



- ◆ The instrument is suitable for One-Dimensional as well as Two-Dimensional measurements
- ◆ Programming, for batch quantities measurements
- ◆ Color LCD screen
- ◆ The probe moves up and down automatically
- ◆ Low and high limits with judgement
- ◆ Built-in air compressor provides smooth movement on granite surface plate.
- ◆ With re-chargeable battery, for 10 hours working
- ◆ With manufacturer inspection certificate

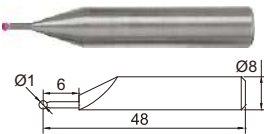


AccuGage700

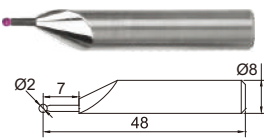
### Optional Accessories

unit: mm

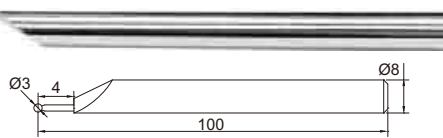
Ø1mm concentric ruby ball probe(code:R1HC)



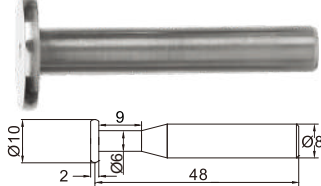
Ø2mm eccentric ruby ball probe(code:R2H)



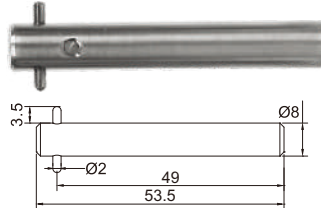
Ø3mm eccentric ruby ball probe(code:R3H100)



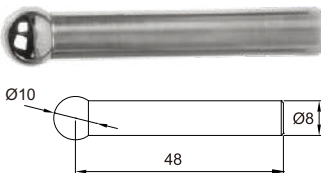
Ø10mm disc probe (code:DS10H)



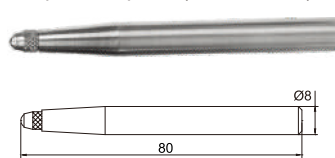
Ø2mm depth probe(code:DP2H)



Ø10 carbide ball probe(code:SR10H)



Depth hole probe(code:DP80H)















Ø4mm carbide ball probe

Squareness probe  
(Optional, Code:SQ10)









### Basic Measurement

-  1 Contacting a plane from above
-  2 Contacting a shaft from above/bore below
-  3 Measuring a shaft diameter and center
-  4 Measuring groove width and center
-  5 Measuring MIN-MAX-DELTA
-  6 Measuring job squareness
-  7 Contacting a plane from below
-  8 Contacting a shaft from below/ bore above
-  9 Measuring bore diameter and center
-  0 Measuring ledge width and center
-  +/- Difference key
-  +/- Set references



### 2D Measurement

-  ♦ Measure pitch circle diameter(PCD)
-  ♦ Measure distance between two points
-  ♦ Measure angles
-  ♦ Preset coordinates

Programming and replay, for batch quantities measurements



### Calculation

-  Calculate height difference
-  Calculate height center

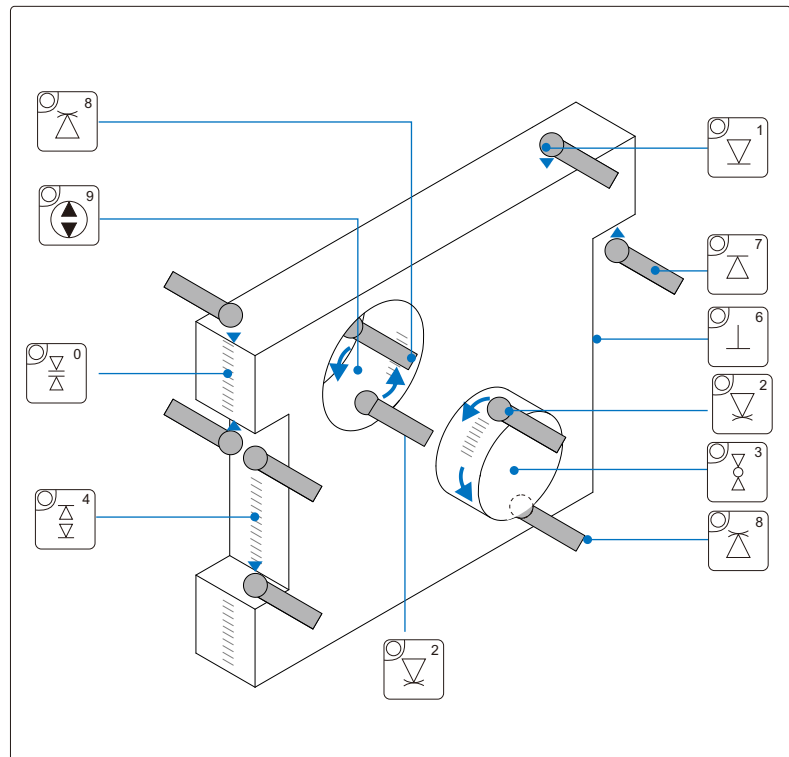
### SPECIFICATION

Code	AccuGage700	AccuGage1000
Range	0-700mm	0-1000mm
Expandable range	1015mm	1315mm
Squareness	6μm	10μm
Resolutions	0.5μm, 1μm	
Accuracy	2+L/330μm, L is measuring length in mm (working temperature is 20±1°C)	
Repeatability (with standard probe)	0.001 mm on plane and 0.002 mm on bore	
Measuring force	1±0.2N	
Output	USB or RS232	
Power supply	Rechargeable battery	
Working temperature	10°C - 40°C	
Weight	25kg	

### INCLUDED ACCESSORIES

Main unit	1pc
Ø4x48mm ruby ball probe	1pc
Calibration block	1pc
Software and USB cable	1pc each
Allen key	1set
AC/DC Adapter	1pc

### Application Demo





- ◆ The instrument is only suitable for One-Dimensional measurement
- ◆ The probe moves up and down automatically
- ◆ Low and high limits with judgement
- ◆ Built-in air compressor provides smooth movement on granite surface plate.
- ◆ With re-chargeable battery, for 10 hours working
- ◆ With manufacturer inspection certificate

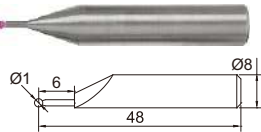


**AccuHite700**

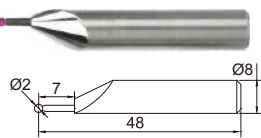
### Optional Accessories

unit: mm

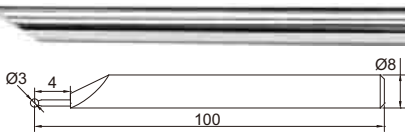
Ø1mm concentric ruby ball probe(code:**R1HC**)



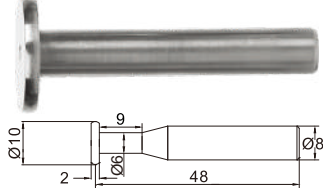
Ø2mm eccentric ruby ball probe(code:**R2H**)



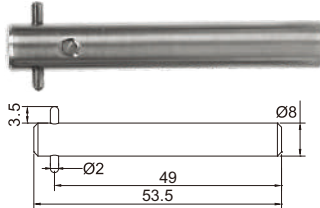
Ø3mm eccentric ruby ball probe(code:**R3H100**)



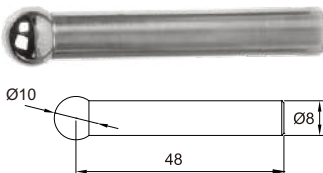
Ø10mm disc probe (code:**DS10H**)



Ø2mm depth probe(code:**DP2H**)



Ø10 carbide ball probe(code:**SR10H**)



Ø4mm carbide ball probe













Depth hole probe(code:**DP80H**)



Squareness probe  
(Optional, Code:**SQ10**)



Basic Measurement

-  1 Contacting a plane from above
-  2 Contacting a shaft from above/bore below
-  3 Measuring a shaft diameter and center
-  4 Measuring groove width and center
-  5 Contacting a plane from below
-  6 Contacting a shaft from below/bore above
-  7 Measuring bore diameter and center
-  8 Measuring ledge width and center
-  9 Measuring MIN-MAX-DELTA
-  0 Difference key
-  4 Measuring job squareness
-  ++ Set references

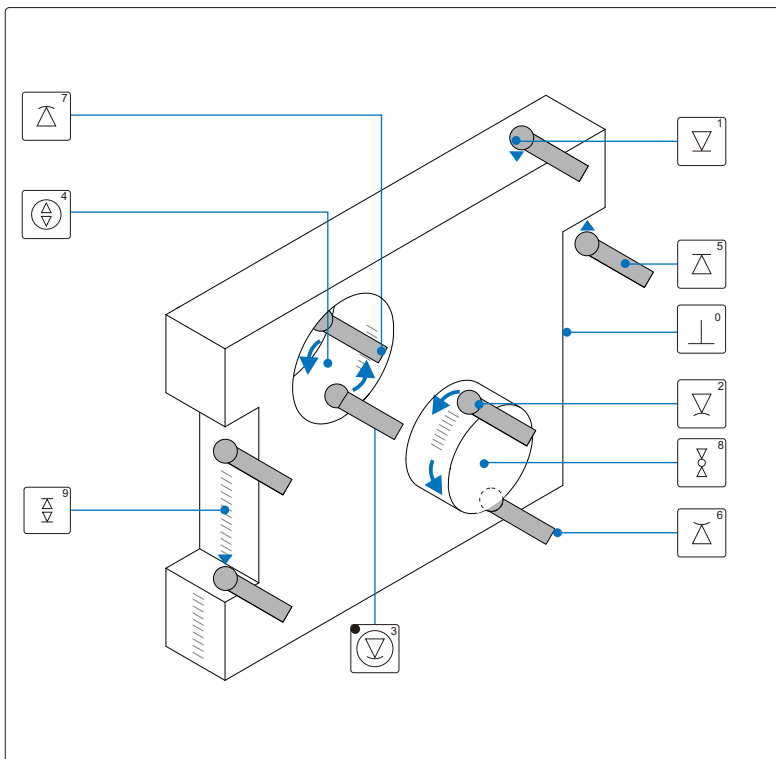
SPECIFICATION

Code	AccuHite700	AccuHite1000
Range	0-700mm	0-1000mm
Expandable range	1015mm	1315mm
Squareness	10µm	12µm
Resolutions	0.5µm, 1µm, 10µm	
Accuracy	3+L/250µm, L is measuring length in mm (working temperature is 20±1°C)	
Repeatability (with standard probe)	0.0015 mm on plane and 0.003 mm on bore	
Measuring force	1±0.2N	
Output	USB or RS232	
Power supply	Rechargeable battery	
Working temperature	10°C - 40°C	
Weight	21kg	

INCLUDED ACCESSORIES

Main unit	1pc
Ø4x48mm carbide ball probe	1pc
Calibration block	1pc
Software and USB cable	1pc each
Allen key	1set
AC/DC Adapter	1pc

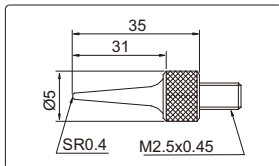
Demo Application



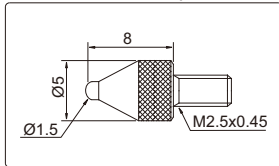


- ◆ Working table is made of ceramic
- ◆ Response speed: max.5000mm/sec
- ◆ Easy convert between metric and inch 8 bits
- ◆ Highlight green LED
- ◆ Power off automatically
- ◆ Data output (USB port)
- ◆ Optional accessories series 270

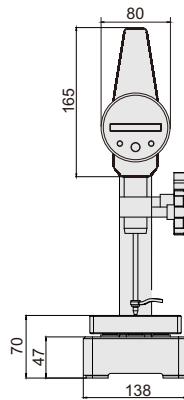
Needle contact point



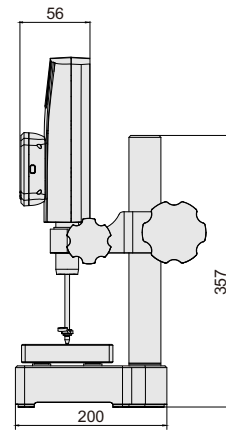
Ball contact point



HG100E



unit:mm



### SPECIFICATION

Code	HG50E	HG100E	HG50S	HG100S
Measuring range	0-50mm	0-100mm	0-50mm	0-100mm
Accuracy	2µm*	3µm*	3µm*	4µm*
Resolution	0.5µm/1µm(adjustable)		1µm	
Repeatability	0.5µm	1µm	1µm	2µm
Tip force	≤1.2N	≤1.6N	≤1.2N	≤1.6N
Dimension of working table	130x130mm			
Flatness of working table	1.5µm			
Power supply	5V/1A adapter			
Working temperature	0°C - 40°C			
Weight	11.6kg			

\*Working temperature is 20±1°C

### INCLUDED ACCESSORIES

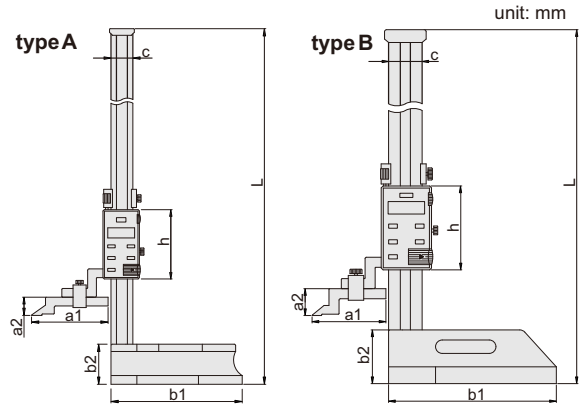
Main unit	1pc
Stand with ceramic table	1pc
Needle contact point	1pc
Ball contact point	1pc
AD/DC adapter	1pc
Spindle lift knob	2pcs

**SERIES 181**

**DIGITAL HEIGHT GAGE**



- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, inch/mm, ABS/INC, data hold, tolerance measurement, data preset, set data
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Data output (cable code: 100-03L or 100-04L)
- ◆ With clamps (Ø8mm holder)



Clamp (included)

Carbide tipped jaws



181-024-11

Application with clamps (optional)



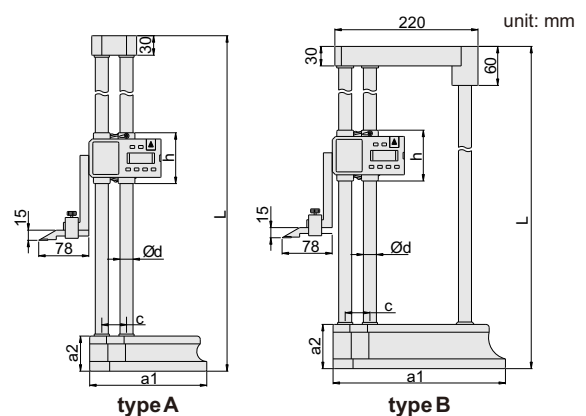
Code	Range	Type	Accuracy	a1	a2	b1	b2	c	h	L
181-012-11	0-300mm/0-12"	A	±0.04mm	76	25	135	45	23	80	470
181-020-11	0-500mm/0-20"	A	±0.05mm	103	25	180	55	30	95	720
181-024-11	0-600mm/0-24"	A	±0.05mm	103	25	180	55	30	95	820
181-040-11	0-1000mm/0-40"	B	±0.07mm	110	39	250	80	50	125	1275
181-060-11	0-1500mm/0-60"	B	±0.11mm	110	39	280	80	50	125	1790
181-080-11	0-2000mm/0-80"	B	±0.15mm	110	39	280	80	50	125	2290

**SERIES 182**

**DIGITAL HEIGHT GAGE**



- ◆ Resolution: 0.01mm/0.001"
- ◆ Buttons: on/off, inch/mm, ABS/INC, data preset, set data
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel beam
- ◆ With driving wheel
- ◆ Optional accessory: 267 series clamps



Application with clamps (optional)

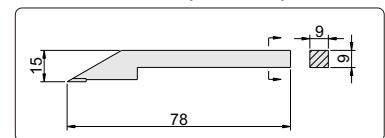


182-012-11

Carbide tipped jaws



Scriber (included)



Driving wheel



Code	Range	Type	Accuracy	a1	a2	c	Ød	h	L
182-012-11	0-300mm/0-12"	A	±0.04mm	135	43	33	15	84	475
182-018-11	0-450mm/0-18"	A	±0.05mm	180	54	38	20	88	660
182-024-11	0-600mm/0-24"	A	±0.05mm	180	54	38	20	88	810
182-040-11	0-1000mm/0-40"	B	±0.05mm	265	68	38	20	88	1230

HEIGHT

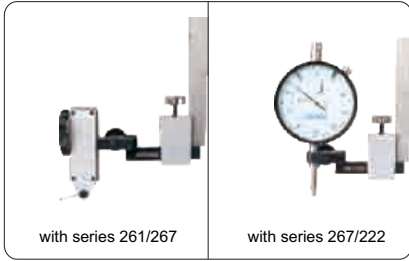
**SERIES 184**

**DIGITAL HEIGHT GAGE WITH DRIVING WHEEL**



- ◆ Buttons: on/off, zero, mm/inch, ABS/INC, hold
- ◆ Automatic power off, move the digital unit to turn on power
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel
- ◆ Data output(cable code: 100-15)
- ◆ Optional accessories: dial test indicator holder (267-050-01)

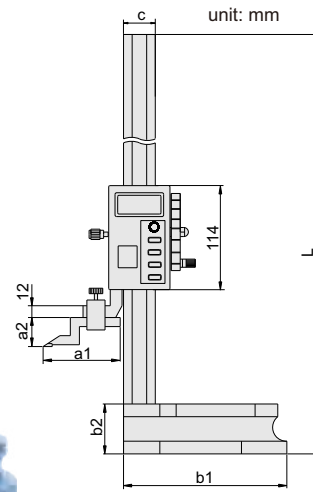
Application with clamps(optional)



Carbide tipped jaws

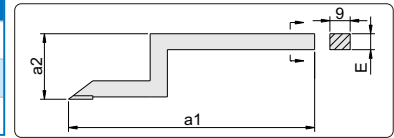


184-012-11



Code	Range	Accuracy	Resolution	b1	b2	L	c	a1	a2	E
184-012-11	0-300mm/0-12"	±0.03mm	0.01mm/0.0005"	180	55	515	32	80	30	9
184-024-11	0-600mm/0-24"	±0.05mm	0.01mm/0.0005"	180	55	815	32	80	30	9
184-040-11	0-1000mm/0-40"	±0.07mm	0.01mm/0.001"	265	70	1220	40	92	48	12

Scriber (included)



**SERIES 185**

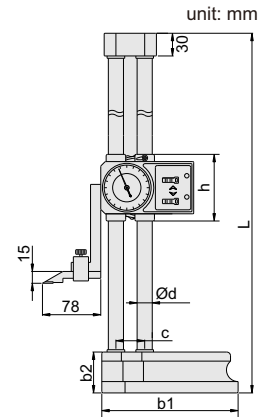
**DIAL HEIGHT GAGE**

- ◆ Indicator graduation: 0.01mm
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ With driving wheel
- ◆ Optional accessory: 267 series clamps

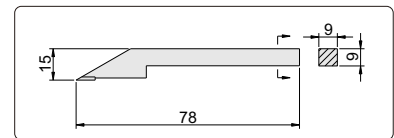
Application with clamps(optional)



185-012-11



Scriber (included)



Carbide tipped jaws

Driving wheel



Code	Range	Accuracy	b1	b2	c	Ød	h	L
185-012-11	0-300mm	±0.04mm	135	43	33	15	84	475
185-018-11	0-450mm	±0.05mm	180	54	38	20	88	660
185-024-11	0-600mm	±0.05mm	180	54	38	20	88	810

**SERIES 186**

**VERNIER HEIGHT GAGE**

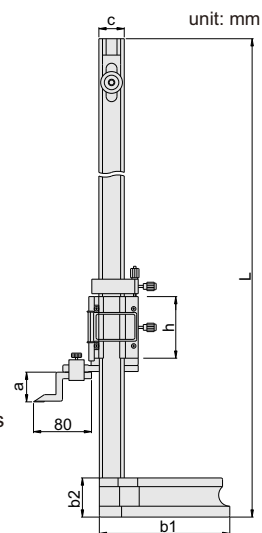
- ◆ Graduation: 0.02mm/0.001"
- ◆ Move main scale to set zero
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Satin chrome plated scale
- ◆ With magnifier
- ◆ Optional accessory: 267 series clamps

Application with clamps (optional)



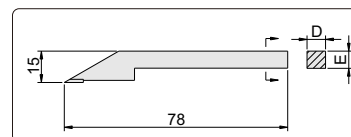
186-012-11

Carbide tipped jaws



Code	Range	Accuracy	a	b1	b2	c	h	D	E	L
186-012-11	0-300mm/0-12"	±0.04mm	30	135	43	28	75	9	9	545
186-018-11	0-450mm/0-18"	±0.05mm	41	180	54	35	85	9	9	720
186-024-11	0-600mm/0-24"	±0.05mm	41	180	54	35	85	9	9	870
186-040-11	0-1000mm/0-40"	±0.07mm	50	270	70	40	85	10	16	1310

Scriber (included)



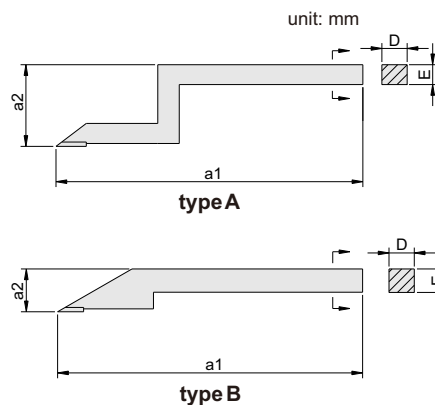
**SERIES 180**

**SCRIBER FOR HEIGHT GAGE**



180-000-SC1

- ◆ Carbide tipped



Code	For height gage	Type	a1	a2	D	E
180-000-SC1	181-012-11	A	76	25	6	8
180-000-SC2	181-024-11	A	103	25	10	12
180-000-SC3	181-040-11, 181-060-11, 181-080-11	A	110	39	10	15
180-000-SC4	185-012-11, 185-018-11, 185-024-11, 182-012-11, 182-018-11, 182-024-11	B	78	15	9	9
180-000-SC6	186-012-11, 184-012-11	A	80	30	9	9
180-000-SC7	186-024-11, 186-018-11, 184-024-11	A	80	41	9	9

Carbide tipped jaws





**SERIES 183**

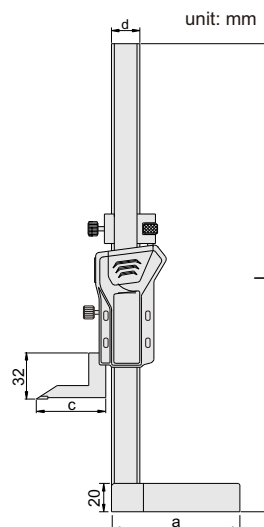
**MINI DIGITAL HEIGHT GAGE**



- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/in, INC
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Data output(cable code: 100-03 or 100-04)
- ◆ Automatic power off



183-006-11



Carbide tipped jaws



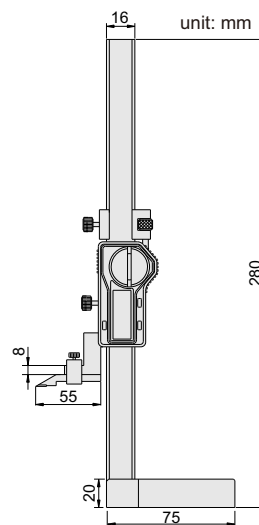
Code	Range	Accuracy	a	c	d	L
183-006-11	0-150mm/0-6"	±0.03mm	75	43	16	265
183-008-11	0-200mm/0-8"	±0.03mm	90	49	16	325
183-010-11	0-250mm/0-10"	±0.03mm	90	49	16	380

**183**

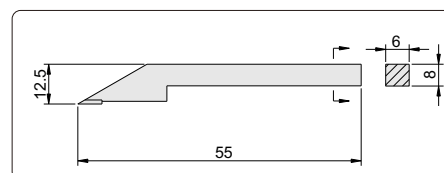
**MINI DIGITAL HEIGHT GAGE**



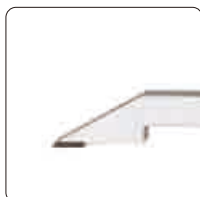
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Carbide tipped scriber
- ◆ With fine adjustment
- ◆ Made of stainless steel (except the base)
- ◆ Data output(cable code: 100-11 or 100-12)
- ◆ Automatic power off



Scriber (included)



Carbide tipped jaws



Code	Range	Accuracy
183-006-12	0-150mm/0-6"	±0.03mm



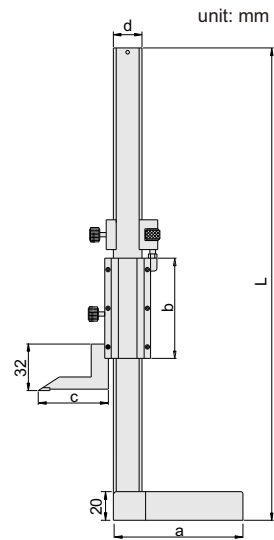
**SERIES 187**

**MINI VERNIER HEIGHT GAGE**

- ◆ Graduation 0.02mm/0.001"
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Satin chrome plated scale



187-008-11



Code	Range	Accuracy	a	b	c	d	L
187-006-11	0-150mm/0-6"	±0.03mm	75	57	43	16	265
187-008-11	0-200mm/0-8"	±0.03mm	90	70	49	20	325
187-010-11	0-250mm/0-10"	±0.03mm	90	70	49	20	380

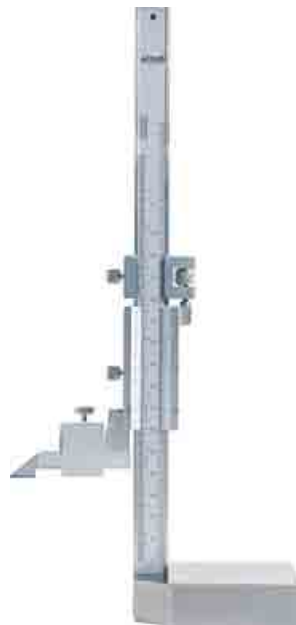
Carbide tipped jaws



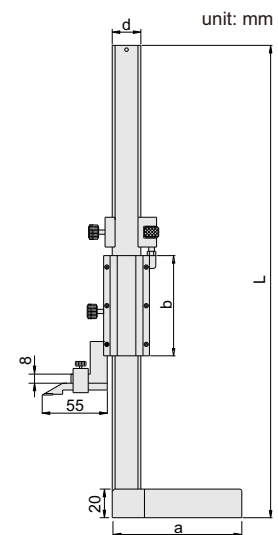
**SERIES 187**

**MINI VERNIER HEIGHT GAGE**

- ◆ Graduation: 0.02mm/0.001"
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Satin chrome plated scale



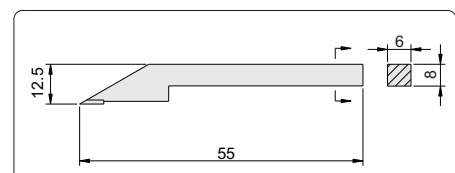
187-006-12



Carbide tipped jaws



Scriber (included)



Code	Range	Accuracy	a	b	d	L
187-006-12	0-150mm/0-6"	±0.03mm	75	57	16	265
187-008-12	0-200mm/0-8"	±0.03mm	90	70	20	325