

## VERNIER HEIGHT GAGES

SERIES 216:

Amplly proportioned measuring beams and bases for extra rigidity.

- Satin - chrome Finish
- Double Spaced Vernier
- Vernier Scale : 1/1000" x 1/50mm
- Magnifying Glass
- Fitted Case

Sliding scale permitting all measurement to start from an even reference point.

Range	Order No.	Price
0-12"/0-300mm	1500112	
0-18"/0-450mm	1500118	
0-24"/0-600mm	1500124	



## MASTER VERNIER HEIGHT GAGES

STARRETT SERIES 254:

- Exceptionally stable and accurate with easy-reading vernier style.
- Long, 50-division vernier scales permit half as many graduations as single vernier tools.
- Widely spaced graduations make easy reading to .001" or 0.02mm without needing a magnifying glass.
- Flush fitting of the vernier scale to the main scale means that these are in the same plane, which eliminates parallax.
- Extremely fine adjustments are achieved by a knob located on the base.
- Quick-adjust release on the slide allows for fast positioning.
- Special master bar design and the balanced design and weight of the base eliminates vibration.
- Vertical bar is positioned near the center of the base for balance and stability.
- Versatile tool will scribe lines, mount dial indicators or electronic probes and accept depth attachments.
- Base is hardened, ground and lapped square.
- Fitted Case, Scriber.



**INCH READING** – Graduation - .001"

**METRIC READING** - Graduation - 0.02mm

Range	Catalog No.	EDP No.	Price
0-12"	254Z-12	51219	
0-18"	254Z-18	51220	
0-24"	254Z-24	51221	
0-36"	254Z-36	51222	
0-48"	254Z-48	51223	
0-300mm	254MZ-300	56214	
0-450mm	254MZ-450	56215	
0-600mm	254MZ-600	56216	
0-900mm	254MZ-900	56217	
0-12"/300mm	254EMZ-12	51224	
0-18"/450mm	254EMZ-18	51225	
0-24"/600mm	254EMZ-24	51226	

**MEDA**  
Superior Import

## FLUSH READING VERNIER HEIGHT GAGES

STARRETT SERIES 255:

Combines the right balance and weight for applications where a heavy duty gage is not practical. Features long 50-division vernier with widely spaced, easy-to-read graduations for simplified settings and readings without a magnifying glass. Open-face design with flush fitting of the vernier scale to the main scale, both the same plane, eliminates parallax. Satin chrome finish eliminates glare and improves readability. Surfaces hard chrome plated for resistance to rust and stain. Bar and vernier scale machine divided. Hardened and stabilized bar features straight and angular ways for positive alignment and easy adjustment. A hand-fitting natural grip base design permits direct readings from base over full range without calculations. Scriber has rounded point and cuts clean, sharp lines with minimum pressure. Furnished in case.

**Starrett**  
Made in U.S.A.



Range	Graduation	Catalog No.	EDP No.	Price
0 - 12"	.001"	255Z-12	51229	
0 - 18"	.001"	255Z-18	51231	
0 - 300mm	0.02mm	255MZ-300	56218	
0 - 18"/450mm	.001"/0.02mm	255EMZ-18	65160	

## DOUBLE BEAM HEIGHT GAGES WITH COUNTER

SERIES 216:

Furnished with two error proof digital counters which can be reset individually anywhere within the range for quick and easy upward and downward reading. The last digit on the counter is .1" or 1.0mm. The dial face is graduated in .001" or .01mm.

- Bottom surface of the base is stainless steel, hardened and ground
- With fine-adjusting wheel and lock
- Carbide tipped scriber



**MEDA**  
Superior Import

INCH			METRIC		
Range	Order No.	Price	Range	Order No.	Price
0-12"	2160000		0-300mm	2160003	
0-18"	2160001		0-450mm	2160004	
0-24"	2160002		0-600mm	2160005	

**Quality Precision Tools**

**MEDA**  
Superior Import

**Mitutoyo**

**Starrett**

**The Choice Is Yours!!!**

## SERIES ELECTRONIC HEIGHT GAGE

STARRETT SERIES 3751:

0-6" / 150mm (without output)

This height gage is light, portable and easy to use for vertical measurements within its range.

### Readability Features

- Easy-to-read LCD .32" high characters

### Accuracy and Long Life Design Features

- Hardened, stainless steel bar for long life
- Depth attachment PT08680A available for measuring depth of holes, slots, and recesses
- Fine adjustment thumb roll for precision measurements
- Rounded nose scribe cuts clean, sharp lines with smoothness and less pressure
- Lock to hold the slide in position
- Hardened, ground, and lapped base with finger grooves provides ease of movement
- Vertical bar is back from the edge of the nose for better stability
- Scribe can reference zero from the bottom of the base to get the full 6" (150mm) usable range

### Action Features with Three Control Buttons

- Inch-millimeter conversion
- Zero at any position
- Manual ON/OFF plus a built in automatic OFF after 5 minutes of nonuse

### (0-6"/150mm Range)

Catalog No.	EDP	Description	Price
3751AZ-6/150	912221	Height Gage, in Case	
<b>Accessories and Cables for 3751 Electronic Height Gage</b>			
PT99492	65650	One 3-Volt Batteries, CR2032	
PT08680A	51383	Depth Attachment	

Starrett



• Linear Accuracy:  $\pm .001"$  ( $\pm 0.0254$  mm)  
• Resolution: .0005" (0.0127 mm)

## ELECTRONIC DIGITAL DOUBLE BEAM HEIGHT GAGES

SERIES 725:

MEGA  
Superior Import

MADE OF STAINLESS STEEL

### FEATURES

- Rigid twin column structure
- 6 digit LCD display and minus sign (-)
- Large size feed wheel
- Lock on measuring slider
- Battery furnished
- Carbide tipped scribe

### FUNCTIONS

- Zero setting,
- Inch/mm conversion
- Data hold
- Plus/minus presetting



Range	Graduation	Order No.	Price
0-12"/0-300mm	.001"/.01mm	7255012	
0-18"/0-450mm	.001"/.01mm	7255018	
0-24"/0-600mm	.001"/.01mm	7255024	

## DIGIMATIC HEIGHT GAGES

MIT SERIES 192:

Mitutoyo

Self-contained Electronic  
Inch/Metric Display.

## DIGITAL COUNTER TYPE HEIGHT GAGES

MIT SERIES 192:

### FEATURES

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

### INCH

Order No.	Range	Accuracy	Price
192-150	0-12"	$\pm .0015"$	
192-151	0-18"	$\pm .002"$	
192-152	0-24"	$\pm .002"$	
192-153	0-40"	$\pm .003"$	

Digital Counter Graduation: .1" (Dual Reading)

Dial Graduation: .001"

Standard Accessories: Scribe 900258 Scribe Clamp 901385

### METRIC

Order No.	Range	Accuracy	Price
192-130	0-300mm	$\pm 0.03$ mm	
192-131	0-450mm	$\pm 0.05$ mm	
192-132	0-600mm	$\pm 0.05$ mm	
192-133	0-1000mm	$\pm 0.07$ mm	

Digital Counter Graduation: 1.0mm" (Dual Reading)

Dial Graduation: 0.01mm"

Standard Accessories: Scribe 07GZA000, Scribe Clamp 07GZA002

Mitutoyo



### FEATURES

- Easy-to-use design.
- Double-column structure ensures high measuring accuracy.
- Display: LCD Height .394", 6 digits and a minus sign (-).
- Carbide-tipped scribe.
- Dust/water protection level conforms to IP-40 standards.
- Optional wooden case available.

### FUNCTIONS

- Zero/ABS Setting (ABS and INC modes)
- Preset Value Memory (ABS mode)
- Data Hold
- Presetting (ABS and INC modes)
- $\pm$ Counting Direction Changeover
- Inch/mm Conversion
- Coarse/Fine Feed Switching
- Over-speed Alarm
- Low Battery Alarm.



### INCH/METRIC

Order No.	Range	Accuracy	Price
192-630	0-12"/0-304.8mm	$\pm .001"$	
192-631	0-18"/0-457.2mm	$\pm .002"$	
192-632	0-24"/0-609.6mm	$\pm .002"$	
192-633	0-40"/0-1016mm	$\pm .003"$	

Resolution: .0005"/0.01mm

Quantizing Error:  $\pm 1$  count

Response Speed: 19.69"/s (500mm/s)

Power Supply: One CR2032 Lithium cell 05SAA217

Standard Accessories: Scribe 900258, Scribe clamp 901385, One CR2032 Lithium Cell 05SAA217

## ELECTRONIC HEIGHT GAGES

SERIES 725:

Rugged construction of stainless steel with no rack, no pinion, and no glass scale.

### FEATURES:

- 5 Digit high contrast display
- Inch / Metric switch
- Floating "Zero" reference point
- Resolution  $\pm .0005"$  / 0.01mm
- Accuracy .001"
- Includes: fitted case / battery



Range	Order No.	Price
0-12"/0-300mm	7251112	
0-18"/0-450mm	7251118	
0-24"/0-600mm	7251124	

## HEAVY DUTY DIGIMATIC HEIGHT GAGES

MIT SERIES 192:

### FEATURES

- Two measuring modes, ABS (absolute) and INC (incremental), for increased inspection efficiency.
- Rigid construction ensures repeatable measurements.
- Bi-directional touch signal probe for improved efficiency and reliability of measurement.
- (192-008) Optional Accessory below
- Display: LCD, Height .394", 6 digits and a minus sign (-).

### FUNCTIONS

- Zero/ABS setting (ABS and INC modes)
- Origin restoration
- Presetting (ABS and INC modes)
- Preset value memory (ABS mode)
- Data hold
- Inch/mm conversion
- Coarse/Fine Feed switching
- Counting direction
- Error alarm, Low battery alarm.
- Provided with a data output port for connection with the SPC system.
- Standard scriber and optional long scriber (5.90") both carbide-tipped.

### CONTROL PANEL FEATURES

- On/Off switch • Inch/Metric switch • Zero/ABS switch
- Data/Hold switch • Preset switch (for all digits)
- Counting direction switch



Shown with  
192-008 Probe

### INCH/METRIC

Order No.	Range	Accuracy	Price
192-670	0-12"/ 0-304.8mm	$\pm .001"$	
192-671	0-18"/ 0-457.2mm	$\pm .0015"$	
192-672	0-24"/ 0-609.6mm	$\pm .0015"$	
192-673	0-40"/ 0-1016mm	$\pm .0025"$	

Resolution: .0005"/0.01mm

Quantizing:  $\pm 1$ count

Response Speed: 19.69"/s (500mm/s)

Power Supply: One CR2032 Lithium cell No. 05SAA217

Data Output: Digimatic code output.

Standard Accessories: Scriber 905201, Scriber Clamp 901385

One CR2032 Lithium cell 05SAA217

Optional Accessories: Two-Directional Touch Probe 192008\*

For SPC output order Connecting Cable No. 905338 (1m) or 905409 (2m)

### \*TOUCH PROBE

Measuring Direction:	Two-Directions
Over Travel:	.06" (1.5mm)
Repeatability:	.00008" (2 $\mu$ m)
Measuring Force:	0.4N
Contact Point:	.12" (3mm) carbide ball

## HDS DIGIMATIC HEIGHT GAGES WITH ABSOLUTE ENCODER

MIT SERIES 570:

### FEATURES:

- Can easily measure the height of small parts.
- Feed Wheel.
- Display: Easy-to-read large LCD display, 6 digit and minus sign (-)
- Absolute encoder for direct measurement from power on.
- Economical energy-saving design.
- Unlimited response speed.

	570-312*	570-313*	570-314*
Measuring Range	0-12"/300mm	0-18"/450mm	0-24"/600mm
Resolution	.0005"/0.01mm		
Accuracy	$\pm .0015"$		$\pm .002"$
Repeatability	.0005" (0.01mm)		
Power Supply	Silver oxide cell (SR-44) 1pc 541980		
Data Output	Digimatic code output (SPC output)		
Mass	10.12 lbs	12.98 lbs	14.08 lbs
Standard Accessories	Scriber 900258 Scriber Clamp 901385 SR-44 battery 1 pc.		

\* For SPC output order connecting cable 905338 (1m) or 905409 (2m).  
Replacement battery: 541980 (1pc.), 541980-10 (10 pcs./SET)



- Functions include: Zero-setting (ABS and INC modes), Presetting (ABS and INC modes), Hold / Data button, Counting direction changeover, Inch/mm conversion, Data output, Inch/mm conversion, Data output, Error alarm, Low battery alarm, On/Off, Origin.
- Provided with a data output port for connection with the SPC system.\*
- Battery Life: (Approx.) 20,000 hours of continual use.

Order No.	Price
570-312	
570-313	
570-314	

Mitutoyo

Mitutoyo

**ELECTRONIC HEIGHT GAGES**

STARRETT SERIES 3752:

The 3752 Electronic Height Gage is a full featured, versatile and economic solution for most height measurement applications. All measuring information from these tools can be entered directly into Starrett Data Collection Systems for analysis, data collection and hard copy documentation. They are available in 0-12" and 0-24" ranges.

**Readability and Control Features**

- Clear bar graduations in .100" and 5mm increments
- Large (.380"/9.65mm), easy-to-read LCD display reads to .0005" or 0.01mm
- Instant inch-millimeter conversion
- Carrier and scribe designed to read from zero
- "Hold" control feature retains a reading at any position
- Plus or minus indication allows reading in proper direction
- Ability to set zero at any position
- Manual on/off plus a built-in automatic off after 30 minutes of nonuse

**Full Function Action Features**

- Large positive action keypad
- Ability to retain and return to the true zero reading of the height gage
- PRESET button to install any reading at any position
- Ability to install minimum and maximum limits
- RS232 data output port
- Works well with Starrett Datasure® Wireless Data Collection Systems

**Battery Life**

- 1-1/2+ years battery life. Two 3-volt batteries furnished (CR2450)



• Linear Accuracy:  $\pm .001"$  ( $\pm 0.02mm$ )  
• Resolution: .0005" (0.01mm)

Height Gage shown with optional Auxiliary Circular Carbide Scriber, PT 28131. Gages are furnished with Auxiliary Straight Carbide Scriber, TP 22357.

**Specifications for 3752 Electronic Height Gages**

Resolution	.0005" (0.01mm)
Graduations	.100" (5mm)
Overall Accuracy	$\pm .0015"$ (.04mm) 0-18" (0-450mm) $\pm .002"$ (.05mm) 18-24" (450-600mm)
Battery Life	Over 1-1/2 Years Average Use

**3752 Electronic Height Gages**

Range	Description	Catalog No.	EDP	Price
0-12" (300mm)	Height Gage without Case	3752-12/300	68815	
0-24" (600mm)		3752-24/600	68816	

**Cables, Accessories, Cases**

Description	Catalog No.	EDP	Price
Shielded Cable to Starrett 761/772 Series Modules, PT61768 Adaptor	PT22938	64059	
Interface Adaptor for Starrett Tools to PC	PT61768	66454	
3-Volt Battery, CR2450 (2) Required	PT61120	65446	
Wood Case Only for 12" Gage	928	55249	
Wood Case Only for 24" Gage	945	56684	

Furnished without case unless otherwise ordered.



While we show the most popular **Starrett** items, we can supply their entire range of products; please inquire.

**DIAL TRAVEL INDICATORS**

SERIES 220:

**MEGA**  
Superior Import


These Indicators are graduated in .001" or .01mm with the second hand reading every .010" or .1mm. Range per revolution .10" or 1.0mm. Reading 0-100. Back has clamping lug.

Travel	White Face		Black Face	
	Order No.	Price	Order No.	Price
1/4"	1530025		-	
1/2"	1530005		-	
1"	1530010		1530011	
2"	1530020		1530021	
10mm	1530000		-	
25mm	1530100		-	

**MAGNETIC BASE & INDICATOR SETS**

SERIES 221:

**MEGA**  
Superior Import


Magnetic Base	Indicator	Order No.	Price
Standard	1" Travel	1540001	
Fine/Adj.	1" Travel	1540006	

**MAGNETIC BACK FOR DIAL INDICATOR**

SERIES 221:

**Product Description**

- Permanent powerful magnet
- Attaches to the back of 2" diameter AGD dial indicators



Diameter		Thickness	
in.	mm	in.	mm
2-1/4"	57	1/2"	12.5

Order No.: 2210000

Price

**DIAL INDICATORS - MINIATURE**

STARRETT SERIES 80:

**Starrett**


Starrett AGD dial indicators have a hardened stainless steel rack, pinions and gears which resist shock and extend wear life to a remarkable degree. These moving parts are finished to extremely fine tolerances, delivering a smooth, sensitive action that minimizes friction and lost motion and insures precise repetitive readings.

**MINIATURE DIAL INDICATORS -****1-1/4" DIAL DIAMETER, 7/32" STEM**

Similar in design to AGD dial indicators, these miniatures are built for measuring bed travel on machines, gaging fixtures and for gaging dimensions in tight places. Equipped with high precision, low friction movements, they are made in three models, all with frictionally adjustable bezels for quick, positive zero setting. No glare, white eggshell finish dials, black bezel, satin chrome finish on case, furnished with balanced dial, jeweled bearings and lug-on-center back.

Grad.	Reading	Total Range	Range One Rev.	Catalog No.	EDP No.	Price
.001"	0-20-0	.100"	.040"	80-144J	55893	
.0005"	0-10-0	.050"	.020"	80-134J	55892	
.0001"	0-2-0	.010"	.004"	80-114J	55891	