



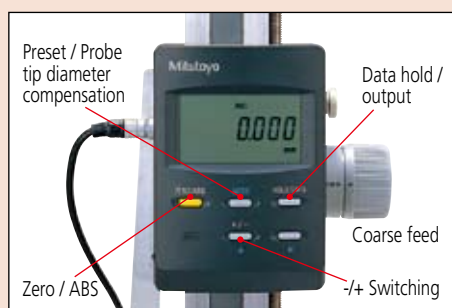
(Refer to page IX for details.)

Technical Data

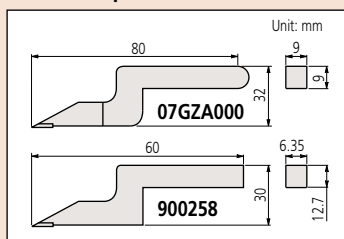
Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Repeatability: 0.001mm
Resolution: 0.001mm or .0001"/0.001mm
Display: LCD, 6-digit
Power supply: Via AC adapter

Functions

Zero-setting, Presetting, Probe tip diameter compensation, +/- switching, Data hold, Data output, inch/mm conversion (inch/mm models)
Alarm: Counting value composition error



Dimensions of Optional Scribers



Optional Accessories

- 936937: SPC cable (1m)
- 965014: SPC cable (2m)
- 02AZD790D: SPC cable for U-WAVE (160mm)
- 900321: Swivel clamp for dial test indicator (metric)
- 900322: Swivel clamp for dial test indicator (inch)
- 953638: Holding bar for swivel clamp (metric)
- 953639: Holding bar for swivel clamp (inch)
- 07GZA000: Carbide-tipped scriber (metric)
- 900258: Carbide-tipped scriber (inch)
- 145250: ø1mm contact point for touch-signal probe
- 145251: ø2mm contact point for touch-signal probe

Touch-Signal Probe (Standard accessory)



Order No.: 574-006

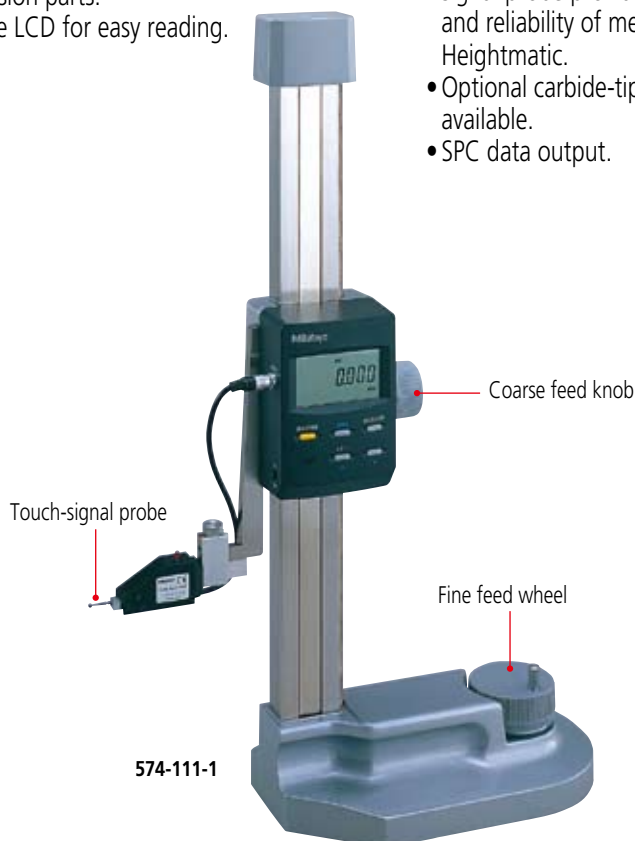
- Two-directional type
- Over travel: Less than 3mm
- Contact point: ø3mm ball
- Repeatability: 0.0015mm
- Measuring force: 0.4N

Heightmatic

SERIES 574 — High Precision Height Gage

FEATURES

- Resolution of 0.001mm enables accurate measurement and effective SPC for precision parts.
- Large LCD for easy reading.
- Excellent functionality and easy operation.
- The standard two-directional touch-signal probe provides improved efficiency and reliability of measurement for the Heightmatic.
- Optional carbide-tipped scribers are available.
- SPC data output.



SPECIFICATIONS

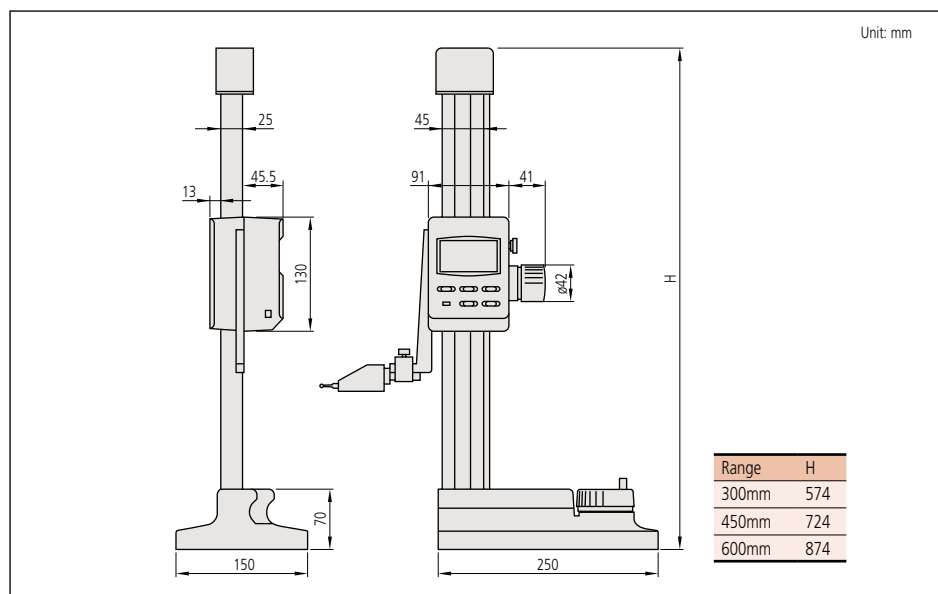
Metric		
Range	Order No.*	Accuracy
0 - 300mm	574-112-1	±0.004mm
0 - 450mm	574-111-1	±0.004mm
0 - 600mm	574-110-1	±0.005mm

* To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for EK, **No suffix** is required for JIS/100V

Inch/Metric		
Range	Order No.*	Accuracy
0 - 12"	574-212-1	±.0002"
0 - 18"	574-211-1	±.0002"
0 - 24"	574-210-1	±.0002"

* To denote your AC power cable add the following suffixes to the order No.: **A** for UL/CSA, **D** for CEE, **DC** for CCC, **E** for BS, **K** for EK, **No suffix** is required for JIS/100V

DIMENSIONS



Range	H
300mm	574
450mm	724
600mm	874

Digimatic Height Gage

SERIES 192 — Multi-function Type with SPC Data Output

FEATURES

- Highly versatile multi-function type.
- Carbide-tipped long scribe is provided.
- Rigid construction ensures repeatable measurement.
- Inclined handle improves slider ergonomics.
- Two-directional touch-signal probe is an optional accessory. It can quickly and accurately measure steps, inside width, and outside width.
- SPC data output.



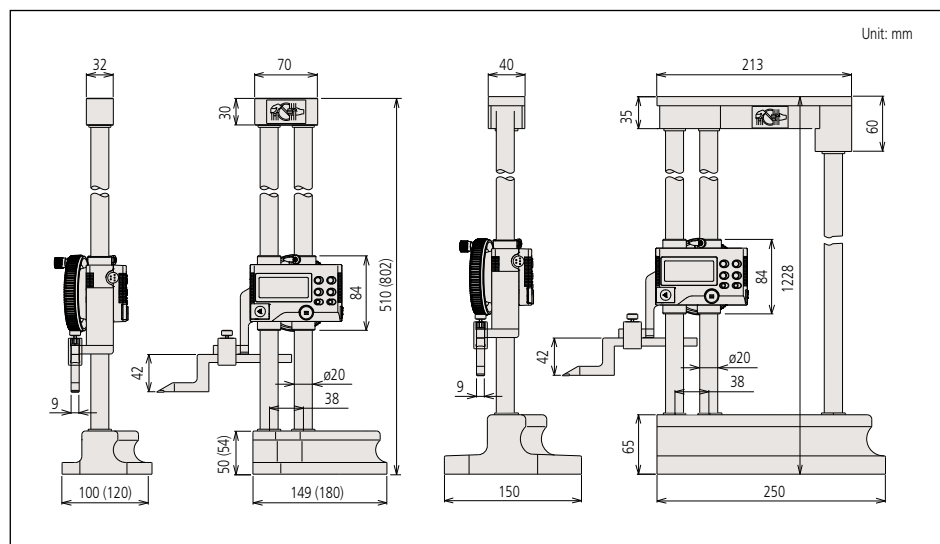
192-663-10

SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 300mm	192-663-10	±0.02mm
0 - 600mm	192-664-10	±0.04mm
0 - 1000mm	192-665-10	±0.06mm

Inch/Metric		
Range	Order No.	Accuracy
0 - 12"	192-670-10	±.001"
0 - 18"	192-671-10	±.0015"
0 - 24"	192-672-10	±.0015"
0 - 40"	192-673-10	±.0025"

DIMENSIONS



Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Resolution: 0.01mm (0.005mm) or
.0005"/0.01mm (.0002"/0.005mm)
Repeatability: 0.01mm
Display: LCD, 6-digit
Max. response speed: 500mm/s
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3,500 hours under normal use

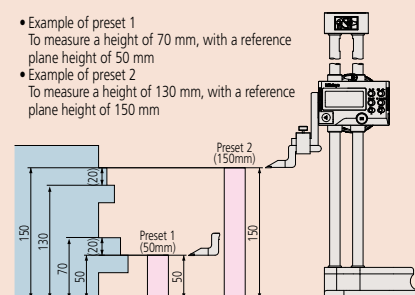
Functions

Zero-setting, ABS/INC switching, Presetting (2 positions), Probe tip diameter compensation, +/- switching, Power ON/OFF, Data hold, Data output, inch/mm conversion (inch/mm models), Probe-ball diameter correction

Alarm: Low voltage, Counting value composition error

Presetting (2 positions)

- Example of preset 1
To measure a height of 70 mm, with a reference plane height of 50 mm
- Example of preset 2
To measure a height of 130 mm, with a reference plane height of 150 mm



Standard Scribe Provided

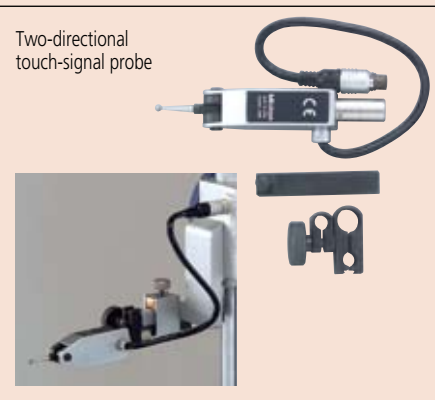
Metric models: Carbide-tipped scribe (**905200**) and scribe clamp (**05GZA033**)

Inch/Metric models: Carbide-tipped scribe (**905201**) and scribe clamp (**901385**)

Optional Accessories

- 905338**: SPC cable (1m)
- 905409**: SPC cable (2m)
- 905691**: SPC cable (L-shape, 1m)
- 905692**: SPC cable (L-shape, 2m)
- 02AZD790F**: SPC cable for U-WAVE(160mm)
- 192-007**: Two-directional touch-signal probe (metric)
- 192-008**: Two-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)

Two-directional touch-signal probe





Technical Data

Accuracy: Refer to the list of specifications.
(excluding quantizing error)
Resolution: 0.01mm (0.005mm) or
.0005"/0.01mm (.0002"/0.005mm)
Repeatability: 0.01mm
Display: LCD, 6-digit
Max. response speed: 500mm/s
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 3,500 hours under normal use

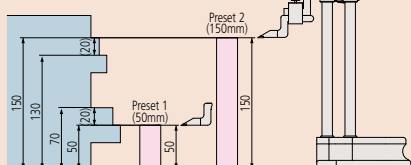
Functions

Zero-setting, ABS/INC switching, Presetting (2 positions),
Probe tip diameter compensation, +/- switching, Power ON/
OFF, Data hold, Data output, inch/mm conversion (inch/mm
models)

Alarm: Low voltage, Counting value composition error

Presetting (2 positions)

- Example of preset 1
To measure a height of 70 mm, with a reference
plane height of 50 mm
- Example of preset 2
To measure a height of 130 mm, with a reference
plane height of 150 mm



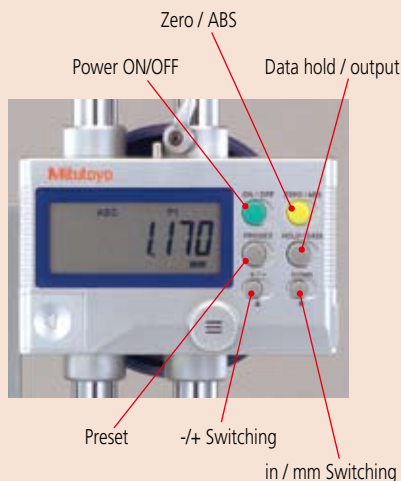
Standard Scriber Provided

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

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

Optional Accessories

- 905338:** SPC cable (1m)
905409: SPC cable (2m)
905691: SPC cable (L-shape, 1m)
905692: SPC cable (L-shape, 2m)
02AZD790F: SPC cable for U-WAVE (160mm)
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)



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.
- SPC data output.



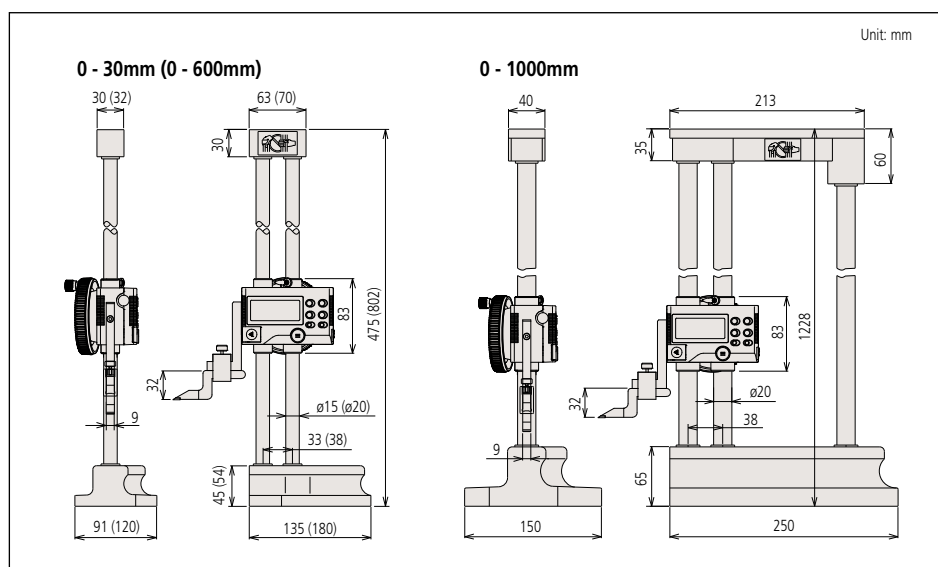
192-613-10

SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 300mm	192-613-10	±0.02mm
0 - 600mm	192-614-10	±0.05mm
0 - 1000mm	192-615-10	±0.07mm

Inch/Metric		
Range	Order No.	Accuracy
0 - 12"	192-630-10	±.001"
0 - 18"	192-631-10	±.002"
0 - 24"	192-632-10	±.002"
0 - 40"	192-633-10	±.003"

DIMENSIONS



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 over-speed errors cannot occur.
- Fine-adjustment for precise positioning.
- Carbide-tipped scriber is provided.
- SPC data output.



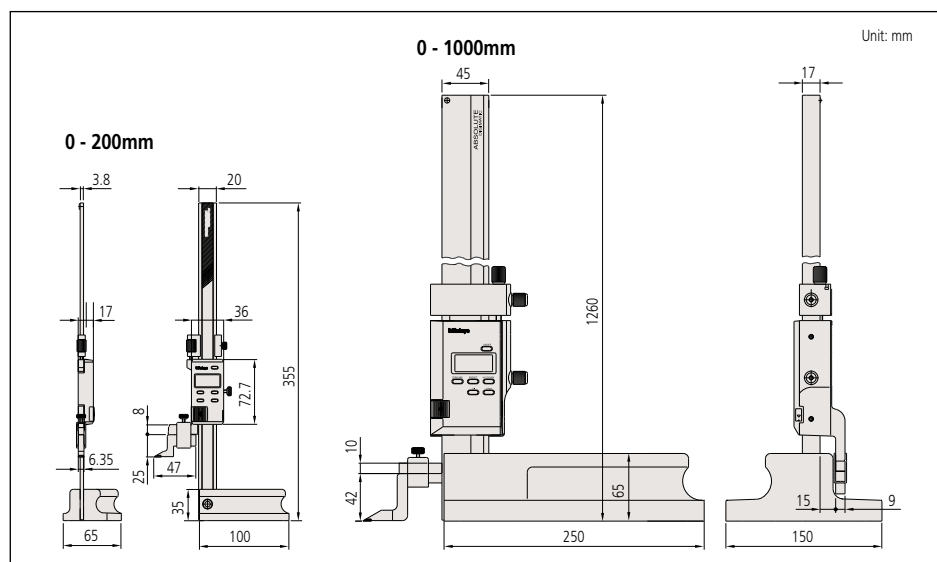
570-227

SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 200mm	570-227	±0.03mm
0 - 1000mm	570-230	±0.07mm

Inch/Metric		
Range	Order No.	Accuracy
0 - 8"	570-244	±.002"
0 - 40"	570-248	±.003"

DIMENSIONS



SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

(Refer to page IX for details.)

Technical Data

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

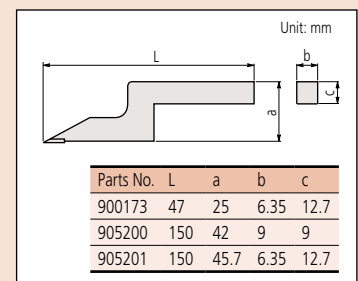
Functions

Origin setting, ABS/INC switching, Presetting, +/- switching,
Data hold, Data output, inch/mm conversion (inch/mm
models)
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

Dimensions of scriber



Optional Accessories

905338: SPC cable (1m)
905409: SPC cable (2m)
02AZD790F: SPC cable for U-WAVE (160mm)
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.
(excluding quantizing error)
Resolution: 0.01mm or .0005"/0.01mm
Repeatability: 0.01mm
Display: LCD, 6-digit
Scale type*: ABSOLUTE electrostatic linear encoder
Max. response speed: Unlimited
Battery: SR44 (1 pc.), **938882**
Battery life: Approx. 20000 hours under normal use

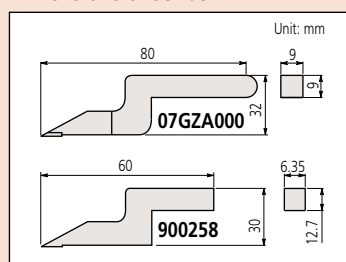
Functions

Origin setting, ABS/INC switching, Power ON/OFF, Data hold,
Data output, inch/mm conversion (inch/mm models)
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**)

Dimensions of scriber



Optional Accessories

905338: SPC cable (1m)
905409: SPC cable (2m)
02AZD790F: SPC cable for U-WAVE (160mm)
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



Fits the hand comfortably

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 over-speed errors cannot occur.
- Rigid column structure ensures high measuring accuracy.
- With large and smooth slider feed wheel.
- Carbide-tipped scriber is provided.
- SPC data output.

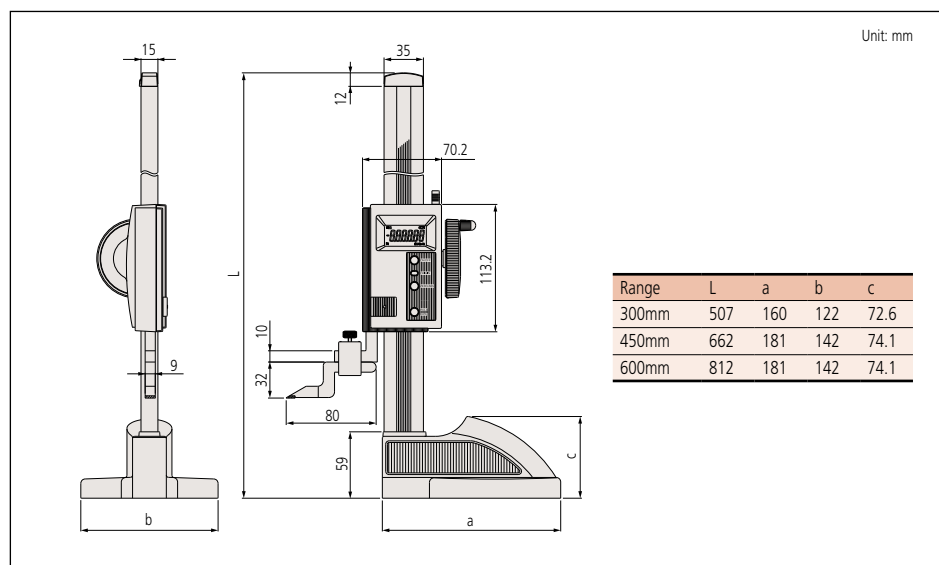


SPECIFICATIONS

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

Inch/Metric		
Range	Order No.	Accuracy
0 - 12"	570-312	±.0015"
0 - 18"	570-313	±.002"
0 - 24"	570-314	±.002"

DIMENSIONS



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 feed.
- Carbide-tipped scriber is provided.



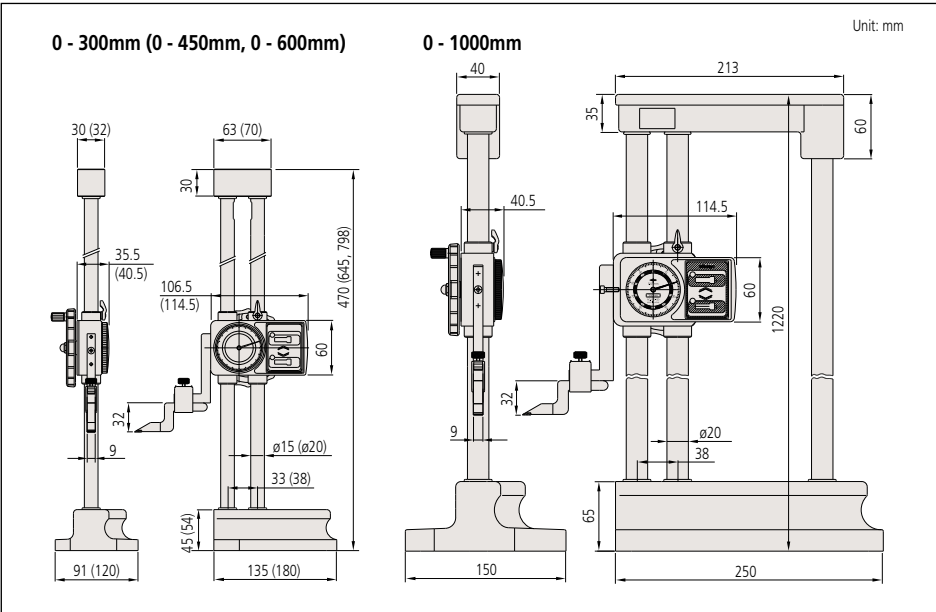
192-130

SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 300mm	192-130	±0.03mm
0 - 450mm	192-131	±0.05mm
0 - 600mm	192-132	±0.05mm
0 - 1000mm	192-133	±0.07mm

Inch		
Range	Order No.	Accuracy
0 - 12"	192-150	±.0015"
0 - 18"	192-151	±.002"
0 - 24"	192-152	±.002"
0 - 40"	192-153	±.003"

DIMENSIONS



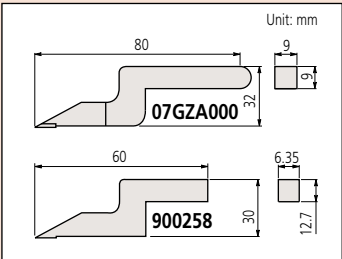
Technical Data

Accuracy: Refer to the list of specifications.
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)



Fits the hand comfortably



Easy and secure clamping



Easy and error free reading

Dial Height Gage

SERIES 509

FEATURES

- Easy and error-free reading with a dial.
- Made of stainless steel throughout.
- Provided with a feed wheel for easy coarse feed.
- Carbide-tipped scriber is provided.

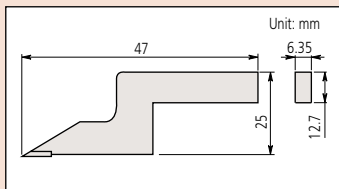
Technical Data

Accuracy: Refer to the list of specifications.
Dial reading: 0.02mm or .001"

Standard Scriber Provided

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

Dimensions of scriber



Optional Accessories

953639: Holding bar for test indicator (length: 50mm)
900322: Swivel clamp used with holding bar



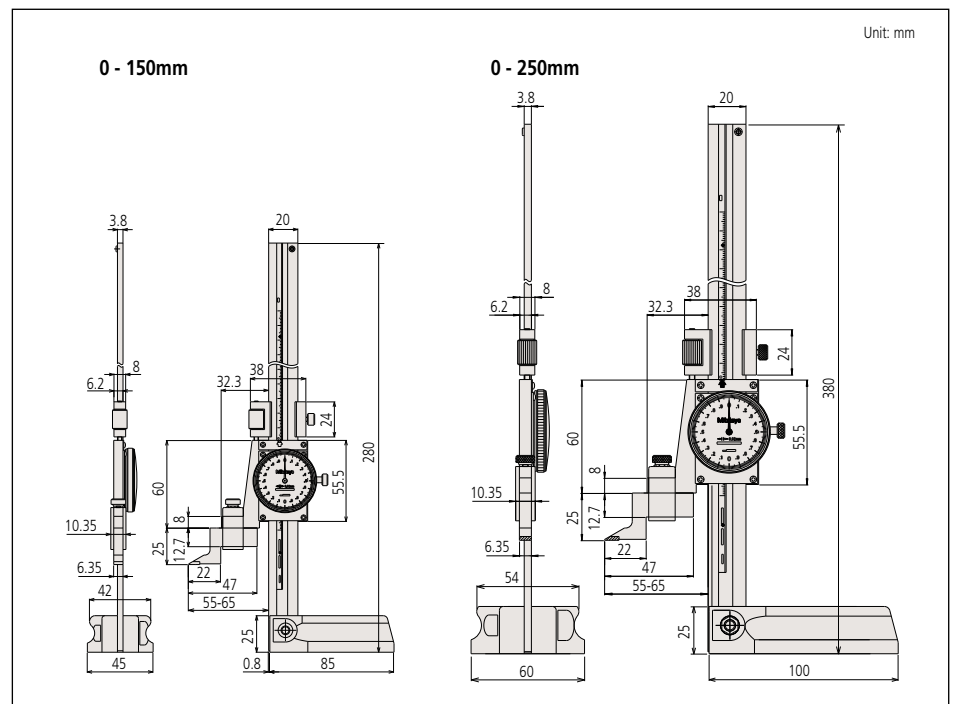
509-301

SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 150mm	509-301	±0.03mm
0 - 250mm	509-302	±0.04mm

Inch/Metric		
Range	Order No.	Accuracy
0 - 6"	509-313	±.001"
0 - 10"	509-314	±.0015"

DIMENSIONS



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.
- Reading the Vernier scales can be assisted by an optional magnifier.
- Carbide-tipped scriber is provided.



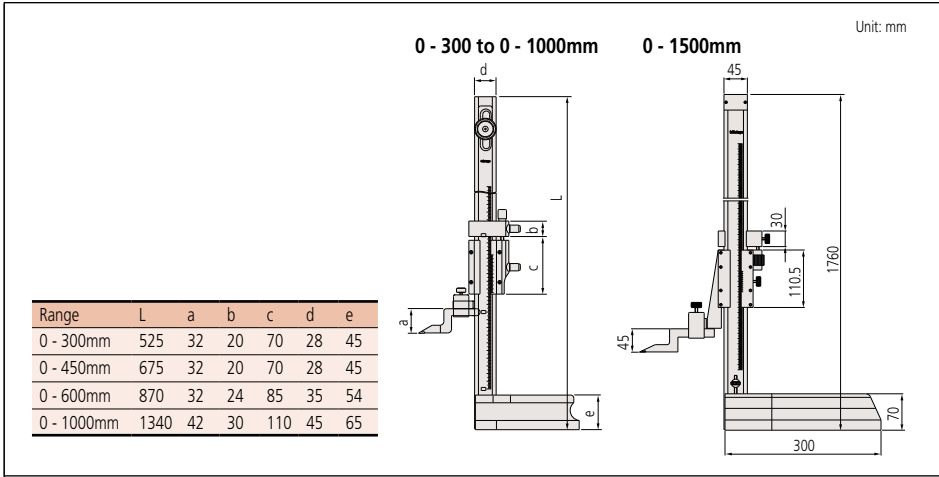
514-102

SPECIFICATIONS

Metric						
Range	Order No.	Accuracy	Resolution	Scale adjustment	Fine feed	Remarks
0 - 300mm	514-102	±0.04mm	0.02mm	15mm	4mm	—
0 - 450mm	514-104	±0.05mm	0.02mm	15mm	4mm	—
0 - 600mm	514-106	±0.05mm	0.02mm	15mm	7mm	—
0 - 1000mm	514-108	±0.07mm	0.02mm	25mm	6mm	—
0 - 1500mm	514-170	±0.18mm	0.05mm	25mm	20mm	with magnifier

Inch/Metric						
Inch model with inch/metric double scale						
Range	Order No.	Accuracy	Resolution	Scale adjustment	Fine feed	Remarks
0 - 12"	514-103	±.002"	.001"/0.02mm	.6"	.16"	—
0 - 18"	514-105	±.002"	.001"/0.02mm	.6"	.16"	—
0 - 24"	514-107	±.002"	.001"/0.02mm	.6"	.27"	—
0 - 40"	514-109	±.003"	.001"/0.02mm	1"	.24"	—

DIMENSIONS



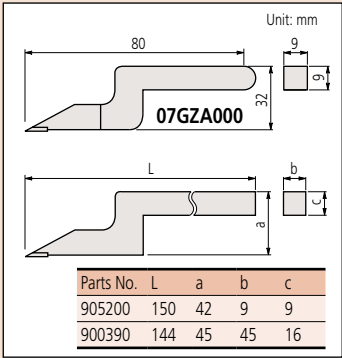
Technical Data

Accuracy: ±0.04mm (≤300mm), ±0.05mm (≤600mm), ±0.07mm (≤1000mm), ±0.18mm (≤1500mm)
Graduation: 0.02mm or .001" (0.02mm)
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**)

Dimensions of scriber



Optional Accessories

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



Vernier Height Gage

SERIES 506 — Lightweight Height Gage

FEATURES

- Lightweight type can measure easily the height of small parts.
- Stain chrome finished scales for glare-free reading.
- Beam and slider are made of stainless steel.
- Carbide-tipped scriber is provided.



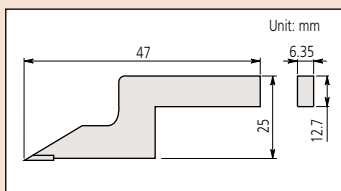
Technical Data

Accuracy: $\pm 0.03\text{mm}$ ($\leq 200\text{mm}$), $\pm 0.04\text{mm}$ ($\leq 250\text{mm}$),
Graduation: 0.02mm or $.001''$ (0.02mm)

Standard Scriber Provided

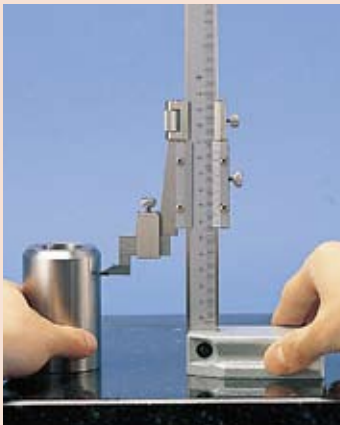
Carbide-tipped scriber (**900173**) and scriber clamp (**901338**)

Dimensions of scriber



Optional Accessories

953639: Holding bar for test indicator (length: 50mm)
900322: Swivel clamp used with holding bar



SPECIFICATIONS

Metric

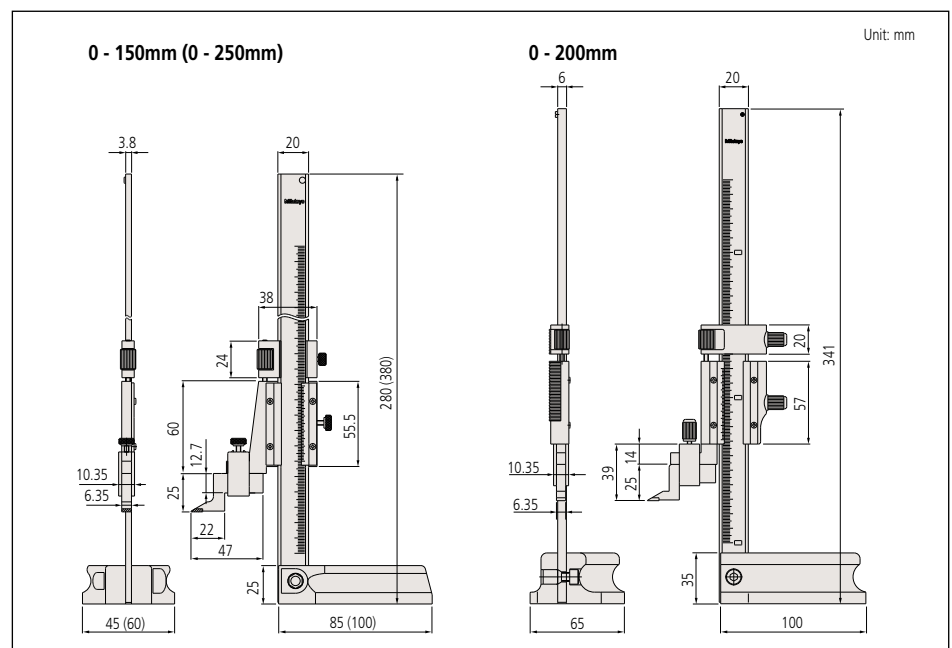
Range	Order No.	Accuracy	Resolution	Remarks
0 - 150mm	506-201	$\pm 0.03\text{mm}$	0.02mm	—
0 - 200mm	506-207	$\pm 0.03\text{mm}$	0.02mm	—
0 - 250mm	506-204	$\pm 0.04\text{mm}$	0.02mm	—

Inch/Metric

Inch model with inch/metric double scale

Range	Order No.	Accuracy	Resolution	Remarks
0 - 6"	506-202	$\pm .001''$	$.001''/0.02\text{mm}$	—
0 - 8"	506-208	$\pm .001''$	$.001''/0.02\text{mm}$	—
0 - 10"	506-205	$\pm .0015''$	$.001''/0.02\text{mm}$	—

DIMENSIONS



CERA Caliper Checker

SERIES 515

FEATURES

- The CERA Caliper Checker is designed to set and inspect vernier, dial and Digimatic calipers of various types. It is comprised of permanently wrung, high-grade CERA gauge blocks in a protective casting.
- The CERA Caliper Checker also stands perpendicular to a surface for height gage inspection.
- Each measuring block (CERA block) is made of zirconia-based ceramic that is free from deterioration and dimensional change over time.

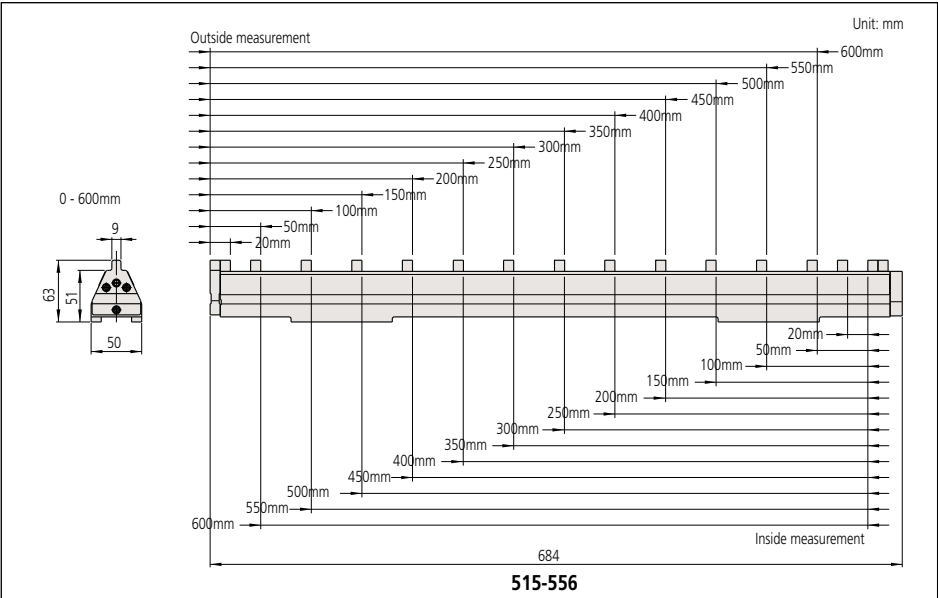
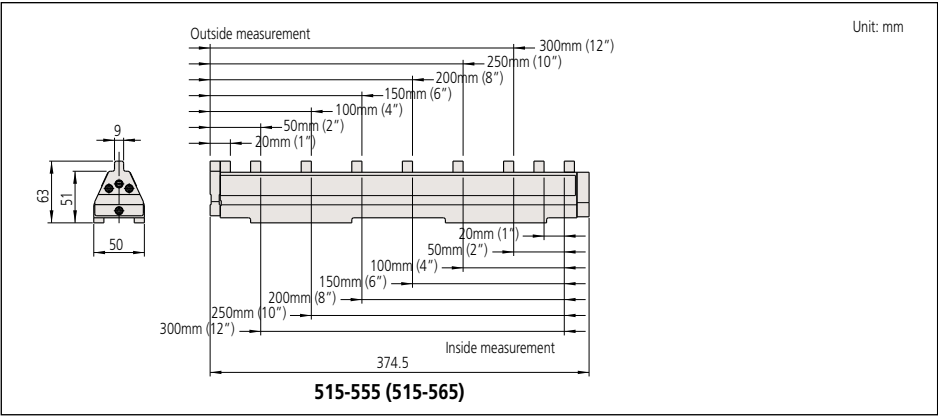


SPECIFICATIONS

Metric		
Range	Order No.	Reference checking lengths available
0 - 300mm	515-555	Outside measurement: 20, 50, 100, 150, 200, 250, 300mm Inside measurement: 20, 50, 100, 150, 200, 250, 300mm
0 - 600mm	515-556-2	Outside measurement: 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600mm Inside measurement: 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600mm

Inch		
Range	Order No.	Reference checking lengths available
0 - 12"	515-565	Outside measurement: 1", 2", 4", 6", 8", 10", 12" Inside measurement: 1", 2", 4", 6", 8", 10", 12"

DIMENSIONS



(Refer to page IX for details.)

Technical Data

Block pitch accuracy: $\pm 0.005\text{mm}$ for range up to 300mm
 $\pm 0.007\text{mm}$ 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



Checking a caliper

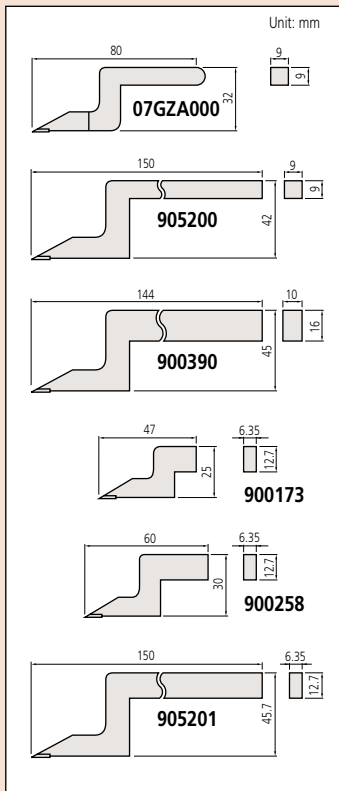


Checking a height gage

Carbide-tipped Scriber

Optional Accessory for Height Gages

Dimensions of scriber



FEATURES

- Hard-wearing scribers are available for each height gage.

SPECIFICATIONS

Metric	
Order No.	Applicable height gages
07GZA000	192 Series Digimatic height gages (192-613-10, 192-614-10, 192-615-10) 570 Series Digimatic Height Gages (570-302, 570-304) 192 Series Dial Height Gages (192-130, 192-131, 192-132, 192-133) 514 Series Vernier Height Gages (514-102, 514-104, 514-106, 514-103, 514-105, 514-107) 574 Series Heightmatic (574-112-1, 574-111-1, 574-110-1)
905200	192 Series Digimatic Height Gages (192-663-10, 192-664-10, 192-665-10) 570 Series Digimatic Height Gages (570-230) 514 Series Vernier Height Gages (514-108, 514-109)
900390	514 Series Vernier Height Gage (514-170)

Inch	
Order No.	Applicable height gages
900173	570 Series Digimatic height gages (570-227, 570-244) 506 Series Vernier Height Gages (506-201, 506-202, 506-204, 506-205, 506-207, 506-208) 509 Series Vernier Height Gages (509-301, 509-302, 509-313, 509-314)
900258	192 Series Digimatic Height Gages (192-630-10, 192-631-10, 192-632-10, 192-633-10) 570 Series Digimatic Height Gages (570-312, 570-313, 570-314) 574 Series Heightmatic (574-212-1, 574-211-1, 574-210-1)
905201	192 Series Digimatic Height Gages (192-670-10, 192-671-10, 192-672-10, 192-673-10) 570 Series Digimatic Height Gages (570-248)

Optional Accessories

Optional Accessories for Height Gages



Contact Sensor

FEATURES

- The contact sensor eliminates errors caused by non-contact of the slider with a workpiece while taking measurements. When the scriber of a height gage touches a conductive workpiece, an indicator will light up to indicate that a measurement can be taken, which will result in consistent results.
- Battery (2 pcs. PR44 required) is not included.

SPECIFICATIONS

Order No.: 900872



Center Probe

FEATURES

- Allows quick measurement of center-to-center distance between holes.
- Measurable hole diameters: 1 - 38mm

SPECIFICATIONS

Order No.: 951144 (with metric type holding bar)
900581 (with inch type holding bar)



Depth Gage Attachment

FEATURES

- Attaches to a height gage for measuring groove and hole depth.
- Minimum hole diameter: 5.5mm
- Maximum distance from the bottom of the holding bar to the contact point: 80mm (metric type), 2.95" (inch type)
- Dial indicator contact points are usable.

SPECIFICATIONS

Order No.: 900878 (with inch type holding bar)
900764 (with metric type holding bar)

Linear Height

SERIES 518 — High Performance 2D Measurement System

FEATURES

- Excellent accuracy of $(1.1+0.6L/600)\mu\text{m}$ with $0.1\mu\text{m}/0.4\mu\text{m}$ resolution / repeatability.
- Perpendicularity (frontal) of $5\mu\text{m}$ and straightness of $4\mu\text{m}$ are guaranteed.
- Pneumatic full / semi-floating system allows adjustment of air-cushion height.
- Basic statistical functions are provided and, additionally, RS-232C 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.
- Choice of message language in English, German, French, Spanish, Italian, Dutch, Portuguese, Swedish, Czech, Hungarian, Slovenian, Polish, Turkish, Traditional Chinese*, Korean** and Japanese for user-friendly operation.

*Optional **518-341K and 518-342K only



518-341A-21



518-342A-21
(with power grip)



SPECIFICATIONS

Inch/Metric	
Order No.	Remarks
518-341A-21 / 518-342A-21*	120V w/ English manual
518-341A-22 / 518-342A-22*	120V w/ Spanish manual
518-341D-21 / 518-342D-21*	220V w/ English manual
518-341D-22 / 518-342D-22*	220V w/ Spanish manual
518-341D-23 / 518-342D-23*	220V w/ German manual
518-341D-24 / 518-342D-24*	220V w/ French manual
518-341D-25 / 518-342D-25*	220V w/ Italian manual
518-341E-21 / 518-342E-21*	240V w/ English manual
518-341DC / 518-342DC*	220V w/ Chinese manual
518-341K / 518-342K*	220V w/ Korean manual

*Power grip pre-installed models

Inch/Metric Large capacity battery Type

Order No.	Remarks
518-343A-21 / 518-344A-21*	120V w/ English manual
518-343A-22 / 518-344A-22*	120V w/ Spanish manual
518-343D-21 / 518-344D-21*	220V w/ English manual
518-343D-22 / 518-344D-22*	220V w/ Spanish manual
518-343D-23 / 518-344D-23*	220V w/ German manual
518-343D-24 / 518-344D-24*	220V w/ French manual
518-343D-25 / 518-344D-25*	220V w/ Italian manual
518-343E-21 / 518-344E-21*	240V w/ English manual
518-343DC / 518-344DC*	220V w/ Chinese manual
518-343K / 518-344K*	220V w/ Korean manual

*Power grip pre-installed models



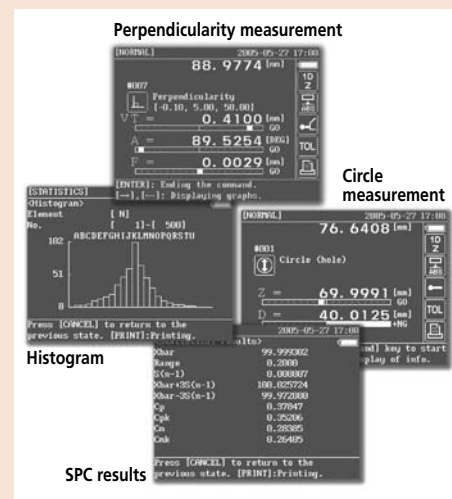
(Refer to page IX for details.)

Technical Data

Measuring range: 0 - 972mm
 Slider stroke: 600mm
 Resolution: 0.0001 / 0.001 / 0.01 / 0.1mm or (switchable) .000001" / .00001" / .0001" / .001"
 Accuracy at 20°C*: $(1.1+0.6L/600)\mu\text{m}$
 L = Measuring length (mm)
 Repeatability (2σ)*1: Plane: 0.4μm, Bore: 0.9μm
 Perpendicularity*2: 5μm (after compensation)
 Straightness*2: 4μm (mechanical straightness)
 Drive method: Manual / motor (5 - 40mm/s, 7 steps)
 Measuring force: 1N
 Balancing method: Counter balance
 Floating method: Full / semi-floating with built-in air compressor
 Display: Graphic LCD (320 x 240 dot, with back light)
 Language for display: English / German / French / Spanish / Italian / Dutch / Portuguese / Swedish / Turkish / Czech / Hungarian / Slovenian / Polish / Traditional Chinese (optional) / Korean (518-341K and 518-342K) / Japanese
 No. of stored programs: 50 programs (max.)
 No. of stored data: 60,000 data (max.)
 Power supply: AC adapter / battery (Ni-MH)
 Battery operation time: Approx. 5 hours (air floating & slider elevation : 25%)

*1It is guaranteed when using the standard eccentric ø5 probe.

*2It is guaranteed when using the Lever Head (MLH-321) or Mu-checker (M-411)



Optional Accessories

- 12AAC072:** Depth probe
12AAC073: $\phi 20$ mm taper probe
12AAA787: Block for calibrating probe diameter (applicable to taper probe)
12AAA792: Dial indicator ($\phi 8$ mm stem) holder
12AAA837: Dial indicator ($\phi 3/8$ " stem) holder
12AAA793: Probe extension holder (85mm/3.3")
12AAB136: $\phi 10$ mm cylindrical probe
932361: Mu-checker lever head holder
12AAF666: $\phi 1$ mm ball probe (coaxial type)
12AAF667: $\phi 2$ mm ruby ball probe (coaxial type)
957261: $\phi 2$ mm ball probe (coaxial type)
957262: $\phi 3$ mm ball probe (coaxial type)
957263: $\phi 4$ mm ball probe (coaxial type)
12AAB552: $\phi 10$ mm ball probe, L = 55mm (coaxial type)
12AAF668: $\phi 10$ mm ball probe, L = 82mm (coaxial type)
12AAF669: $\phi 10$ mm ball probe, L = 120mm (coaxial type)
12AAF670: $\phi 5$ mm disk probe
12AAF671: $\phi 10$ mm disk probe
957264: $\phi 14$ mm disk probe
957265: $\phi 20$ mm disk probe
12AAF672: $\phi 1$ mm ball offset probe
12AAF673: $\phi 2$ mm ball offset probe
12AAA788: $\phi 4$ mm ball offset probe
12AAA789: $\phi 6$ mm ball offset probe
226116: Test indicator ($\phi 6$ mm stem) adapter
226117: M2 CMM stylus adapter
226118: M3 CMM stylus adapter
 CMM ball and disk hard probes are available.
12AAF712: Battery pack
12AAG245: Large capacity battery pack
12AAF675: Large capacity battery set
12AAA796: Thermal receipt printer (220V)
12AAA797: Thermal receipt printer (120V)
12AAA802: Thermal receipt printing paper (10 pcs.)
12AAA804: Cable for page printer (2m)
12AAA807: RS-232C cable (2m/80")
12AAG920: RS-232C cable (3m/118")
12AAH035: USB-FDD unit



USB-FDD unit



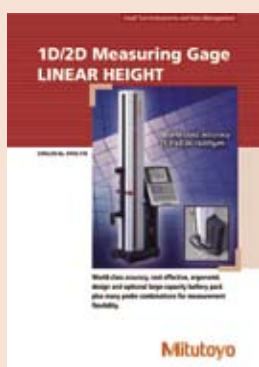
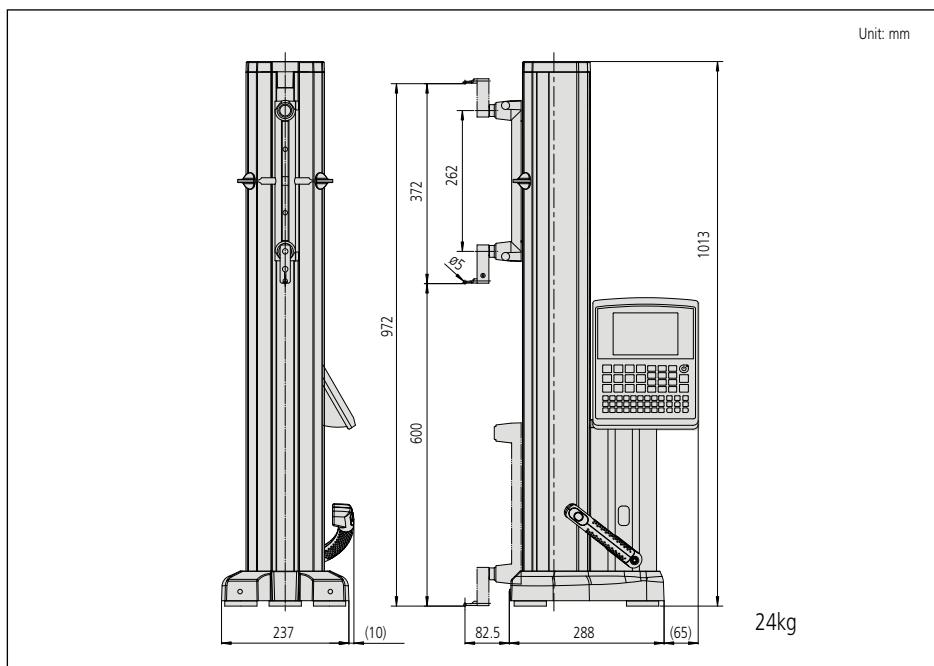
Thermal printer

Printer ON/OFF
Contents to be Printed : All Results in Command Menu

Point	X	Y	Z
W0001	1.002	2.002	
Circle			
W0002	1.995	2.001	
W0003	2.000	2.002	
Circle-Point Distance			
R1-2			
W0004	0.597	1.997	
W0005	0.003	0.997	
W0006	-0.001		
Start Pitch Measurement			
Pitch			
W0007	1.006	1.006	
W0008	0.005	18.2506	
Pitch			
W0009	0.982	0.982	

Sample of printout

DIMENSIONS AND MASS



Refer to the Linear Height leaflet (E4162) for more details.

