



TOOLS NORTH AMERICA INC

# TOOL-A-THON



**Volume 22.2**

Valid July 1<sup>st</sup> - December 31<sup>st</sup>, 2022



## Sylvac S\_Cal EVO Electronic Calipers



### Features:

- IP67 protected against fluid and dust
- Available with or without Bluetooth
- Heavy duty frame
- Extra large display
- Available with ISO Cert
- 12"/300mm is supplied without depth rod

## 3 YEAR WARRANTY



**Calibration certificates available for all sizes**

Part No.	Range	Accuracy	Resolution	List Price	Sale Price
Without Data Output					
810.1502.10	6"/150mm	0.0008"/20µm	0.0005"/0.01mm	\$231.75	<b>\$220.16</b>
810.1522.10	8"/200mm	0.0012"/30µm	0.0005"/0.01mm	\$371.83	<b>\$353.24</b>
810.1532.10	12"/300mm	0.0012"/30µm	0.0005"/0.01mm	\$505.73	<b>\$480.44</b>
Bluetooth Models					
810.1506.10	6"/150mm	0.0008"/20µm	0.0005"/0.01mm	\$434.66	<b>\$412.93</b>
810.1526.10	8"/200mm	0.0012"/30µm	0.0005"/0.01mm	\$654.05	<b>\$621.35</b>
810.1536.10	12"/300mm	0.0012"/30µm	0.0005"/0.01mm	\$808.55	<b>\$768.12</b>
Accessories					
981.7132	Sylcom Basic Data Processing Software			\$612.93	<b>\$582.29</b>
981.7100	USB bluetooth receiver			\$148.32	<b>\$140.90</b>

## Sylvac S\_Cal EVO Proximity Electronic Calipers



### Features:

- IP67 protected against fluid and dust
- Ultra-Cal VI technology with proximity cable data output
- Heavy duty frame
- Extra large display
- 12"/300mm is supplied without depth rod

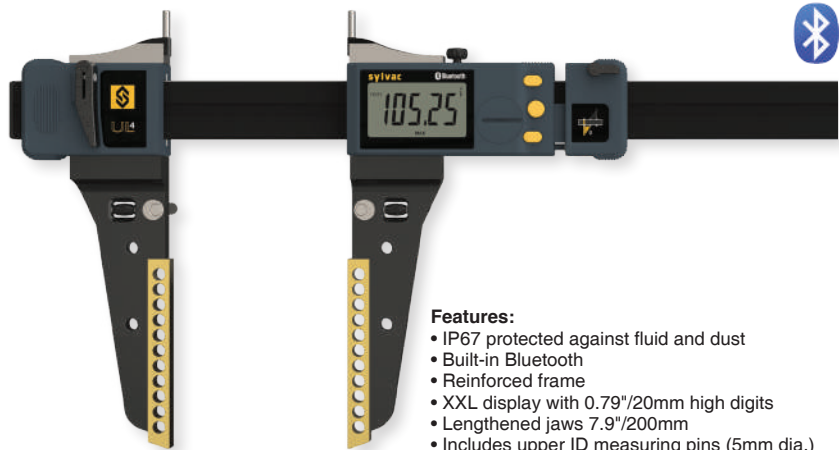
## 3 YEAR WARRANTY



Part No.	Range	Accuracy	Resolution	List Price	Sale Price
810.1702.10	6"/150mm	0.0008"/20µm	0.0005"/0.01mm	\$272.00	<b>\$258.40</b>
810.1722.10	8"/200mm	0.0012"/30µm	0.0005"/0.01mm	\$449.00	<b>\$426.55</b>
810.1732.10	12"/300mm	0.0012"/30µm	0.0005"/0.01mm	\$574.00	<b>\$545.30</b>
Connectivity Cables/Accessories					
981.7132	Sylcom Basic Data Processing Software			\$612.93	<b>\$582.29</b>
926.6721.10	Proximity cable with USB connection			\$210.89	<b>\$200.35</b>
926.6723	Proximity cable with serial connection			\$231.75	<b>\$220.16</b>

# Sylvac Ultralight IV Electronic Calipers

The Sylvac Ultralight IV, new design, new features, built-in Bluetooth transmitter.



- Features:**
- IP67 protected against fluid and dust
  - Built-in Bluetooth
  - Reinforced frame
  - XXL display with 0.79"/20mm high digits
  - Lengthened jaws 7.9"/200mm
  - Includes upper ID measuring pins (5mm dia.)
  - Moveable left jaw
  - Stainless steel titanium coated jaws
  - Hold feature
  - Preset function
  - Min/Max functions
  - Tolerance mode
  - Internal and external measurement indicator



Alternative jaws available, contact the Eclipse Sales Department for more information 1-800-260-2124

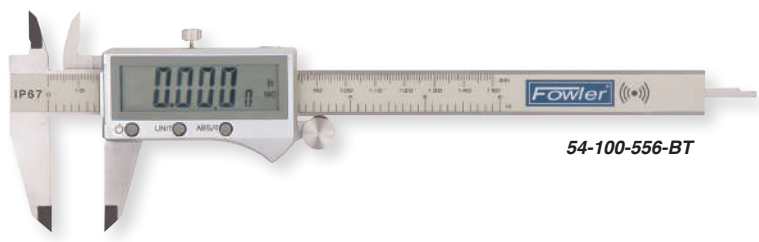
Specifications	811.1404.10	811.1406.10	811.1410.10	811.1415.10	811.1420.10	811.1425.10
Measuring Range	0-15"/0-400mm	0-24"/0-600mm	0-40"/0-1000mm	0-60"/0-1500mm	0-80"/0-2000mm	0-100"/0-2500mm
Maximum Error	0.0012"/30µm	0.0016"/40µm	0.002"/50µm	0.0035"/90µm	0.0048"/120µm	0.0078"/200µm
Repeatability	0.0008" /20µm				0.0012"/30µm	
Measuring Force	5 - 10 N					
Connection	Bluetooth Smart/Proxi. - RS-232 or - USB					
Protection Rating	IP67 (Electronic Module)					
Preset Max.	±399.9995 IN / ±9999.99 mm					
Weight	3.3 lbs/1.5 kg	3.5 lbs/1.6 kg	4.1 lbs/1.9 kg	5 lbs/2.3 kg	5.7 lbs/2.6 kg	6.3 lbs/2.9 kg

Part No.	Range	List Price	Sale Price
811.1404.10	0 - 16"/0 - 400mm	\$2,480.24	<b>\$2,356.23</b>
811.1406.10	0 - 24"/0 - 600mm	\$2,771.73	<b>\$2,633.14</b>
811.1410.10	0 - 40"/0 - 1000mm	\$3,313.51	<b>\$3,147.83</b>
811.1415.10	0 - 60"/0 - 1500mm	\$4,746.24	<b>\$4,508.93</b>
811.1420.10	0 - 80"/0 - 2000mm - special order	\$6,501.36	<b>\$6,176.29</b>
811.1425.10	0 - 100"/0 - 2500mm - special order	\$8,226.61	<b>\$7,815.28</b>
Connectivity Cables/Accessory			
981.7132	Sylcom Basic Data Processing Software	\$612.93	<b>\$582.29</b>
926.6721.10	Proximity USB Cable	\$210.89	<b>\$200.35</b>
926.6723	Proximity Serial Cable	\$231.75	<b>\$220.16</b>
981.7100	USB Bluetooth Receiver	\$148.32	<b>\$140.90</b>

Prices & Specifications are subject to change without notice.

# IP67 Digital Calipers

With Smart Wireless Communication



54-100-556-BT

**Features:**

- IP67 protected against fluid and dust
- Wireless connectivity for quick error free data collection
- Supplied with NIST certification
- Heavy duty frame with 4-way measuring, inside, outside, depth and step
- Super large display
- Includes fitted case, extra battery tray and a 1" setting standard

Part No.	Range	Accuracy	List Price	Sale Price
54-100-554-BT	0 - 4"/100mm	0.001"/0.02mm	\$399.43	<b>\$363.48</b>
54-100-556-BT	0 - 6"/150mm	0.001"/0.02mm	\$410.63	<b>\$370.93</b>
54-100-558-BT	0 - 8"/200mm	0.0015"/0.04mm	\$499.39	<b>\$454.45</b>
54-100-512-BT	0 - 12"/300mm	0.0015"/0.04mm	\$532.57	<b>\$485.07</b>

# XTRA-VALUE<sup>Plus</sup> Digital Calipers



54-103-006-0

**Features:**

- IP54 protected against fluid and dust making it *great for shop environments*
- Range: 6"/150mm
- Accuracy: ± 0.001"/0.02mm
- Inch/Metric/Fraction reading: 0.0005"/0.01mm/ 1/128"
- Heavy Duty frame for extra rigidity and wear resistance
- Super large, easy to read display
- Includes fitted case

Part No.	Range	Accuracy	List Price	Sale Price
54-103-006-0	0 - 6"/150mm	0.001"/0.02mm	\$175.77	<b>\$152.18</b>
54-103-012-0	0 - 12"/300mm	0.0015"/0.03mm	\$299.68	<b>\$270.12</b>

# XTRA-VALUE CAL<sup>®</sup> Digital Calipers

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54-101-150-2

**Features:**

- Stainless steel frame
- Large easy-to-read display
- Resolution: 0.0005"/0.01mm
- Absolute/Incremental Measurement
- 4-way measuring, inside, outside, depth and step
- 6" and 12" models include NIST Cert.
- Includes fitted case

Part No.	Range	Accuracy	List Price	Sale Price
54-101-150-2	6"/150mm	0.001"/0.02mm	\$112.71	<b>\$102.56</b>
54-101-200-1	8"/200mm	0.0016"/0.04mm	\$181.66	<b>\$161.69</b>
54-101-300-1	12"/300mm	0.0016"/0.04mm	\$224.98	<b>\$201.64</b>

## Poly-Cal<sup>®</sup> Digital Caliper

For non-metallic, non-abrasive applications.



**Features:**

- Lightweight polycarbonate frame
- Range: 0 - 6"/150mm
- Accuracy: 0.008"/0.2mm
- Resolution: 0.0005"/0.01mm (Fractions by 1/64" increments)
- Absolute/Incremental measurement
- 4-way measuring
- Supplied with clip-on vinyl pouch

**Part No. 54-101-175-0**

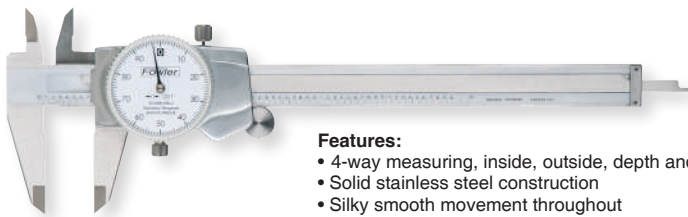
**Sale \$55.<sup>16</sup>**

List Price \$66.60

Calipers

ECLIPSE  
TOOLS NORTH AMERICA INC

## Supreme Dial Caliper



### Features:

- 4-way measuring, inside, outside, depth and step
- Solid stainless steel construction
- Silky smooth movement throughout
- 0 - 6" range, 0.100" per revolution, 0.001" graduations
- Thumbroll for rapid setting

Part No. 52-008-006-2

**Sale \$191.41**

List Price \$294.52

## Premium Grade Dial Calipers



52-008-706-0

### Features:

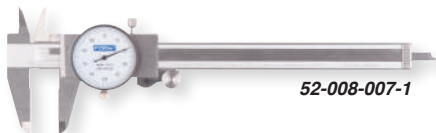
- 4-way measuring, inside, outside, depth and step
- Solid stainless steel construction
- 0.100"/2mm range per revolution
- 0.001"/0.02mm reading dial face
- Tough shockproof gearing

Part No.	Range	Dial Color	Accuracy	List Price	Sale Price
52-008-706-0	0 - 6"	White	± 0.001"	\$166.03	<b>\$148.14</b>
52-008-707-0	0 - 6"	Black	± 0.001"	\$166.03	<b>\$148.14</b>
52-008-708-0	0 - 8"	White	± 0.0015"	\$199.37	<b>\$181.42</b>
52-008-712-0	0 - 12"	White	± 0.002"	\$268.06	<b>\$238.02</b>
Metric					
52-008-709-0	0 - 150mm	Yellow	± 0.02mm	\$171.17	<b>\$148.14</b>

## Dial Calipers



52-008-005-1



52-008-007-1

### Features:

- 4-way measuring for outside, inside, depths and steps
- Graduation: 0.001"
- Beam graduations: 0.100"
- Hardened stainless steel throughout with lapped measuring faces
- Satin chrome finished
- Covered rack
- Shockproof gearing

Part No.	Range	Dial Color	Accuracy	List Price	Sale Price
52-008-005-1	0 - 6"	Black	± 0.001"	\$197.94	<b>\$176.26</b>
52-008-007-1	0 - 6"	White	± 0.001"	\$197.94	<b>\$176.26</b>
52-008-008-1	0 - 8"	White	± 0.0015"	\$279.24	<b>\$248.83</b>
52-008-012-1	0 - 12"	White	± 0.002"	\$476.25	<b>\$417.78</b>

## Swiss Style Dial Caliper



**Special Tool-A-Thon Price!**

**Features:**

- Range: 0 - 12"
- Accuracy:  $\pm 0.002"$
- Graduation: 0.001"
- 4-way measurement
- 0.1" per revolution
- Hardened stainless steel

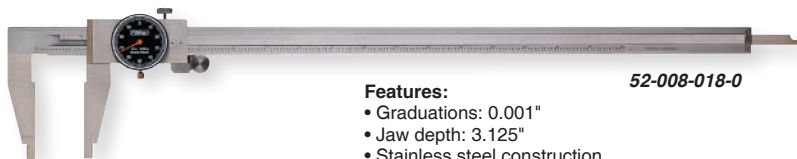
Part No. 52-008-013-0

**Sale \$139.<sup>10</sup>**

List Price \$326.00

## XTRA-RANGE® Dial Calipers

With full length depth rod.



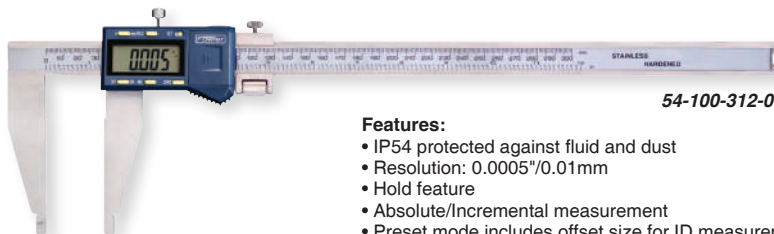
52-008-018-0

**Features:**

- Graduations: 0.001"
- Jaw depth: 3.125"
- Stainless steel construction
- Satin chrome finish
- Full length depth rod
- 0.50" internal measuring nibs on jaws

Part No.	Range	Accuracy	List Price	Sale Price
52-008-018-0	0 - 18"	$\pm 0.003"$	\$562.50	<b>\$495.59</b>
52-008-024-0	0 - 24"	$\pm 0.003"$	\$681.63	<b>\$597.42</b>

## XTRA-RANGE® Digital Calipers



54-100-312-0

**Features:**

- IP54 protected against fluid and dust
- Resolution: 0.0005"/0.01mm
- Hold feature
- Absolute/Incremental measurement
- Preset mode includes offset size for ID measurements
- Both sizes feature fine adjustment

Part No.	Range	Accuracy	Jaw Depth	List Price	Sale Price
54-100-312-0	0 - 12"/300mm	$\pm 0.002"/0.05\text{mm}$	3.5"	\$486.01	<b>\$436.92</b>
54-100-024-1	0 - 24"/600mm	$\pm 0.003"/0.075\text{mm}$	4"	\$714.96	<b>\$642.00</b>



# Rapid-Mic

## Quick-Displacement Electronic Micrometers

Fastest micrometer on the market!



803.0300.10

**WORLD'S FINEST  
Micrometer!**

### Features:

- IP67 protected against fluid and dust
- Non-rotating spindle with 10mm travel per thimble rotation
- Position recall
- Adjustable measuring force, 5N/10N (803.0300.10 and 803.0306.10 only)
- Menu customizable with free software
- USB output or Bluetooth available

**3 YEAR  
WARRANTY** 



**SWISS  
PRECISION**



910.1306.10

**Calibration certificates available for all sizes**

Part No.	Range	Accuracy	List Price	Sale Price
803.0300.10	0 - 1.18"/0 - 30mm	0.00012"/0.003mm	\$660.23	<b>\$627.22</b>
903.0600.10	1.18" - 2.6"/30 - 66mm	0.00016"/0.004mm	\$1,007.34	<b>\$956.97</b>
903.1000.10	2.6" - 4.0"/66 - 102mm	0.00020"/0.005mm	\$1,275.14	<b>\$1,211.38</b>
Set				
903.1300.10	0 - 4"/0 - 102mm		\$3,015.84	<b>\$2,865.05</b>
Bluetooth Models				
803.0306.10	0 - 1.18"/0 - 30mm	0.00012"/0.003mm	\$885.80	<b>\$841.51</b>
903.0606.10	1.18" - 2.6"/30 - 66mm	0.00016"/0.004mm	\$1,230.85	<b>\$1,169.31</b>
903.1006.10	2.6" - 4.0"/66 - 102mm	0.00020"/0.005mm	\$1,504.83	<b>\$1,429.59</b>
Bluetooth Set				
910.1306.10	0 - 4"/0 - 102mm		\$3,487.34	<b>\$3,312.97</b>
Connectivity Cables/Accessory				
981.7132	Sylcom Basic Data Processing Software		\$612.93	<b>\$582.29</b>
926.6721.10	Proximity cable with USB connection		\$210.89	<b>\$200.35</b>
926.6723	Proximity cable with serial connection		\$231.75	<b>\$220.16</b>
981.7100	USB Bluetooth receiver		\$148.32	<b>\$140.90</b>



# DigiMic Electronic Micrometer

The **NEW** world standard of precision with IP67 and Bluetooth®.



**NEW!**



## Features:

- IP67 protected against fluid and dust
- Very High Accuracy: 0.00008"/0.002mm (0-1"/25mm)
- Bluetooth IOT ready, no dongle or cable required for SPC data collection
- Resolution: 0.00005"/0.001mm
- Super large display (0.460"/11.75mm)
- Carbide measuring surfaces, sleep and absolute modes
- Larger sizes available

Part No. DM025

**Sale \$696.<sup>60</sup>**

List Price \$774.00

## XTRA-MIC PLUS+ Electronic Micrometer



## Features:

- IP54 protected against fluid and dust
- Corrosive resistant ratchet thimble (anodized aluminum)
- Super large LCD display
- Range: 0-1"/0-25mm
- Accuracy: 0.00016"/0.004mm
- Resolution: 0.00005"/0.001mm
- Carbide tipped anvil and spindle
- SPC output
- Free ball attachment

Part No. 54-880-001-0

**Sale \$226.<sup>36</sup>**

List Price \$312.42

Prices & Specifications are subject to change without notice.

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Micrometers

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# XTRA-VALUE II Electronic Micrometers



54-870-001-0

## Features:

- IP40 protected against fluid and dust
- Range: 0-1"/0-25mm
- Accuracy:  $\pm 0.00016"/0.004\text{mm}$
- Resolution:  $0.00005"/0.001\text{mm}$
- Carbide measuring faces
- Absolute and incremental modes
- Ratchet thimble
- Free ball attachment

Part No. 54-870-001-0

**Sale \$152.<sup>56</sup>**

List Price \$220.14

## Electronic Coolant Resistant 0 - 6" Micrometer Set



54-860-103-1 shown

## Features:

- IP54 protected against fluid and dust
- Range: 0 - 6"/150mm
- Resolution:  $0.00005"/0.001\text{mm}$
- Carbide measuring faces
- Absolute & incremental modes
- Free ball attachment
- Sizes over 1"/25mm include a calibration standard

Part No. 54-860-106-1

**Sale \$1,807.<sup>11</sup>**

List Price \$2,408.63

# Electronic IP54 Ball-Anvil Micrometers

Measures dimensions from inside of circular holes to outside edges and obtain accurate dimensions.



54-860-113-1

**Features:**

- IP54 protected against fluid and dust
- Carbide measuring faces
- Resolution: 0.00005"/0.001mm
- Accuracy: 0.00016"/0.004mm
- Large easy-to-read LCD display

Part No.	Range	List Price	Sale Price
54-860-113-1	0 - 1"/0 - 25mm Ball Anvil & Flat Spindle	\$282.77	<b>\$237.78</b>
54-860-114-1	1 - 2 1/2" / 50mm Ball Anvil & Flat Spindle	\$331.10	<b>\$279.63</b>

# Point Anvil & Spindle Micrometers

30° pointed anvil and spindle for measuring small grooves, key-ways, small flutes, and hard to reach dimensions.



54-860-661-0

**Features:**

- IP54 protected against fluid and dust
- Resolution: 0.00005"/0.001mm
- Carbide measuring points
- Absolute and incremental modes
- Ratchet thimble
- Sizes over 1 1/25mm include a calibration standard

Part No.	Range	Accuracy	List Price	Sale Price
54-860-661-0	0 - 1"/0 - 25mm	± 0.00016"/0.004mm	\$409.97	<b>\$313.87</b>
54-860-662-0	1 - 2"/25 - 50mm	± 0.00016"/0.004mm	\$448.43	<b>\$361.42</b>
54-860-663-0	2 - 3 1/2" / 50 - 75mm	± 0.0002"/0.005mm	\$501.60	<b>\$399.47</b>
54-860-664-0	3 - 4 1/2" / 75 - 100mm	± 0.0002"/0.005mm	\$545.54	<b>\$456.53</b>

## Vernier Thread Micrometers



52-219-001-1

**Features:**

- 60° measuring anvils
- Graduation: 0.001"
- Ratchet thimble
- Sizes over 1" include standard

Part No.	Range	Thread Range	Accuracy	List Price	Sale Price
52-219-001-1	0 - 1"	64 - 5 TPI/0.4 - 5mm	0.00016"	\$207.92	<b>\$189.21</b>
52-219-002-1	1" - 2"	44 - 3.5 TPI/0.6 - 7mm	0.00016"	\$228.89	<b>\$208.29</b>
52-219-003-1	2" - 3"	24 - 3.5 TPI/1 - 7mm	0.0002"	\$266.93	<b>\$242.90</b>
52-219-004-1	3" - 4"	24 - 3.5 TPI/1 - 7mm	0.0002"	\$289.05	<b>\$263.03</b>

## Electronic IP65 Thread Micrometer


**Features:**

- IP65 protected against fluid and dust
- Thread range: 44 - 3.5 TPI/0.6 - 7mm
- Accuracy:  $\pm 0.00008"/0.002\text{mm}$
- 60° measuring anvils
- ABS/INC measuring mode
- Resolution:  $0.00005"/0.001\text{mm}$
- Friction thimble

Part No.	Range	Thread Range	Accuracy	List Price	Sale Price
54-219-001-0	0 - 1"	64 - 5 TPI/0.4 - 5mm	$\pm 0.00008"/0.002\text{mm}$	\$594.96	<b>\$541.41</b>
54-219-002-0	1" - 2"	44 - 3.5 TPI/0.6 - 7mm	$\pm 0.00008"/0.002\text{mm}$	\$625.87	<b>\$561.16</b>
54-219-003-0	2" - 3"	24 - 3.5 TPI/1 - 7mm	$\pm 0.00008"/0.002\text{mm}$	\$635.55	<b>\$578.28</b>
54-219-004-0	3" - 4"	24 - 3.5 TPI/1 - 7mm	$\pm 0.00012"/0.003\text{mm}$	\$662.75	<b>\$603.00</b>

## Thread Measuring Wire Set

**Features:**

- NOW includes wire holders
- 48 wires in 16 different, 3 wire sets
- Accuracy for sizes 0.018" through 0.108" is within  $+0/-0.0004"$
- Accuracy for sizes 0.120" through 0.185" is within  $+0/-0.0005"$
- Measures all U.S. 60° threads from 3 - 48 threads per inch

**Part No. 52-485-048-0**
**Sale \$51.<sup>60</sup>**

List Price \$61.14



The disc type anvil and spindle simplifies measuring the thickness of difficult, closely spaced sections, ribs, keys, fins, cutting edges on forming tools, chordal thickness of gear teeth, etc.

## Electronic IP54 Disc Micrometers



54-860-301-0

### Features:

- IP54 protected against fluid and dust
- Resolution: 0.00005"/0.001mm
- Friction thimble for repeatability
- Extra large 0.788" disc with 0.035" edge thickness
- Easily enters hard-to-reach areas

Part No.	Range	Accuracy	List Price	Sale Price
54-860-301-0	0 - 1"/0 - 25mm	0.00016"/0.004mm	\$608.39	<b>\$539.85</b>
54-860-302-0	1 - 2"/25 - 50mm	0.00016"/0.004mm	\$654.82	<b>\$576.94</b>

## Digit Counter Disc Micrometers



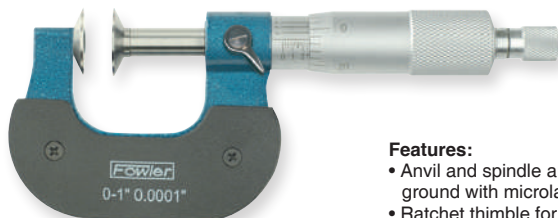
52-250-301-1

### Features:

- Graduation: 0.0001"
- Disc diameter: 0.708"
- Disc edge thickness: 0.035"
- Ratchet thimble for repeatability

Part No.	Range	Accuracy	List Price	Sale Price
52-250-301-1	0 - 1"	0.00016"	\$320.87	<b>\$291.99</b>
52-250-302-1	1" - 2"	0.00016"	\$352.98	<b>\$321.21</b>

## Disc Micrometers



52-250-111-1

### Features:

- Anvil and spindle are hardened and precision ground with microlap finish on measuring faces
- Ratchet thimble for repeatability
- Graduations: 0.0001"

Part No.	Range	Accuracy	List Price	Sale Price
52-250-111-1	0 - 1"	0.00016"	\$214.25	<b>\$188.75</b>
52-250-112-1	1" - 2"	0.00016"	\$241.59	<b>\$219.85</b>

## Universal Electronic Micrometers



54-817-777-0

### Features:

- Non-rotating spindle
- ABS/INC measuring mode
- Resolution: 0.00005"/0.001mm
- Tolerance & preset function
- Complete with 7 anvil sets

**While supplies last!**

Part No.	Range	Accuracy	List Price	Sale Price
54-817-777-0	0 - 1"/0 - 25mm	0.00016"/0.004mm	\$779.17	<b>\$570.67</b>
54-817-778-0	1" - 2"/25 - 50mm	0.00016"/0.004mm	\$885.86	<b>\$627.73</b>

## Cylindrical Tube Micrometer

Measurements can be taken at locations far from the end due to the protruded rod-anvil design.



Part No. 52-510-601-1

### Features:

- Anvil is hardened and precision ground
- Carbide tipped spindle
- Accuracy: 0.00024"
- Graduations: 0.0001"
- Ratchet thimble

**Sale \$116.<sup>51</sup>**

List Price \$137.35

## Vernier Inch Blade Micrometers



52-246-001-1

### Features:

- Anvil & spindle hardened & precision ground with microlap finish on ends
- Non-rotating spindle
- Ratchet thimble
- Blade thickness = 0.030"; blade width = 0.256"; blade penetration = 0.315"
- Sizes over 1" include a standard

Part No.	Range	Graduation	Accuracy	List Price	Sale Price
52-246-001-1	0 - 1"	0.0001"	0.00016"	\$437.82	<b>\$385.82</b>
52-246-002-1	1" - 2"	0.0001"	0.00016"	\$476.65	<b>\$419.94</b>
52-246-003-1	2" - 3"	0.0001"	0.0002"	\$497.65	<b>\$452.86</b>
52-246-004-1	3" - 4"	0.0001"	0.0002"	\$507.17	<b>\$461.53</b>

# Outside Inch Micrometers

22.2

Micrometers



52-240-001-1



52-215-003-1

**Features:**

- Microfine graduations on satin chrome finish and carbide tipped measuring faces
- Diameter of measuring faces: 0.256"
- Graduation: 0.0001"
- Flatness: 0.00003"
- Spindle thread hardened, ground and lapped for ultimate accuracy
- Includes a wrench and case
- Sizes over 1"/25mm include a standard

Part No.	Range	Accuracy	Thimble	List Price	Sale Price
52-240-001-1	0 - 1"	± 0.00016"	Friction	\$82.47	<b>\$70.69</b>
52-240-101-1	0 - 1"	± 0.00016"	Ratchet	\$82.47	<b>\$70.69</b>
52-240-002-1	1" - 2"	± 0.00016"	Friction	\$95.92	<b>\$82.22</b>
52-240-003-1	2" - 3"	± 0.0002"	Ratchet	\$112.08	<b>\$96.07</b>
52-240-004-1	3" - 4"	± 0.0002"	Ratchet	\$125.15	<b>\$107.27</b>
52-240-005-1	4" - 5"	± 0.00024"	Ratchet	\$138.61	<b>\$118.81</b>
52-240-006-1	5" - 6"	± 0.00024"	Ratchet	\$151.88	<b>\$130.18</b>
52-240-007-1	6" - 7"	± 0.00028"	Ratchet	\$165.13	<b>\$141.54</b>
52-240-008-1	7" - 8"	± 0.00028"	Ratchet	\$194.36	<b>\$166.59</b>
52-240-009-1	8" - 9"	± 0.00032"	Ratchet	\$220.89	<b>\$189.33</b>
52-240-010-1	9" - 10"	± 0.00032"	Ratchet	\$250.50	<b>\$214.71</b>
52-240-011-1	10" - 11"	± 0.00036"	Ratchet	\$277.03	<b>\$237.45</b>
52-240-012-1	11" - 12"	± 0.00036"	Ratchet	\$303.54	<b>\$260.19</b>
Sets					
52-215-003-1	0 - 3" with standards and fitted shop hardened case			\$287.40	<b>\$246.35</b>
52-215-004-1	0 - 4" with standards and fitted shop hardened case			\$411.78	<b>\$349.53</b>
52-215-006-1	0 - 6" with standards and fitted shop hardened case			\$699.00	<b>\$582.56</b>
52-215-012-1	0 - 12" with standards and fitted wooden case			\$2,119.10	<b>\$1,816.37</b>



## Outside Inch Micrometers



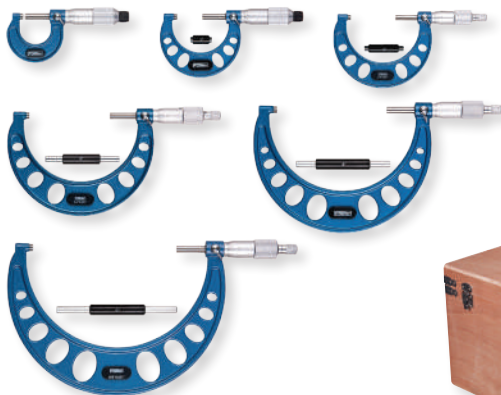
52-253-001-1

**Features:**

- Carbide tipped measuring faces
- Graduation: 0.001"
- Diameter of measuring faces: 0.256"
- Anvil & spindle hardened and precision ground with microlap finish on tips
- Sizes over 1"/25mm include a standard

Part No.	Range	Accuracy	Thimble	List Price	<i>Sale Price</i>
52-253-001-1	0 - 1"	± 0.001"	Friction	\$69.41	<b>\$63.16</b>
52-253-101-1	0 - 1"	± 0.001"	Ratchet	\$69.41	<b>\$63.17</b>
52-253-002-1	1" - 2"	± 0.001"	Friction	\$82.47	<b>\$75.05</b>
52-253-102-1	1" - 2"	± 0.001"	Ratchet	\$82.47	<b>\$75.05</b>
52-253-003-1	2" - 3"	± 0.001"	Ratchet	\$95.92	<b>\$79.89</b>
52-253-004-1	3" - 4"	± 0.001"	Ratchet	\$112.08	<b>\$91.54</b>
52-253-005-1	4" - 5"	± 0.001"	Ratchet	\$125.15	<b>\$104.86</b>
52-253-006-1	5" - 6"	± 0.001"	Ratchet	\$138.61	<b>\$116.51</b>

## Outside Inch Micrometer Set


**Features:**

- Range: 0 - 6"
- Carbide tipped measuring faces
- Graduation: 0.001"
- Diameter of measuring faces: 0.256"
- Anvil & spindle hardened and precision ground with microlap finish on tips
- Sizes over 1"/25mm include a standard

**Part No. 52-253-600-1**
**Sale \$515.<sup>98</sup>**

List Price \$636.33

## Digit Counter Micrometers



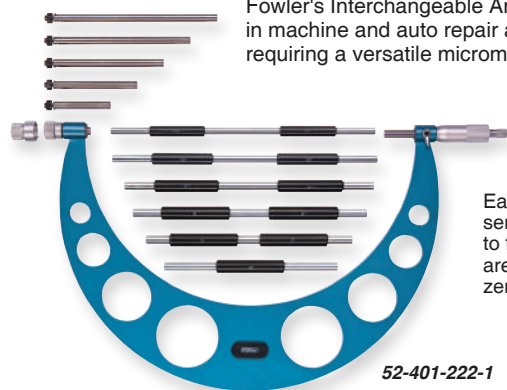
52-224-001-1

### Features:

- Digital counter reads to 0.001"
- Resolution: 0.0001" (using vernier)
- Microfine graduations on satin chrome
- Carbide tipped measuring faces
- Sizes over 1"/25mm include a standard
- Includes case

Part No.	Range	Accuracy	List Price	Sale Price
52-224-001-1	0 - 1"	0.00016"	\$225.32	<b>\$175.60</b>
52-224-002-1	1" - 2"	0.00016"	\$236.65	<b>\$163.95</b>
52-224-003-1	2" - 3"	0.0002"	\$269.52	<b>\$186.75</b>
52-224-004-1	3" - 4"	0.0002"	\$296.64	<b>\$205.56</b>
52-224-005-1	4" - 5"	0.00024"	\$313.93	<b>\$285.68</b>
52-224-006-1	5" - 6"	0.00024"	\$328.16	<b>\$298.63</b>
Sets				
52-224-103-0	0 - 3" set (set finished in grey enamel)		\$711.10	<b>\$492.68</b>
52-224-104-0	0 - 4" set (set finished in grey enamel)		\$1,008.50	<b>\$698.57</b>
52-224-220-0	0 - 75mm set (set finished in grey enamel)		\$748.78	<b>\$518.64</b>

## Interchangeable Anvil Micrometers



52-401-222-1

Fowler's Interchangeable Anvil Micrometers are very popular in machine and auto repair and for all other applications requiring a versatile micrometer.

Each micrometer is equipped with a series of easily interchangeable anvils to fulfill the ranges listed. Standards are also included to accurately verify zero location.

### Features:

- Parallelism: 0.0004"
- Flatness: 0.00003"
- Graduations are microfine on satin chrome for easy reading
- Each anvil is fitted with an adjusting collar to set the overall dimension
- Ratchet stop
- Standards are included with each set

Part No.	Range	Graduation	Accuracy	List Price	Sale Price
52-401-221-1	0 - 6"	0.0001"	0.00024"	\$557.84	<b>\$491.49</b>
52-401-222-1	6" - 12"	0.0001"	0.00024"	\$819.25	<b>\$721.72</b>

## Depth Micrometers



52-225-110-0



52-225-116-0

### Features:

- Base surface hardened and microlapped to 0.00008"
- Ratchet thimble
- Locking clamp
- Rod diameter: 0.176"
- Includes fitted case

Part No.	Range	Graduation	Accuracy	Base Size	List Price	<i>Sale Price</i>
52-225-110-0	0 - 4"	0.001"	0.0002"	2.5"	\$267.79	<b>\$243.69</b>
52-225-112-0	0 - 6"	0.001"	0.0002"	2.5"	\$316.24	<b>\$287.78</b>
52-225-114-0	0 - 4"	0.001"	0.0002"	4"	\$289.33	<b>\$263.29</b>
52-225-116-0	0 - 6"	0.001"	0.0002"	4"	\$338.55	<b>\$308.08</b>
52-225-035-1	0 - 12"	0.001"	0.00028"	4"	\$681.51	<b>\$620.17</b>

## Digit Counter Depth Micrometers



52-225-226-0

### Features:

- Easy-to-read digit counter
- Microfine 0.001" graduations
- Base surface hardened and microlapped to 0.00008"
- Ratchet thimble
- Rod diameter: 0.176"
- Includes wrench and fitted case

Part No.	Range	Graduation	Base	List Price	<i>Sale Price</i>
52-225-176-0	0 - 6"	0.001"	2.5"	\$393.64	<b>\$358.21</b>
52-225-226-0	0 - 6"	0.001"	4"	\$437.33	<b>\$346.20</b>

# IP54 Electronic Depth Micrometer



- Features:**
- IP54 protected against fluid and dust
  - Range: 0 - 6"/150 mm
  - Resolution: 0.00005"/0.001mm
  - Base surface hardened and microlapped to 0.00008" flatness
  - Rod diameter: 0.176"
  - Includes fitted case

Part No. 54-225-456-0

**Sale \$467.<sup>84</sup>**

List Price \$514.11

## Micrometer Stands



52-247-005-0

- Features:**
- Unique locking system adjusts micrometer stand to any position for perfect use and viewing
  - Stand folds for storage

**XTRA MAG®**

- Features:**
- Holds standard 0-12" micrometers firmly to metal surfaces
  - Use at machine centers, assembly and inspection stations, steel tables and shelves
  - V-bottom for mounting on cylindrical surfaces
  - On/Off magnet switch
  - Base is 2.30" L x 1.20" W x 3.50" H



52-247-010-0

Micrometer not included

Part No.	Description	List Price	Sale Price
52-247-005-0	Folding Micrometer Stand	\$78.63	<b>\$71.55</b>
52-247-010-0	Magnetic Micrometer Stand	\$139.10	<b>\$126.58</b>

Prices & Specifications are subject to change without notice.

For measuring the internal diameters of tubes, bearings, slots, and more!

## Electronic IP54 Inside Micrometers



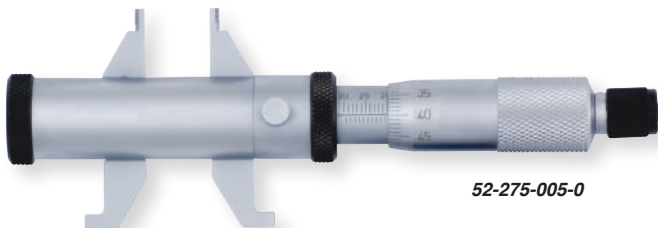
### Features:

- IP54 protected against fluid and dust
- Each gauge includes appropriate setting ring for exceptional accuracy
- Resolution: 0.00005"/0.001mm
- Friction thimble
- Includes fitted case

**Includes setting ring!**

Part No.	Range	Accuracy	List Price	<del>Sale Price</del>
54-860-275-0	0.2 - 1.2"	0.00020"/0.005mm	\$544.44	<b>\$495.44</b>
54-860-276-0	1 - 2"	0.00024"/0.006mm	\$590.13	<b>\$537.02</b>

## Inside Micrometers

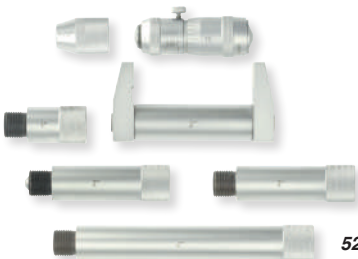


### Features:

- Measuring faces are fully hardened and precision ground
- Microlapped finished to assure exceptionally accurate readings
- Microfine graduations 0.001" on a satin chrome finish permit easy reading
- Ratchet stop thimble assures exact and repetitive readings
- Includes a setting ring and fitted case

Part No.	Range	Graduation	Accuracy	List Price	<del>Sale Price</del>
52-275-002-1	1.0" - 2.0"	0.001"	0.00024"	\$242.61	<b>\$229.69</b>
52-275-005-0	0.2" - 2.2"	0.001"	0.00024"	\$393.94	<b>\$358.49</b>

# Inside Micrometers



52-243-212-1

**Features:**

- Each set consists of an inside micrometer head and a series of fully hardened and lapped extension rods of different lengths all with carbide measuring faces
- Microfine graduations on satin chrome
- Positive locking nut on spindle
- Rods are all marked with appropriate length
- Accuracy: 0.00005" x (3 + L"/2)
- Graduation: 0.001"/0.01mm
- Includes a wrench, case and reference standard

Part No.	Range	List Price	Sale Price
52-243-026-1	2 - 6"	\$277.03	<b>\$262.98</b>
52-243-212-1	2 - 12"	\$362.23	<b>\$329.63</b>
52-243-220-1	2 - 20"	\$453.48	<b>\$412.66</b>
52-243-260-1	2 - 60"	\$2,344.24	<b>\$2,133.26</b>
52-243-480-1	4 - 80"	\$3,249.36	<b>\$2,956.92</b>
52-243-512-1	4 - 120"	\$5,514.62	<b>\$5,018.30</b>
52-243-705-1	50 - 300mm	\$308.75	<b>\$280.97</b>
52-243-710-1	50 - 500mm	\$386.45	<b>\$351.67</b>
52-243-715-1	50 - 1000mm	\$1,287.23	<b>\$1,171.38</b>
52-243-720-1	50 - 1500mm	\$2,416.74	<b>\$2,199.23</b>

# Telescoping Gauge Sets

**Features:**

- Contact points are constructed of hardened tool steel, precision ground
- Double action rigid handle with self-centering feature for quick checking of inside measurements
- Constant spring tension for uniform feel
- 52-470-006-0 covers a measuring range of 5/16" to 6" with measurable depths of 4" to 5"
- 52-470-007-0 covers a measuring range of 5/16" to 6" with measurable depths of 12"



52-470-006-0

**12" Reach!**



52-470-007-0

Part No.	Description	List Price	Sale Price
52-470-006-0	6" Telescoping Gauge Set	\$214.16	<b>\$164.78</b>
52-470-007-0	12" Telescoping Gauge Set	\$257.81	<b>\$203.06</b>

# Sylvac **BLUETOOTH** Hi\_Cal V2 Electronic Height Gauges

## Features:

- **Quick, easy recorded measurements**
- Extra low measuring force, from 0.2N
- Measure internal and external diameters, centerlines, heights, widths, depths and MIN/MAX/TIR capability
- Excellent repeatability thanks to the motorized carriage
- High reliability
- Bluetooth, USB and RS232 data outputs
- Battery life: 40 hours rechargeable during operation
- Touch sensitive probe speed for easy operation
- Base with small footprint
- Includes: protective cover, charging set, ruby ball probe Ø3mm, setting gauge and calibration certificate



830.0156

## Accessory Probe Sets



930.2151



930.2150

## 3 YEAR WARRANTY



## SWISS MADE

Part No.	Range	Accuracy	List Price	Sale Price
830.0156	6"/150mm	0.00013"/0.0034mm	\$5,598.86	<b>\$5,318.92</b>
830.0306	12"/300mm	0.00016"/0.0042mm	\$6,111.39	<b>\$5,805.82</b>
830.0456	18"/450mm	0.00020"/0.005mm	\$6,955.99	<b>\$6,608.19</b>
Accessories				
930.2150	Full Probe Accessory Set		\$2,129.53	<b>\$2,023.05</b>
930.2151	Basic Probe Accessory Set		\$910.52	<b>\$864.99</b>



# Height Gauges



830.0306



830.0456

# Trimos V3, V4 & V5 Electronic Height Gauges

The Trimos V3, V4 and V5 vertical measuring instruments have been developed for the most difficult workshop environments. Manufactured in Switzerland, they guarantee a robust, precise and reliable product.

## Features:

- User friendly functions
- Electronically adjustable measuring force 0.75/1.5 (N)
- Lithium-ion rechargeable batteries last up to 40 hours
- All adjustments possible without tools
- Cast iron base for optimal stability and rigidity
- Bluetooth transmitter available
- Dual probe holders (V4 - V5)
- Carriage displacement: Manual for V3 and V4 models  
**V5 includes selectable manual or motorized carriage displacement**
- Measures heights, diameters, perpendicularity, centerlines, Min/Max/Delta
- Resolution: 0.00005"/0.001mm
- Repeatability (2s): 0.00008"/0.002mm (Ø 0.00016"/0.004mm)

## All models Include:

- Charging unit
- Measuring probe with ruby ball Ø4mm
- Probe holder elbow Ø 8mm
- Setting gauge
- User's manual and test certificate

## EXTREMELY Easy to Use!

**\*Height Gauges available up to 40", 60", 80" upon request**

V3	V3-400	V3-700
Measuring Range	16"/407mm	28"/711mm
Range with Probe inverted	20"/508mm	31.9"/812mm
Max. Permissible Errors	0.00028"/0.007mm	0.00032"/0.008mm
Frontal Squareness Deviation	0.0004"/0.010mm	0.0006"/0.015mm
Air Cushion	NO	

V4	V4-400	V4-700
Measuring Range	16"/407mm	28"/711mm
Range with Probe inverted	28.3"/719mm	40.2"/1023mm
Max. Permissible Errors	0.0002"/0.005mm	0.00028"/0.007mm
Frontal Squareness Deviation	0.0004"/0.010mm	0.0006"/0.015mm
Air Cushion	YES	

V5	V5-400	V5-700
Measuring Range	16"/407mm	28"/711mm
Range with Probe inverted	28.3"/719mm	40.2"/1023mm
Max. Permissible Errors (µm)	2.5 + L(mm)/300	
Frontal Squareness Deviation	0.0002"/0.005mm	0.00032"/0.008mm
Air Cushion	YES	

**2 YEAR WARRANTY**

\*Extended Warranty  
Available



Order No.	Description	Range	List Price
V3-400	V3 Height Gauge	16"/407mm	\$5,920.44
V3-700	V3 Height Gauge	28"/711mm	\$6,561.10
V4-400	V4 Height Gauge	16"/407mm	\$7,331.54
V4-700	V4 Height Gauge	28"/711mm	\$8,451.15
V5-400	V5 Height Gauge	16"/407mm	\$8,451.15
V5-700	V5 Height Gauge	28"/711mm	\$9,944.65
Probe Sets			
TA-SE-105	4mm Probe Set, 21 piece		\$2,021.00
TA-SE-106	8mm Probe Set, 16 piece		\$1,505.07
TA-SE-107	8mm Basic Probe Set, 7 piece		\$492.00
Accessories			
TA-IH-127	12"/300mm Holder - for 8mm probes		\$1,347.24
981.7161.10	Vmux software - for connecting multiple units to one PC		\$455.47
TA-EL-022	Bluetooth module (V4 and V5 only)		\$623.22

**\*Limited while quantities available**

# Height Gauges



V3-400

*Measures ID/OD, centerlines, heights, widths, depths, min/max/delta, slots, grooves and more!*



V4-400



V5-700

## Tool Set 300 Presetter



Used for the quick checking of heights and diameters (radii) of various types of machine tools. Accuracy is guaranteed by a precise steel measuring column and displacement devices in X and Z coordinates utilizing constant measuring force.

### Tool Holding Spindle

Tool presetter is supplied with high precision tool pot (Grade 0)

- ISO 50 taper
- Less than 0.00008"/0.002mm concentricity error



### Features:

- Measuring range: (X)11.8"/300mm, (Z)15.7"/400mm
- Min/Max functions for TIR readings
- 2 reference indications
- Preset and Tolerance value inputs
- Radius or diameter indication on X-axis display
- Resolution: 0.00005"/0.001mm
- Floating zero function anywhere within axis range
- Carbide measuring insert for durability
- Counter balanced measuring carriage
- Constant measuring force in both axes
- *High precision Swiss measuring system*

Part No.	Description	List Price	<i>Sale Price</i>
54-188-300-0	Tool Presetter	\$22,163.64	<b>\$20,168.92</b>
54-121-005-0	ISO 50/40 Tool Pot Adapter	\$1,542.74	<b>\$1,468.52</b>
54-121-015-0	ISO 50/30 Tool Pot Adapter	\$1,923.95	<b>\$1,750.79</b>
54-188-333-0	ISO 50 Setting Gauge	\$1,278.29	<b>\$1,217.42</b>
54-188-335-0	ISO 40 Setting Gauge	\$2,127.36	<b>\$2,025.87</b>

# Z-HEIGHT Electronic Height Gauges

## Features:

- Base design with painted enamel finish has a more comfortable grip and is finely ground and lapped for smooth movement on surface plates
- Fine adjust feature allows precise adjustment to required settings
- Preset feature allows setting pre-determined or reference measurements
- Indicator holding bar included
- Resolution 0.0005"/0.01mm
- Floating zero
- Large, high contrast LCD display
- Coarse adjustment hand wheel
- Carriage locking lever
- Carbide tipped scriber

54-175-024-0



Part No.	Range	Accuracy	List Price	Sale Price
54-175-012-0	12"/300mm	± 0.0015"/0.04mm	\$1,200.25	<b>\$1,065.24</b>
54-175-018-0	18"/500mm	± 0.002"/0.05mm	\$1,428.55	<b>\$1,299.98</b>
54-175-024-0	24"/600mm	± 0.002"/0.05mm	\$1,608.01	<b>\$1,463.29</b>

## Twin Beam Electronic Height Gauges with Offset Scriber

### Features:

- Updated electronic and mechanical design with offset scriber offers better accuracy and movement of carriage
- Base is ground and lapped for flatness
- Handwheel provides coarse and fine movement
- Carbide tipped scriber
- Functions include preset, in/mm conversion and ABS/INC for direct or comparative measuring

54-174-212-3



Part No.	Range	Accuracy	List Price	Sale Price
54-174-212-3	12"/300mm	± 0.0016"/0.04mm	\$1,096.78	<b>\$998.07</b>
54-174-224-3	24"/600mm	± 0.002"/0.05mm	\$1,535.30	<b>\$1,397.13</b>
Accessory				
54-174-226-0	Contact sensor - For contact indication		\$62.93	<b>\$57.26</b>

## Twin Beam Dial Height Gauge

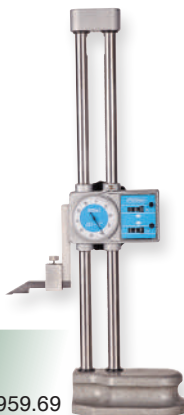
### Features:

- Range: 24"/600mm
- Accuracy: ± 0.002"/0.05mm
- Separate digit counters register both upward & downward travel
- Zero setting can be obtained throughout the gauge's range
- Coarse readings in 0.100" graduations: fine readings taken on indicator are 0.001"
- Dual chrome plated beams
- Carbide-tipped scriber.
- Base is hardened, ground & lapped for maximum flatness

Part No. 52-174-224-0

**Sale \$873.31**

List Price \$959.69



22.2

Height Gauges

ECLIPSE  
TOOLS NORTH AMERICA INC

## Sylvac

### Multimode Electronic Test Indicators

The Sylvac S234 is the perfect solution for test indicating applications

#### Features:

- Bluetooth connectivity to your phone or tablet
- IP65 protected against fluid and dust
- 4 measuring modes: Min, Max, TIR and Direct
- 4 measuring resolutions - 0.00005"/0.001mm or 0.0005"/0.01mm
- 1-1/2" diameter dial face rotates a full 360°
- Analog scale for reversal point indication
- Meets or exceeds DIN/ISO Standards  
(Maximum error on .00005" scale at full range: 0.0004")

**3 YEAR WARRANTY**



805.4321.10



Part No.	Range	Contact Point Length	List Price	Sale Price
805.4321.10	0.040"/1.0mm	1/2"	\$835.00	<b>\$793.25</b>
805.4322.10	0.020"/0.5mm	1-7/16"	\$940.00	<b>\$893.00</b>
Accessories				
981.7132	Sylcom Basic Data Processing Software		\$612.93	<b>\$582.29</b>
981.7100	USB BT Receiver		\$148.32	<b>\$140.90</b>

### Sylvac Mini S\_Dial Indicators

Small in size BIG in features!

#### Features:

- All indicators feature 0.50"/12.5mm range
- Bluetooth connectivity to your phone or tablet
- IP67 protected against fluid and dust
- Analog scale for reversal point indication
- 3/8" mounting diameter with 4-48 contact thread
- Auto power off feature
- Optional cable connectivity output



**3 YEAR WARRANTY**

805.6525

805.4125



*\*Basic models feature only simple functions.*

Part No.	Accuracy	Resolution	List Price	Sale Price
Basic Models				
805.4125	0.0004"/0.01mm	0.0005"/0.01mm	\$535.00	<b>\$508.25</b>
805.4525	0.0002"/0.005mm	0.0005"/0.001mm	\$743.45	<b>\$706.28</b>
Bluetooth Models				
805.6125	0.0004"/0.01mm	0.0005"/0.01mm	\$710.08	<b>\$674.58</b>
805.6525	0.0002"/0.005mm	0.0005"/0.001mm	\$945.00	<b>\$897.75</b>
Accessories				
981.7132	Sylcom Basic Data Processing Software		\$612.93	<b>\$582.29</b>
926.6821.10	Output Cable USB		\$409.94	<b>\$389.44</b>

# Sylvac Electronic Indicators

### Features:

- IP54 protected against fluid and dust
- Repeatability: 2µm
- Output: Proximity/Power - USB/RS232/digimatic/Wireless
- Menus customizable with free software
- Wide range of functions (MIN/MAX/DELTA, TOL, Factor, Preset. Auto Off, etc)
- Bezel rotates 270°
- Large display with LED tolerance indicators
- Includes lug back



805.5301.10



805.5307.10



Part No.	Range	Accuracy	Resolution	List Price	Sale Price
805.5201.10	0 - 0.500"/12.5mm	0.0004"/0.01mm	0.0005"/0.01mm	\$703.49	<b>\$668.32</b>
805.5301.10	0 - 0.500"/12.5mm	0.00012"/0.003mm	0.00005"/0.001mm	\$878.59	<b>\$834.66</b>
805.5401.10	0 - 1"/25mm	0.0004"/0.01mm	0.0005"/0.01mm	\$843.57	<b>\$801.39</b>
805.5501.10	0 - 1"/25mm	0.00016"/0.004mm	0.00005"/0.001mm	\$1,018.67	<b>\$967.74</b>
805.5621.10	0 - 2"/50mm	0.00019"/0.005mm	0.00005"/0.001mm	\$1,401.83	<b>\$1,331.74</b>
Bluetooth					
805.6301.10	0 - 0.500"/12.5mm	0.00012"/0.003mm	0.00005"/0.001mm	\$1,019.70	<b>\$968.72</b>
805.6501.10	0 - 1"/25mm	0.00016"/0.004mm	0.00005"/0.001mm	\$1,212.31	<b>\$1,151.69</b>
Analog Display					
805.5307.10	0 - 0.500"/12.5mm	0.00012"/0.003mm	0.00005"/0.001mm	\$944.51	<b>\$897.28</b>
805.5507.10	0 - 1"/25mm	0.00016"/0.004mm	0.00005"/0.001mm	\$1,096.95	<b>\$1,042.10</b>
Accessories					
981.7132	Sylcom Basic Data Processing Software			\$612.93	<b>\$582.29</b>
981.7100	USB Bluetooth Receiver			\$148.32	<b>\$140.90</b>



# INDI-X<sup>®</sup> BT

## Electronic Indicators



54-520-285-0



54-520-280-0

### Features:

- Wireless communication to most phones and tablets
- Resolution 0.00005"/0.001mm
- Inexpensive bluetooth option
- Includes lifting hook, ceramic ball contact point, 2 specialty contact points, NIST cert., lug and flat backs

Part No.	Range	Accuracy	List Price	Sale Price
54-520-280-0	0 - 1"/25mm	0.00035"/0.008mm	\$343.14	<b>\$313.87</b>
54-520-285-0	0 - 0.50"/12.5mm	0.00030"/0.007mm	\$331.82	<b>\$300.55</b>

# INDI-MAX

## Electronic Indicators

### Features:

- IP54 protected against fluid and dust
- Accuracy: 0.00016"/0.004mm (to 1")
- Resolution 0.00005"/0.001mm
- 2-1/4" dial face
- Tolerance indicators for setting specs.
- Absolute/incremental reading
- 3/8" stem - 4-48 thread
- Auto Off feature
- Lugback on 0.5" model included



Stand not included



54-520-310-0



54-520-320-0

**Carbide-tipped points!**

Part No.	Range	List Price	Sale Price
54-520-310-0	1"/25mm Indi-Max	\$968.06	<b>\$779.91</b>
54-520-320-0	2"/50mm Indi-Max	\$1,256.63	<b>\$1,046.22</b>

# INDI-X<sup>blue</sup> Electronic Indicators

222.2

## Features:

- Accuracy:  $\pm 0.001"/0.03\text{mm}$
- Resolution  $0.0005"/0.01\text{mm}$
- 54-520-260-0 also reads 1/64ths
- 2-1/4" dial face
- Lugback and 3/8" stem mountings
- Tolerance function
- Absolute/incremental reading
- Floating zero



54-520-255-0



54-520-260-0

Part No.	Range	List Price	Sale Price
54-520-255-0	0.50"/12.5mm	\$228.93	<b>\$174.43</b>
54-520-250-0	1"/25mm	\$246.30	<b>\$199.73</b>
54-520-260-0	1"/25mm	\$250.03	<b>\$194.98</b>

# INDI-X<sup>blue</sup>

## Small Face Electronic Indicator

### Features:

- Range: 0 - 0.50"/0 - 12.5mm
- Accuracy:  $\pm 0.0008"/0.02\text{mm}$
- Resolution:  $0.0005"/0.01\text{mm}$
- 1.76" dial face
- Carbide tip
- Contains flat and center lug backs
- Includes NIST certification and fitted case

Part No. 54-520-275-0

**Sale \$193.<sup>51</sup>**

List Price \$253.98



# INDI-X<sup>blue</sup>

## IP65 HIGH Resolution Electronic Indicator

### Features:

- IP65 protected against fluid and dust making it *great for shop environments*
- Range: 1"/25mm
- Accuracy:  $\pm 0.0002"/0.005\text{mm}$
- Resolution:  $0.00005"/0.001\text{mm}$
- Carbide tip
- Tolerance function
- Contains flat and center lug backs
- Includes NIST certification and fitted case

Part No. 54-520-270-0

**Sale \$256.<sup>95</sup>**

List Price \$337.24



Indicators & Bases

ECLIPSE  
TOOLS NORTH AMERICA INC

## Premium Dial Indicators

### Features:

- AGD group 2
- Jeweled movement
- Tolerance markers
- Solid steel housing
- Carbide contact point
- Includes NIST Certification



52-520-135-0



52-520-105-0



52-520-120-0

Part No.	Range	Graduation	Reading	Balanced Reading	Dial Color	List Price	Sale Price
52-520-135-0	0.05"	0.0001"	0 - 10	0 - 5 - 0	White	\$345.50	<b>\$262.15</b>
52-520-105-0	0.50"	0.001"	0 - 100	0 - 50 - 0	White	\$170.71	<b>\$130.06</b>
52-520-110-1	1"	0.001"	0 - 100	—	Black	\$180.51	<b>\$144.39</b>
52-520-110-2	1"	0.001"	0 - 100	—	White	\$180.51	<b>\$144.39</b>
52-520-125-0	0.250"	0.0005"	0 - 100	—	White	\$238.18	<b>\$181.47</b>
52-520-129-0	1"	0.0005"	0 - 50	0 - 25 - 0	White	\$218.19	<b>\$166.24</b>
52-520-300-0	10mm	0.01mm	0 - 100	0 - 50 - 0	White	\$206.09	<b>\$157.02</b>
52-520-500-0	25mm	0.01mm	0 - 100	0 - 50 - 0	White	\$274.72	<b>\$199.73</b>

## Premium IP54 Shockproof Dial Indicators

### Features:

- IP54 protected against fluid and dust
- Includes both center lug back and flat back
- Steel housing
- Sealed plunger, dust-cap and back plate
- Carbide contact point
- 0 - 100 dial reading with rev. counter
- Includes NIST Certification



52-520-460-0



52-520-465-0

Part No.	Range	Graduation	Reading	Contact Point	List Price	Sale Price
52-520-460-0	1"	0.001"	0 - 100	4 - 48 (3/8" stem)	\$195.89	<b>\$158.12</b>
52-520-465-0	1"	0.001"	0 - 100	4 - 48 (3/8" stem)	\$195.89	<b>\$158.12</b>

## Dial Indicator

### Features:

- Range: 1"
- AGD group 2
- Graduations: 0.001"
- Continuous reading: 0 - 100
- Supplied with lug backs positioned through 90° increments
- Carbide tipped contact points
- Microfine graduations in black for continuous readings and red for balanced readings

Part No. 52-520-110-0

**Sale \$130.<sup>83</sup>**

List Price \$144.47



# X-TEST® Horizontal & Vertical Indicators

## Features:

- Super smooth jeweled movement
- Smooth bezel adjustment for easy zero setting
- Solid brass anti-magnetic housing
- 0.080" and 0.120" carbide ball contact points (0.040" steel ball)
- 0.060" range with auto reverse and rev. counter
- Easy to read tilted dial
- 5/32" pivotable stem



52-562-005-0



52-562-001-0



52-562-002-BD Shown

Part No.	Graduation	Dial Size	Dial Reading	List Price	Sale Price
<b>Horizontal</b>					
52-562-001-0	0.0005"	1-1/2"	0 - 15 - 0	\$257.02	<b>\$233.89</b>
52-562-001-BD	0.0005"	1-1/2"	0 - 15 - 0	\$257.02	<b>\$233.89</b>
52-562-002-0	0.0005"	1"	0 - 15 - 0	\$257.02	<b>\$233.89</b>
52-562-003-0	0.001"	1"	0 - 15 - 0	\$257.02	<b>\$233.89</b>
52-562-008-0	0.01mm	38mm	0 - 40 - 0	\$257.61	<b>\$233.89</b>
<b>Vertical</b>					
52-562-004-0	0.0005"	1-1/2"	0 - 15 - 0	\$301.54	<b>\$235.04</b>
52-562-005-0	0.0005"	1"	0 - 15 - 0	\$301.54	<b>\$235.04</b>

## IP65 Coolant Proof Test Indicators

### Features:

- IP65 protected against fluid and dust
- Range: 0.030"
- Reading: 0 - 15 - 0
- Graduations: 0.0005"
- Auto reversing
- Jeweled movement
- 3 dovetail mountings
- Includes 3 contact points, 2 dovetail stems and fitted case



**Single jointed holder included**



52-562-792-0

Part No.	Dial Size	Dial Color	List Price	Sale Price
52-562-790-0	1"	White	\$296.30	<b>\$257.99</b>
52-562-791-0	1"	Black	\$296.30	<b>\$257.99</b>
52-562-792-0	1-1/2"	White	\$296.30	<b>\$257.99</b>
52-562-793-0	1-1/2"	Black	\$296.30	<b>\$257.99</b>

Prices & Specifications are subject to change without notice.

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Indicators & Bases

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TOOLS NORTH AMERICA INC

## mini-MAG II

The mini-MAG II Protractors provides instant 360° digital inclination display of any angle.



### Features:

- Accuracy:  $\pm 0.2^\circ$
- Resolution: 0.05°
- Measuring range: 360° (4 x 90°)
- Embedded magnets
- Display automatically inverts
- On/off, tilt %, light, zero functions
- Dimensions: 2.375" x 1.375" x 2.375"
- Hold feature
- Zero function

Part No. 54-422-460-0

**Sale \$190.<sup>22</sup>**

## Combination Squares



52-370-012-0

### Features:

- Blades are chrome plated, fully hardened and tempered
- 4 piece includes: square, protractor and center heads with 12" blade
- 2 piece includes: square head and 12" blade
- Square head has level and scribe point
- Double indexed protractor is graduated 180° in both directions
- Graduated in 8ths, 16ths, 32nds and 64ths

Part No.	Description	List Price	Sale Price
52-370-012-0	4 pc.	\$413.33	<b>\$314.91</b>
52-373-012-0	2 pc.	\$266.01	<b>\$202.68</b>

## mini-MAG PLUS

The Mini-Mag PLUS Protractor features a USB rechargeable battery, a backlit display, Tilt % function and IP54 protection against water, oil, and fluids.



### Features:

- IP54 protected against fluid and dust
- Accuracy:  $\pm 0.2^\circ$
- Resolution: 0.05°
- Measuring range: 360° (4 x 90°)
- Embedded magnets
- Display automatically inverts
- Auto off after 5 minutes
- Smaller size: 2.12" x 2.12" x 0.9"
- Hold feature
- Zero function

Part No. 54-422-500-0

**Sale \$220.<sup>66</sup>**

## 6" Cylindrical Squares



### Features:

- Used for checking squares, height gauges and other instruments
- Hardened and the ends are lapped to 90° angular accuracy
- 6" cylindrical squares:  $\pm 0.0001''$

Part No. 52-750-006-0

**Sale \$366.<sup>12</sup>**

# QUICK CHECK

## Multi-Function Check Standard



### Check

- ✓ Height Gauges
- ✓ Micrometers
- ✓ Depth Gauges
- ✓ Bore Gauges
- ✓ Test & Dial Indicators
- ✓ Caliper Gauges
- ✓ Protractors & more ....

#### Features:

- All sizes marked are actual
- Accuracy of indicated values  $\pm 0.00012"$
- One compact, multi-function, precise standard
- Can be used to check and verify a multitude of measuring instruments
- Supplied with a manufacturer's test certificate and fitted wood case

Part No. 53-813-015-0

**Sale \$3,411.<sup>60</sup>**

List Price \$3,749.01

## SHOP-BLOX®

### Rectangular Gauge Block Sets



53-672-081-0

#### Features:

- Manufactured to meet Federal Specification ASME B89. 1.9 - 2002 tolerances on length for inch gauge blocks
- Certificate of Calibration traceable to NIST
- Tolerances to  $\pm 0.00005"$
- In high-quality fitted wood case

## Grade Ø Rectangular Steel Gauge Block Set



53-670-038-0

#### Features:

- 36 piece
- Grade Ø
- Certificate of Calibration traceable to N.I.S.T.
- Each block is individually serialized
- Sizes clearly marked on each block
- Complete with fitted wooden case

Part No. 53-670-038-0

**Sale \$970.<sup>13</sup>**

Part No.	Description	List Price	Sale Price
53-672-036-0	36 pc.	\$735.89	<b>\$589.69</b>
53-672-081-0	81 pc.	\$1,258.68	<b>\$1,017.69</b>

## X-BLOX® V-Block Set

### 2 each @:

- Dimensions: 1-1/2" L x 1-1/4" W x 1-1/4" H
- Work capacity: Approximately 1"

### 2 each @:

- Dimensions: 2" L x 1-1/2" W x 1-1/2" H
- Work capacity: 1-1/2"

### All feature:

- Surfaces are square and parallel within 0.0005"
- V-grooves are square and parallel with all surfaces within 0.0005"
- Corresponding dimensions for each pair are alike within 0.0005"



Part No. 52-475-500-0

**Sale \$236.<sup>88</sup>**

List Price \$260.30

## Adjustable V-Block

A precision ground angle block that is ideal for drilling, milling, grinding and set-up tasks.

### Features:

- Hardened to 50-55 HRC and precision ground
- 3.75" L x 1.75" W x 2" H and offers approximately 1.75" work space
- Angular accuracy: ±10 sec
- Squareness within 0.0002"



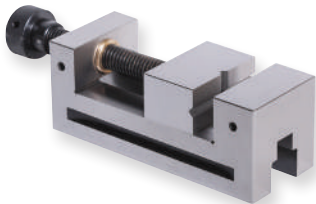
Part No. 52-585-090-0

**Sale \$407.<sup>79</sup>**

List Price \$475.47

## Toolmaker's Vise

Toolmaker's Vise makes precision holding possible for inspection, precision jig boring, milling and grinding.



### Features:

- Maximum opening: 2.48"
- Dimensions: 6.1" x 1.9" x 2.0"
- Features solid base and front jaw construction.
- Parallelism and squareness accuracy: 0.0004"
- Clamping slots on the bottom of the base easily affix to angle plates, vises, etc.



Part No. 52-466-000-1

**Sale \$324.<sup>57</sup>**

List Price \$384.49



## Parallel Set

### Features:

- 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2" & 1-5/8" heights, 6" lengths
- Absolute heights are nominal
- Hardness: 50 HRC, 6" length and 1/8" thickness
- Parallelism:  $\pm 0.0002$ "
- Paired Height:  $\pm 0.001$ "



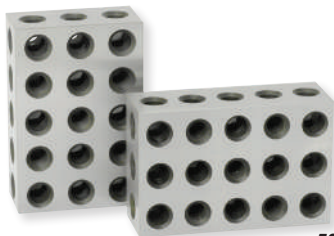
Part No. 52-437-000-0

**Sale \$459.<sup>39</sup>**

List Price \$521.30

## 1-2-3, 2-3-4 & 2-4-6 Blocks

Useful in layout and grinding work.



52-439-234-0

### Features:

- 23 holes for easy clamping
- Sold in pairs
- Hardened 56 - 60 HRC

Part No.	Description	Accuracy	List Price	Sale Price
52-439-031-0	1-2-3 Blocks	$\pm 0.0002$ "/1"	\$184.94	<b>\$140.91</b>
52-439-234-0	2-3-4 Blocks	$\pm 0.0003$ "/1"	\$192.24	<b>\$174.94</b>
52-439-246-0	2-4-6 Blocks	$\pm 0.0003$ "/1"	\$467.36	<b>\$356.08</b>

## Carbide Super Scriber



### Features:

- Lightweight
- Retractable carbide tip
- Knurled grip
- Machined aluminum body
- Pocket clip

Part No.	Description	Overall Length	List Price	Sale Price
52-500-050-0	Carbide Super Scriber	6.5"	\$66.43	<b>\$60.45</b>
52-500-055-0	Carbide Refill		\$19.99	<b>\$18.19</b>

## Weight & Counting Scale



### Features:

- Accurately measures weights and quantities
- Use for counting large batches of small parts
- Measure weights up to 66 lbs./30 kg.
- Removable stainless steel weighing pan and durable ABS housing
- Converts pounds, ounces, grams, kilograms
- Internal battery with 100 hours of use
- Front panel leveling indicator with adjustable leveling feet
- 3 panel backlit LCD display indicates weight, average piece weight and count

**Measures up to 66 lbs.!**

Part No. 54-750-030-0

**Sale \$303.<sup>17</sup>**

List Price \$318.33



## Deluxe Stereo Microscope

An excellent, high quality optical system in a small body with both top and bottom illumination.

### Features:

- Wide field eyepieces are mounted in 45° inclined eye tube with interpupillary distance adjustable from 2 to 3" (50 to 75mm)
- Sharp image definition
- Two sets of paired objectives. 2X and 4X mounted in 180° revolving turret with positive click stop - parfocal and parcentered
- Two 3.5"(95mm) stage plates provided. (Reversible white/black and clear.)
- Rack and pinion focusing
- Dust cover included
- Pair of rubber eye cups included



Eyepiece	Objective	Magnification	Working Distance	Field of View
10X	2X	20X	3.15"/80mm	0.40"/10mm
10X	4X	40X	2.24"/57mm	0.20"/5mm

Part No. 53-640-902-0

**Sale \$963.<sup>00</sup>**

List Price \$1,206.34



54-410-500-0

### Features:

- Small, compact size
- 2 selectable parameters: Ra and Rz
- Large LCD display
- Meets ISO and DIN standards
- NIST traceable specimen included
- Uses 9 volt battery (approx. 3000 measurements)
- Includes fitted case

The X-Pro Portable Roughness Tester II can be used for various applications by selecting from a variety of accessories including special application probes and a swivel stand.

RS232 data output is available on additional models (contact the ETNA technical department for more information 1-800-260-2124)



(X-Pro shown with optional stand with swivel)

### X-Pro Portable Roughness Tester II

Part No.	Description	List Price	Sale Price
54-410-500-0	Portable Surface Roughness Tester 0.0004" probe (NIST specifications)	\$4,184.77	<b>\$3,808.15</b>
54-410-600-0	Portable Surface Roughness Tester 0.0002" probe (DIN specifications)	\$4,184.77	<b>\$3,808.15</b>

### X-Pro Portable Roughness Tester II Stand with Swivel

Part No.	Description	List Price	Sale Price
54-400-896-0	Stand with Swivel Attachment	\$1,007.89	<b>\$917.18</b>

### X-Pro Portable Roughness Tester II Probes and Accessories

Part No.	Description	Resolution	List Price	Sale Price
54-400-319-0	General Purpose Probe	0.0004"	\$1,643.52	<b>\$1,495.60</b>
54-400-326-0	General Purpose Probe	0.0002"	\$1,643.52	<b>\$1,495.60</b>
54-420-321-0	Small Bore Probe	0.0004"	\$1,819.63	<b>\$1,655.86</b>
54-420-327-0	Small Bore Probe	0.0002"	\$1,819.63	<b>\$1,655.86</b>
54-420-301-0	Traverse Chisel Probe	0.0004"	\$1,819.63	<b>\$1,655.86</b>
54-420-302-0	Parallel Chisel Probe	0.0004"	\$1,819.63	<b>\$1,655.86</b>
54-420-328-0	Groove Bottom Probe	0.0004"	\$1,819.63	<b>\$1,655.86</b>
54-420-120-0	AC Adapter Kit		\$149.84	<b>\$116.80</b>

# Z-CHECK 65 PLUS+

## Z-Axis Tool Setter

### Features:

- Supplied with zero reference setting block
- IP65 protected against fluid and dust
- Back light turns on when zero reference is achieved
- 4 magnets embedded into base
- 2" default setting height
- Steel contact surface with 0.0002" flatness
- Resolution: 0.00005"/0.001mm
- Repeatability: 0.00015"/0.004mm
- Accuracy: 0.0001"/0.003mm
- Includes a rugged, aluminum fitted case



Part No. 54-188-200-0

**Sale \$233.<sup>51</sup>**

List Price \$256.61

## HIGH Accuracy Z-Axis Detectors



54-188-140-0

*For use in CNC machines and other applications where high accuracy is required!*



Micro Drill Application



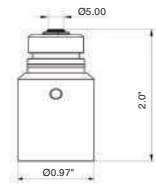
### Features:

- IP67 protected against fluid and dust
- High accuracy and repeatability,  $\pm 0.000039"/0.001\text{mm}$
- Carbide touch surface (0.196"/5mm)
- High precision bearing guide system for long life
- Interchangeable magnetic base
- High visibility LED indicator
- Movement stroke 0.078"/2mm
- Battery life approximately 250 hours (on time)

54-188-140-0



54-188-150-0



Part No.	Model	Dimensions	List Price	Sale Price
54-188-150-0	Inch	Height: 2"/50.8mm, Dia. 0.97"/24.638mm	\$585.68	<b>\$505.28</b>
54-188-140-0	Metric	Height: 1.57"/40mm, Dia. 0.78"/20mm	\$585.68	<b>\$505.28</b>

## Chip Resistant Tool Setter

Easy and affordable way to set Z depths quickly and accurately!

**Special Tool-A-Thon Price!**



Slowly lower cutting tool toward Tool Setter



Indicator will light up upon contact!

### Features:

- Can be operated directly off table or from machine vise
- Aluminum contact face eliminates carbide chipping on cutting tools
- Works on any conductive materials
- Repeatability: 0.0002"
- Block dimensions: 1" x 2" x 3" (nominal)
- Batteries included

Part No. 54-575-750-0

**Sale \$123.<sup>64</sup>**

List Price \$235.30

## Electronic Edge Finders

### Features:

- Six equally spaced light ports provide visibility at any angle
- Edge finder lights instantly when stylus touches work edge
- Repeatability: 0.0002"
- Works on any conductive metal

Solid Tip



54-575-600-0

Spring Loaded



54-575-650-0

Along with light indication, model #54-575-650-0 emits an audible "beep" at time of contact

Part No.	Stylus	Shank	Audible	List Price	Sale Price
54-575-600-0	0.200"	1/2"	NO	\$83.89	<b>\$76.34</b>
54-575-650-0	0.400"	3/4"	YES	\$289.61	<b>\$263.55</b>

Prices & Specifications are subject to change without notice.

## XTENDER Electronic Bore Gauge Set with Carbide Anvils

Industry's two most popular bore gauge ranges combined in one easy-to-use electronic set!

Preset size of master for absolute reading and use minimum hold feature to lock on the bore size as the gauge is rocked in the part to be measured.



### Bore Gauge features:

- Range: 1.4"-6"/35mm-150mm
- Carbide anvils
- Self-centering

### Indicator features:

- Bar graph and numeric digital display
- Preset with recall
- ABS/INC measurement
- Min/Max/TIR



Part No.	Range	Resolution	List Price	Sale Price
54-646-401-0	1.4 - 6"/35 - 150mm	0.00005"/0.001mm	\$754.48	<b>\$637.24</b>
Extensions				
52-646-450-0	20" depth extension		\$170.06	<b>\$154.75</b>
52-646-475-0	40" depth extension		\$218.72	<b>\$199.04</b>

## Dial Bore Gauge Sets



52-646-100-0

### Features:

- Carbide Anvils
- Easy-to-read
- Great value
- Graduation: 0.0005" or 0.01mm
- Insulated grip
- 9.5" depth
- Chrome plated handle

XTENDER



52-646-400-0

Part No.	Range	Graduation	List Price	Sale Price
52-646-100-0	0.7" - 1.5"	0.0005"	\$325.85	<b>\$253.95</b>
52-646-400-0	1.4" - 6"	0.0005"	\$409.47	<b>\$319.22</b>
52-646-500-0	1.4" - 6"	0.0001"	\$531.61	<b>\$468.48</b>
52-646-220-0	35 - 60mm	0.01mm	\$466.31	<b>\$410.88</b>
Extensions				
52-646-450-0	20" depth extension *Not for use with 52-646-100-0		\$170.06	<b>\$154.75</b>
52-646-475-0	40" depth extension *Not for use with 52-646-100-0		\$218.72	<b>\$199.04</b>

# XTENDER- PLUS+ Bore Gauge Set

Fitted with a Sylvac Lifetime Warranty electronic indicator (54-530-535-0)

## Features:

- IP54 protected against fluid and dust
- Range: 1.4 - 6"/35-150mm
- Resolution: 0.00005"/0.001mm
- Analog scale for reversal point detection
- IP54 rated indicator
- Carbide tipped anvils
- Min/Max/TIR readings



Part No. 54-646-535-0

**Sale \$1,292.<sup>92</sup>**

List Price \$1,561.31

## 2" to 6" Right Angle Dial Bore Gauge

*For measuring difficult-to-reach bores in tight or inconveniently located spaces.*

## Features:

- Carbide anvils
- Great value
- Graduation: 0.0005"
- Insulated grip
- Fitted case



Part No. 52-646-250-0

**Sale \$533.<sup>22</sup>**

List Price \$624.93

22.2

Internal & External Measuring

ECLIPSE  
TOOLS NORTH AMERICA INC



# Internal & External Electronic Caliper Gauges



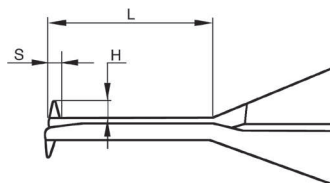
54-554-611-0



54-554-711-0

## Features:

- Accuracy:  $\pm 0.0008"/\pm 0.02\text{mm}$
- Resolution:  $0.0002"/0.005\text{mm}$
- Analog scale for reversal point indication
- Large, LCD display
- Preset capability
- Absolute/Incremental measurements
- High-impact, aircraft aluminum case
- Rugged housing



## Dimensions for Internal Calipers

Metric	Inch	L	S	H	Tip Radius
5-15mm	0.2-0.6"	20mm	1.0mm	1.5mm	0.3mm
5-25mm	0.2-1.0"	35mm	1mm	1.5mm	0.3mm
10-30mm	0.4-1.2"	55mm	2mm	3.5mm	0.5mm
20-40mm	0.8-1.6"	80mm	3mm	6.5mm	0.5mm
30-50mm	1.2-2.0"	80mm	3mm	8.5mm	0.5mm

## Dimensions for External Calipers

Metric	Inch	L	S	H	Tip Radius
0-10mm	0-0.4"	40mm	3mm	8mm	0.5mm
0-20mm	0-0.8"	80mm	6.5mm	25mm	0.75mm
10-30mm	0.4-1.2"	80mm	6.5mm	25mm	0.75mm
20-40mm	0.8-1.6"	80mm	6.5mm	25mm	0.75mm
30-50mm	1.2-2.0"	80mm	6.5mm	25mm	0.75mm

Part No.	Range	List Price	Sale Price
<b>Internal Caliper Gauges</b>			
54-554-611-0	0.200" - 0.590"/5 - 15mm	\$425.79	<b>\$380.44</b>
54-554-622-0	0.200" - 1"/5 - 25mm	\$456.55	<b>\$408.98</b>
54-554-623-0	0.400" - 1.2"/10 - 30mm	\$477.86	<b>\$434.85</b>
54-554-624-0	0.790" - 1.6"/20 - 40mm	\$477.86	<b>\$434.85</b>
54-554-625-0	1.2" - 2"/30 - 50mm	\$477.86	<b>\$434.85</b>
<b>External Caliper Gauges</b>			
54-554-711-0	0 - 0.400"/0 - 10mm	\$425.79	<b>\$380.44</b>
54-554-722-0	0 - 0.790"/0 - 20mm	\$456.55	<b>\$408.98</b>
54-554-723-0	0.4" - 1.2"/10 - 30mm	\$477.86	<b>\$434.85</b>
54-554-724-0	0.790" - 1.6"/20 - 40mm	\$477.86	<b>\$434.85</b>
54-554-725-0	1.2" - 2"/30 - 50mm	\$477.86	<b>\$434.85</b>

## XTRA-VALUE Internal Electronic Caliper Gauge



## Features:

- Accuracy:  $0.01"/0.3\text{mm}/1/64\text{ths}$
- Reading:  $0.01"/0.1\text{mm}/1/64\text{ths}$
- Range:  $0.5 - 6"/12.7 - 150\text{mm}$
- Robust housing
- LCD display
- Spring loaded with locking nut

Part No. 54-554-730-0

**Sale \$89.40**

List Price \$116.23



## Bowers XT-Series Holemikes

The Fowler Bowers range of mechanical three point bore micrometers are now available as XT extended travel holemikes, allowing a wide measurement range without the need to interchange anvils.



XTA10I

### Features:

- 3-pt contact with tungsten carbide measuring anvils above 0.5"
- Blind bore measuring heads featured above 0.5"
- Ratchet stop for consistent measuring
- Includes UKAS certificates for all Holemikes and setting rings



BOWERS GROUP



Part No.	Range	Grads.	Meas. Accuracy	Ring Depth	Ring Included	List Price	Sale Price
MXTA6I	0.250" - 0.312"	0.00025"	0.00015"	2.28"	0.312"	\$641.69	<b>\$577.52</b>
MXTA8I	0.312" - 0.375"	0.00025"	0.00015"	2.28"	0.312"	\$596.37	<b>\$536.73</b>
MXTA10I	0.375" - 0.500"	0.00025"	0.00015"	2.28"	0.5"	\$596.37	<b>\$536.73</b>
MXTA12I	0.500" - 0.625"	0.00025"	0.00015"	2.44"	0.5"	\$596.37	<b>\$536.73</b>
MXTA16I	0.625" - 0.750"	0.00025"	0.00015"	2.44"	0.75"	\$601.52	<b>\$541.37</b>
XTA20I	0.750" - 1"	0.00025"	0.00015"	2.60"	0.75"	\$664.35	<b>\$597.92</b>
XTA25I	1" - 1.375"	0.00025"	0.00015"	2.60"	1.375"	\$948.63	<b>\$853.77</b>
XTA35I	1.375" - 2"	0.00025"	0.00015"	3.15"	1.375"	\$965.11	<b>\$868.60</b>
XTA50I	2" - 2.625"	0.00025"	0.0002"	3.15"	2.625"	\$1,158.75	<b>\$1,042.88</b>
XTA65I	2.625" - 3.250"	0.00025"	0.0002"	3.15"	2.625"	\$1,158.75	<b>\$1,042.88</b>
XTA80I	3.250" - 4"	0.00025"	0.0002"	3.94"	3.25"	\$1,428.00	<b>\$1,285.20</b>
Sets							
SMXTA3I	0.250" - 0.375"		2 heads, 2 handles, 1 ring			\$1,073.26	<b>\$965.93</b>
SMXTA4I	0.375" - 0.750"		3 heads, 3 handles, 2 rings			\$1,606.80	<b>\$1,446.12</b>
SXTA5I	0.750" - 2"		3 heads, 3 handles, 2 rings			\$2,537.92	<b>\$2,284.13</b>
SXTA6I	2" - 4"		3 heads, 3 handles, 2 rings			\$3,401.06	<b>\$3,060.95</b>

## Bore Gauge Setting Master Kits - Inch & Metric

Fowler's Bore Gauge Setting Master Kit is used for accurately setting any bore gauge up to 6"/150mm in diameter to an accuracy of 0.0001"/0.003mm

### Each Set includes: Setting Device

- Base anvil: 3.950" x 1.050"
- Adjustable anvil 2.375" x .375" (two each)
- Internal capacity: 6"/150mm
- Centralizer capacity width: 2.750"
- Quick-release holder for fast adjustment

### Economy Gauge Block Sets

#### Inch model:

- 36 piece
- Tolerances to .00005"
- Certificate of Calibration to NIST

#### Metric model:

- 33 piece
- AS-2 grade
- Certificate of Calibration to NIST



Bore gauge shown not included

### Includes:

**Bore gauge setting master and gauge block set!**  
**All in a custom-fitted case!**

Part No.	Description	List Price	Sale Price
53-646-000-1	Inch Bore Gauge Setting Master Kit	\$822.27	<b>\$748.27</b>
53-646-010-0	Metric Bore Gauge Setting Master Kit	\$730.09	<b>\$664.38</b>
53-646-005-0	Bore Gauge Setting Master Kit - <b>without</b> Gauge Blocks	\$508.25	<b>\$462.51</b>

Prices & Specifications are subject to change without notice.

## Bowers BLUETOOTH

*Fastest, most consistent hole measurement available world wide!*



*Pistol grip design significantly decreases measuring time*

*Measure cylinder bores, high accuracy bearings, grooves, threads and much more!*



*Traditional style ratchet stop thimble*



**Both styles feature:**

- IP67 protected against fluid and dust
- Resolution: 0.00005"/0.001mm
- Bluetooth connectivity to your phone or tablet
- Self centering 3 point heads above 0.250"
- Tungsten carbide measuring faces on all 3-point heads from 0.5"/12.5mm and up
- Sizes over 0.500"/12.5mm feature blind bore capability
- Includes UKAS certificates for all pistol grip, heads and rings



# FREE TABLET!

*with Complete Set Purchase!*

## Special application heads operate with either style handle

Contact the Eclipse Sales Department 1-800-260-2124

**2 and 3 Point  
Screw Threads**



**Ball Screw Threads**



**2 and 3 Point  
Grooves**



**Brake Caliper  
Measurement**



**Ball Race  
Measurement**



**Internal and External  
Spline**



**2 Point Spherical**



**3 Point Spherical**



**Slot Width**



Part No.	Range	Includes	List Price	Sale Price
<b>Pistol Grip Sets</b>				
SXTH1i-BT	0.080" - 0.250"/2 - 6mm (2-point heads)	5 heads, 1 handle, 3 rings	\$7,432.48	<b>\$6,689.23</b>
SXTH3i-BT	0.250" - 0.375"/6 - 10mm	2 heads, 1 handle, 1 ring	\$2,833.53	<b>\$2,550.18</b>
SXTH4i-BT	0.375" - 0.750"/10 - 20mm	3 heads, 1 handle, 2 rings	\$3,344.41	<b>\$3,009.97</b>
SXTH5i-BT	0.750" - 2" /20 - 50mm	3 heads, 1 handle, 2 rings	\$4,309.52	<b>\$3,878.57</b>
SXTH6i-BT	2" - 4"/50 - 100mm	3 heads, 1 handle, 2 rings	\$4,820.40	<b>\$4,338.36</b>
SXTH7i-BT	4" - 6"/100 - 150mm	2 heads, 1 handle, 1 ring	\$4,309.52	<b>\$3,878.57</b>
SXTH8i-BT	6" - 8" /150 - 200mm	2 heads, 1 handle, 1 ring	\$5,785.51	<b>\$5,206.96</b>
SXTH9i-BT	4" - 8" /100 - 200mm	4 heads, 1 handle, 2 rings	\$9,249.40	<b>\$8,324.46</b>
SXTH11i-BT	0.750" - 4"/20 - 100mm	6 heads, 1 handle, 4 rings	\$7,204.85	<b>\$6,484.37</b>
SXTH10i-BT	0.250" - 0.750"/6 - 20mm	5 heads, 1 handle, 3 rings	\$3,968.59	<b>\$3,571.73</b>
<b>Holemike Sets (Traditional style)</b>				
SXTD1i-BT	0.080" - 0.250"/2 - 6mm (2-point heads)	5 heads, 1 handle, 3 rings	\$6,807.27	<b>\$6,126.54</b>
SXTD3i-BT	0.250" - 0.375"/6 - 10mm	2 heads, 1 handle, 1 ring	\$2,719.20	<b>\$2,447.28</b>
SXTD4i-BT	0.375" - 0.750"/10 - 20mm	3 heads, 1 handle, 2 rings	\$3,287.76	<b>\$2,958.98</b>
SXTD5i-BT	0.750" - 2" /20 - 50mm	3 heads, 1 handle, 2 rings	\$4,536.12	<b>\$4,082.51</b>
SXTD6i-BT	2" - 4"/50 - 100mm	3 heads, 1 handle, 2 rings	\$4,990.35	<b>\$4,491.32</b>
SXTD7i-BT	4" - 6"/100 - 150mm	2 heads, 1 handle, 1 ring	\$4,196.22	<b>\$3,776.60</b>
SXTD8i-BT	6" - 8" /150 - 200mm	2 heads, 1 handle, 1 ring	\$5,615.56	<b>\$5,054.00</b>
SXTD9i-BT	4" - 8" /100 - 200mm	4 heads, 1 handle, 2 rings	\$8,965.12	<b>\$8,068.61</b>
<b>Connectivity Cables/Accessory</b>				
926.6721.10	Proximity cable with USB connection		\$210.89	<b>\$200.35</b>
926.6723	Proximity cable with serial connection		\$231.75	<b>\$220.16</b>
981.7100	USB bluetooth receiver		\$148.32	<b>\$140.90</b>

# Ultralift<sup>plus</sup>

## The World's Safest Lifter

Lifts up to 4400lbs (flat), 1760lbs (round)

### 3 Safety Features:

- Locking switch mechanism
- Unique 'Safety Shim': pre-test any load to ensure a 3:1 safety factor
- Locking eye mechanism: magnet cannot be switched off while holding a load



The patented 'safety shim' allows pre-testing of the load to be lifted, irrespective of weight, material type, material thickness and surface condition. If the load passes a 3:1 safety factor is guaranteed.

Part No.	Self Weight (lbs)	Material Length Max (inches)	Flat Section		Round Section		List Price
			SWL (lbs)	Thickness Min (inches)	SWL (lbs)	Diameter Max (inches)	
UL0275+	8.8	60	275	0.8	110	8	\$783.07
UL0550+	24.2	60	550	1.0	220	12	\$1,509.49
UL1100+	59.4	80	1100	1.2	440	16	\$2,121.07
UL2200+	138.6	120	2200	1.8	880	18	\$3,800.75
UL4400+	345.4	120	4400	2.8	1760	24	\$5,482.56

# UltraliftLM

## Safe, General-Purpose Lifting

Lifts up to 4400lbs (flat), 1760lbs (round)

- Locking switch handle mechanism



Part No.	Self Weight (lbs)	Material Length Max (inches)	Flat Section		Round Section		List Price
			SWL (lbs)	Thickness Min (inches)	SWL (lbs)	Diameter Max (inches)	
LM0275	9.9	60	275	0.8	110	10	\$536.85
LM0550	18.7	60	550	1.0	220	12	\$814.76
LM1100	38.5	80	1100	1.2	440	16	\$1,326.36
LM2200	80.3	120	2200	1.8	880	18	\$2,400.09
LM4400	173.8	120	4400	2.8	1760	24	\$5,242.30

# Magnetic Trays

**Features:**

- Magnet in base attaches to the tray firmly to ferrous surfaces and holds ferrous items in the tray
- Magnet base is rubber coated to safeguard surfaces



**10%  
OFF**

Part No.	Dimensions	List Price
E630	14.2" x 6.3"	\$27.17
E631	11.5" x 10.7"	\$36.40
E632	9.5" x 5.6"	\$22.85
E633	5.9"D	\$17.17
E634	4.3"D	\$11.60

# Telescopic Pick-up Tool

**Features:**

- Powerful Neodymium Boron magnets used to ensure maximum pull from a small magnetic area
- Ideal for retrieving ferrous objects that are out of reach



**10%  
OFF**

Part No.	Length	Pull Force	List Price
EM967-R	5.8-26.0"	2.1lbs	\$16.28

# Quick Holding Clamps

**Features:**

- Fast and accurate holding of ferrous metals at different fixed angles
- Also suitable for retrieval applications



**10%  
OFF**

Part No.	Length	Height	Width	Pull Force	List Price
E951	3.95"	2.58"	0.47"	22lbs	\$12.75
E953	3.95"	2.58"	0.79"	33lbs	\$20.40

# Magnetic Base with Toggle Switch

**Features:**

- 3 magnetic face: top, bottom, back



**10%  
OFF**

Part No.	Length	Height	Width	Hole	Hold	List Price
E905WF (M15885)	2.559"	2.165"	1.969"	M8	176lbs	\$57.01
E905WF/100 (M19290)	2.953"	2.165"	1.969"	M8	220lbs	\$106.37

22.2

Innovative Magnetic Solutions

TOOLS NORTH AMERICA INC

ECLIPSE

## Eclipse Compact Lazy Tong Riveter

Smaller and easier to handle than tradiitonal sized lattice riveters. The 2750C delivers more power with less effort.



Part No. 2750C

### Features:

- Strong 3-piece alloy steel jaw mechanism with hexagonal internal structure
- Pops up to 6.4mm Aluminum, Steel and Stainless Steel rivets
- Contains rivet noses for use with 2.4mm, 3.2mm, 4.0mm, 4.8mm, and 6.4mm aluminum and steel rivets

**Sale \$61.<sup>14</sup>**

List Price 67.93

## Eclipse Compact Lever Arm

Up to 40% lighter and more compact in size than traditional long arm riveters. The 2760C requires less effort and is easier to use.



Part No. 2760C

### Features:

- Strong 3-piece alloy steel jaw mechanism with hexagonal internal structure
- Reinforced 2mm thick Carbon Steel heat-treated handle for extra strength and durability
- Contains rivet noses for use with 2.4mm, 3.2mm, 4.0mm, 4.8mm, and 6.4mm aluminum and steel rivets

**Sale \$51.<sup>00</sup>**

List Price \$56.67

## Eclipse Compact Mini Lever Arm Riveter

Less than half the weight and size of a traditional long arm riveter. Perfect for use in restricted spaces, fits conveniently into toolboxes. The 2760C-M requires less effort and is easier to use than traditional gun type riveters.



Part No. 2760C-M

### Features:

- Strong 3-piece alloy steel jaw mechanism with hexagonal internal structure
- Reinforced 2mm thick Carbon Steel heat-treated handle for extra strength and durability
- Ergonomically designed handles for comfortable use
- Contains rivet noses for use with 2.4mm, 3.2mm, 4.0mm, 4.8mm, and 6.4mm aluminum and steel rivets

**Sale \$47.<sup>32</sup>**

List Price \$52.58

## Compact Threaded Insert Tool Kit

The Compact Series has been developed to compliment the more traditional range. Easily sets up to M10 Nutserts with more power and less effort than traditional Insert Tools.

Allows thin sheet nutserts to be placed quickly and easily by hand. They are invaluable to Plant and Maintenance Engineers, and also for DIY, for simple assembly of threaded inserts or anchor nuts.



### Features:

- Suitable for steel, stainless steel, and aluminum nutserts
- Features a knurled carbon steel knob to easily unload nutserts
- Ergonomic handles for extra comfort
- Requires access to only one side of the workpiece

Part No. 2745C

**Sale \$111.<sup>83</sup>**

List Price \$124.26

## Compact Heavy Duty Threaded Insert Tool Kit

The Compact Series has been developed to compliment the more traditional range. Easily sets up to M12 Nutserts with more power and less effort than traditional Insert Tools.

Allows thin sheet nutserts to be placed quickly and easily by hand. They are invaluable to Plant and Maintenance Engineers, and also for DIY, for simple assembly of threaded inserts or anchor nuts.



### Features:

- Suitable for steel, stainless steel, and aluminum nutserts
- Features a knurled carbon steel knob to easily unload nutserts
- Ergonomic handles for extra comfort
- Requires access to only one side of the workpiece

Part No. 2746C-HD

**Sale \$206.<sup>14</sup>**

List Price \$229.04



# Eclipse Electronic Height Gauge

Measures ID/OD, centerlines, heights, widths, depths, min/max/delta, slots, grooves, and more!

## ***Perfect for the Work Shop!***

### **Features:**

- Easy-to-use
- Range: 16"/407mm
- Repeatability: 0.00012"/0.003mm
- Resolution: 0.00005"/0.001mm
- Single probe holder
- Fixed measuring force 7.5N
- High contrast display
- Includes standard 4mm Ø ruby tipped probe, setting gauge, AC adapter
- Accessory probes available



**Part No. V2-400**

**List Price \$4,975.<sup>00</sup>**

**Contact Eclipse for more details! 1-800-260-2124**



442 Millen Road Unit 9, Stoney Creek, ON L8E 6H2

☎ 1-800-260-2124

📠 1-800-260-1410

✉ sales@eclipsetoolsinc.com

🌐 <https://www.bowersgroup.co.uk/ca/>



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