kg	2Kg
	0.21Lb	0.41Lb	0.62Lb	1.03Lb	2.07Lb	4.14Lb
	3.6Oz	7.2Oz	10.8Oz	18Oz	36Oz	72Oz
	100g	200g	300g	500g	1000g	2000g
Load Division Value	0.001N				0.01N	
	0.0001kg				0.001kg	
	0.0001Lb				0.001Lb	
	0.001Oz				0.01Oz	
	0.1g				1kg	
Precision	± 0.5%					
Power	AAA battery*4					
Battery life	≥ 100 hours					
Dimension	128mm*66mm*28mm					
Net weight	About 145g					

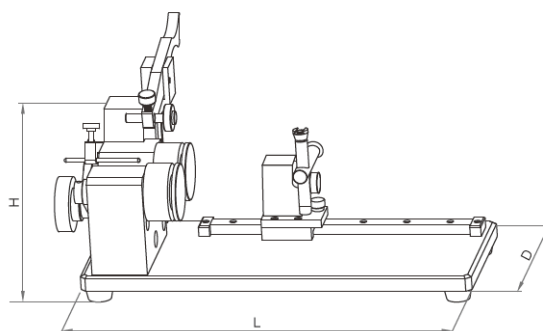
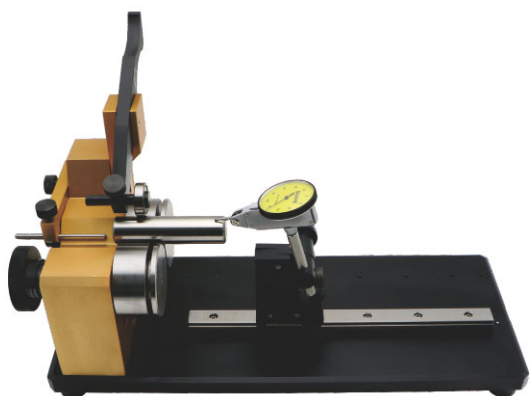
► | Concentricity Gauge



(WA-10 WA-10G)



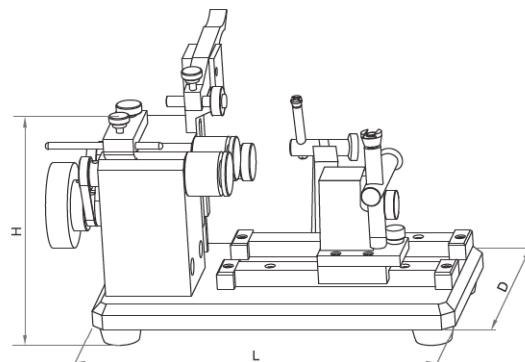
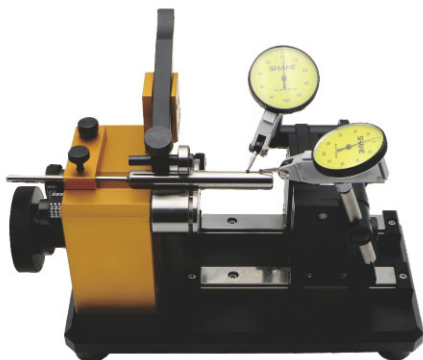
(WA-20 WA-20G)



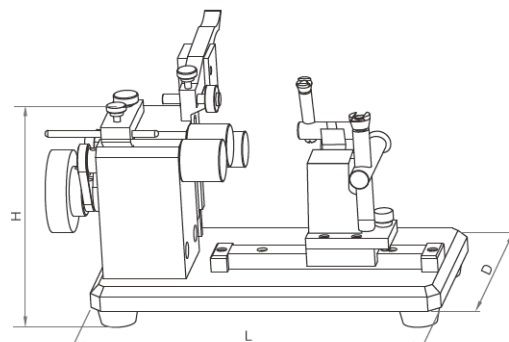
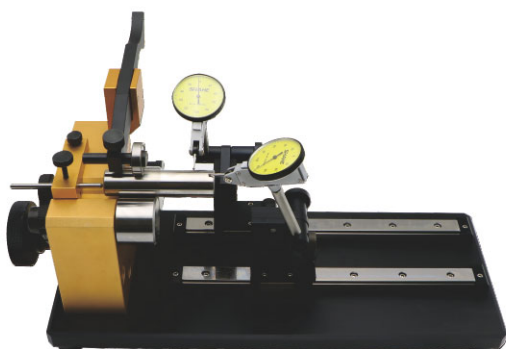
(WA-40 WA-40G)



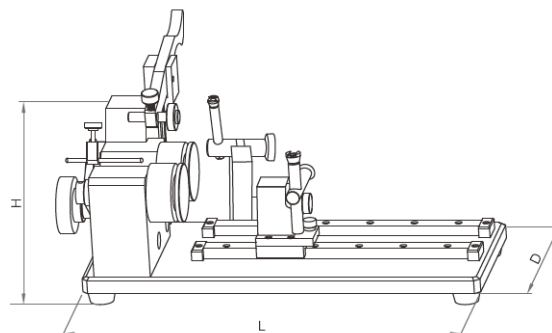
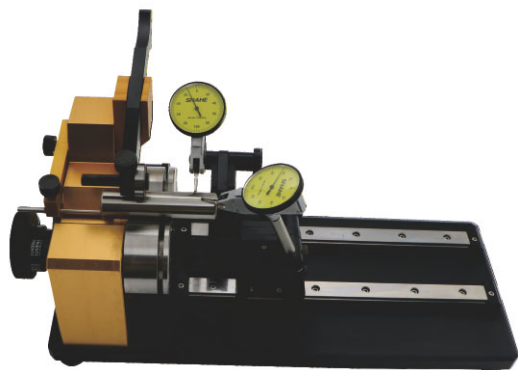
► | Concentricity Gauge



(WK-10 WK-10G)



(WK-20 WK-20G)



(WK-40 WK-40G)



