

Measuring Tool

Tape Measure 123 Feeler Gauge 123-124 Level 124 Ruler/Angle Ruler 124-125 125-126 Vernier Caliper Micrometer 126-127 Dial indicator 127 127 Laser Distance Meter



Tape Measure

No.	Ruler Length (m)	Tape Width L (mm)	1	8	0
91311A	2	13	12	120	8.6
91312A	3	16	12	120	13.6
91314A	5	19	12	120	23.3
91315A	5	25	12	120	30.5
91316A	7.5	25	6	60	22.3
91317A	10	25	6	60	28.6

Excluded from lifetime warranty terms.



- TPE cover, not easy to damage when dropped
 Ruler tape double-sided printing
- Strong springs for longer life

No.	Ruler Length (m)	Tape Width L (mm)	1	8	10
91333A	3.5	16	12	82	-
91334A	5	19	12		2
91335A	5.5	25	6	-	-
91336A	7.5	25	6	0.0	

▲ Excluded from lifetime warranty terms.



Steel Tape Measure

91351B 15 91353B 30

Return quickly
 ABS/TPR Cover, soft and shatter-proof

· Metal t	allhook for easy handl	ing			
No.	Ruler Length (m)	Tape Width L (mm)	图	8	1

Excluded from lifetime warranty terms.



Grade-1 Precision Tape

- High precision up to JIS1
- Durable matte paint for easy reading in bright light
 Double-sided printing for easy reading on both sides
 Double-sided crochet hook with automatic resetting to ensure that
- both internal and external measurements starting from zero
- · Climbing hook provided for easy carrying

No.	Ruler Length (m)	Tape Width L (mm)	4	8	(O)
91311B	2	13	12		
91312B	3	16	12	5	4
913148	5	19	12	-	
913158	5	25	12	-	-
91316B	7.5	25	6		4
91317B	10	25	6	8	-
91322B	5M/16Ft.	19	12	-	-

A Excluded from lifetime warranty terms



- TPE cover, not easy to damage when dropped
 Ruler tape double-sided printing
- Strong springs for longer life

No.	Ruler Length (m)	Tape Width L (mm)	1	B	M
91341A	3.5	16	12	100	70
91342A	5	19	12	-	23
91343A	5.5	25	6	-	-
91344A	7.5	25	6		

Excluded from lifetime warranty terms.



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Fiberglass Tape Measure

- Measuring range 0-20 meters
 ABS high-strength engineering plastics: strong and durable, good impact resistance Back hand-held design: easy to carry
 Fiberglass ruler tape: rustproof and insulted

No.	Ruler Length (m)	Tape Width L (mm)	4	罗	10
91361B	20	13	20	÷	12
91362B	30	13	20	8	100
91363B	50	13	20	8	

Excluded from lifetime warranty terms.



Self Locking Tape Measure

- Compact design, lightweight and portable
 Self locking of the tape for efficient measurement
- Strong spring, longer life

No.	Ruler Length (m)	Tape Width L (mm)	1	8	70
91348	3	16	100	*	*
91349	5	19	12	12	2.0
91350	5	25	::	*	-
91354	7.5	25			

Excluded from lifetime warranty terms.

Nylon coating and wear-proof



· Made of Mn steel, with polished surface

Specification

- Feeler Gauge: 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.40mm, 0.50mm, 0.60mm, 0.70mm, 0.80mm, 0.90mm, 1.00mm
- · Ruler: 2

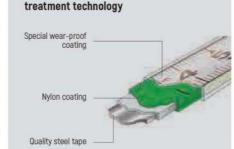
No.	母	¥	靣
09401		24	1.8



*Nylon-coated steel ruler tape can be used in inclement weather or environment and can be scrubbed repeatedly



*Nylon-covered steel ruler tape can be washed



SATA tapes are nylon-coated



09402 16Pc. Feeler Gauge Set 0.05-1.00mm

· Made of Mn steel, with polished surface

Specification

 Feeler Gauge: 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.35mm, 0.40mm, 0.50mm, 0.55mm, 0.60mm, 0.70mm, 0.75mm, 0.80mm, 0.90mm, 1.00mm

No.	4	쓩	
09402	1.50	12	1.3

Excluded from lifetime warranty terms.































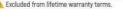


· Made of Mn steel, with polished surface

Specification

 Feeler Gauge: 0.02mm, 0.03mm, 0.04mm, 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.35mm, 0.40mm, 0.45mm, 0.50mm, 0.55mm, 0.60mm, 0.65mm, 0.70mm, 0.75mm, 0.80mm, 0.85mm, 0.90mm, 0.95mm, 1.00mm

No.	4	상	7
09405	<u>=</u>	36	3.7





32Pc. Feeler Gauge Set 0.02-1.00mm, Metric & SAE

Made of 65Mn steel, with polished surface

Specification

 Feeler Gauge: 0.02mm, 0.03mm, 0.04mm, 0.05mm, 0.06mm, 0.07mm, 0.08mm, 0.09mm, 0.10mm, 0.13mm, 0.15mm, 0.18mm, 0.20mm, 0.23mm, 0.25mm, 0.28mm, 0.30mm, 0.33mm, 0.38mm, 0.40mm, 0.45mm, 0.50mm, 0.55mm, 0.60mm, 0.63mm, 0.65mm, 0.70mm, 0.75mm, 0.80mm, 0.85mm, 0.90mm, 1.00mm

No.	#	8	ത
09407		24	3.1

Excluded from lifetime warranty terms.

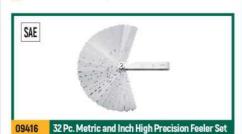


- Body made of Mn steel with surface polished
- · Ruler 4" long

Specification

- 0.02(0.03,0.04,0.05,0.10,0.15,0.20,0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.6 5, 0.70,0.75,0.80,0.85,0.90,0.95,1.00MM

No.	4	8	700
09415	-		



- Body made of Mn steel with surface polished
 Ruler 3.5" long
- Metric-inch system

0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00MM

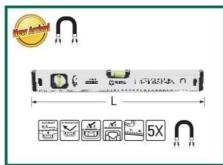
No.	-	8	6
09416	-	*	



- High precision within error 0.5mm/m
- Bubble tube being anti-UV and impact resistance, not easy to break
- · Highly elastic material of end cap, and the drop performance is good

No.	L(mm)	#	T	0
91601A	300	6		9
91602A	450	6	Ü	2
91603A	600	6		1
91604A	750	6		12
91605A	900	6	=	54
91606A	1200	6	20	82

Excluded from lifetime warranty terms



Magnetic Level

- With Magnet, easy to operate.
 High precision within error 0.5mm/m.
- Bubble tube being anti-UV and impact resistance, not easy to break
 Highly elastic material of end cap, and the drop performance is good

No.	L(mm)	#	T	0
91611A	300	6	30	14
91612A	450	6	30	27
91613A	600	6	30	Ş
91614A	750	6	30	9
91615A	900	6	30	12
91616A	1200	6	30	1

A Excluded from lifetime warranty terms.



Magnetic Level

- With magnetic, easy to operate
 The error is within IMM/M, and the measurement is accurat
- Level bubble anti-UV function, anti-UV
 The horizontal foam is shock resistant and not easy to break
- End cover high elastic material, good drop resistance
 Level body with scale, can assist measurement

	L(mm)	127	T	100
4"	100		*	134
8"	200	((%)		12
		8° 200	8" 200 -	8" 200

Excluded from lifetime warranty terms.



- With magnetic, easy to operate
- The error is within 0.5MM/M, and the measurement is accurat
 Level bubble anti-UV function, anti-UV
- The horizontal foam is shock resistant and not easy to break
 Thickened profile, soft plastic end cap, good drop resistance
- · Level body with scale, can assist measurement

No.	Spec.	L(mm)	母	图	M
91643	10"	250	+	(87)	~
91644	16"	400	\$	(2)	528
91645	24"	600	*	*	
91646	32"	800		(2)	10
91647	40*	1000	2	2	140
91648	72"	1800		(*)	

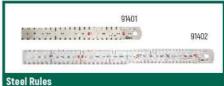
Excluded from lifetime warranty terms.



- 0.5MM/M high accuracy class
- Aperture design for commonly drilling
 Both ends can be knocked and leveled
- · Aluminum die-casting with a heavy feel
- · Grooved lines, enhanced appearance, and easy grip

No.	L(mm)	4	4	(O)
91623	600		100	
91624	800	=	-	-
Sept. 200	800		- 5	

Excluded from lifetime warranty terms.



- Made of stainless steel
- Clear calibration and wear-resistance

No.	Spec.(mm)	母	留	100
91401	150	12	144	4
91402	300	12	108	7.8
91403	500	10	90	12
91404	1000	10	40	12.3

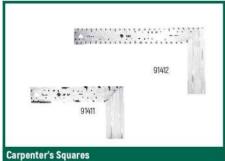
A Excluded from lifetime warranty terms



- Horizontal and vertical leveling
- Sliding markers, Sliding knife guide
 Center measurement

- Aluminum alloy and triangular structure ruler body,
 Lightweight and stable, with commonly used paper size markings at the bottom
- Double sided scale
- · Easy nailing

No.	Spec.(mm)		B	10
91405	600	-	2	10.
A Exclus	led from lifetime warranty terms			



- Clear calibration and wear-resistance

No.	Spec.(mm)	9	田	0
91411	200	10	40	7.1
91412	300	10	40	10.1

★ Excluded from lifetime warranty terms.



Vernier Caliper 0-150mm

- Measurement range: 0-150mm
 Made of stainless steel, ensuring high measurement accuracy
- For measurement of inner hole, outer circle and depth

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	8	O
91501	0-150	0.02	+/-0.02	6	36	12.2



Digital Caliper 0-150mm 91511

- · Measurement range: 0-150mm and accurate reading Made of
- stainless steel, ensuring high measurement accuracy Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	¥	1
91511	0-150	0.01	+/-0.03	6	36	13.9

Excluded from lifetime warranty terms.



- · Triangle for support
- Multi angle annotation
 1.5MM ruler body with high-strength material to ensure measurement accuracy

 Three sided precision milling aluminum die-casting with high
- flatness and comfortable grip

 Laser scale with clear handwriting on ruler body

No.	Spec.(mm)	# 8	8 6
91415	400		

Excluded from lifetime warranty terms.



Vernier Caliper 0-200mm

- Measurement range: 0-200mm
 Made of stainless steel, ensuring high measurement accuracy
- · For measurement of inner hole, outer circle and depth

No.	Measuring Range (mm)	(mm)	Accuracy (mm)		(4)	<u>/⊕/</u>
91502	0-200	0.02	+/-0.02	6	36	17



91512 Digital Caliper 0-200mm

- · Measurement range: 0-200mm and accurate reading Made of stainless steel, ensuring high measurement accuracy • Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	T	10
91512	0-200	0.01	+/-0.03	6	36	18

Excluded from lifetime warranty terms.



Vernier Height Gauge

- · The ruler frame has high fitting accuracy and smooth pulling
- The base can be replaced, enhancing the service life
- . The base material is solid and the measurement is more stable

No.	Range (mm)	Resolution (mm)	Accuracy (mm)	9	4	<u> </u>
91542	0-200	0.02	± 0.03	1	4	- 1
91543	0-300	0.02	±0.04	1	4	-
91544	0-500	0.02	±0.04	1	2	

Excluded from lifetime warranty terms.



• Measurement range: 0-300mm

Made of stainless steel, ensuring high measurement accuracy

· For measurement of inner hole, outer circle and depth

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	T	ō
91503	0-300	0.02	+/-0.03	4	24	22.9

Excluded from lifetime warranty terms.



Digital Caliper 0-300mm

- · Measurement range: 0-300mm and accurate reading Made of stainless steel, ensuring high measurement accuracy
- · Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	T	O
91513	0-300	0.02	+/-0.03	4	24	19.8

Excluded from lifetime warranty terms

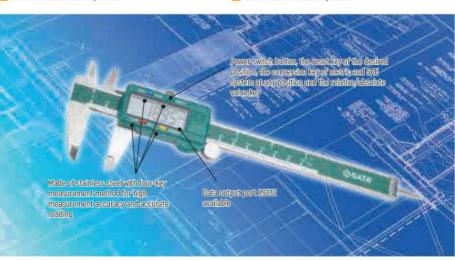


Digital Height Gauge

- The ruler frame has high fitting accuracy and smooth pulling
- The base can be replaced, enhancing the service life.
 The base material is solid and the measurement is more stable

No.	Range (mm)	Resolution (mm)	Accuracy (mm)	#	T	M
91545	0-200	0.01	± 0.03	1	4	33
91546	0-300	0.01	±0.04	1	4	
91547	0-500	0.01	±0.04	1	2	

Excluded from lifetime warranty terms.





































Dial Caliper 0-150mm

- Measurement range: 0-150mm
- Made of stainless steel, easy to read
 Indicator core upgraded to two-way shockproof performance
- With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	8	M
91521	0-150	0.02	+/-0.03	6	36	13.8



91523 Dial Caplier 0-300mm

- Measurement range: 0-300mm
- Made of stainless steel, easy to read
 Indicator core upgraded to two-way shockproof performance
- With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	4	8	O
91523	0-200	0.02	+/-0.03	4	24	23



· With micrometer screw locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	#	¥	M
91531	0-25	0.01	+/-0.004	6	36	12.3

Excluded from lifetime warranty terms.



91522 Dial Caplier 0-200mm

- · Measurement range: 0-200mm
- Made of stainless steel, easy to read
 Indicator core upgraded to two-way shockproof performance
- · With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	9	T	ō
91522	0-200	0.02	+/-0.03	6	36	19.4

Measurement Applications

Outer diameter measurement

Inner diameter measurement

Difference measurement

Excluded from lifetime warranty terms



- · Measuring base is polished twice to fit close to the measuring object

 Large digital display for quick reading

No.	Measuring Range (mm)	0	8	0
91551	0-150	6	36	7
91552	0-200	6	36	8
91553	0-300	6	24	10



- Measurement range: 25-50mm
- Hard alloy measuring surface, ensuring high wear resistance
- · With micrometer screw locking device

nm)	
/-0.004 6 36 1i	ô
	- 7

Excluded from lifetime warranty terms.





















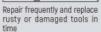
Common Sense for using SATA tools Use tools correctly













When using with electric and pneumatic tools, please select special electric and pneumatic hand tools



Wear protective equipment if required by work environment



Make sure the cabinet is locked and pulley active before moving the toolbox



- Measurement range: 50-75mm
- Hard alloy measuring surface, ensuring high wear resistance
- · With micrometer screw locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	1	T	O
91533	50-75	0.01	+/-0.005	6	36	23.3

Excluded from lifetime warranty terms.



91539	Micrometer Ba	se	
No.	#	8	ā
91539		10	4



IP65 Digital Micrometer

No.	Measuring Range (mm)	Indexing (mm)	Accuracy (mm)	S	T	M
91534	0-25	0.001	0.002	6	36	7
91535	25-50	0.001	0.002	6	36	7

Excluded from lifetime warranty terms.



Mechanical dial gauge

- · Hat lift design
- · Indication of value range, easy to read

No.	Measuring Range (mm)	Indexing (mm)	母	贸	(a)
91561	0-5	0.01	- 51	-	-
91562	0-10	0.01			*

A Excluded from lifetime warranty terms.



IP54 Digital display dial indicator

- · Dust cap design with minimal environmental impact
- IP54 waterproof and dustproof design
- Zero at any position
- Metric to English conversion
- · With data output interface

No.	Measuring Range (mm)	Indexing (mm)	9	T	0
91563	0-12.7	0.01	8	*	-
91564	0-25.4	0.01			*

Excluded from lifetime warranty terms.



Lever dial indicator

- · Gem bearing, high sensitivity, long service life
- Built in rubber pad for good shock resistance
 Hard alloy probe, more durable
- · Anti magnetic pointer, measurement not affected by magnetic field

No.	Measuring Range (mm)	Indexing (mm)	1	8	(M)
91565	0-0.8	0.01	7.5	-	1.50

Excluded from lifetime warranty terms.



MMagnetic base

- Universal magnetic base
 Universal shaft design for flexible rotation
- · With fine tuning function
- The special structure of the locking nut prevents rotation when adjusting the upper/lower arms

- Mechanical magnetic base
 Be able to lock the upper/lower arms separately
- . The lower arm is fixed on the side of the base for greater stability

No.	Product Name	Measuring Range (KGF)	Clamping aperture (mm)	8	B	靣
91566	Universal magnetic base	60	8	32		9
91567	Universal magnetic base	80	8	:*	*	*
91568	Mechanical magnetic base	60	8	8	*	2
91569	Mechanical magnetic base	80	8	æ	87.	5

Excluded from lifetime warranty terms



Laser Distance Meter 30M 62709

Maximum measuring range Measurement accuracy Measurement Unit Laser level Laser type

Single measurement Key Operating temperature Storage temperature Battery life

Battery selection Automatic laser shutdown Automatic instrument shutdown

0.2~30m +/-3 mm m/ft+in Class 2 630-670nm, < 1mW

Soft rubber key 0°C ~40°C -10°C ~60°C Up to 5000 measurements AAA 2 x 1.5V

After 3 minutes

- · Use sighting board or a better reflecting surface if under sunlight or target is not reflecting well
- 2 Accuracy:
- In good measuring conditions (good measuring surface, room temperature, indoor lighting, etc.), the rated range can be reached. In poor measurement conditions, such as too strong light, weak reflection on the surface of the measured object or too large temperature difference, the error will increase
- Typical accuracy +/-3mm
- · Small size for easy carrying
- Single key for easy operation
 HD backlight display for clear data display
- Rugged case for durability
 2 * AAA 15V batteries
- · Automatic shutdown for saving power

No.	Spec.	· ·	T	100
62709	30	8	20	13



SATA

12

62712



Laser Distance Meter

Range 1

Accuracy 2 Single measurement Continuous measurement Area measurement Volume measurement Simple Pythagorean Quadratic Pythagorean Quadratic Pythagorean@ Automatic level Automatic verticality Addition and Subtraction Angular Transducer Angle measurement accuracy 3 Measuring Basis Measurement Unit Auto shutdown

Screen Type History measurement record Laser level Laser type Operating temperature

 $(0.3^{\circ} + 0.1^{\circ} + 0.01 \times D)$ Front/rear benchmark m /ft/ in /ft+in Automatic shutdown after no operation for 3 minutes 20-inch screen

20 sets Class 2 630-670nm, <1mw 0~+40 (32F~+104F) 115 × 49 × 26mm

1 Range

- The range data is referenced against the default rear benchmark; the maximum range will be changed according to different models. For the actual range, see the outer packing of the machine. 2 Accuracy (refers to the measured distance):
- In good measuring conditions (good measuring surface, room temperature, indoor lighting, etc.), the rated range can be reached. In poor measurement conditions, such as too strong light, weak reflection on the surface of the measured object or too large temperature difference, the error will increase 3 Angle measurement accuracy
- 01° is the error caused by temperature, D is +/-45, for example: 0 ° error is +/-0.3° at normal temperature, and 45 ° error is +/-0.85° at abnormal temperature
- · Tip: Use sighting board or a better reflecting surface if under sunlight or target is not reflecting well
- Typical accuracy +/-2mm
 Angle measurement function
- High-definition backlight display capable of displaying 5 lines of data at the same time, with data comparison at a glance
- Capable of storing 20 sets of history data
 Capable of single measurement, continuous measurement, maximum/minimum measurement, area and volume measurement, hook, automatic leveling, automatic verticality, as well as Pythagorean, addition and subtraction operation Prompt with beeper

- Charging with Micro USB
 Automatic shutdown for saving power

No.	Spec.	88	10
62712	60	- 20	5.3
62713	100	- 20	5.3

0.2~60mm (62712) 0.2~100mm [62713] (2.0mm+5x10-5D)











