

Measuring Devices and Field Supplies



CST/berger

No One Measures Up ... Worldwide

Measuring Tapes

Durable tapes with 3:1 gear ratio for faster rewind

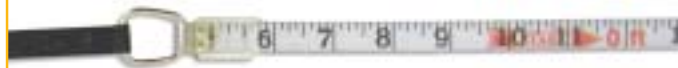
MEASUREMARK Pro-Series Nylon-Clad Steel Tapes

An indispensable measuring tool designed for the precision-minded user. Open reels feature new rubber reinforced, rounded design, large soft rubber grip handle, and new color combos. 1/2" tape width.

Features:

- Superior accuracy, durability, and temperature stability over other tapes
- **NEW** reels designed– Zip Line™ 3:1 gear ratio for faster rewinding. Designed specially for impact resistance and ease of use
- Accurate, wear-resistant graduations
- Flexible high tempered steel tape core
- Nylon coating withstands extreme temperatures, water, chemicals
- Crank handle folds flat to prevent breakage

Type "A"– Zero begins 10" from end of loop.



Type "B"– Zero begins at end of hook.



◀ 3-Pack

▲ Individual Packaging

Replacement Open Reels for Nylon Clad Tapes

- 81-100** 100'/30m Open Reel
81-200 200'/50m Open Reel

Replacement Closed Cases for Fiberglass Tapes

- 71-50** 50'/15m Metal Case
71-100 100'/30m Metal Case
71-165 165'/50m Metal Case

Replacement Open Reels for Fiberglass Tapes

- 74-50** 50'/15m Cross-Arm Open Reel
74-100 100'/30m Cross-Arm Open Reel
74-165 165'/50m Cross-Arm Open Reel
74-200 200'/61m Cross-Arm Open Reel

Zip Line™

3:1 Gear Ratio for Faster Rewinding



◀ **82-30080A**
Open Reel Nylon
Clad Tape

ft/10ths/100ths

| | |
|------------------|-----------------------------------|
| 82-10010A | 100', ft/10ths/100ths, Type A end |
| 82-10010B | 100', ft/10ths/100ths, Type B end |
| 82-20010A | 200', ft/10ths/100ths, Type A end |
| 82-20010B | 200', ft/10ths/100ths, Type B end |
| 82-30010A | 300', ft/10ths/100ths, Type A end |
| 82-30010B | 300', ft/10ths/100ths, Type B end |

ft/in/8ths

| | |
|------------------|------------------------------|
| 82-10080A | 100', ft/in/8ths, Type A end |
| 82-10080B | 100', ft/in/8ths, Type B end |
| 82-20080A | 200', ft/in/8ths, Type A end |
| 82-20080B | 200', ft/in/8ths, Type B end |
| 82-30080A | 300', ft/in/8ths, Type A end |
| 82-30080B | 300', ft/in/8ths, Type B end |

10ths/inches

| | |
|---------------------|--|
| 82-10018B | 100', 2-sided 10ths/inches, Type B end |
| 82-10018B-3D | 100', 2-sided 10ths/inches, Type B end, In POP Display Tray – Three-pack |
| 82-30018B | 300', 2-sided 10ths/inches, Type B end |

2-Sided: Metric/10ths and Metric/inches

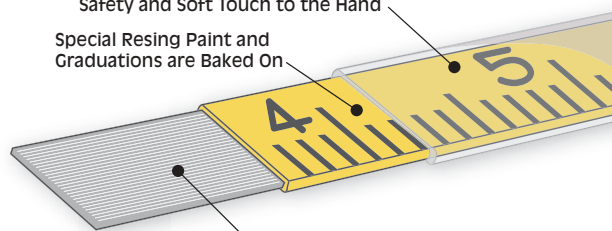
| | |
|------------------|---|
| 82-1001MA | 100'/30m, 2-sided metric/10ths, Type A end |
| 82-1008MA | 100'/30m, 2-sided metric/inches, Type A end |
| 82-1651MA | 165'/50m, 2-sided metric/10ths, Type A end |
| 82-1658MA | 165'/50m, 2-sided metric/inches, Type A end |

Metric

| | |
|-----------------|--------------------------|
| 82-30MA | 30m, Metric, Type A end |
| 82-50MA | 50m, Metric, Type A end |
| 82-100MA | 100m, Metric, Type A end |

Glare-Proof, Embossed Nylon Coating Ensures
Safety and Soft Touch to the Hand

Special Resing Paint and
Graduations are Baked On



Flexible High Tempered Steel

MEASUREMARK

Pro-Series Fiberglass Tapes

These Pro-Series Fiberglass Tapes are made with nonwoven PVC-coated fiberglass of superior durability. Markings are not affected by casual contact with alcohol, brine, paint thinner, gasoline or similar fluid. PVC face will not collect dust or mildew and stains wash off with soap and water.

Closed cases are coated with protective, rust-inhibiting PVC. Case has double throat rollers and flush-folding handle secured by a push-pin knob. Open reels feature new reinforced, rounded design, large rubber grip handle, and new color combos.

Features:

- Waterproof, dirt-resistant, washable
- **NEW** reels designed- Zip Line™ 3:1 gear ratio for faster rewinding. Designed specially for impact resistance and ease of use
- More durable than steel, more functional than cloth tape

10ths and Metric

Printed on two sides: one side in feet, 10ths and 100ths, second side in meter, cm and 2mm increments.

| | Cat. No. | Length | Refill No. |
|--------------------|-----------|------------|------------|
| Closed Case | 71-Y501M | 50' (15m) | 73-Y501M |
| | 71-Y1001M | 100' (30m) | 73-Y1001M |
| | 71-Y1651M | 165' (50m) | 73-Y1651M |
| Open Reel | 74-Y501M | 50' (15m) | 73-Y501M |
| | 74-Y1001M | 100' (30m) | 73-Y1001M |
| | 74-Y1651M | 165' (50m) | 73-Y1651M |
| | 74-Y3001M | 300' (91m) | 73-Y3001M |

8ths and Metric

Printed on two sides: one side in feet, inches and 8ths, second side in meter, cm and 2mm increments.

| | Cat. No. | Length | Refill No. |
|--------------------|-----------|------------|------------|
| Closed Case | 71-Y508M | 50' (15m) | 73-Y508M |
| | 71-Y1008M | 100' (30m) | 73-Y1008M |
| | 71-Y1658M | 165' (50m) | 73-Y1658M |
| Open Reel | 74-Y508M | 50' (15m) | 73-Y508M |
| | 74-Y1008M | 100' (30m) | 73-Y1008M |
| | 74-Y1658M | 165' (50m) | 73-Y1658M |
| | 74-Y3008M | 300' (91m) | 73-Y3008M |

10ths

Printed on one side in feet, 10ths and 100ths.

| | Cat. No. | Length | Refill No. |
|--------------------|----------|--------|------------|
| Closed Case | 71-Y501 | 50' | 73-Y501 |
| | 71-Y1001 | 100' | 73-Y1001 |
| | 71-Y1651 | 165' | 73-Y1651 |
| Open Reel | 74-Y501 | 50' | 73-Y501 |
| | 74-Y1001 | 100' | 73-Y1001 |
| | 74-Y1651 | 200' | 73-Y1651 |
| | 74-Y2001 | 200' | 73-Y2001 |
| | 74-Y3001 | 300' | 73-Y3001 |

Zip Line™

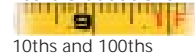
3:1 Gear Ratio for Faster Rewinding



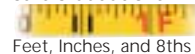
74-Y3008
Open Reel Fiberglass Tape

Tape Graduations

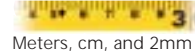
10ths Graduations – Feet



8ths Graduations – Feet



Metric Graduations



71-Y1001
Closed Reel
Fiberglass Tape

8ths

Printed on one side in feet, inches and 8ths; with 16-inch center marked in red.

| | Cat. No. | Length | Refill No. |
|--------------------|----------|--------|------------|
| Closed Case | 71-Y508 | 50' | 73-Y508 |
| | 71-Y1008 | 100' | 73-Y1008 |
| | 71-Y1658 | 165' | 73-Y1658 |
| Open Reel | 74-Y508 | 50' | 73-Y508 |
| | 74-Y1008 | 100' | 73-Y1008 |
| | 74-Y1658 | 100' | 73-Y1658 |
| | 74-Y2008 | 200' | 73-Y2008 |
| | 74-Y3008 | 300' | 73-Y3008 |

Metric

Printed on two sides: one side in meters, cm and 2mm, second side in meters and cm.

| | Cat. No. | Length | Refill No. |
|--------------------|----------|--------|------------|
| Closed Case | 71-Y20M | 20m | 73-Y20M |
| | 71-Y30M | 30m | 73-Y30M |
| | 71-Y50M | 50m | 73-Y50M |
| Open Reel | 74-Y20M | 20m | 73-Y20M |
| | 74-Y30M | 30m | 73-Y30M |
| | 74-Y50M | 50m | 73-Y50M |
| | 74-Y100M | 100m | 73-Y100M |



5-Pack Display

Measuring Tapes

Durable tapes available in several lengths and graduations

CST

Long Steel Tapes

PVC-coated metal cases. Steel tape is 1/2" (13mm) wide and epoxy coated, thus resistant to water and chemicals.

| | Cat. No. | Refill No. | Length | Graduations |
|---------------------|-----------------|------------|--------|-------------|
| Tape in Case | 89-5010 | 89-5011 | 50' | 10ths |
| | 89-10010 | 89-10011 | 100' | 10ths |
| | 89-15M | 89-015M | 15m | Metric |
| | 89-30M | 89-030M | 30m | Metric |
| | 89-50M | 89-050M | 50m | Metric |

CST

Steel Epoxy Coated Case Tapes

These water and chemical-resistant, epoxy coated tapes are designed for industrial applications. Impact resistant plastic case, printed in 2 colors: red and black with 16" center marked in red. Tapes are 3/8" wide x .008" thick with hook end.

| | Cat. No. | Refill No. | Length | Graduations |
|---------------------|-----------------|------------|--------|-------------|
| Tape in Case | 85-W501 | 86-W501 | 50' | 10ths |
| | 85-W508 | 86-W508 | 50' | Inches |
| | 85-W1001 | 86-W1001 | 100' | 10ths |
| | 85-W1008 | 86-W1008 | 100' | Inches |
| | 85-W15M | 86-W15M | 15m | Metric |
| | 85-W30M | 86-W30M | 30m | Metric |



MEASUREMARK

"Pro-Series" Pocket Tapes

Power return features a smooth gliding action with a positive thumb lock and release. Graduations are printed in large easy-to-read black numerals with the foot markings in red. Weatherproof, impact-resistant plastic cases are enclosed in a rubber housing. Clip onto a belt with spring-clip back. 1" (25mm) wide white blade.

| | |
|-----------------|----------------------|
| 78-R251 | 25', ft/10ths/100ths |
| 78-R258 | 25', ft/in/8ths |
| 78-R050M | 5m, m/cm/mm |
| 78-R075M | 7.5m, m/cm/mm |



Tape Graduations

10ths Graduations – Feet



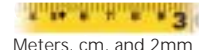
10ths and 100ths

8ths Graduations – Feet



Feet, Inches, and 8ths

Metric Graduations

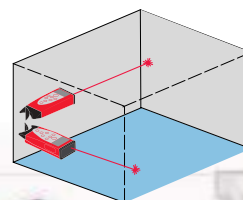


Meters, cm, and 2mm

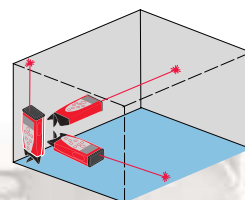
Depth Gauge Tapes ▲

These versatile fiberglass tapes are rugged yet lightweight and are excellent for use in water, mud and rough terrain.

| | |
|-----------------|------------------------------------|
| 75-2588 | 25' Depth Gauge Tape, feet/inches |
| 75-5088 | 50' Depth Gauge Tape, feet/inches |
| 75-10088 | 100' Depth Gauge Tape, feet/inches |
| 75-20088 | 200' Depth Gauge Tape, feet/inches |
| 75-30MM | 30m Depth Gauge Tape, metric |



Calculate Area



Calculate Volume

LASERMARK™

LT-1 Disto™ Laser Distance Meter

The One Person "Point and Shoot" Measuring Laser Tape Measure Width and Distance; Calculate Areas, Volumes, And Segments. Proven construction combined with modern functions make the LT-1 the perfect instrument for precise, efficient measuring. Easily calculate areas, volumes, and segments without a tape measure. **Just point and shoot! Productivity is increased and costs are lowered.**

- Six selectable units of measure, Recalls last 15 values
- Splash and Dust Proof (IP54)
- Attaches to camera tripod; 1/4" thread

Includes– Carrying Case with Belt Strap

56-DISTM Laser Distance Meter

56-DSTVW Telescopic Viewer for simple aiming operations out in the open.



CST

Brass Plumb Bobs

Precision machined for perfect balance and lacquered for a lasting finish. Includes a hardened steel point with ASA thread. Steel ASA screw cap allows storage for an extra point.

| Cat. No. | Description | Cat. No. | Description |
|----------|---------------|----------|------------------|
| 11-497 | 6 oz. (170g) | 11-553 | 18 oz. (510g) |
| 11-498 | 8 oz. (225g) | 11-554 | 24 oz. (680g) |
| 11-499 | 10 oz. (285g) | 11-554A | 32 oz. (910g) |
| 11-550 | 12 oz. (340g) | 11-554B | 80 oz. (2270g) |
| 11-551 | 14 oz. (400g) | 11-555A | Extra cap only |
| 11-552 | 16 oz. (455g) | 11-555B | Extra point only |



All CST Plumb Bobs meet GSA specifications #GGG-P-501F

- 11-498C 8 oz. (225g) with Clamshell Packaging
- 11-550C 12 oz. (340g) with Clamshell Packaging
- 11-552C 16 oz. (455g) with Clamshell Packaging



11-556 ▶

CST

Leather Plumb Bob Scabbards

Heavily stitched and riveted for long life, these sheaths are made of top grain saddle leather. A strong metal snap secures bob in sheath.

- 11-556 For 8 to 12 oz. bob
- 11-557 For 14 to 18 oz. bob
- 11-558 For 24 to 32 oz. bob

CST

Plumb Bob Targets

- 11-425 4" x 4" Pressure Sensitive Target, Peel-Off Sheet
- 11-426 8" x 8" Pressure Sensitive Target, Peel-Off Sheet
- 11-431 2" x 4" Plastic Rectangular Target, red & white, notched for plumb line insertion
- 11-432 2 1/2" x 4" Translucent Yellow Target; seems to light up when viewed through a transit



11-426

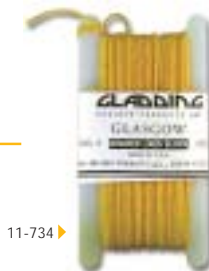
11-432

CST

Replacement Plumb Bob Cord

Braided linen cord comes in 25 yd. spools.

- 11-732 Heavy white
- 11-733 Medium white
- 11-734 Heavy orange
- 11-735 Medium orange



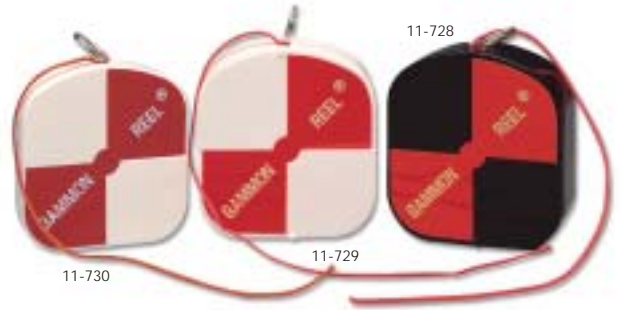
11-734 ▶

CST

Gammon Reels®

An aid to set up and deploy a clean, accurate plumb. Slip the reel into your palm and draw the bob to desired position and stop with finger pressure. Steel clock spring zips the string back into case.

- 11-728 Gammon Reel®, with hi-vis black and orange target
- 11-729 12' / 3.6m Gammon Reel®
- 11-730 7' / 2.1m Gammon Reel®, with 72 lb. test orange nylon cord
- 11-731 Bobbin of Orange Nylon Cord, 24 yds. / 21.9m



11-730

11-729

11-728

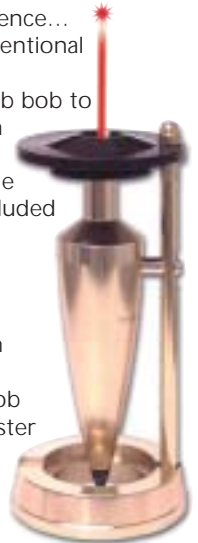
LASERMARK™

Laser Plumb Bobs

Creates an accurate, highly visible plumb reference... instantly! The Laser Plumb Bob combines conventional plumbing with accurate laser capabilities. The magnetically dampened stand allows the plumb bob to settle and be used within seconds—faster than a conventional plumb bob with string or a gravity-only compensated laser plumb bob. The laser can also be shot downward using the included downward plumbing tip and cord for more conventional usage.

Features:

- Plumb bob body and base machined from solid brass
- Magnetic dampening top settles plumb bob movement fast so you can get to work faster than competing models
- Plumb bob uses gravity to produce a reliable and repeatable plumb reference
- Dimensions: 7" h x 3 1/8" w x 3 1/8" d (17.8cm x 7.9cm x 7.9cm)
- Weight: 2 lbs. 6 oz (1.1kg)



Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50 dated July 26, 2001

- Plumb accuracy:** ±6 minutes
- Working Range:** 11-650 Up to 100 ft (30m)
(visible will vary) 11-635 Up to 200 ft (60m)
- Warranty:** 90 Days
- Environment:** Built for Indoor use
- Power:** One (1) CR123A battery provides up to 20 hours of continuous use

LaserMark Laser Plumb Bob Includes: battery, downward plumbing tip with cord, padded carrying case, manual

- 11-650 LaserMark Laser Plumb Bob, 650nm diode
- 11-635 LaserMark Laser Plumb Bob, 635nm diode
- 11-PBBAG Soft Padded Carrying Case

Magnetic Locators

The best value in the industry!

Magna-Trak® Magnetic Locators

Improved water resistance and mechanical life are provided by our new direct contact switching with the PC board. Enjoy enhanced functioning, reliability, and maintenance for all CST locators.

Our Magna-Trak magnetic locators take technology one step into the future by including a multitude of convenience features you won't find anywhere else; features like an LCD visual display and/or audio tone, a lightweight, easy-grip design, and water resistant cases.

Magna-Trak locators also feature easy battery access and outstanding battery life, and they're backed by a 5-year warranty! Plus, our patented* electronic balancing procedure allows balancing to be done quickly and efficiently and all of our manufacturing is done right here at CST to ensure quality control.

The latest technology doesn't have to cost a lot. Get the best performance and the best value with a Magna-Trak locator.

Features:

- Length: 423/4"; Weight: 3 lbs./1.3kg
- Waterproof up to housing; water-resistant housing
- Signal indicating LCD meter (models 100 and 102 only)
- Easy access battery compartment
- On/Off, Volume, and Sensitivity Controls
- Strong, lightweight aluminum tube
- "High-Tec" magnetic toroidal sensors and patented electronic balancing circuitry
- Durable hard rubber tip
- Battery life ±100 hours; low battery indicator on LCD models
- Available with soft padded or hard carrying case

*-U.S. Patent No. 4,439,732

Magna-Trak® Magnetic Locator- MT 100

The Original! The Magna-Trak 100's LCD indicator offers a digital bar graph display, in addition to a standard audio tone, to precisely identify the target object, especially in noisy, congested areas. An additional feature is a visual reminder when batteries are low.

The lightweight Magna-Trak 100 features simple, waterproof, push-button membrane pad operation with an ergonomic design. The Magna-Trak 100 offers easy battery access and outstanding battery life, and is backed by a five-year warranty.

19-550 Magna-Trak 100, soft case

19-551 Magna-Trak 100, hard case

Carrying Cases for Magna-Trak®

Protect your investment; our durable cases are made to last. The bright yellow Magna-Trak® soft case is constructed of padded Cordura™ nylon. Zips open and closed, includes carrying straps. Our hard cases feature a built-in handle, secure latches and textured black exterior, plus a tilt-up scabbard for easy locator removal.

19-552 Soft Padded Case for Magna-Trak Locators, yellow

19-553 Hard Case for Magna-Trak Locators

19-559 Soft Padded Case for MT-102, chartreuse

Magna-Trak® Magnetic Locator- MT 101

The Value-Priced Standard! Our low-cost Magna-Trak 101 magnetic locator provides excellent field performance at a budget price! It features quick-action, control knob operation to adjust sensitivity and volume.

The Magna-Trak 101 magnetic locator is a streamlined version of the Magna-Trak 100. The Magna-Trak 101 features all the same components as the 100, minus the LCD meter display and membrane switch. The operation of this locator is dependent upon only two rotary control knobs: sensitivity and volume.

19-555 Magna-Trak 101, soft case

19-556 Magna-Trak 101, hard case

Magna-Trak® Magnetic Locator- MT 102

Feature-Packed for Versatility! The Magna-Trak 102 magnetic locator provides the same basic performance features as the Magna-Trak 100. However, with the addition of our push-button "erase" feature, greater flexibility is achieved and performance is enhanced.

When a magnetic disturbance, such as a metal fence, is confronted, simply press the "erase" button and the disturbance is erased for continued searching without interference. No need to reduce the sensitivity; the Magna-Trak 102 always returns to perfect magnetic balance when the "erase" button is pressed.

The Magna-Trak 102 locator also includes a power line indicator feature. The LCD panel visually indicates that a power line is present. CAUTION: This feature is an aid only and is not intended for locating buried power lines.

19-557 Magna-Trak 102, soft case

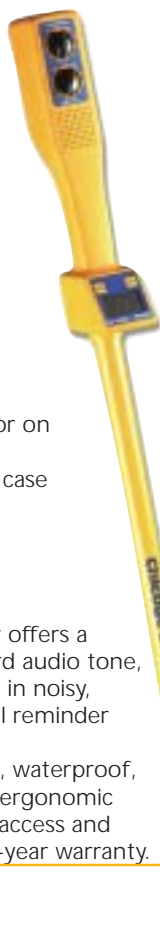
19-558 Magna-Trak 102, hard case

Merchandiser for Magna-Trak® Locator

Metal support with Point-of-Purchase Display- holds Four Locators.

00-MTDISPLAY

Magna-Trak Locator Merchandiser with Display



**Magna-Trak®
Magnetic Locator- 200 Series**

The Magna-Trak 200 offers all the features you could possibly need in a magnetic locator, ergonomically designed for complete one-handed operation. So your other hand is free—or untied—to use other equipment.

- Lightweight, ergonomic handle with textured grip.
- **One Handed Operation** - Control the Volume and Sensitivity with the Same Hand.
- **NEW** Quick change battery compartment.
- High impact plastic case is water resistant, lightweight and epoxy sealed.
- Aluminum sensor tube is waterproof to just under the plastic case
- Powerful magnetic speaker with waterproof Mylar cone.
- Adjustable sensitivity and volume dials with power On/Off.
- **NEW** speaker – deep tone audio under search conditions; signal "peak" over ferrous objects.
- "High-Tech" magnetic toroidal sensors and unique electronic balancing circuitry.

- 19-200SC Magna-Trak 200 Soft Carrying Case
- 19-200HC Magna-Trak 200 Hard Carrying Case
- 19-202SC Magna-Trak 202 (Erase) Soft Carrying Case
- 19-202HC Magna-Trak 202 (Erase) Hard Carrying Case



Locate With "One Hand Tied Behind Your Back"...

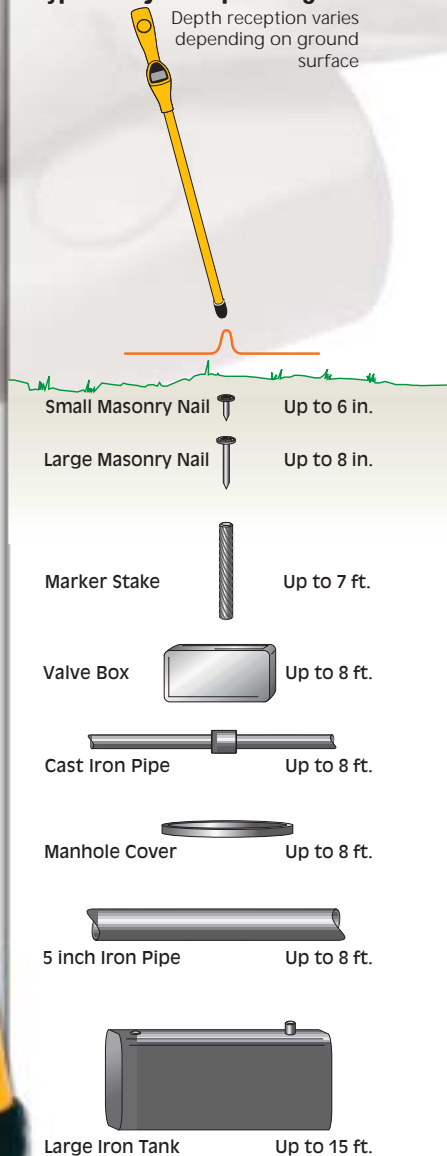
Not that you would want to, but the point is you can.

Product Specifications

- Power:** Six "AA" 1 1/2 volt batteries
- Battery Life:** 100 hours of intermittent operation (w/ alkaline batteries)
- Weight:** Approximately 3 lbs. (1.3kg) with batteries
- Operating Temp:** 0°F to 120°F (-18°C to 49°C)
- Length:** 4-23/4 inches (108.6 cm)



Typical Object Depth Diagram



Measuring Wheels

The one stop shop for builders, contractors, and surveyors

MEASUREMARK Measuring Wheels

Unsurpassed value combined with precision, quality and ergonomics are the hallmark of CST's new "Measuremark®" series measuring wheels.

Features:

- All CST wheels feature a gear driven counter made from wear resistant Delrin® enclosed in a weather resistant professionally designed housing.
- 5-digit counter with pushbutton reset.
- 4" diameter wheels come standard with 2-section telescoping handle. 10" and 12.5" wheels have a heavy duty metal folding handle with curved gripping area.
- Kickstand is standard on 10" and 12.5" wheels.
- Plastic wheels are precision molded from high grade ABS to ensure durable performance and accuracy.
- Heavy duty die-cast aluminum wheels are standard on 10" and 12" wheels (choice of ABS plastic or aluminum on 4" wheels). Wheels have 85 durometer wear resistant rubber tread for improved traction.



All MeasureMark™ Measuring Wheels feature a 5-Digit Counter with Pushbutton Reset



Snap-Lock System provides durability in the field and collapses for easy storage.



4-in (97mm) Diameter Wheels

| Catalog # | Type | Counter Reading (10,000 ft or 10,000 m) | Wheels |
|-----------|-------------|---|--------|
| 31-108 | ABS Plastic | ft-inches | Single |
| 31-101 | ABS Plastic | ft-10ths | Single |
| 31-10M | ABS Plastic | meters/dm | Single |
| 31-108-M | Aluminum | ft-inches | Single |
| 31-101-M | Aluminum | ft-10ths | Single |
| 31-10M-M | Aluminum | meters/dm | Single |
| 31-208 | ABS Plastic | ft-inches | Dual |
| 31-201 | ABS Plastic | ft-10ths | Dual |
| 31-20M | ABS Plastic | meters/dm | Dual |
| 31-208-M | Aluminum | ft-inches | Dual |
| 31-201-M | Aluminum | ft-10ths | Dual |
| 31-20M-M | Aluminum | meters/dm | Dual |

10-in (253mm) Diameter Wheels - Curved Handle

| Catalog # | Type | Counter Reading (10,000 ft or 10,000 m) | Wheels |
|-----------|----------|---|--------|
| 31-308 | Aluminum | ft-inches | Single |
| 31-301 | Aluminum | ft-10ths | Single |
| 31-30M | Aluminum | meters/dm | Single |

12-in (318mm) Diameter Wheels - Curved Handle

| Catalog # | Type | Counter Reading (10,000 ft or 10,000 m) | Wheels |
|-----------|----------|---|--------|
| 31-408 | Aluminum | ft-inches | Single |
| 31-401 | Aluminum | ft-10ths | Single |
| 31-40M | Aluminum | meters/dm | Single |



Two-Section Telescoping Handle is shown collapsed for easy storage

MEASUREMARK
Measuring Wheels with Integrated
Paint Marking System

Four models to choose from— single wheel, dual 4-in (97mm) aluminum wheel, dual 4-in (97mm) plastic wheel, and the dual 10-in (253mm) aluminum wheel.

Wheels with Integrated Spray Paint Marking System

| Catalog # | Type | Type (10,000 ft or 10,000 m) | Counter Reading | Wheels |
|------------------|-------------|---------------------------------|--------------------|--------|
| 31-04-P | 4-in (97mm) | ABS Plastic | - | Single |
| 31-208-P | 4-in (97mm) | ABS Plastic | ft-inches | Dual |
| 31-201-P | 4-in (97mm) | ABS Plastic | ft-10ths | Dual |
| 31-20M-P | 4-in (97mm) | ABS Plastic | meters/dm | Dual |
| 31-208M-P | 4-in (97mm) | Aluminum | ft-inches | Dual |
| 31-201M-P | 4-in (97mm) | Aluminum | ft-10ths | Dual |
| 31-20MM-P | 4-in (97mm) | Aluminum | meters/dm | Dual |
| 31-308-P | 10" (253mm) | Aluminum | ft-inches | Dual |
| 31-301-P | 10" (253mm) | Aluminum | ft-10ths | Dual |
| 31-30M-P | 10" (253mm) | Aluminum | meters/dm | Dual |

31-04-P
 Singl 4-in Aluminum
 Wheel with Integrated
 Paint Marking System ▶

31-208M-P
 Dual 10-in Aluminum
 Wheel with Integrated
 Paint Marking System ▶

31-04-P
 Singl 4-in Aluminum
 Wheel with Integrated
 Paint Marking System ▶

Wheels with integrated paint marking system have a one-piece handle with pistol grip and trigger release to spray paint on target.

Available with 5-digit counter.

Paint can holster with strap is designated to accept standard U.S. style inverted aerosol paint cans. For European style inverted aerosol paint cans, add suffix "E" to catalog # when ordering, e.g., 30-30M-PE.

Hand Levels

Heavy duty hand levels are unsurpassed in quality, features, and value

CST Hand Levels

All hand levels (except for 17-620) include a padded Cordura™ belt loop case.

17-620A Pocket Sighting Level- Aluminum

Ideal for preliminary survey and simple distance estimation. Sturdy impact resistant body and easy-to-read protected vial. Includes instruction manual. A CST/Berger best-seller! Available in blister pack.



POP Packaging

17-621 Locke Hand Level

5" long square sighting tube with fixed eyepiece and a durable yellow finish. This can be used as a bench level; when supported on a staff, it is sufficiently accurate for running levels in gardening or brick lines.



17-622 Square 6" Hand Level

6" long square sighting tube with fixed eyepiece. Removable reflector unit permits right angle viewing when aperture is turned outward, and the reflector unit is placed in an inverted position in the sighting tube.



Eagle Eye Hand Levels

Available with or without stadia, these 1X– 5" levels (extending to 7") are of all brass construction and feature a non-glare internal finish. The externally mounted level vial assembly allows for easy replacement and maintenance.



Features:

- Durable, versatile, convenient
- Brass construction
- Versatile with eyepiece draw providing greater accuracy
- Convenient design allows quick field maintenance and repair
- Positive 2-screw motion allows easy adjustment
- Available in 1X with or without stadia (ratio 1:20)
- Cordura™ belt loop carrying case included

17-600EE 1X, 5"-7" with stadia

17-601EE 1X, 5"-7" without stadia

17-623 6" Hand Level

6" long with fixed eyepiece, adjustable reflector and internally mounted bubble assembly. A hexagonal objective cap prevents rolling.



17-624 6" Round Hand Level

This high quality 6" long hand level has all brass construction, a fixed eyepiece and an externally mounted bubble assembly. The hand level body is electrostatically powder painted bright safety-yellow. Hexagonal objective cap prevents rolling.



17-630 5X Magnifying Hand Level

8" long round telescope tube extends to 9". The objective lens is mounted on a movable slide which brings distant objects into sharp focus; eyepiece focusing slide allows regulation of crossline image. Features 5x magnification of objective and 2x magnification of level bubble, solid brass construction with a durable yellow finish, and 1:100 stadia lines.



17-631 2X Magnifying Hand Level

6" long with draw eyepiece extending to 8". Adjustable reflector and internally mounted bubble assembly.



17-632 K & E Type 2X Hand Level

2X magnification with all brass construction. Features 6" long draw eyepiece extending to 7 1/2", adjustable reflector and internally mounted bubble assembly.



CST



20-7531
Masonry Nails
100ct. - Plastic Container

CST

Masonry Nails / Magnetic Nails

Hardened masonry nails are cadmium plated to resist rust and increase visibility. 100 nails per package.

- 20-7511** 3/4-in x 1/8-in
- 20-7521** 1 in x 5/32-in
- 20-7531** 1-1/4 in x 3/16-in
- 20-7541** 1-1/2 in x 1/4-in
- 20-7551** 2 in x 1/4-in
- 20-7561** 2-1/2 in x 1/4-in



CST

Stake Tacks

3/4" long steel nails are galvanized and sterilized. 1 lb. equals approximately 725 nails.

- 20-750** 1 lb. box
- 20-750B** 5 lb. box



Abney Levels

17-640

Abney Level, 5-1/4"

5-1/4" long with radius arc graduated 0 to 90 degrees in both directions, with vernier reading to 10 minutes and percent of grade scale from 0% to 100%. Complete with Cordura™ belt loop case.



17-643

Abney Level, K & E Type Topographic

K & E type Abney Level, 6-3/8" long, extending to 7-3/8". Equipped with two interchangeable arcs with 47mm (1.85") radius: one arc graduated in degrees, 0° to 60° in both directions, the other arc graduated in topographic scale. Index has friction movement for time adjustment. Complete with Cordura™ belt loop case.



17-641

Abney Level, 6-1/4"

6-1/4" long, extending to 7" with two separate scales graduated on the radius arc: one graduated from 0° to 90° in both directions, and one reading to percentage of grade with vernier reading to 10 minutes and percent of grade scale from 0% to 100%. Complete with Cordura™ belt loop case.



17-645

5X Abney with Stadia

5X magnification with 1:100 stadia, 7-3/4" long, with draw tube extending to 8-5/8". Two-inch radius arc graduated to degrees, 0° to 90° in both directions; vernier reading to 10 minutes. Also has percent scale, 0% to 100% in both directions. Complete with Cordura™ belt loop case.



17-642

Abney Level, Topographic

All brass construction, 6-3/8" long, internal focusing telescope with a durable black finish, square sighting tube, and two interchangeable arcs: one arc graduated in percentage of grade and degrees, 0° to 60° in both directions, and the other graduated in percentage of grade and topographic scale. Complete with Cordura™ belt loop case.



Abney & Hand Level Cases

These nylon Cordura™ cases with belt loop are excellent for replacing old, worn-out leather cases or for protecting small accessories. Velcro™ closure.

- 17-635** 5" Hand Level Case (17-621)
- 17-636** 6" Hand Level Case (17-622)
- 17-637** 7" Hand Level Case (17-623/-624/-631)
- 17-639** 9" Hand Level Case (17-630)
- 17-638** Abney Level Case for 17-640/-641
- 17-646** Abney Level Case for 17-642/-643/-645

Bags and Pouches

Protect your investment

CST Padded Carrying Bags

Fully zippered carrying bags hold prisms and other EDM accessories. Easy-to-clean Cordura™ with shock-absorbing double-padded construction protects equipment against sudden blows or jolts. Bags have strong carrying straps. Color available: Orange; Yellow available by special order of 20+.

- 61-2540** Medium Prism Bag (Use for 63-1010, 63-2010, etc.)
- 61-2541** Small Prism Bag (Use for 64-2010, 63-3030, etc.)
- 61-2542** Extra Tall Bag (for triple prism, tribrach and adapter)
- 61-2543** Small Instrument Case w/ metal belt hook, 4 1/2" x 9" x 2 1/2" (11cm x 23cm x 6cm)
- 61-2544** Bag for printers and sensitive instruments, 10" x 15" x 3" (25cm x 38cm x 8cm)
- 61-2545** Mini Case with belt loop (Runts, Mini prisms, small accessories)
- 61-2549** Bag for Complete Prism System (tribrach, adapter, and 63-1010 assembly)
- 61-2630** Padded Cordura™ Radio Pouch
- 61-2631** Cordura™ Radio Pouch



CST Total Station Field Cases

These densely padded heavy-duty field cases are compatible with most total stations, theodolites, lasers, GPS receivers, etc. Cordura™ exterior is water resistant. Light weight and wide waist and shoulder straps ensure comfort and stability. Color available: Orange; Yellow available by special order of 20+.

- 61-2546** Field Case, front loading
- 61-2547** Field Case, top loading



CST Stake Bags

Heavy-duty Cordura™ stake bags contain center pocket with three additional pockets on front of bag and at each end. Color available: Orange; Yellow available by special order of 20+.

- 20-757** 18" x 12" x 6" (45cm x 30cm x 15cm) center pocket
- 20-759** 26" x 12" x 6" (71cm x 30cm x 15cm) center pocket



CST Wire Stake Bags

Similar to above, with additional wire insert for rigidity.

- 20-761** 21" (53cm) length, 6" (15cm) diameter

CST Lath Bags

These heavy duty Cordura™ lath bags are available in three styles. The bags can hold 50 laths. Color available: Orange; Yellow available by special order of 20+.

- 20-764** Oversized Bag for 48" (122cm) long laths
- 20-765** Bag for 36" (91cm) long laths, over the back style
- 20-766** Bag for 48" (122cm) long laths, with handles to carry like a tool box



CST Contractor's Pouches

11-740 Surveyor's 7-Pocket Professional Pouch

Made of top grain saddle leather with a wide preformed pocket for standard field books, a pocket for six-foot box rules, two pockets for markers and crayons, and a tapered holster for plumb bobs up to 16 oz. in size. Includes a snap-lid front pocket and an open-end side pocket with space for 10 marking pins.



11-741 6-Pocket Pouch

Large 9" x 12" (23cm x 30cm) belt loop pouch. Storage slots are provided for carrying lumber crayons, felt markers, wood rulers or other tools.



11-743 Heavy Duty Web Belt

Adjustable utility belt features a strong snap-on buckle assembly and can be used for carrying scabbards and tool pouches.



11-744 8-Pocket Nail & Tool Bag

Made of heavy duty "ball glove" leather. (Not Shown)

11-745 Saddle Leather Tape Holder

Holds most 16' and 25' "pocket" tapes. Snap closure.

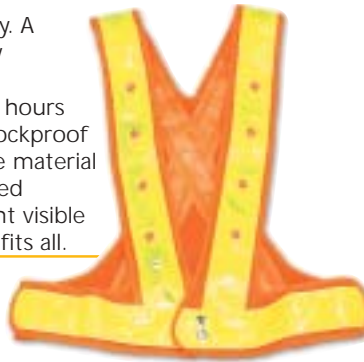


CST
Lighted Safety Vest

Keeps workers visible night and day, wet or dry. A must for surveyors, construction and highway workers.

Embedded ultra-bright LEDs provide over 200 hours on only two "AA" batteries, a compact and shockproof power supply. Using Reflexite™, the reflective material chosen by professionals, the LEDs are magnified hundreds of times to create a "beacon" of light visible over 400 yards (365m). Snap closure, one size fits all.

23-600 Lighted Safety Vest, one size fits all



CST
P.V.C. Traffic Cones

"Tri-Glo" bright red-orange fluorescent cones with weighted base meet most state specifications. Nonabsorbent, flexible, tough and easy-to-clean with solvents or detergents; will not crack, peel or chip.

- 23-400** 12" (30cm) Size, 1 lb. 6 oz. (0.6kg) net wt.
- 23-401** 18" (45cm) Size, 3 lbs. (1.4kg) net wt.
- 23-402** 28" (71cm) Size, 8 lbs. (3.6kg) net wt.



CST
Safety Caps

Our safety caps are injection molded with "EASTUFF" high density polyethylene, developed specifically for safety caps. Penetration, impact, chemical and voltage resistant. Popular rain trough design, 6-point suspension, with built-in nape snaps. Flat front panel allows hot stamping of company identification. Fits head sizes 6 1/2 to 8, weight 14 oz. (0.4kg). Complies with OSHA requirements ANSI Z 89 1-1969, Class A and ANSI Z 89 2-1971, Class B. Other colors available on special order.

- 23-500** Safety Cap, white
- 23-501** Safety Cap, orange
- 23-502** Replacement Suspension for Above
- 23-503** Chin Strap
- 23-504** Deluxe Flannel Naped Winter Liner; universal size, flame retardant

CST
General Purpose Safety Vest

Plain weave, coated industrial nylon vest features Velcro closure. Dayglow red-orange.

23-300 Safety Vest

CST
Warning Flags

Replaceable vinyl coated nylon flag on 7/8" diameter wooden staff. Color: Fluorescent red-orange.

- 23-100** 18" (45cm) Square Flag, 24" Staff
- 23-101** 18" Replacement Flag Only
- 23-102** 24" (61cm) Square Flag, 30" Staff
- 23-103** 24" Replacement Flag Only

CST
Lighted Tripod/Safety Belt

Offers additional protection for you or your roadside instruments; highly visible and effective on tripods. Operates on two "AA" batteries—not included.

23-601 Lighted Safety/Tripod Belt, 46" length



CST
"Heads Up" Rod Level

Safety first with the "Heads Up" rod level from CST. We've added safety to routine surveys in traffic areas. "Heads Up" rod level allows the rod person to look up, keeping the instrument person in sight and know when to relax or "plumb up". No more neck aches from looking up and down frequently.

- One precise 10 minute vial
- Two viewing angles with large viewing aperture: 7/16"
- Special penta prism allows direct reading of adjustable circular bubble
- Machined aluminum housing with heavy-duty clamp screw allows use with poles of 19mm to 38mm (3/4" to 1-1/2") diameter.

06-751 "Heads Up" Rod Level



CST
Rod Level for Wood Rods

CST's rod level now includes a 10-minute circular vial for improved accuracy! Heavy-duty frame is made of a strong aluminum die casting, painted a bright red. The vial is a large 7/8" diameter, 10 min. per 1" sensitivity, securely mounted into a recessed black housing.

06-750 Rod Level, adjustable vial



Miscellaneous Field Supplies

The one-stop shop for builders, contractors, and surveyors

CST Tape Accessories

04-501 "Chicago" Marking Pins

Made of 3/16" spring steel, heat treated and hard enough for scribing into concrete and metal. These 14" pins, powder painted red and white (alternating each inch), come in sets of 11 pins per box. Meets military specifications.



04-506 Quiver for Marking Pins

Genuine leather "Chicago" quivers are shaped for convenient carrying when strapped around the waist.

04-511 Marking Pin Carrying Ring

3/16" spring steel carrying rings are brightly chrome plated to insure the longest possible life.



04-710 Tape Clamp Handle

Used for quick, positive gripping of a steel tape at any point, and for applying light or heavy tension. Apply and remove by simply operating the handle. When used properly, it will not damage a tape in any way. Made of chrome-plated zinc alloy in the U.S.A.



04-866 Leather Thongs, pair

Practically unbreakable tanned leather straps, same as furnished with all Chicago chain tapes. Each is 24" long and 1/4" wide.

CST Pocket Magnifiers

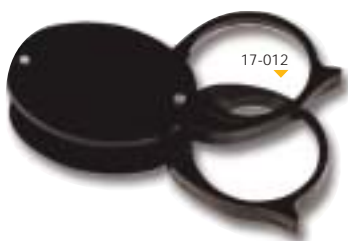
Made with high quality lenses and high impact plastic cases. Available in all popular styles.

17-004 4 Power, Single Lens, 1-1/4" Diameter

17-005 5 Power, Single Lens, 1" Diameter

17-012 4 or 8 Power, Two Lenses, 1-1/4" Diameter

17-015 5 or 10 Power, Two Lenses, 1" Diameter



CST Tally Counter

Four-digit counter registers up to 9999; return numbers to zero with a twist of the reset knob. Pressure on the button produces an audible click which signals the count, assuring a registered count without having to view the counter. Numbers are white on black for easy reading; a protective window seals out dirt and humidity. The chrome-finished case has a finger loop for a secure grip.

30-100 Four-Digit Mechanical Counter



CST Machete

A multiple use tool for weed growth, cleaning and cutting brush, vines and shrubs. Machete features a 22" (56cm) long polished blade with a 5" (13cm) long plastic handle. 21 oz. (.6kg) weight. Blade can take a razor sharp edge.

21-100 Machete Only

21-101 Top Quality Leather Sheath, with belt loop



CST Pocket Transits

An excellent instrument for preliminary surveys, topography, geological field work and reconnaissance. All units come complete with velvet-lined belt loop case.

17-651 Brunton Type Instrument; circle 0-360° damped

17-661 Brunton Type Instrument; circle quadrants damped



CST Digital Planimeters

Features an LCD 8-digit display and $\pm 0.2\%$ accuracy (within ± 2 /1,000 pulses). Maximum accumulated measuring value is 10m2 (scale 1:1). Rechargeable Ni-Cad battery– 15 hour charge time provides approximately 30 hours of continuous operation; or choose AC 100V, 120V, 220V, or 240V using the AC adapter with automatic power-off function. Includes AC adapter/battery charger and plastic case.

18-80N Polar Type with Computing function

10 symbol display: Batt-E, SCALE, MEMO, HOLD, cm2, m2, km2, in2, ft2, acre; unit and scale value converting function. Measuring range: maximum (pole placed outside pattern), 3000 \emptyset ; maximum (pole placed inside pattern), 8000 \emptyset . Weight: 780g.

18-82N Polar Type with Single Function

5 symbol display: Batt-E, MEMO, HOLD, cm2, in2, unit (cm2, in2) converting function. Measuring range: maximum (pole placed outside pattern), 3000 \emptyset ; maximum (pole placed inside pattern), 8000 \emptyset . Weight: 780g.



18-90N Roller Type with Computing Function

10 symbol display: Batt-E, SCALE, MEMO, HOLD, cm2, m2, km2, in2, ft2, acre; unit and scale value converting function. Measuring range: maximum vertical width, 325mm; horizontal roller rotating length, 30m. Weight: 750g.

18-92N Roller Type with Single Function

5 symbol display: Batt-E, MEMO, HOLD, cm2, in2, unit (cm2, in2) converting function. Measuring range: maximum vertical width, 325mm; horizontal roller rotating length, 30m. Weight: 750g.

CST Run-Mate™ Curvimeters

Great for engineers, draftsmen, architects, etc., measure straight and curved lines by hand. Measurement of angles, maps and drawings is easy for both right and left hands due to a "pen-like" shape and rotatable head. Built-in fully operational calculator permits simultaneous calculations. Plus, they're the only curvimeters with a nonskid, wear resistant, and highly accurate measuring wheel.

Run-Mate™ "Club" Curvimeter

The value packed map measure for professional use.



Features:

- Measures in miles, nautical miles and km, mutually convertible in any scale (up to eight digits maximum)
- Keeps the last unit and scale in memory after shut-off
- Easy to program in metric: m, dm, cm, mm

18-201 Run-Mate Club Curvimeter

Run-Mate™ "Hi-Tech" Curvimeter

Run-Mate™ copyrighted custom microcomputer powers a calculator with all common functions, including memory and factor. The Hi-Tech can be preprogrammed in any scale, and counts elements with the same length in any scale. Automatic shut off after five minutes of nonuse preserves batteries.



Features:

- Digital LCD display shows eight digits plus these visual indicators: run/cal, km, m, cm, mm, feet, inch, mile, x, ?, -
- Can measure in: mm, cm, km, inches, feet and miles, mutually convertible– Minimum on display: 0.0393" (1mm)
- Accurate to within $\pm 0.2\%$
- Interruption technique: mechanical/infrared light
- Includes case, batteries, and user's guide with examples

18-200 Run-Mate Hi-Tech Curvimeter

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