



Digimatic Height Gage

SERIES 192 — Multi-Function Type with SPC Data Output

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: 0.01+0.005mm or 0.0005" (0.01mm)
 [0.0002" (0.005mm) switchable]
 Display: LCD, 7-digits, character height 11mm
 Max. response speed: 500mm/s
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 2000 hours under normal use

Function

Zero-setting, ABS/INC switching, Two presets, Probe tip diameter compensation, +/- switching, Power ON/OFF, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber (**905200**) and scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**905201**) and scriber clamp (**901385**)

Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
905691: SPC cable (L-shape, 40" / 1m)
905692: SPC cable (L-shape, 80" / 2m)
192-007: Bi-directional touch-signal probe (metric)
192-008: Bi-directional touch-signal probe (inch)
953638: Holding bar for test indicator (length: 50mm)
900209: Holding bar for test indicator (length: 100mm)
953639: Holding bar for test indicator (length: 2")
900306: Holding bar for test indicator (length: 4")
900321: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)



Shown with optional touch-signal probe



FEATURES

- Highly versatile multi-function type.
- Carbide-tipped long scriber is provided.
- Rigid construction ensures repeatable measurement.
- Switchable resolution.
- Coarse/fine feed switching.
- Bi-directional touch-signal probe is an optional accessory. It can quickly and accurately measure steps, inside width, and outside width.
- With SPC data output.
- Two preset reference height.



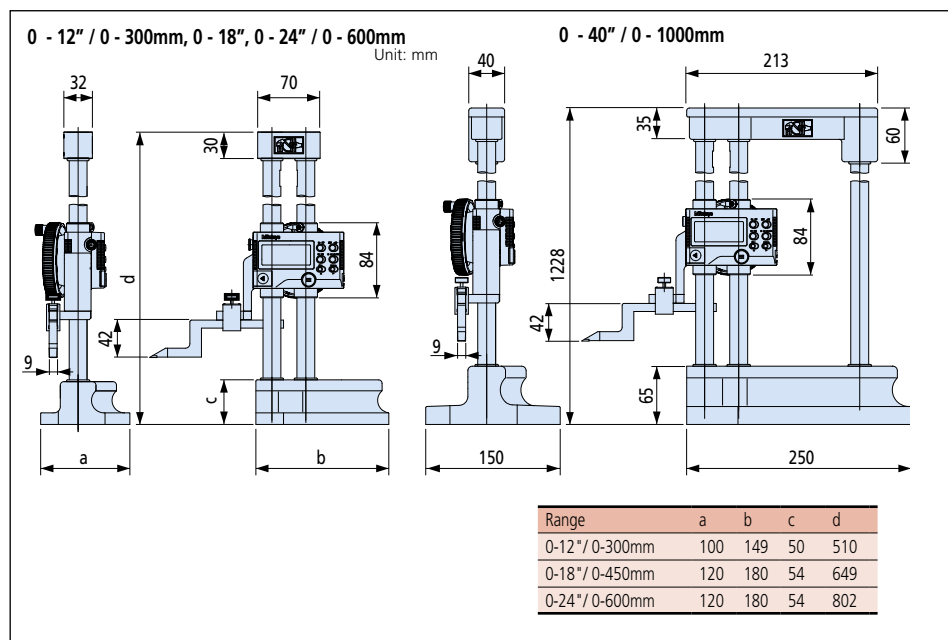
192-670-10

SPECIFICATIONS

Inch/Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0-12"/0-300mm	192-670-10	±001"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	5.7
0-18"/0-450mm	192-671-10	±0015"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	7.5
0-24"/0-600mm	192-672-10	±0015"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	8.3
0-40"/0-1000mm	192-673-10	±0025"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	15.7

Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0-300mm	192-663-10	±0.02mm	Switchable between 0.01mm and 0.005mm	5.7
0-600mm	192-664-10	±0.04mm	Switchable between 0.01mm and 0.005mm	8.3
0-1000mm	192-665-10	±0.06mm	Switchable between 0.01mm and 0.005mm	15.7

DIMENSIONS



Digimatic Height Gage

SERIES 192 — Standard Type with SPC Data Output



FEATURES

- Easy-to-use standard type.
- Carbide-tipped scriber is provided.
- Double-column structure ensures high measuring accuracy.
- Coarse/fine feed switching.
- Switchable resolution
- Two preset reference height



192-630-10

SPECIFICATIONS

Inch/Metric					
Range	Order No.	Accuracy	Resolution	Mass (kg)	
0-12"/0-300mm	192-630-10	±001"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	4.7	
0-18"/0-450mm	192-631-10	±002"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	7.5	
0-24"/0-600mm	192-632-10	±002"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	8.3	
0-40"/0-1000mm	192-633-10	±003"	.0005" (0.01mm) [.0002" (0.005mm) Switchable]	15.7	

Metric					
Range	Order No.	Accuracy	Resolution	Mass (kg)	
0-300mm	192-613-10	±0.02mm	Switchable between 0.01mm and 0.005mm	4.7	
0-600mm	192-614-10	±0.05mm	Switchable between 0.01mm and 0.005mm	8.3	
0-1000mm	192-615-10	±0.07mm	Switchable between 0.01mm and 0.005mm	15.7	

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: .0005" (0.01mm) [.0002" (0.005mm)]
 or 0.01mm and 0.005mm
 Display: LCD, 7-digit, character height 11mm
 Max. response speed: 500mm/s
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 2000 hours under normal use

Function

Zero-setting, ABS/INC switching, Two presets, Probe tip diameter compensation, +/- switching, Power ON/OFF, Data hold, With Output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

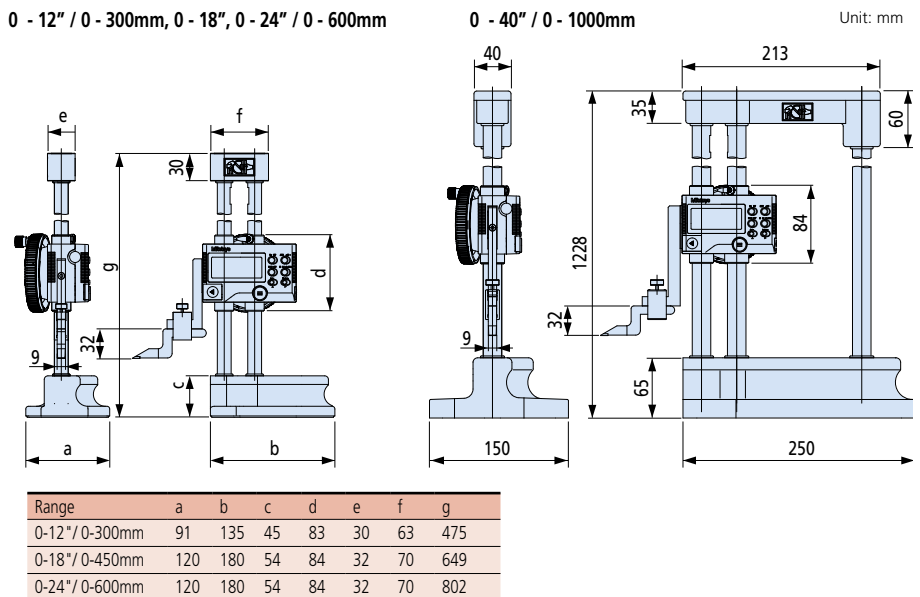
Standard Scriber Provided

Metric models: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**900258**) and scriber clamp (**901385**)

Optional Accessories

953638: Holding bar for test indicator (length: 50mm)
900209: Holding bar for test indicator (length: 100mm)
953639: Holding bar for test indicator (length: 2")
900306: Holding bar for test indicator (length: 4")
900321: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)
905338: SPC cable (CD type) 1m
905409: SPC cable (CD type) 2m
905691: CD/Connecting cable L-Type 1m RIG
905692: CD/Connecting cable L-Type 2m RIG

DIMENSIONS



Technical Data

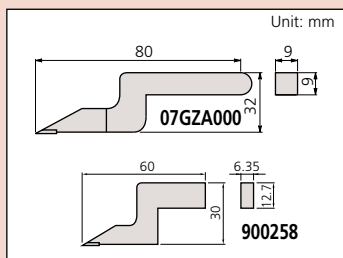
Dial reading: 0.01mm or .001"

Standard Scriber Provided

Metric models: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)

Inch/Metric models: Carbide-tipped scriber (**900258**) and scriber clamp (**901385**)

Dimension of scriber



Optional Accessories

- 953638:** Holding bar for test indicator (length: 50mm)
- 900209:** Holding bar for test indicator (length: 100mm)
- 953639:** Holding bar for test indicator (length: 2")
- 900306:** Holding bar for test indicator (length: 4")
- 900321:** Swivel clamp used with holding bar (metric)
- 900322:** Swivel clamp used with holding bar (inch)



Comfortable grip base



Easy and secure clamping



Easy and error free reading

Dial Height Gage

SERIES 192 — with Digital Counter

FEATURES

- Easy and error-free reading with both up and down digital counters as well as a dial.
- Provided with a feed wheel for easy coarse feeding.
- Carbide-tipped scriber is provided.
- The counters and dial can be re-zeroed at any scriber position.

SPECIFICATIONS

Metric

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 300mm	192-130	±0.03mm	0.01mm	4.2
0 - 450mm	192-131	±0.05mm	0.01mm	9.2
0 - 600mm	192-132	±0.05mm	0.01mm	9.8
0 - 1000mm	192-133	±0.07mm	0.01mm	17.0

Inch

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 12"	192-150	±.0015"	.001"	4.2
0 - 18"	192-151	±.002"	.001"	9.2
0 - 24"	192-152	±.002"	.001"	9.8
0 - 40"	192-153	±.003"	.001"	17.0



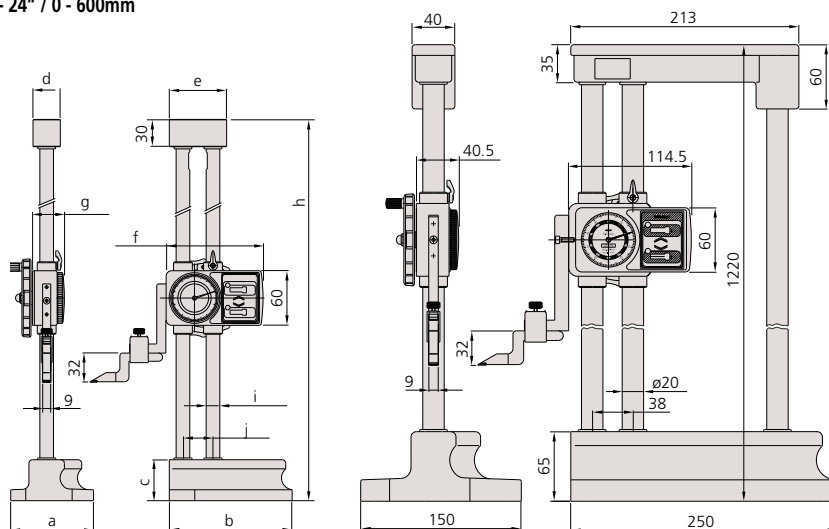
192-150

DIMENSIONS

0 - 12" / 0 - 300mm, 0 - 18" / 0 - 450mm
0 - 24" / 0 - 600mm

0 - 40" / 0 - 1000mm

Unit: mm



Range	a	b	c	d	e	f	g	h	i	j
0-12"/0-300mm	91	135	45	30	63	106.5	35.5	470	ø15	33
0-18"/0-450mm	120	180	54	32	70	114.5	40.5	645	ø20	38
0-24"/0-600mm	120	180	54	32	70	114.5	40.5	798	ø20	38

ABSOLUTE Digimatic Height Gage

SERIES 570 — with ABSOLUTE Linear Encoder

FEATURES

- Built in ABSOLUTE linear encoder
This encoder eliminates the necessity of setting the reference point at every power-on. It has improved reliability because no over-speed error will occur.
- Fine-adjustment carriage to feed the slider finely.
- Carbide-tipped scriber is provided.
- With SPC data output.



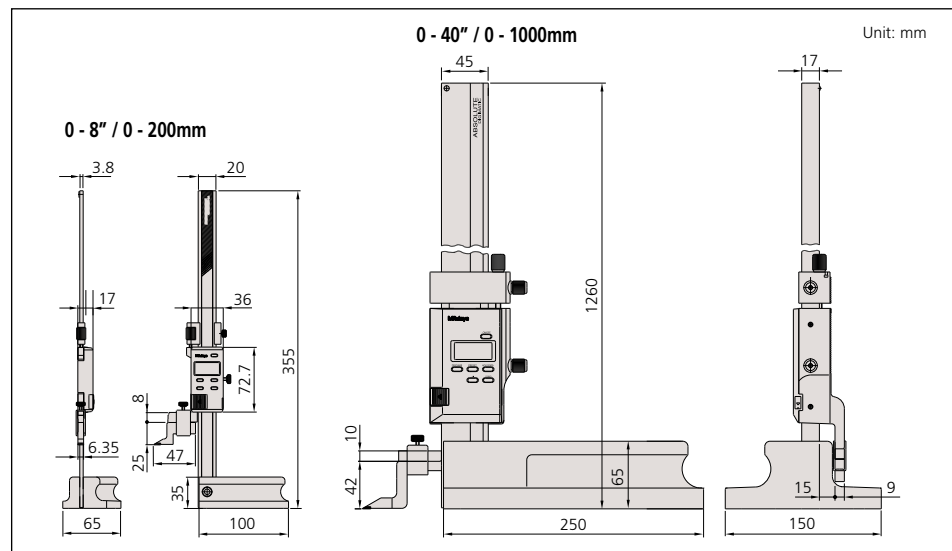
570-244

SPECIFICATIONS

Metric				
Range	Order No.	Accuracy	Resolution	Mass (kg)
0 - 200mm	570-227	±0.03mm	0.01mm	1.4
0 - 1000mm	570-230	±0.07mm	0.01mm	16.8

Inch/Metric				
Range	Order No.	Accuracy	Resolution	Mass(kg)
0 - 8" / 0 - 200mm	570-244	±.001"	.0005" / 0.01mm	1.4
0 - 40" / 0 - 1000mm	570-248	±.003"	.0005" / 0.01mm	16.8

DIMENSIONS



Technical Data

Accuracy: Refer to the list of specifications.
Resolution: .0005" / 0.01mm or 0.01mm
Display: LCD, 6-digit
Length standard: ABSOLUTE electrostatic capacitance type linear encoder
Max. response speed: Un limited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 5000 hours under normal use

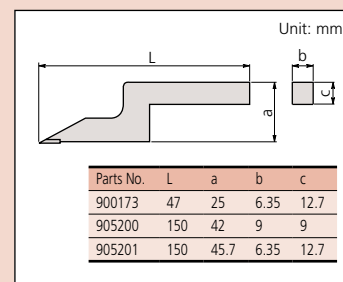
Function

Origin setting, ABS/INC switching, Presetting, +/- switching, Data hold, Data output, inch/mm conversion (on inch/metric models only)
Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber
(900173/905200*) and scriber clamp
(901338/05GZA033*)
*0 - 1000mm model
Inch/Metric models: Carbide-tipped scriber
(900173/905201*) and scriber clamp
(901338/901385*)
*0 - 40" model

Dimension of scriber



Optional Accessories

- 905338: SPC cable (40" / 1m)
- 905409: SPC cable (80" / 2m)
- 953638: Holding bar for test indicator (length: 50mm)
- 953639: Holding bar for test indicator (length: 2")
- 902053: Swivel clamp used with holding bar (metric)
- 900322: Swivel clamp used with holding bar (inch)

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: .0005"/0.01mm or 0.01mm
 Display: LCD, 6-digit
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Un limited
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 20000 hours under normal use

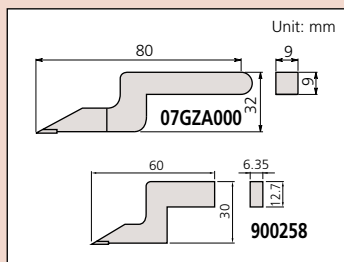
Function

Origin setting, ABS/INC switching, Power ON/OFF, Data hold, Data output, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Standard Scriber Provided

Metric models: Carbide-tipped scriber (**07GZA000**), scriber clamp (**05GZA033**)
 Inch/Metric models: Carbide-tipped scriber (**900258**), scriber clamp (**901385**)

Dimension of scriber



Optional Accessories

905338: SPC cable (40" / 1m)
905409: SPC cable (80" / 2m)
953638: Holding bar for test indicator (length: 50mm)
953639: Holding bar for test indicator (length: 2")
902053: Swivel clamp used with holding bar (metric)
900322: Swivel clamp used with holding bar (inch)



Large smooth slider feed wheel



Large clamp lever



Comfortable grip base

ABSOLUTE Digimatic Height Gage

SERIES 570 — with ABSOLUTE Linear Encoder

FEATURES

- Built in ABSOLUTE linear encoder
 This encoder eliminates the necessity of setting the reference point at every power-on. It has improved reliability because no over-speed error will occur.
- Rigid column structure ensures high measuring accuracy.
- With large smooth slider feed wheel.
- Carbide-tipped scriber is provided.
- With SPC data output.

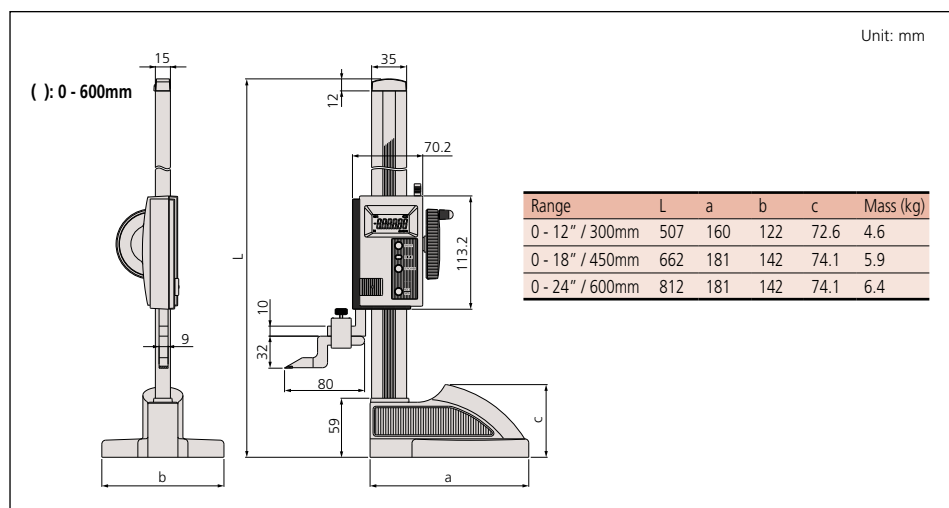


SPECIFICATIONS

Metric			
Range	Order No.	Accuracy	Resolution
0 - 300mm	570-302	±0.03mm	0.01mm
0 - 600mm	570-304	±0.05mm	0.01mm

Inch/Metric			
Range	Order No.	Accuracy	Resolution
0 - 12" / 0 - 300mm	570-312	±.0015"	.0005" / 0.01mm
0 - 18" / 0 - 450mm	570-313	±.002"	.0005" / 0.01mm
0 - 24" / 0 - 600mm	570-314	±.002"	.0005" / 0.01mm

DIMENSIONS AND MASS



Vernier Height Gage

SERIES 514 — Standard Height Gage with Adjustable Main Scale

FEATURES

- Zero reference point can be adjusted.
- Stain chrome finished scales for glare-free reading.
- Extra-large base for rigidity.
- Optional magnifier for easier reading
- Carbide-tipped scriber is provided.



SPECIFICATIONS

Metric

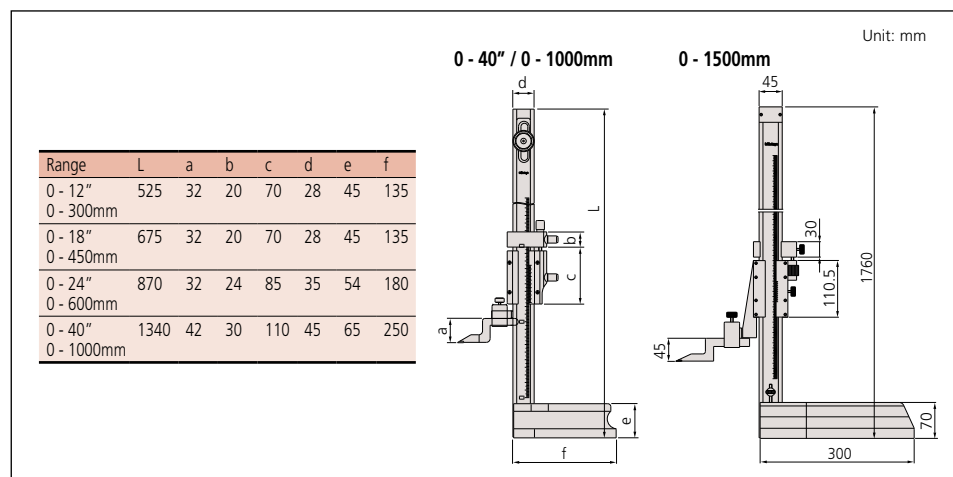
Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 300mm	514-102	±0.04mm	0.02mm	3.1
0 - 450mm	514-104	±0.05mm	0.02mm	3.4
0 - 600mm	514-106	±0.05mm	0.02mm	7.4
0 - 1000mm	514-108	±0.07mm	0.02mm	20.0
0 - 1500mm	514-170	±0.18mm	0.02mm	26.0

Inch/Metric

Inch model with inch/metric dual scale

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 12" / 0 - 300mm	514-103	±.002"	.001" / 0.02mm	3.1
0 - 18" / 0 - 450mm	514-105	±.002"	.001" / 0.02mm	3.4
0 - 24" / 0 - 600mm	514-107	±.002"	.001" / 0.02mm	7.4
0 - 40" / 0 - 1000mm	514-109	±.003"	.001" / 0.02mm	20.0

DIMENSIONS



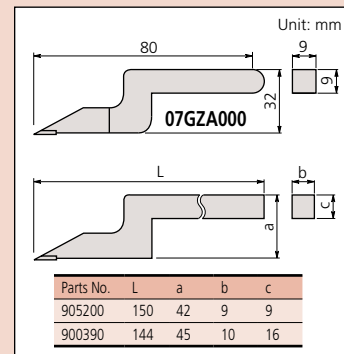
Technical Data

Main scale adjustment: 15mm or 25mm
Slider fine feed: 4mm, 6mm, 7mm or 20mm

Standard Scriber Provided

Up to 600mm: Carbide-tipped scriber (**07GZA000**) and scriber clamp (**05GZA033**)
0 - 1000mm: Carbide-tipped scriber (**905200**) and scriber clamp (**05GZA033**)
0 - 1500mm: Carbide-tipped scriber (**900390**) and scriber clamp (**905008**)

Dimension of scriber



Optional Accessories

07GZA003: Magnifier for 300, 450mm, 600mm models
07GZA015: Magnifier for 1000mm and 1500mm models
953638: Holding bar for test indicator (length: 50mm)
902053: Swivel clamp used with holding bar



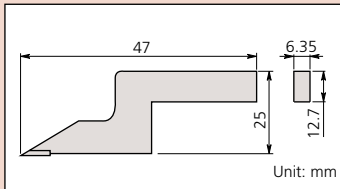
Vernier Height Gage

SERIES 506 — Light Weight Height Gage

Standard Scriber Provided

Carbide-tipped scriber (900173) and scriber clamp (901338)

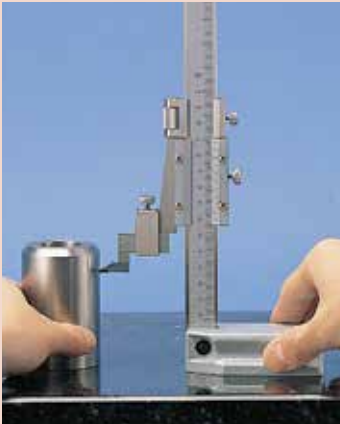
Dimension of scriber



Optional Accessories

953639: Holding bar for test indicator (length: 2" / 50mm)

900322: Swivel clamp used with holding bar



FEATURES

- The Light Weight Height Gage is designed for scribing from a vertical base or for small parts.
- Stain chrome finished scales for glare-free reading.
- Beam and slider are made of stainless steel.
- Carbide-tipped scriber is provided.



SPECIFICATIONS

Metric

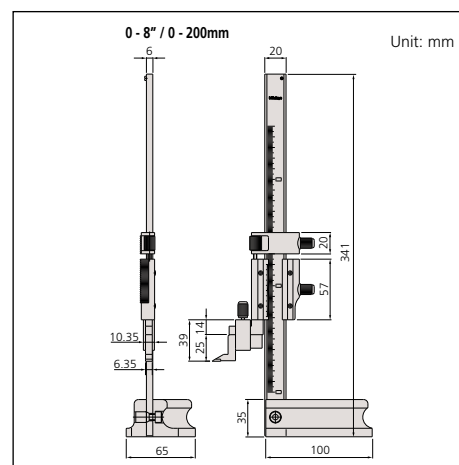
Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 200mm	506-207	±0.03mm	0.02mm	1.4

Inch/Metric

Inch model with inch/metric double scale

Range	Order No.	Accuracy	Graduation	Mass (kg)
0 - 8" / 0 - 200mm	506-208	±.001"	.001" / 0.02mm	1.4

DIMENSIONS

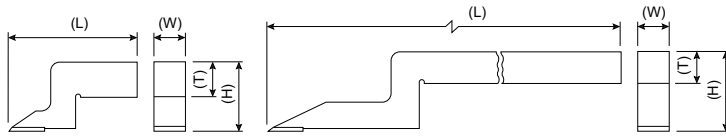


Carbide-Tipped Scriber

Optional Accessory for Height Gage

FEATURES

- Use the appropriate scriber and clamp for each height gage.



DIMENSIONS

Metric

Scriber Order No.	Clamp Order No.	Scriber Dimensions (mm)			
		Length	Height	Width	Thickness
900167	05GZA033	143	23	9	9
07GZA000	07GZA002	80	32	9	9
905200	05GZA033	150	42	9	9
900390	905008	144	45	10	16

Inch

Scriber Order No.	Clamp Order No.	Scriber Dimensions (inch)			
		Length	Height	Width	Thickness
900258	901385	2.4	1.2	.25	.5
905201	901385	5.9	1.77	.25	.5
900172	901385	5.3	1.0	.25	.5
900173	901338	1.9	1.0	.25	.5

Optional Accessories

Optional Accessories for Height Gage



Center Master

- Allows quick measurement of center-to-center distance between holes.
- Measurable hole diameters: .040" to 1.50" / $\varnothing 1 - \varnothing 38\text{mm}$.

SPECIFICATIONS

Order No.	Remarks
951144	With metric type holding bar (9x9mm cross-section)
900581	With Inch type holding bar (.25x.5" cross-section)



Depth Gage Attachment

- Attached to a height gage to measure groove and hole depth.
- Minimum hole diameter: 5.5mm
- Maximum distance from the bottom of the holding bar to the contact point: 2.95" (inch type), 80mm (metric type)
- Uses standard dial indicator points

SPECIFICATIONS

Order No.	Remarks
900764	With metric type holding bar (9x9mm cross-section)
900878	With Inch type holding bar (.25x.5" cross-section)



Contact Sensor

- The contact sensor eliminates errors caused by jacking-up the height gage while taking measurements. When the scriber of a height gage touches a conductive workpiece, an indicator will light up to indicate that measurement can be taken, which will result in consistent height measurement.

SPECIFICATIONS

Order No.	Remarks
900872	Battery (2pcs. SR44, required) is not included



CERA Caliper Checker

SERIES 515

FEATURES

- The CERA Caliper Checker is designed to inspect vernier, dial and Digimatic calipers. It is comprised of permanently wrung, high-grade CERA gage blocks in a protective casting.
- The CERA Caliper Checker also stands perpendicular to a surface for height gage inspection.
- The zirconia based ceramic CERA measuring blocks are corrosion resistant and dimensionally stable.



515-555

Technical Data

Block pitch accuracy: $\pm 0.005\text{mm}$ for range up to 300mm
 $\pm 0.002"$ for range up to 12"
 $\pm 0.007\text{mm}$ for range up to 600mm
 Parallelism of blocks: 0.002mm for range up to 300mm
 0.004mm for range up to 600mm

Optional Accessories

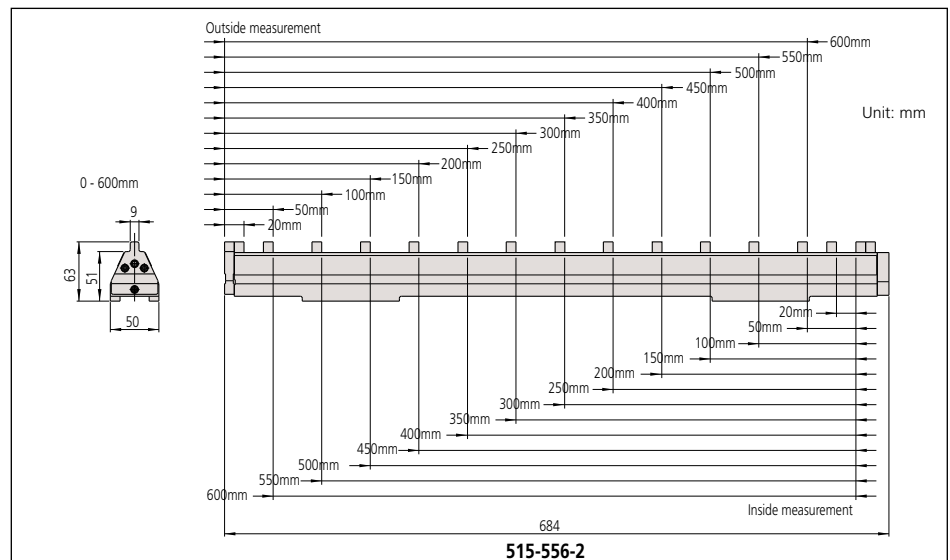
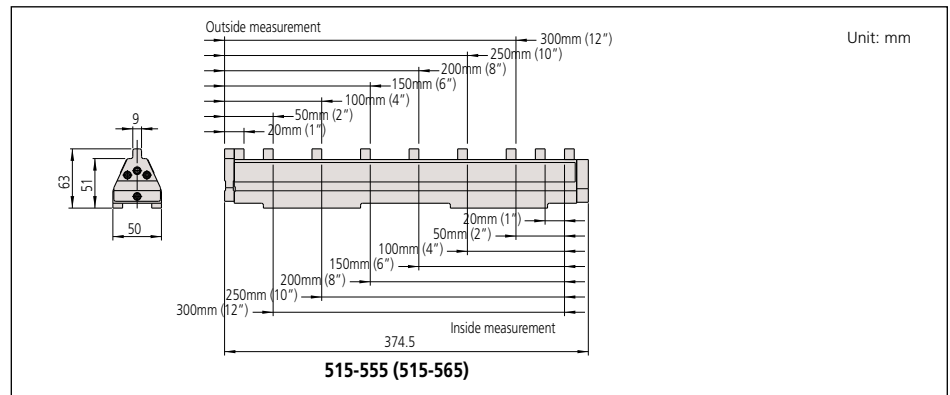
602162: Wooden case for 300mm model
602164: Wooden case for 600mm model

SPECIFICATIONS

Metric			
Range	Order No.	Remarks (length to check)	Mass (kg)
0 - 300mm	515-555	Outside measurement: 20, 50, 100, 150, 200, 250, 300mm Inside measurement: 20, 50, 100, 150, 200, 250, 300mm	4.0
0 - 600mm	515-556-2	Outside, Inside measurement: 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600mm	8.5

Inch			
Range	Order No.	Remarks (length to check)	Mass (kg)
0 - 12"	515-565	Outside measurement: 1", 2", 4", 6", 8", 10", 12" Inside measurement: 1", 2", 4", 6", 8", 10", 12"	4.0

DIMENSIONS



Used for caliper



Used for height gage

Linear Height LH-600E

SERIES 518 — High Performance 2D Measurement System

FEATURES

- Excellent accuracy of (1.1+0.6L/600)µm with 0.1µm/0.5µm resolution/repeatability.
- Perpendicularity (frontal) of 5µm and straightness of 4µm are guaranteed.
- Pneumatic full/semi-floating system allows adjustment of air-cushion height.
- Basic statistical functions are provided and, additionally, RS-232C / USB data output provides the option of evaluating measurement data externally with SPC software on a PC.
- One-key operation for running a semi-automatic measurement.
- Data entry from a Digimatic tool.

with power grip



518-351A-21

SPECIFICATIONS

Inch/Metric		
Order No.		518-351A-21
Model		LH-600E
Measuring Range (stroke)		0-38" (24") / 0-972mm(600mm)
Resolution (selectable)		.000001" / .00001" / .0001" / .001" / 0.0001mm/0.001mm/0.01mm/0.1mm
Accuracy at 20°C	Measuring accuracy	.000043 + (.000024 x L*/24)" / (1.1 + 0.6L**/600)µm
	Repeatability (2s)	Plane: .000015"/0.4µm Bore: .000035"/0.9µm
	Perpendicularity	.0002"/5µm
	Straightness	.0002"/4µm
Drive Method		Motor Drive (5, 10, 15, 20, 25, 30, 40mm/s=7 steps) / manual
Measuring Force		1N
Balancing Method		Counter balance
Main Unit Floating Method		Full/semi-floating with air
Air Source		Built-in air compressor
LCD		TFT LCD (color)
Language for Display		English/German/French/Spanish/Italian/Japanese
Number of Programs		50 (max.)
Number of Datas		60,000 (max.) 1 program 30,000 (Max.)
Power Supply		AC Adapter/Battery (Ni-MH)
Power Consumption		43VA
Operation Time		Approx. 5 hours
Standard Accessories		ø5 Eccentric probe (12AAF634)
		Probe diameter calibration block (12AAA715)
		Battery (12AAF712)
		AC adapter (357651), Power Cable (02ZAA010)
		Clear Cover (223587)
		Conveying handle (510434)
Mass		24kg

L*=Measuring length (inch) L**=Measuring length (mm)



Technical Data

Measuring range: 0 - 38" / 0 - 972mm
 Slider stroke: 24" / 600mm
 Resolution: .000001" / .00001" / .0001" / .001" or (switchable) 0.0001 / 0.001 / 0.01 / 0.1mm / 0.0001 / 0.001 / 0.01 / 0.1mm
 Accuracy at 20°C: Refer to the list of specifications.
 Floating method: Full / semi-floating with built-in air compressor
 Display: TFT LCD (color)

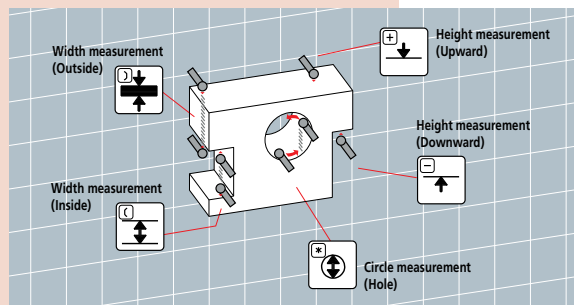


5.7" color LCD display

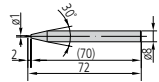
Optional probes and calibration blocks

Optional Accessories

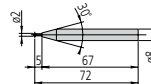
12AAF712:	Battery pack
12AAF675:	Large capacity battery pack
12AAA797	Thermal printer (120V)
12AAA802	Thermal printing paper (10pcs.)
12AAA804	Cable for page printer** (2m)
12AAA807	RS-232C cable (80" / 2m)
12AAA808	RS-232C cable (160" / 4m)



12AAF666
ø1 ball probe



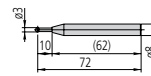
957261
ø2 ball probe



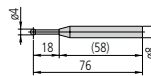
12AAF667
ø2 ruby ball probe



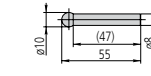
957262
ø3 ball probe



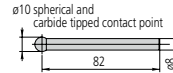
957263
ø4 ball probe



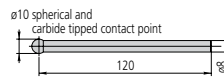
12AAB552
ø10 ball probe, L=55



12AAF668
ø10 ball probe, L=82



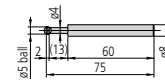
12AAF669
ø10 ball probe, L=120



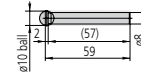
932361 Mu-checker lever head holder
CMM ball and disk hard probes are available.

12AAA787 Block for calibrating probe diameter
(applicable to taper probe)

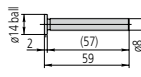
12AAF670
ø5 disk probe



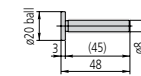
12AAF671
ø10 disk probe



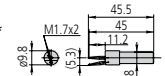
957264
ø14 disk probe



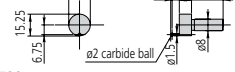
957265
ø20 disk probe



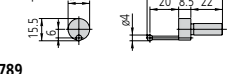
12AAF672
ø1 ball offset probe*
*test indicator stylus (103017)



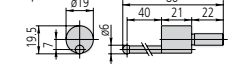
12AAF673
ø2 ball offset probe



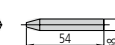
12AAA788
ø4 ball offset probe



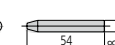
12AAA789
ø6 ball offset probe



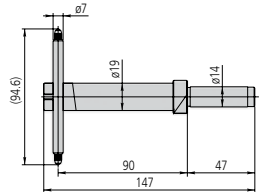
226117
M2 CMM stylus adapter



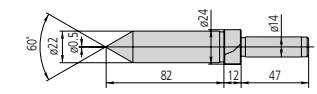
226118
M3 CMM stylus adapter



12AAC072 Depth probe

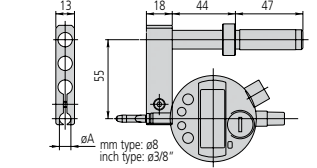


12AAC073 ø20 taper probe

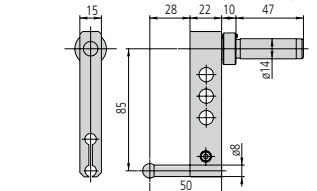


12AAA792 Dial indicator (ø8 stem) holder

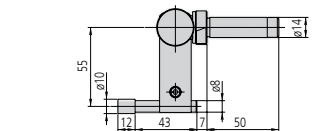
12AAA837 Dial indicator (ø3/8" stem) holder



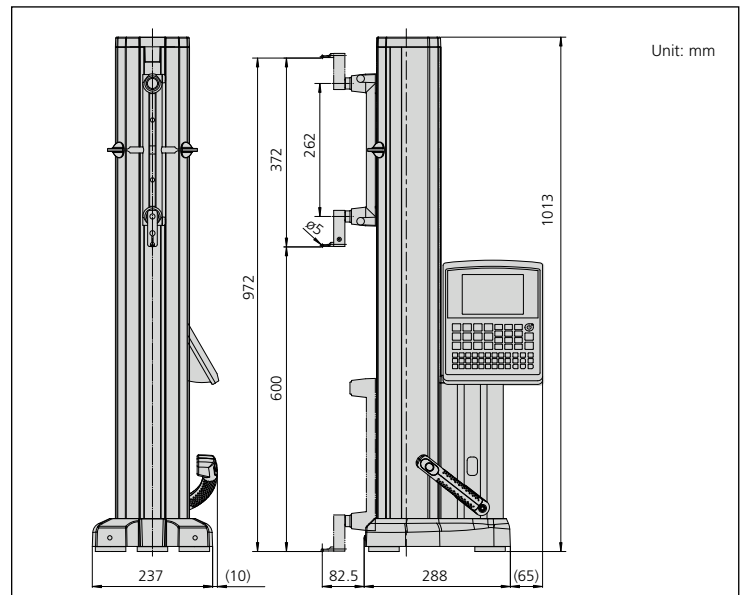
12AAA793 Probe extension holder (85mm/3.3")



12AAB136 ø10 cylindrical probe



DIMENSIONS AND MASS



QM-Height

SERIES 518 — High Precision ABSOLUTE Digital Height Gauge

FEATURES

- Newly developed high accuracy and high resolution ABSOLUTE linear encoder for position detection.
- Easy reference icon keys.
- Possible to measure inside/outside diameter via unique process (detect the circle apex and process by tracing measurement).
- Various types of optional probes are available.
- Large size LCD with back light.
- GO/±NG judgment is performed by setting the upper and lower tolerances. If a judgment result is out of tolerance, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.
- Slider elevation knob (for travel) / wheel (for measurement).
- With SPC and USB output.



SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

Technical Data

Measuring range*: 0 - 18.3" or 0 - 28.1"
0 - 465mm or 0 - 715mm
Slider stroke: 14" / 350mm or 24" / 600mm
Resolution: .00005" / .0001" / .0002" / 0.001 / 0.005mm or 0.001 / 0.005mm
Accuracy at 20°C: Refer to the list of specifications
Guiding method: Roller bearing
Drive method: Manual
Length standard: ABSOLUTE electromagnetic induction type linear encoder
Measuring force: 1.5±0.5N
Display: LCD
Power supply: AC adapter (06AEG180JA) 120V battery (LR6x4)
Battery operation time: Refer to the list of specifications
* Maximum values are obtained with the probe at the highest position. Any change of the probe orientation requires the coordinate system be re-zeroed. With the probe in the highest position, minimum measurable height is 4.53"/115mm.

SPECIFICATIONS

Inch/Metric				
Order No.	64PKA094A	64PKA095A	64PKA129A	64PKA130A
Model	QMH-14"A	QMH-24"A	QMH-14"B	QMH-24"B
Range	0 - 14"/0-350mm	0 - 24"/0-600mm	0 - 14"/0-350mm	0 - 24"/0-600mm
Resolution	0.001 / 0.0005mm / .00005" / .0001"			
Accuracy	Accuracy* ¹ ±(2.4+2.1L/600)μm L = Measuring length (mm)			
at 20°C	Repeatability* ¹ 2σ≤1.8μm			
Perpendicularity	7μm	12μm	7μm	12μm
Guiding method	Roller bearing			
Drive method	Manual Operation			
Scale type	Electromagnetic induction type ABSOLUTE linear encoder			
Measuring force	1.5±0.5(N)			
Data Output	Digimatic output/USB			
Pneumatic floating system	NA		Included (for movement only)	
Power supply	AC adapter battery / (LR6 x 4) Standard accessory / Nickel metal hydride battery (x4)			
Battery operation time	Approx. 300 hours (Not using pneumatic floating system)			
	Approx. 80 hours (Using pneumatic floating system regularly)			
Standard Accessories	Stepped probe (05H2A148) Probe diameter calibration block (12AAA715) LR6 Battery / AC Adapter (06AEG180JA) 120V			
Mass	55.16 lbs (25kg)	63.93 lbs (29kg)	57.32 lbs (26kg)	66.14 lbs (30kg)
Dimensions	41.85"x21.85x18.94" 1063(W)x555(D)x481(H)	51.02"x21.85x18.94" 1296(W)x555(D)x481(H)	41.85"x21.85x18.94" 1063(W)x555(D)x481(H)	51.02"x21.85x18.94" 1296(W)x555(D)x481(H)
Main Unit	518-231	518-233	518-235	518-237

*1 Guaranteed when using the standard eccentric ø5 probe.

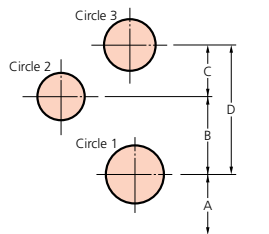


Optional Accessories

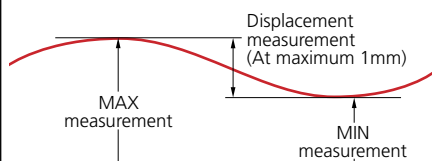
12AAC072:	Depth probe
12AAA792:	Dial indicator (ø8mm stem) holder
12AAA837:	Dial indicator (ø3/8" stem) holder
12AAA793:	Probe extension holder (3.3" / 85mm)
12AAF667:	ø2mm ruby ball probe
957261:	ø2mm ball probe
957262:	ø3mm ball probe
957263:	ø4mm ball probe
05HAA394:	ø5mm ball probe (for 05HZA148)
12AAB552:	ø10 mm ball probe, L=55mm
12AAF670:	ø5mm disk probe
12AAF671:	ø10mm disk probe
957264:	ø14mm disk probe
957265:	ø20mm disk probe
12AAA788:	ø4mm ball offset probe
05HAA394:	ø5mm ball offset probe
12AAA789:	ø6mm ball offset probe
05HZA173:	Scriber
264-504-5A:	DP-1VR
936937:	SPC cable (40" / 1m)
965014:	SPC cable (80" / 2m)

Circle pitch measurement

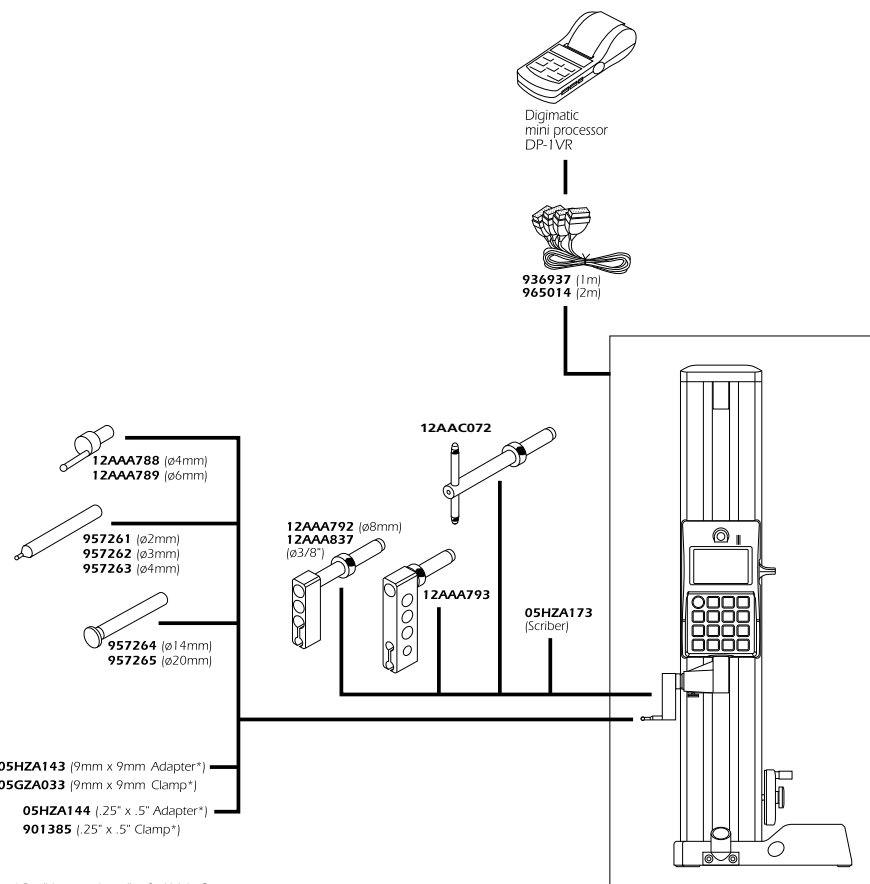
The length A, B, C and D can be determined by measuring circles 1 to 3 once each, using the memory of measuring data together with the calculation function. (A maximum of nine circle measurement data can be saved.)



Maximum/minimum and displacement measurement

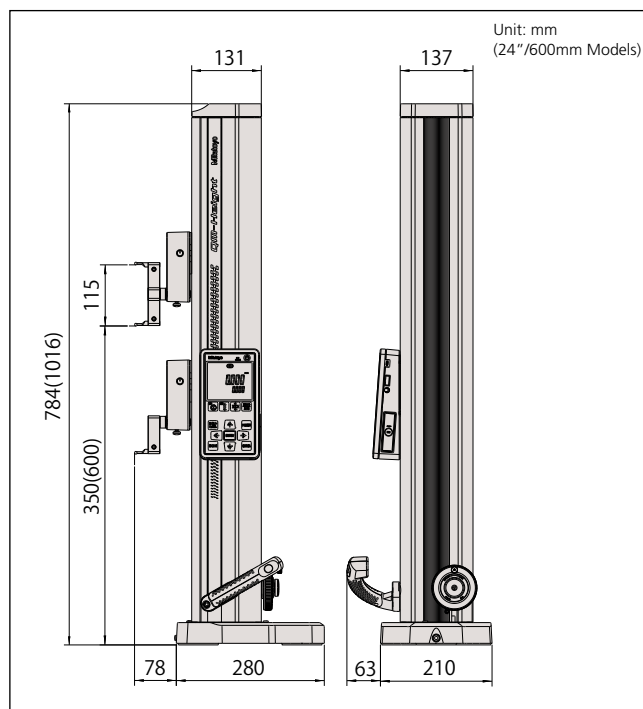


Inside diameter measurement



* Possible to use the scriber for Height Gage.

DIMENSIONS



Unit: mm
(24"/600mm Models)