



PRODUCTS AND SERVICES FOR ARCHITECTS, CONTRACTORS, ENGINEERS & SURVEYORS

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In Kent: 425.251.9722
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Smaller Lighter Faster Longer

FC-200
Field Controller
Fastest compact
controller available



RC-3
Quicklock Remote
Optical robotic data
communications



Introducing the new GPT-9000A/GTS-900A robotic series

Take a close look at the new Topcon robotic series. Its sleek new look will get your attention, but the ways it will boost your productivity will make you want it.

Paired with the powerful, new FC-200 field controller and the elegant, new RC-3 Quicklock remote, it's the high-performance surveying package of your dreams.

- Longest reflectorless range (2000 meters)
- X-Trac prism lock for high-speed tracking
- No cables at rod or instrument
- Integrated spread spectrum radio

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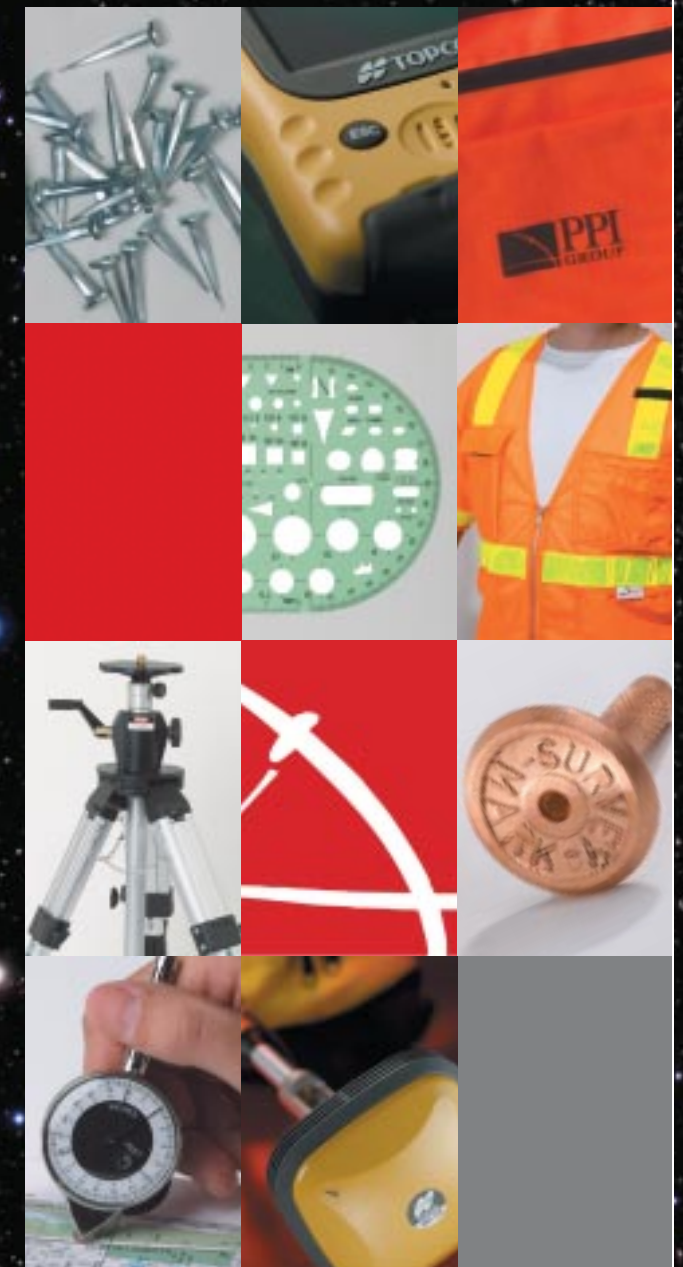
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“At the PPI Group,
you can trust us for both



ABOUT THE PPI GROUP

Old School Service and New Age Results.”

Why Partner with The PPI Group?

The PPI Group was originally started in 1927 with navigation and surveying instrumentation and repair. As time passed our business model changed to incorporate our metrology services in the 1960's and our software department in the 1980's. Our business has expanded to 2 different full service locations in Portland, OR and Kent, WA as well as a small repair shop in Spokane, WA. While we hope you enjoy our latest supply and accessories catalog, we also hope that you will visit our fully stocked showrooms with a diverse display of supplies and instrumentation in Portland, OR and Kent, WA.

Lead by Example

The PPI Group is a leader in the Architectural, Engineering and Construction (AEC) market largely due to the fact that we offer the products, services and accessories on the instrumentation side, but we also offer the software that helps bridge the gap between different disciplines. In a sense, The PPI Group is a “One-Stop Shop” for your A/E/C needs.

Knowledgeable Staff

We are very proud to say that the average length of employment at PPI is over 8 years. The knowledge and experience of a company's staff can be a huge asset to a firm. We take pride in our employees having this understanding. Our customers find this as an added benefit to doing business with us, since they can get their questions answered and product ordered, correctly, the first time.



An important part of the Autodesk team,

The PPI Group can provide product expertise, a deep understanding of your industry, and value that extends beyond your software purchase.

For all Autodesk® Software Sales and Training inquiries, contact:

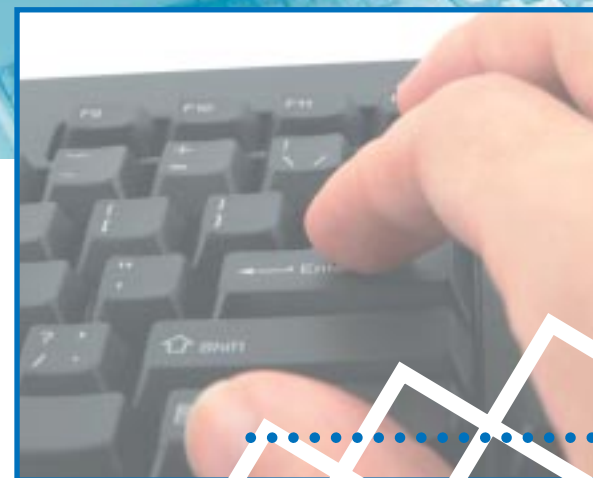
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Autodesk
Authorized Value Added Reseller

Autodesk
Authorized Government Partner



Autodesk® Software and Training

Choosing the right tools and services for your business is an important decision, and then you're faced with the challenge of successfully incorporating them into your processes to get the best return on your investment. Whether you own a small or large business, or are part of the government, or commercial sectors, you can rely on The PPI Group to give you the help you need. An important part of the Autodesk team, The PPI Group can provide product expertise, a deep understanding of your industry, and value that extends beyond your software purchase.

Certified Instructors

Our staff of Autodesk certified instructors are approved by Autodesk and have experience in the industries you work in. Our instructors incorporate Autodesk approved courseware as additional learning material to give the student a dynamic learning experience. Our students are guaranteed to leave our classes with increased productivity at the office.

Custom & Private Training

We offer individual or group, custom or private training to meet your specific needs. With our mobile training lab, we have the ability to train at your office or at one of our convenient training locations.

Small Hands-On Classes

Our small hands-on classes provide you with your own workstation for the duration of the class as well as the ability to interact with other students and the instructor. Our training facilities offer top of the line technology, free and ample on-site parking, and a comfort lounge for break periods.

Satisfaction Guaranteed

The PPI Group acknowledges the cost and time investment to attend training. We want you to feel that you have benefited from the professional training you take with us. The PPI Group also offers CES and AIA credits on all Autodesk training classes. Please visit our website for our full training policy.

PPI - Kent now an Authorized Training Center!

The PPI Group's Kent, Washington location is now an Autodesk Authorized Training Center. What does this mean for the student? It means that by taking training from The PPI Group, you are guaranteed to be taught by an instructor who is certified to teach on a wide range of Autodesk products for users at all levels. When you attend a class taught at an ATC, you know the training will be first-rate.

To view our current training schedule, pricing and promotions, please visit our website: www.thePPIgroup.com



The PPI Group is proud to provide a full line of products and services for the geospatial community. We carry everything from the handheld GIS mapping system -- the Topcon GMS-2 to the entire line of geospatial software products such as Autodesk® Map 3D, Autodesk® MapGuide & Autodesk® Topobase.

FOR MORE INFORMATION:

IN OREGON 503.231.1576 OR 800.247.1927
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 ON THE WEB: WWW.THEPPIGROUP.COM

FOR THE MAPPING PROFESSIONALS IN YOUR ORGANIZATION, THE PPI GROUP OFFERS A COMPLETE LINE OF GEOSPATIAL INSTRUMENTS AND SOFTWARE, AS WELL AS THE ACCESSORIES, TRAINING AND CUSTOMIZATION AND IMPLEMENTATION SERVICES YOU NEED TO PRODUCE RELIABLE AND CONSISTENT INFORMATION.





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The PPI Group has long been one of the leaders in the sales and service of machine control and automated construction equipment on the West Coast. We believe in offering only the highest quality Topcon products in the industry. Topcon machine control products are accurate, durable and affordable. Regardless of the type of equipment you use, we will offer a product that is specific to your industry that will increase your equipment's efficiency and accuracy. Our full staff of highly-specialized service technicians can also offer on-site training, installations and repair at your job site.

For more information:
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Topcon instruments provide outstanding results with "industry first" innovations.

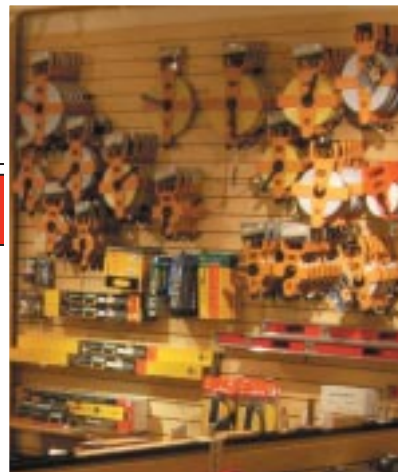
The PPI Group carries the most innovative optical, GPS, and laser products in the industry. Topcon instruments are the leader in the latest technologies. Topcon instruments provide outstanding results with "industry first" innovations. The PPI Group has instruments for all of your survey & construction applications. We are here to assist you before and after the sale, with our knowledgeable sales staff and on-site repair centers.

We carry Topcon lasers, Total Stations, Auto Levels, GPS equipment and more! For more information:

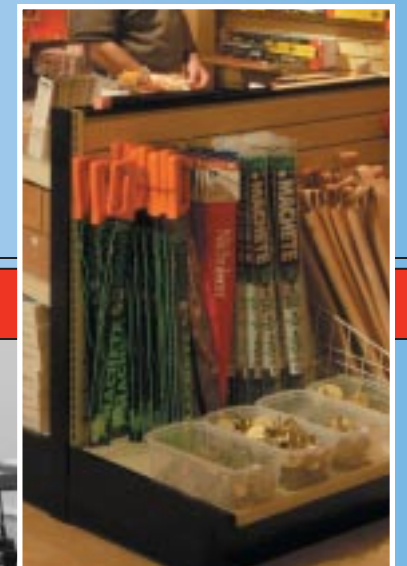
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Visit our Stores!



SMARTTOOL

SmartTool™ digitally displays degrees, percent slope and pitch to 1/10 degree accuracy. Extremely durable, it will keep its accuracy for years with push button calibration. Features audio sound at level and plumb. Includes 9 volt battery.

- # SMA-92288 Sensor Module in a 2 ft. rail
- # SMA-92296 Sensor Module in a 4 ft. rail
- # SMA-92346 Module Only -
Can be used alone or with Carpentry and construction levels (Regular & Magnetic)
- # SMA-92395 Magnetic Bracket (Use with module)

- Accessories
- # SMA-92445 Reflective Targets (3 Small, 2 Large)

- Bags & Cases
- # SMA-92908 SMARTtool/American Soft Case 24"
 - # SMA-92924 SMARTtool/American Soft Case 48"
 - # SMA-93005 American Hard Plastic Case 48"

- Rails
- # SMA-63362 Carpentry & Construction 24"
 - # SMA-63370 Carpentry & Construction 24" SMARTTool
 - # SMA-63388 Carpentry & Construction 48"
 - # SMA-63396 Carpentry & Construction 72"
 - # SMA-63404 Carpentry & Construction 78"
 - # SMA-63412 Carpentry & Construction 96"
 - # SMA-63420 Carpentry & Construction 24" MAGNetic
 - # SMA-63438 Carpentry & Construction 48" MAGNetic
 - # SMA-63446 Carpentry & Construction 72" MAGNetic



Module



Module in a 4ft Rail



Module in a 2ft Rail



Magnetic Bracket



**SMARTDOT™
BUILDER'S LASER®**

This low cost laser makes layout projects faster and easier and more affordable because they can be done with one man instead of two.
#SMA- 92437

POCKET LEVEL LASERS



POCKET LEVEL LASERS

PLS2E LASER

Plumb, level and square hand held laser line tool. Fast accurate and portable, the PLS2 Palm Laser saves you time and money. Accurate to 1/8" at 30 feet.

PLS-2 Includes: PLS2 laser unit, carrying pouch, operating manual and wall bracket



PLS-3 LASER

Layout reference points faster than traditional, labor intensive methods. No more 3-4-5. No more swinging plumb bobs. Plumb instantly from floor to ceiling or from 50 feet off the ground! Self-leveling: no time wasted with bubble vials. Turn it on and go to work. Take clear, stable reference points indoors or outdoors. Accuracy: 1/4" @ 100'.

PLS-3 Includes: PLS3 laser unit, carrying pouch, operating manual, floor stand and wall bracket.



PLS-5 LASER

The PLS5 is a hand held auto leveling laser alignment tool with simultaneous plumb, level and square instantly. Self leveling, no bubble vials or knobs. Turn it on and go to work. Guaranteed accurate within 1/8" @ 100'. Five bright reference points. Visible indoors and outdoors. No detector necessary. Battery powered alkaline or rechargeable AA batteries. Durable, compact and lightweight.

PLS-5 Includes PLS5 laser unit, magnetic bracket, pendulum target, floor stand, operating manual and compact case.



PLS2E LASER SYSTEM

Check existing conditions before you submit your bid! Lay out all your alignment tasks with the PLS2E in the palm of your hand. The system includes PLS2E laser unit, carrying pouch, operating manual, 1 year warranty, magnetic wall bracket. Accuracy 1/8" at 30 feet.

#PLS-2E Includes: PLS-LD laser detector.



"Fast, accurate and portable – the PLS laser will save you time and money when your rotary laser is too cumbersome to do the job."

-Pacific Laser Systems

PLS5X LASER

The PLS5X is designed for layout of control points and lines in outdoor conditions, especially in bright sunlight. Lay out conduit, anchor bolts and square on slab faster than ever before. Eliminate time consuming set up of infrared rotary lasers. PLS5X offers more utility outdoors at a fraction of the cost of typical rotary lasers. Working range is 250+ feet with an accuracy of 1/8" at 100 ft. The system includes PLS5 laser unit, pendulum target, floor stand, 1 year warranty, operating manual, carrying case, magnetic wall bracket.

#PLS-5X Available with or without the laser detector.



The PPI Group offers tripods to suit all setup applications, from heavy duty to light weight, from wood to aluminum, we sell only tripods that are accurate, reliable and easy to set up.

TRIPODS AND TRIBACHS



TRIPODS AND TRIBACHS



1. TP-10 TOPCON ALL WOOD

All wood extension leg tripod made from seasoned hard maple, offers great stability when high accuracy is needed. Yellow finish with orange hardware for maximum visibility. Closed height is 42.5 inches, extends up to 68.5 inches.

#1 TP100 2. # TP110

2. SOKKIA ALL WOOD

Made from North American maple and all metal hardware, with self-adjusting hinges and durable nylon bushings for smooth operation. Closed height is 45 inches, extends up to 72 inches. Yellow finish, with carrying handle.

SOK-7512-52

3. CRAIN WOOD/FIBERGLASS

Available in quick clamp or screw clamp. Wood and fiberglass combination helps prevent problems caused by swelling. Closed height is 46 inches, extends up to 72.5 inches.

CRA-22217 Quick Clamp
CRA-22218 Screw Clamp
CRA-22219 Dual Clamp

4. CRAIN TRI-MAX COMPOSITE TRIPOD

Accuracy: Sub-Second stability. Durable: Rugged construction with Advanced Fiberglass Composite. Carry handle and Carry with shoulder pad. Utility rings for attaching accessories. Quick Clamp lever-cam locking system.

CRA-90550 Quick Clamp
CRA-90551 Screw Clamp
CRA-90553 Dual Clamp

5. CST WOOD/FIBERGLASS

Wood/fiberglass combination extension leg tripod. Available in quick clamp only. Closed height is 42 inches, extends up to 72 inches.

CST-60-WDF20

6. ECONOMY ALUMINUM ELEVATOR TRIPOD

This tripod is ideal for quickly setting your laser to the height you need. It extends to 7.6 feet and features a built-in circular vial with in the instrument head, quick clamp legs, black hardware and safety chains on legs to prevent slipping on hard surfaces. Weighs 15.4 lbs.

SEC-5321-15

7., 8. & 9. HEAVY DUTY ELEVATOR TRIPODS

These heavy duty elevator tripods feature all-surface rubber feet, ideal for grabbing slick surfaces such as floor or concrete. Feet can be retracted to reveal sharp metal points for use on uneven outdoor terrain. Features wing screw clamping with an adjustable center column. The adjustable column has a height adjustment range of 12" and improved gear system for smooth continuous motion. 5/8" x 11" Thread Stud.

CST-60-ALW10ELAZ 46" open, 25" closed
CST-60-ALW20ELAZ 88" open, 48" closed
CST-60-ALW30ELAZ 128" open, 68" closed

10. ALUMINUM WING SCREW TRIPOD

This aluminum tripod offers durability and strength with wide frame extension leg type. Features inter-changeable heads and comes complete with polywebbing strap and replaceable hardened steel shoe points. Wing screw type clamping.

CST-60-ALW10
Flat Head, 5/8" x 11 Thread Stud, 25" Open, 19" Closed

The PPI Group offers tripods to suit all setup applications, from heavy duty to light weight, from wood to aluminum, we only sell tripods that are accurate, reliable and easy to set up.

TRIPODS, BIPODS AND TRIBACH ADAPTERS



TRIPODS, BIPODS AND TRIBACH ADAPTERS



1. & 2. PPI ALUM FLAT / DOMED HEAD

Heavy-duty, quick-clamp aluminum tripod. Closed height is 41 inches, extends up to 66 inches. Black hardware, with carrying handle.

- 1. # PPI-ALUM FLAT HEAD
- 2. # PPI-ALUM DOMED HEAD

TOPCON LW ALUM TRIPOD

Our aluminum tripod has value written all over it. Only 9lbs. this tripod is stronger and more rigid than comparable tripods. With the surelocking, quick action, easy to use Quick Clamping System. 63" opened/38" closed. 5/8" x 11" flat head. (not pictured)

- 1. # TP100 Light Weight
- 2. # TP110 Medium Weight

3. PVC COATED WOOD TRIPOD

This medium duty tripod is coated with durable PVC and is ideal for transits/levels. Features Quick-Clamp Leg Locks, flat head, 5/8" x 11" Thread. Weight 12.5 lb. .69" opened/42" closed.

TP-73

4. & 5. DUTCH HILL HEAVY DUTY TRIPOD

Yellow with black hardware. Fiberglass, fiber reinforced polymer. Stainless steel fasteners. "Gorilla Tough". Height opened 72", closed 44". 12 lbs. 3 year warranty.

- 4. # DUT-6T2000
- 5. # DUT-6T1000

OPTICAL PLUMMET TRIBRACH

Built-in 2.2X optical plummet telescope, universal focus, erect image, three leveling screws, circular level (10'/22mm sensitivity), and fine horizontal adjustments.

- # TOP-55501
- # SOK-731135



TRIPOD ADAPTERS

Adapts 5/8" x 11" tripod to 1/4" x 20". Constructed of anodized aluminum.

SEC 2132-01

Adapts 5/8" x 11" tripod to 3 1/2" x 8". Constructed of anodized aluminum. # SEC-2120-00

Adapts 3 1/2" x 8" tripod to 5/8" x 11". Constructed of anodized aluminum. # SEC-2130-00



GPS AND PRISM POLE BI-PODS

- Constructed of sturdy durable aluminum
- Electrostatically powder-coated
- Create free-standing prism or target stations
- Legs extend to 6' (1.8m) for use in rugged terrain
- Feature a universal head that will accommodate poles from 3/4" (19mm) to 1 1/2" (37mm) diameter.

Carbon Fiber Thumb Release Bipod # SEC-5219-03
12" Open Clamp Bipod # SEC-5217-15

THUMB RELEASE BIPOD

Legs extend to 6 feet for use in uneven terrain. Collapses to 43". Available in red, yellow, fluorescent yellow and fluorescent orange.

SEC-5217-04

QUICK-RELEASE BIPOD

The fastest bipod setup available. Use the quick-release handles to drive the leg points into the ground, and to level the circular vial on your pole. Quick breakdown: Grab and squeeze both handles, collapse the legs and lift the pole to move to your next location. Extends to 87" and collapses to 46".

SEC-5211-01 Not Pictured

THUMB RELEASE TRIPOD

This tripod has all of the same features as the Thumb Release Tripod, but includes the extra leg. Available in red, yellow, fluorescent yellow and fluorescent orange.

SEC-5218-02 Not Pictured

Bipod Quick Release # SEC-5211-01

QUICK-RELEASE TRIPOD

This tripod has all of the same features as the Quick-Release Bipod, but includes the extra leg.

SEC-5210-01



BIPOD LEG CLIP

The new Bipod Leg Clip easily attaches to the base of any 1" prism or antenna pole. The bipod legs snap into the Clip making the system convenient for transport or storage.

SEC-5217-30



TRIBRACH ADJUSTING CYLINDER AND TRIBRACH ADJUSTER

For checking and adjusting optical plummet tribrachs in the office. The optical plummet adjuster is precision machined black anodized aluminum.

SEC-2001-00

Use this tool for checking and adjusting plummet tribrachs and tribrach bubbles. Precision machined anodized aluminum with 2 minute bubble.

SEC-2002-00



SEC-2001-00

SEC-2002-00

TRIBRACH ADAPTER

The rotatable friction top adapter allows the prism to be pointed after installation in the tribrach. Made of black anodized aluminum with brass fittings.

- # SEC-2020-00 ROTATING
- # SEC-2010-00 FIXED TRIBRACH ADAPTER
- # SEC-2070-00 ROTATING TRIBRACH ADAPTER WITH PLUG
- # SEC-2071-00 PRISM H.T. ADAPTER



SEC-2020-00

SEC-2010-00



SEC-2070-00

SEC-2071-00



TELESCOPING PRISM POLES

- Constructed of sturdy aluminum
- Red and white electrostatic powder paint coating
- Permanent silk-screened graduations
- Compression locks and tips are brass
- Surloc & Quick Release locking mechanisms & on-board vials are made from anodized aluminum

TLV™ - Twisting lock with vial is wear-resistant for long life. Features soft rubber knob that is easy to tighten or loosen and a convenient 40-minute vial built in to the lock. Moving the vial to the lock frees up space on the pole for other accessories.

Quick Release System - The SECO Quick Release handle lock allows for a simple and fast setup. This locking mechanism now features adjustable tension via a set screw in the handle and another set screw to assist in keeping the spring in position.

Compression Lock System - Provides a positive hold and years of error-free operation. The compression lock is constructed of brass and aluminum.

SurLoc™ - Allows Fast, simple setups and easy locking.

SEC-5500-11
8.53 ft. collapses to 4.97 ft. Weighs 3.3 lbs., TLV lock, dual graduation, tip adj. 5/8" x 11

SEC-5500-21
11.81 ft. collapses to 5.18 ft. Weighs 5.1 lbs., TLV lock, dual graduation, tip adj. 5/8" x 11

SEC-5500-30
15.25 ft. collapses to 5.41 ft. Weighs 7.6 lbs., TLV lock, dual graduation, tip adj. 5/8" x 11

SEC-5700-10
8.53 ft. collapses to 4.97 ft. Weighs 3.3 lbs., Quick Release lock, dual graduation, tip adj. 5/8" X 11

SEC-5700-20
11.81 ft. collapses to 5.18 ft. Weighs 5.1 lbs., Quick Release lock, dual graduation, tip adj. 5/8" X 11

SEC-5600-10
8.53 ft. collapses to 4.97 ft. Weighs 3.3 lbs., Compression lock, dual graduation, tip adj. 5/8" X 11

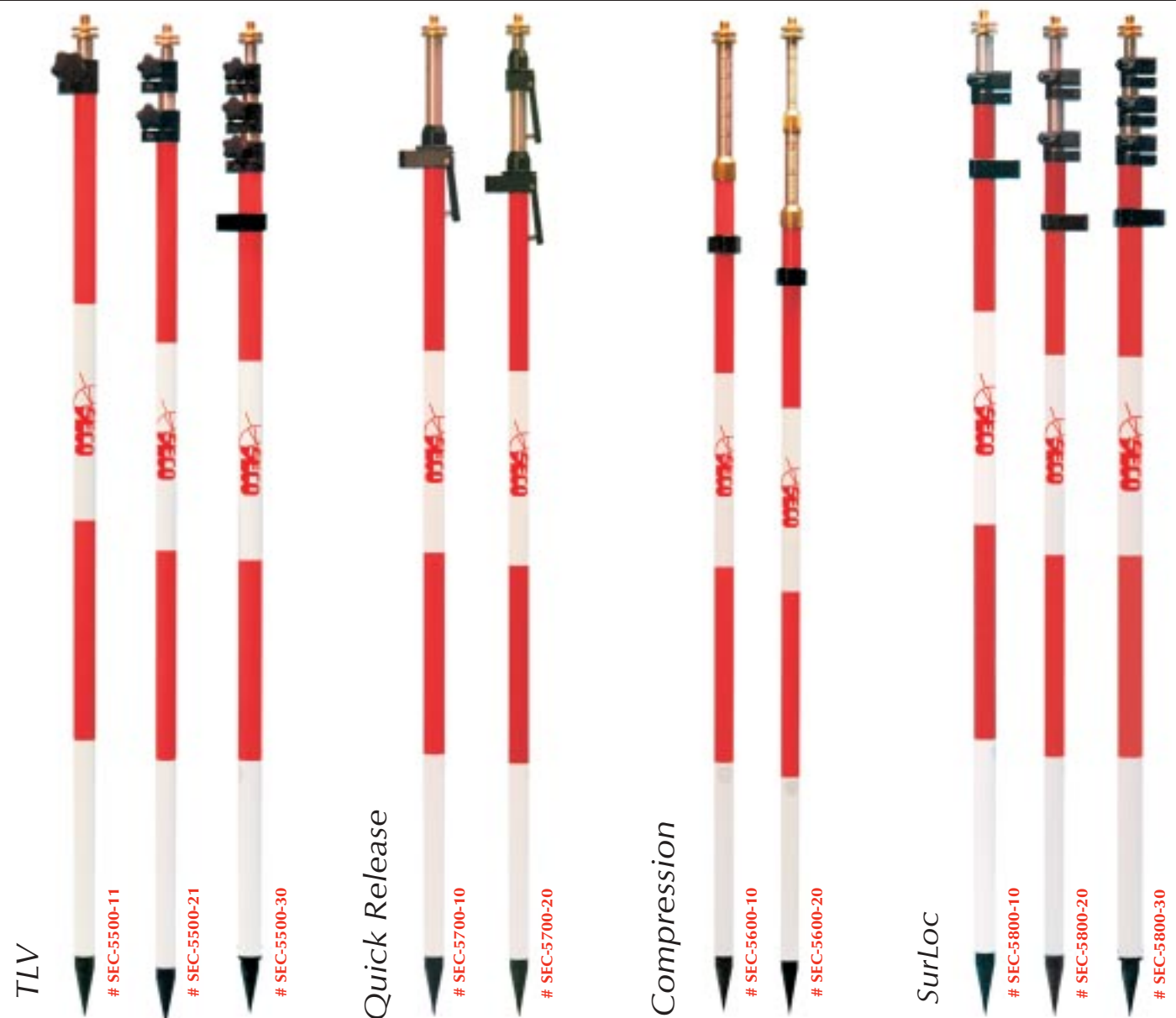
SEC-5600-20
11.81 ft. collapses to 5.18 ft. Weighs 5.1 lbs., Compression lock, dual graduation, tip adj. 5/8" X 11

SEC-5800-10
8.53 ft. collapses to 4.97 ft. Weighs 3.3 lbs., SurLoc lock, dual graduation, tip adj. 5/8" X 11

SEC-5800-20
11.81 ft. collapses to 5.18 ft. Weighs 5.1 lbs., SurLoc lock, dual graduation, tip adj. 5/8" X 11

SEC-5800-30
15.25 ft. collapses to 5.41 ft. Weighs 7.6 lbs., SurLoc lock, dual graduation, tip adj. 5/8" X 11

SEC-90280
8' 2 Sect. compositelite (fiberglass) prism pole



SECO POLE PEG ADJ. JIG
A convenient tool for adjusting and calibrating prism pole vials.
SEC-5195-01

TWO SECTION CARBON FIBER ROBOTICS PRISM POLE
8.53 ft. collapses to 4.97 ft. Weighs 2.3 lbs., TLV lock, dual graduation, tip adj. 5/8" x 11
SEC-5129-52

CARBON FIBER PRISM POLE
8.53 ft. collapses to 4.97 ft. Weighs 2.3 lbs., TLV lock, dual graduation, tip adj. 5/8" x 11
SEC-5129-54

8' RANGE POLE
Heavy duty 1-1/8" (29mm) aluminum, has two 4 foot (1.2m) sections. Hardened steel point is included
SEC-5140-00

PRISM POLE ACCESSORIES

- A. # SEC-5190-00** Prism Pole Point
- B. # SEC-5191-00** Prism Pole Topo Shoe
- C. # SEC-5192-00** Wide Base Topo Shoe
- D. # SEC-2080-00** Wild Prism Adapter
- E. # SEC-5180-00** Prism Pole Point Double male 5/8" x11 adapter
- F. # SEC-2090-00** Wild Prism Pole Adapter
- G. # SEC-5194-00** Prism Pole Point with removable tip

SIGHT POLE
6" long
SEC-6330-10

BULL'S EYE CIRCULAR LEVELING VIAL
For use checking level of machinery, tools and instruments. Plastic housing mounted on metal base.
PPI-8130-52

TOTAL PRISM SYSTEM

The SECO Eclipse Total Prism System features a 62mm prism. The tilting prism holder is constructed of DuPont Zytel which will not crack or break like conventional plastic prism holders. Includes a reversible, two-color target. A minus 30mm adapter is included. Height from base of prism to center of glass: .38ft 115mm). # SEC-6400-00



PREMIER PRISM ASSEMBLY

Features a copper-coated, canister-type prism. Waterproof with an M20 universal mounting thread. The tilting holder is anodized aluminum and features a locking clamp screw design and 18-gauge steel target. Can be mounted in either 0- or -30 mm offset positions. # SEC-6422-02



SINGLE PRISM TILTING ASSEMBLY

This assembly consists of a durable aluminum -30-mm offset prism holder, which is coated with corrosion-proof electrostatic powder paint, and a copper-coated 62-mm prism. # SEC-6440-00



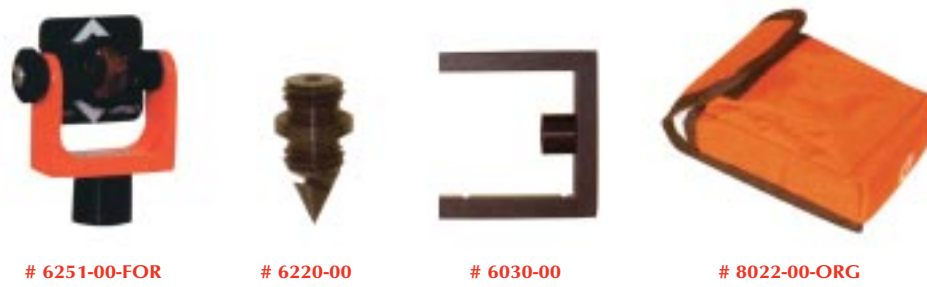
STANDARD PRISM ASSEMBLY

The Standard Prism Assembly features a copper-coated, canister-type prism. Waterproof with an M20 universal mounting thread, simple but proven locking system. Prism can be mounted in either 0- or -30-mm offset positions. # SEC-6402-10



25MM PRISM SYSTEM

This system includes a complete tilting Mini Prism Assembly (# 6251-00-FOR), Point (# 6220-00), Bob Prism Mount (# 6030-00), and padded nylon Cordura belt case (#8022-00-ORG). # SEC-6200-00



25MM STAKEOUT PRISM ASSEMBLY

This 25 mm copper-coated prism features aluminum double yoke construction with a tilting coaxial target. It has an adjustable offset of 0, -30 mm. There are on-board 130-minute vials, top & bottom. It includes replaceable plumb bob point. Comes with case. # SEC-6405-01



MINI-STAKEOUT PRISM KIT

The white site cones, of this kit, on X and Y axis help improve centering of your instrument crosshairs for vertical and horizontal pointing. It can be used in four height configurations: 50 mm, 100 mm, 115 mm and 150 mm, top or bottom of the pole, handheld, or tribrach mounted. # SEC-6405-11



MINI PRISM POLE SYSTEM

The Mini Prism Pole System is a Euro-style sectional pole that can be assembled in various configurations. Lightweight and very portable. Prisms can be mounted on top, bottom or in between sections. All lengths of components are known so the prism height can easily be calculated. The system is powder-coated fluorescent orange and white. Weighs 1.2 lb (.54 kg). Comes with tilting prism and holder with built-in 30 minute circular vial; height point with replaceable hardened plumb bob point; Four 30 cm sections; Cordura carrying case. # SEC-5910-00



GPS BACKPACK

This pack features a heavy-duty freestanding aluminum frame with SurLoc antenna pole extensions. It includes three adjustable internal pockets, two side and two bottom egress openings for cables, and four cable straps. It also has adjustable pockets in three sizes. # SEC-8124-00



PRISM BAG

Heavily padded for prism assemblies.

- 1. # SEC-8070-00 5"x7"x2"
- 2. # SEC-8081-00 9"x9"x5"
- 3. # SEC-8082-00 12"x12"x3"
- 4. # SEC-8080-00 9"x7"x2"
- 5. # SEC-8130-00 15"x7"x2"
- 6. # SEC-8071-00 6"x6"x2"



TOTAL STATION FIELD CASE

Heavy-duty, water-resistant polyester, featuring two-inch foam padding on all sides.

- 1. # SEC-8120-00 19" x 10" x 7" Front load
- 2. # SEC-8121-00 15" x 7" x 7" Top load



ROBOTICS BACKPACK

Designed specifically for robotics, this pack features a double-zipped top-loading station compartment lined with rigid foam padding, two side pockets for cables, and one front battery pocket. It has a top rain flap with hook-and-loop closure and rain flaps on the side pockets. The free-standing aluminum frame keeps the pack upright even when fully loaded. It has a comfortable padded belt with new lumbar back support system, shoulder straps with all-point adjustment features, and a rubberized carrying strap. For safety, the pack has 1.13" yellow retroreflective stripes on all sides. # SEC-8134-00-GRN

SMALL GIS BACKPACK

This smaller GIS pack includes a cam lock antenna pole, internal adjustable sleeves, several interior pockets for storage, belt loop straps, a rain flap and much more. # SEC-8125-50-ORG

CAM LOCK ANTENNA POLE

The pole extends from 16.5" to 36.5" # SEC-5139-01



LARGE GIS BACKPACK

This pack, which includes cool mesh and foam back pad and offers a convenient and comfortable way to transport and manage GIS instrumentation. A built-in pocket for CamelBack or other hydration systems and a protective rain flap round out this pack. # SEC-8125-00-ORG

THE PPI GROUP OFFERS ONLY THE HIGHEST-QUALITY, MOST DURABLE LEVELING RODS AND CASES AVAILABLE. LET US HELP YOU FIND THE ROD YOU NEED!

WHICH ROD DO YOU NEED?



RODS & ACCESSORIES



CR SERIES FIBERGLASS LEVELING ROD

- Rectangular shape
 - Recessed graduations
 - Direct compatibility with EDM and Laser brackets
 - Reliable, unbreakable buttons securely lock together
- # CR-92001 8 ft. rod, graduated in tenths
 - # CR-92002 8 ft. rod, graduated in inches
 - # CR-92021 13 ft. rod, graduated in tenths
 - # CR-92022 13 ft. rod, graduated in inches
 - # CR-92041 16 ft. rod, graduated in tenths
 - # CR-92042 16 ft. rod, graduated in inches
 - # CR-92031 20 ft. rod, graduated in tenths
 - # CR-92032 20 ft. rod, graduated in inches
 - # CR-92043 5.0M Philly Metric



SEC-5001-20

ROD LEVELS

Provides a quick and accurate method to determine if a rod is perpendicular. Fits round or rectangular rods.

- # SEC-5001-10 Rod Level, 30 min
- # SEC-5001-20 Rod Level Heads-Up
- # SEC-5001-11 Rod Level Snap-On, 130 min



CMR SERIES MEASURING RULER

A versatile tool for fast and accurate one-person measuring, the CMR Series is the tool for measuring heights, clearances and horizontal distances up to 50 feet. Made of rugged, non-conductive fiberglass, the height rod is lightweight and designed for strength. Dual measuring scales: English and Metric, in in/cm increments. Direct reading at eye level. Positive snap lock buttons. Caliper tip and nylon carrying case included.

- # CR-90180 25' graduated - ft. / 7.62m
- # CR-90181 36' graduated - ft. / 11m
- # CR-90182 50' graduated - ft. / 15.24m



LR STANDARD AND PROFESSIONAL SERIES LEVELING RODS

This is the original fiberglass rod. The Standard (STD) Series are round and have a smaller diameter making it easier to handle. Available in 25' lengths, 2 graduations and one metric scale. The Professional (PRO) Series are larger in diameter so that it is sturdier and easier to read at higher heights. This rod is available in 25', 35', and 45' lengths in Feet/Tenths/Hundredths.

- STANDARD**
- # CR-90004 25', 10THS
 - # CR-90009 25', 8THS
 - # CR-90014 7.5 METRIC
- PROFESSIONAL**
- # CR-90022 25', 10THS
 - # CR-90024 35', 10THS
 - # CR-90026, 45', 10THS



SOKKIA OVAL FIBERGLASS LEVELING ROD

- Unique patented oval shape
 - Numerals and graduations epoxy-protected
 - Made from strong, corrosion-proof fiberglass, lightweight, won't warp or swell
 - 5/8" X 11 female threaded hole on top for mini-prism
- # PPI-8073-48 25 ft., graduated in feet, 10ths, 100ths.



SVR SURVEYOR'S SERIES FIBERGLASS ROD

- Rectangular/oval shape
 - Strong, unique design
 - Patented recessed face
 - Threaded tip
 - Back side with measuring scale
 - Protective case included
- # SVR-90340 25 ft., graduated 10ths, 6 lbs.
 - # SVR-90341 25 ft., graduated 8ths, 6 lbs.
 - # SVR-90385 7.6M graduated 1cm Metric
 - # SVR-90387 7.6M Philly Metric



CRAIN ROD CASES

Bright orange protective case made of 1000 Denier nylon, the case features a quick-closing flap, a reinforcing boot and sturdy carrying strap.

- # CR-91411 13'-16' Carrying Case, 1 lb.
- # CR-91412 25' Carrying Case, 1 lb.
- # CR-91410 CR-08 Carrying Case



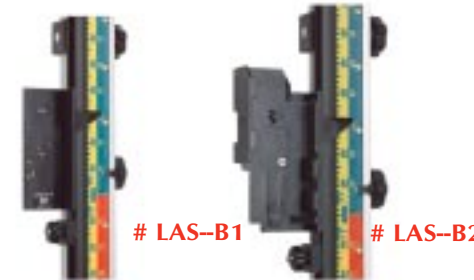
SEC-5001-10 # SEC-5001-11



SOKKIA/SK DIGITAL MEASURING POLES

- Exact measurements of up to 26 ft. or 8 m are conveniently read on the enclosed, sealed digital readout
- Rugged fiberglass construction with excellent tensile strength
- Compact (only 4 ft. 8 in. closed) and lightweight (less than 5 lbs.) for easy carrying
- Smooth telescoping movement with friction clamps for no-slip extension

- # PPI-8073-48 25 ft., graduated in feet, 10ths, 100ths.
- # PPI-8073-76 26 ft., graduated in feet, inches, 8ths.



LAS-B1 # LAS-B2

LASER SENSOR BRACKETS

B-1 UNIVERSAL BRACKET
Rugged, lightweight black anodized aluminum, for use with the following sensors:
Topcon LS-30 & LS-70B, AGL-LS-4, Apache 34 & 44, Laser Alignment 4 & 6, Laser Reference R-4, Nikon 3 & DS-30, Spectra Precision 1077 & 1275.

B-2 BRACKET
Rugged, lightweight black anodized aluminum, for use with the following:
Spectra-Precision 1175, 1177, 3075.

To view our current training schedule, pricing and promotions, please visit our website: www.thePPIgroup.com



LAS-GR10T # LAS-GR1000

DIRECT READING 10' LASER ROD

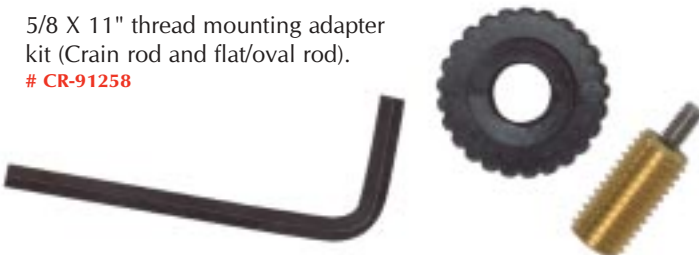
Rugged lightweight aluminum front and rear rod sections. Tape is heavy duty two layer mylar with matte finish. Two tapes in one, combination true elevation with yellow background and black numbers in feet. Tenths and hundredths on left, cut/fill in hundredths on right. Cut in red background, fill in blue background. 10 foot continuous loop.

- # LAS-GR1000 Cut/fill
- # LAS-GR1000T 10ths
- # LAS-GR1000I Inches
- # LAS-GR10T Optical/10ths
- # LAS-GR1450 15' 10ths/cut/fill
- # LAS-GR1450T 15' 10ths

CRAIN PRISM MOUNTING ADAPTER KIT

5/8 X 11" thread mounting adapter kit (Crain rod and flat/oval rod).

CR-91258



POCKET ROD

The rod is extracted from the case & becomes a convenient 6 1/2 ft. leveling rod. Graduated on both sides with sharp easy-to-read numerals and includes a built in target and heavy duty hook.

- # PPI-7301-00 1/8th, inches & feet - 6.5 ft.
- # PPI-7321-00 Feet, 10ths & 100ths - 6.5 ft.
- # PPI-7341-00 Metric - 2 meters



REDTOP FROST PIN

The REDTOP Frost Pin is made of 1" diameter high grade tool steel with a 1 3/4" button top and a hardened diamond point tip. 18" in length, 4 lbs. Gad is 3/4" x 1 1/2" x 18" made of high grade tool steel with a hardened steel tip. 5 lbs.
 # CHR-4418RT Frost Pin
 # CHR-4418GD Gad



CARBIDE POINT SCRIBER

Carbide point scribe with mag point
 # PPI-8130-50



HEAVY DUTY SCRIBERS

Replaceable carbide steel tip for precise, permanent markings on concrete, rock and steel - or any hard surface. Durable all-metal construction. Includes pocket clip and plastic cap.
 # PPI-8130-53 Premium Scribe
 # PPI-8130-54 Giant Scribe
 # PPI-8130-55 Replacement Point



LEAD WIRE

Diameter, 3/8"; 15" long. For lead and tack reference points. Fits hole cut by #PPI-8130-89 concrete drill
 # PPI-8132-20



ESTWING ROCK/CONCRETE CHISEL

Unsurpassed temper; model vinyl cushion grip; 1/2" x 12". # PPI-8130-85



MANHOLE COVER PICKS

This manhole cover pick is made of 5/8" Hex high-grade tool and steel, and is approximately 32" in length with a hardened steel diamond point. It is also available with a hardened steel flat head tip. # CHR-4432DP With DP



STAKE TACKS

Steel - 3/4" long - bright finish guide plumb bob point. 725 per 1lb. box.
 # SEC-14



MONUMENT SPIKES

Large monument spike, 3/8" square shank, galvanized with chisel point and button head. Makes ideal bench mark or turning point.
 # SOK-8132-62 6" long
 # SOK-8132-64 8" long



TACK BALL

A bright colored solid rubber ball with leather belt loop holds a good supply of stake tacks. # CHR-26218



"P.K." MASONRY NAILS

Parker-Kalon ("P.K.") hardened masonry nails. Cadmium-plated to resist rust and increase visibility. Packaged in boxes of 100 nails.
 # PK-8132-51 3/4" x 1/8"
 # PK-8132-52 1" x 5/32"
 # PK-8132-53 1-1/4" x 3/16"
 # PK-8132-54 1-1/2" x 1/4"
 # PK-8132-55 2" x 1/4"
 # PK-8132-56 2-1/2" x 1/4"



MAG NAIL

Increased toughness has virtually eliminated breakage. An induced magnetic field that has doubled and quadrupled MAG NAIL's detection with a metal detector. Revolutionary new metal formula retains magnetism. Larger center point. Approx. 100/bx.
 # MAG-24750 3/4" x 1/8"
 # MAG-241000 1" x 5/32"
 # MAG-241250 1-1/4" x 3/16"
 # MAG-241500 1-1/2" x 1/4"
 # MAG-242000 2" x 1/4"
 # MAG-242500 2-1/2" x 1/4"



MAG HUB

Magnetized for easy detection and zinc plated to resist erosion. Not made to be driven in concrete or asphalt.
 # MAGHUB4 3/16" x 4"
 # MAGHUB6 1/4" x 6"
 # MAGHUB8 1/4" x 8"



SINKER HEAD STYLE ALUMINUM NAILS

Won't harm trees or saws! 0.145" diameter shank, 5/16" diameter head. Slightly over 1 lb. Box contains approximately 290 nails.
 # PPI-79280



ESTWING SINGLE JACK SLEDGE

Forged one-piece doubleface head/handle of finest tool steel; 14 in. length, 4 lbs. Exclusive nylon-vinyl cushion grip.
 # PPI-8130-60 14" Handle
 # PPI-8130-37 11" Handle

ESTWING PICK HAMMER

Forged one-piece head/handle of finest tool steel, perfectly tempered - won't become "chewed up" in long use. Nylon-vinyl deep cushion grip absorbs all shocks and will not wear out 22oz.
 # PPI-8130-22 Pick Hammer
 # PPI-8130-23 Leather Sheath

DRILL HAMMER

Hardened steel head for long, hard use. Strong hickory handle securely mounted; weight 4 lbs.
 # PPI-8130-18

BUSH HOOK

3 pound, 12" steel blade with 34" hickory handle. Cuts easily on the "pull" stroke.
 # PPI-8130-10 Bush Hook
 # PPI-8130-11 Replacement handle

SANDVIK BUSH AXE

Quickly slices through 3 or 4" brush and saplings; 28" hickory handle; 7 1/4" Swedish steel blade.
 # PPI-8130-15 Bush Axe
 # PPI-8130-16 Replacement handle
 # PPI-8130-17 Replacement blade



DITCHBANK BLADE

Long, sturdy handle puts more cutting power behind each swing. 16" steel blade is sharpened on both sides.
 # PPI-8130-08 Ditchbank blade
 # PPI-8130-09 Replacement handle

ESTWING HAND AXE

Forged one-piece head/handle of finest tool steel. Nylon/vinyl cushion grip will never loosen; 13 1/2 in. length, 24oz. Complete with embossed leather sheath. # PPI-8130-35

LEATHER MACHETE SHEATH

Leather sheath for 22" machete # LEA-MO1
 Leather sheath for 24" machete # LEA-MO2
 Canvas sheath # PPI-8131-75

SEYMOUR 22" MACHETE

Tempered steel blade with durable cutting edge. Polypropylene handle attached with brass rivets. # PPI-2P-MA22

NICHOLSON/COLLINS 24" MACHETE

Fully polished high carbon steel blade for durability. Lacquer clear-coated blade resists corrosion. High impact handle is contoured & textured for improved control. # PPI-813172
 22" Canvas machete sheath # PPI-813174

BARTEAUX 22" AND 24" MACHETE

Heavy-duty machete. Hand-forged high carbon spring steel blade. Polypropylene safety handle.
 # PPI-M-22 22"
 # PPI-M-24 24"



DOMED SURVEY MARKERS

Solid brass with curved heads. Ribbed shank prevents turning or loosening. Shank area 0.4 sq. in. Shank length 2 in.

- # PPI-8134-10 1-3/8" Top Diameter
- # PPI-8134-13 2"
- # PPI-8134-16 2-1/2"
- # PPI-8134-18 3"



FLAT SURVEY MARKERS

Die cast form solid brass. Ribbed shank prevents turning or loosening. Shank area, 0.4 sq. in. Shank length 2 in.

- # PPI-8134-00 1-3/8" Top Diameter
- # PPI-8134-03 2"
- # PPI-8134-06 2-1/2"
- # PPI-8134-08 3"



BRASS MARKER WITH ANCHORING PLUG

1.17" top diameter in 3 styles.

- # BP1 Imprinted with "SURVEY MARK"
- # BP1P Custom imprint up to 14 characters
- # BP2 No recess center punch - Custom imprint up to 14 characters



COUNTERSINK DRILL BIT

Specially designed as an installation tool for the BP series brass markers. # BPMDRL



ALUMINUM REBAR MARKERS

Aluminum survey markers in a variety of sizes.

- # RB-4-1.5 1-1/2" flat top for 1/2" rebar
- # RB-4-2 2" flat top for 1/2" rebar
- # RB-5-1.5 1-1/2" flat top for 5/8" rebar
- # RB-5-2 2" flat top for 5/8" rebar
- # RB-6-1.5 1-1/2" flat top for 3/4" rebar
- # RB-6-2 2" flat top for 3/4" rebar
- # RB-4-1.5-PI 1-1/2" flat top for 1/2" rebar with plastic insulator
- # RB-4-2-PI 2" flat top for 1/2" rebar with plastic insulator
- # RB-5-1.5-PI 1-1/2" flat top for 5/8" rebar with plastic insulator
- # RB-5-2-PI 2" flat top for 5/8" rebar with plastic insulator
- # RB-6-2-PI 2" flat top for 3/4" rebar with plastic insulator



MARK-IT WASHER/DISC

The MARK-IT washer/disc is designed to take a 1/4" P.K. nail, Mag nail, or a SSMRN-75 Steel Ribbed Nail. Stamping available.

- # DISC-1 1-1/2" dia. x 3/32" thick with 3/8" center hole, aluminum, (blank or stamped)
- # DISC-2 2" dia. x 3/32" thick with 3/8" center hole, aluminum, (blank or stamped)
- # DISC-1-B 1-1/2" dia. x 1/16" thick with 3/8" center hole, brass, (blank or stamped)
- # DISC-2-B 2" dia. x 1/16" thick with 3/8" center hole, brass, (blank or stamped)
- # DISC-1-SS-S 1-1/2" dia. x 1/16" thick with 3/8" center hole, stainless steel, (blank or stamped)



MARK-IT BRASS TAGS

BRASS METAL TAGS with your stamp available in sizes below:

- # TAG-1 1" O.D. x 5/32" hole-22 gauge (.025 Brass)
- # TAG-2A 1-1/4" O.D. x 1/4" hole-16 gauge (.050 Aluminum)
- # TAG-2B 1-1/4" O.D. x 1/4" hole-20 gauge (.032 Brass)
- # TAG-3A 1-1/4" O.D. x 5/16" hole-16 gauge (.050 Aluminum)
- # TAG-3B 1-1/4" O.D. x 5/16" hole-20 gauge (.032 Brass)



ALUMINUM TREE TAGS

1-1/4" and 1-1/2" diameter tree tags are made of .050" thick aluminum with .125" hole diameter. Available numbered or unnumbered.

- #PPI-NUMBERED
- #PPI-UNNUMBERED

SURVEYORS FLAT SHINERS

Tin 2-1/4" in diameter with center punch and crimped edges. Especially valuable for indicating semi-permanent points with spikes or nails (Approx. 250 count). # PPI-8134-30



SURVEYORS RAISED SHINERS

Same as above except 1 5/16" diameter with raised, 1-1/8" center (Approx. 260 per lb). # PPI-8134-31



PERMAMARKS

PERMAMARK Survey Markers, the plastic survey monument marker. Each PERMAMARK Survey Marker comes complete with your P.E., R.L.S., R.C.E., or L.S. number heat pressured into the top. Available in yellow, orange, pink, blue or red.

- # BAR-3000 1/2" PERMAMARKS Survey Plugs for 1/2" pipe or #3 (3/8") rebar, stamped with a maximum of 7 characters per line. Per 200.
- # BAR-4000 3/4" PERMAMARKS Survey Plugs for 3/4" pipe or #4 (1/2") rebar, stamped with a maximum of 9 characters per line. Per 200.
- # BAR-5000 1" PERMAMARKS Survey Plugs for 1" pipe or #5 (5/8") rebar, stamped with a maximum of 13 characters per line. Per 200.



ALUMINUM CORNER LOCATION TAGS

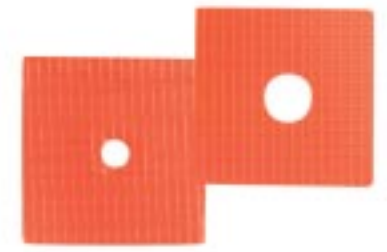
Used to identify property corners. Drive tack or nail through section diagram on tag at correction location. 4" x 5" aluminum sheet. Custom imprinting available. # PPI-57540



NAIL MARKERS

One-inch squares make of plastic impregnated nylon. You can't rip or tear them. Fluorescent orange color makes spotting stack tacks or P.K. nails quick and easy. (Approx. 70 count)

- # PPI-8115-01 With 1/4" hole
- # PPI-8115-02 With 1/8" hole



BENCHTIE

Vertical surface control point that can be used in trees or poles as a permanent or temporary benchmark. # BENCH Y Yellow



BEARING TREE POSTERS

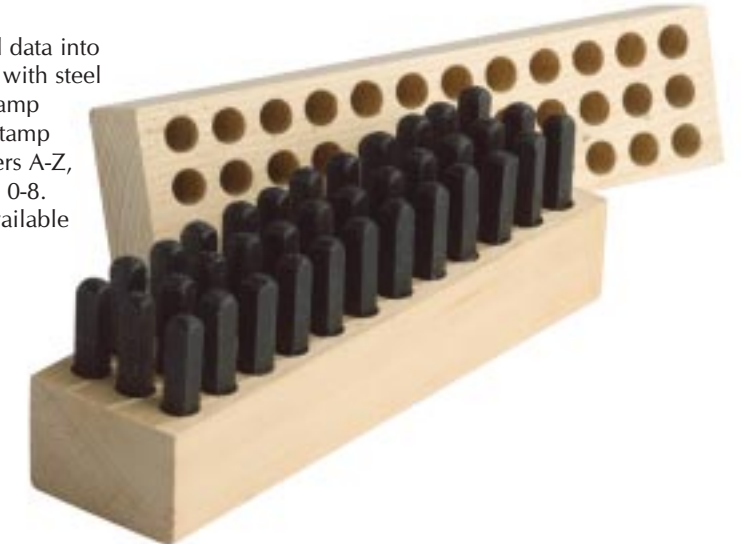
Used to identify property corners. Sturdy aluminum with holes at top and bottom for mounting. 4" x 6". # PPI-24996



STAMP SET

Mark additional field data into your survey markers with steel letter and number stamp sets. Combination Stamp Set includes characters A-Z, a period, and figures 0-8. Custom sizes also available by special order.

- # PPI-COMBO18 1/8" Combo Letter and Number Stamp Set
- # PPI-COMBO316 3/16" Combo Letter and Number Stamp Set
- # PPI-COMBO14 1/4" Combo Letter and Number Stamp Set



REBAR DRIVERS

Bernsten rebar drivers are made from strong, heat-treated steel and are exceptionally durable. They provide an ample 2" striking surface and can be used with conventional hammers or urethane faced hammers. #PPI-RDRV4 REBAR DRIVER FOR 1/2" #PPI-RDRV5 REBAR DRIVER FOR 5/8" #PPI-RDRV6 REBAR DRIVER FOR 3/4"



METAL TAGS

Write with pencil, pen or pointed instrument on front of back without show-through. Debossed mark remains visible, regardless of weather, grease, pitch or dirt. Aluminum sheet wrapped around tagboard. 3/4" x 3". Hole diameter 1/6". Comes with 9" wire. Also available with cardboard backing. #PPI-79500, BOX OF 500 #PPI-79201, BOX OF 500 WITH CARDBOARD BACKING



MARKING PINS

Made of 3/16" spring steel, the 14-inch pins are powder-painted red and white, alternating at each inch. 11 pins to a set. #SEC-2183-00



AUTO CENTER PUNCH

Adjustable compression power for one hand use. Tip recoils into work. Features replaceable hardened point. #PPI-2720





PENS & PENCILS

1. PENTEL SHARP DRAFTING PENCILS

Offering a variety of lead diameters for both drafting and writing. Each is available with a distinctive color-coordinated barrel. All feature a push-button instant point, knurled finger grip, and 4mm stainless steel sleeve for template tracing.

- # P205-A 0.5mm/Black
- # P205-B 0.5mm/Burgundy
- # P205-D 0.5mm/Green
- # P207-C 0.7mm/Blue
- # P209-G 0.9mm/Yellow
- # Z2-1 Eraser refills (3-tube package)

2. PENTEL TECHNICLICK AUTOMATIC PENCILS

Transparent barrel with convenient side lead advance button. 3mm fixed sleeve protects lead while writing. Refillable.

- # PD105-T 0.5mm/Black
- # PD107-T 0.7mm/Black

3. CHARTPAK RAPIDOMATIC FINE LINE PENCILS

A precision drawing pencil with a diamond-cut non slip grip, barrels that are color coded to refill leads by lead diameter for easy identification, lead degree indicator and push-button continuous lead advance. Can use with straightedges and lettering scribes. Includes pocket clip and replaceable eraser.

- # 5633BC 0.3mm
- # 5635BC 0.5mm
- # 5637BC 0.7mm
- # 5639BC 0.9mm

4. PENTEL CLICK ERASERS

Soft, non-abrasive eraser for all pencil lead markings. Versatile pocket clip advances/retracts eraser with a "click". Refillable holder is available in 3 colors. #ZE-22B

5. SANFORD TURQUOISE 2MM LEADS

Made of pure crystalline graphite and super-refined clay for professional drawing and reproduction. 5 1/8" long and .078" in diameter to fit all lead holders. 12/tray. # E2375-HB

6. MARKAL PAINTSTIK

Real paint in stick form. Will not fade, permanent. Round shape, 4 3/4" long, 3/4" diameter. 12 Paintstiks to a box.

- # MAR-BWH White # MAR-BFY Flo. Yellow
- # MAR-BBU Blue # MAR-BFR Flo. Red
- # MAR-BBL Black # MAR-BFO Flo. Orange
- # MAR-BGR Green # MAR-BFB Flo. Blue
- # MAR-BYE Yellow # MAR-BFG Flo. Green
- # MAR-BOR Orange # MAR-BFP Flo. Pink
- # MAR-BRE Red

7. MARKAL LUMBER CRAYON

Makes permanent marks on lumber, steel, concrete and most rough surfaces. Water resistant, fade resistant, smear resistant. Hexagonal, 4-12" long. 12/box.

- # MAR-W White # MAR-FY Flo. Yellow
- # MAR-Y Yellow # MAR-FR Flo. Red
- # MAR-R Red # MAR-FO Flo. Orange
- # MAR-B Black # MAR-FG Flo. Green
- # MAR-BL Blue # MAR-FP Flo. Pink
- # MAR-G Green

8. LUMBER CRAYON/ PAINTSTICK HOLDERS

- # KOH-101 Aluminum Paint Stick Holder
- # KOH-108 Aluminum Lumber Crayon Holder
- # KOH-112 Wood Paint Stick Holder
- # KOH-109 Wood Lumber Crayon Holder

9. KOHINOOR TECHNIGRAPHIC LEAD HOLDER

Features a classic red barrel and metal knurled finger grip. Takes a wide range of lead diameters. Color-coated pushbuttons for lead degree identification. # 5611C Lead Holder w/ Clip

10. CRETACOLOR LARGE DIAMETER LEAD HOLDER

Heavy-duty, three-sided lead holder for 5.6mm lead. Minimum 1 holder. # 15-43-001 Lead Holder

11. CRETACOLOR LEADS (NEGRO)

Negro leads in packs of 6. # 15-26-101 Lead Oily #1 # 15-26-102 Lead Oily #2

12. CHINA MARKERS

Paper wrapped pencils with tear string for marking on smooth surfaces. Black. # 96013

13. PRISMACOLOR VERITHIN PENCIL

Quality hard thin lead pencil. Lightfast & waterproof. Available in 40 colors. # SAN-VERITHIN Specify color

14. DIXON REDIMARK

Heavy duty permanent ink marker for writing on wood, glass, plastic and metal. Fast drying; fade resistant color. Chisel point. # DIX-8717 Black

15. SHARPIE KING-SIZE PERMANENT BLACK MARKER

Rugged and dependable, designed for the toughest marking jobs. Durable aluminum barrel with 3-way chisel tip. Large ink supply lasts and lasts. Writes on cold, wet, greasy and oily surfaces, even writes underwater! # SN15001 Black

16. IDEAL VALVE ACTION MARKER

Industrial-grade marker for surveying and construction layout. Valve action with indelible black ink. Replaceable tip. Metal cap with pocket clip. Available in Black, Red, Blue or Green. # PPI-8135-01

17. MARKALL VALVE ACTION PAINT MARKER

Patented valve-action ink-fed fiber-tip mechanism. Replaceable tips. Heavy duty aluminum body. Available in White, Yellow, Black, Pink or Gold. # MAR-96820

18. UNI PAINT MARKERS

Permanent, oil base, opaque paint marker. Valve action. Available in fine, medium and broad tips. Available in White or Black. # UNI-PAINT Specify color

19. PILOT GOLD AND SILVER MARKERS

Fine point marker. # MAR-SOLID Specify color

20. COL-ERASE PENCILS

For making blueprints, engineering notes and print-outs. In 24 colors and non-photo blue. # SAN-COLERASE Specify color

21. PENTEL QUICK CLICKER AUTOMATIC PENCILS

Unique side lead advance button advances lead without changing writing position. Brass clutch guarantees smooth, consistent lead advance. Refillable pencil available in solid and transparent barrels. 2mm fixed sleeve and removable pocket clip. # PD345-A 0.5mm/Black solid

22. PENTEL SIDE FX AUTOMATIC PENCILS

Twist dial at top of pencil to advance/retract jumbo eraser. Large barrel fits comfortably in hands of all sizes. Refillable lead and replaceable eraser.

- # PEN-PD255C 0.5mm/Blue
- # PEN-PD257C 0.7mm/Blue
- # PEN-E10 Eraser refills 3/pk

KUM PENCIL SHARPENERS

Finest quality sharpeners made in Germany with extra-hard, high carbon steel blades. Spring-loaded Dynamic Torsion Action of each blade reduces friction and improves sharpening ease. Precision molding/ machining of inner critical parts sets up optimum cutting angle.

- # 410KMD 2-Hole Magnesium Wedge Profile
- # 495KMD 1-Hole Magnesium Wedge Profile
- # 300KMD 1-Hole Brass

ALVIN SINGLE-HOLE PLASTIC SHARPENER

For general purpose sharpening. German blades, assorted colors. # EN106



PENTEL HIGH-POLYMER SUPER LEADS

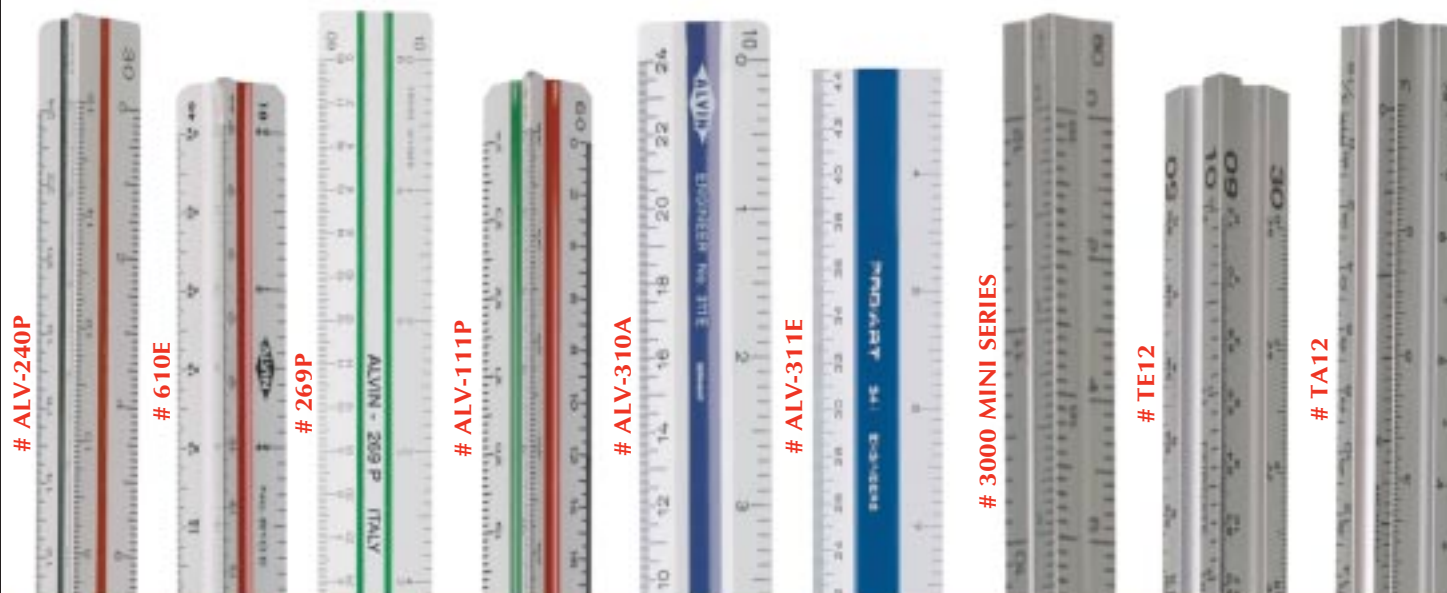
For paper surfaces, formulated with polymer resin bonded to carbon and graphite particles that never need sharpening. These leads break less, last longer, write smoother and produce dense black lines that resist smearing and fading. Packaged 12/tube. Also available in Red and Blue colored leads.

- 0.5mm
- # C505-4B # C505-HB # C505-3H
- # C505-3B # C505-F # C505-4H
- # C505-2B # C505-H # C505-5H
- # C505-B # C505-2H # C505-6H
- 0.7mm
- # 50-7-2B # 50-7-F # 50-7-3H
- # 50-7-B # 50-7-H # 50-7-4H
- # 50-7-HB # 50-7-2H
- 0.9mm
- # 50-9-B # 50-9-HB # 50-9-2H
- # 50-9-2B # 50-9-H
- 0.3mm
- # 300-3-B # 300-3-H # 300-3-3H
- # 300-3-HB # 300-3-2H # 300-3-4H



RULERS FOR WHATEVER THE JOB REQUIRES

SCALES AND FIELD TEMPLATES



ALV-240P # 610E # 269P # ALV-111P # ALV-310A # ALV-311E # 3000 MINI SERIES # TE12 # TA12

SERIES 240P PLASTIC PROFESSIONAL TRIANGULAR SCALE

Plastic professional quality scales made with high-impact plastic with white, non-reflecting dull-matte faces and tapered edges. Machine engraved graduations for precision measuring and color-coded furrows for quick identification. Supplied with hard plastic case. 12" in length.

ALV-240P Architects Scale - 3/32, 3/16, 1/8, 1/4, 1/2, 1, 3/8, 3/4, 1 1/2, 3" to the foot.

ALV-241P Engineers Scale - 10, 20, 30, 40, 50, 60 parts to the inch

ALV-247P Metric Scale - 1:20, 1:33 1/3, 1:40, 1:50, 1:80, 1:100

600 6" SERIES

6" high quality scales made from high-impact plastic with white, non-reflecting dull-matte faces and tapered edges. Printed graduations and color-coded furrows.

610A
610E

ALVIN 260 SERIES WHITE PLASTIC FLAT SCALES

Four-bevel white scales made of high-impact plastic in 6" lengths. Printed graduations. Supplied in vinyl pocket sheath.

269P Engineers, 6" divided (double numbered): 10, 20, 30, 40, 50 and 60 parts to the inch

TRIANGULAR SCALES

Made from satin finished impact plastic with tapered edges and black easy-to-read printed graduations that won't rub off. 12" in length.

ALV-110P Architects Scale - 3/32, 3/16, 1/8, 1/4, 1/2, 1, 3/8, 3/4, 1 1/2, 3" to the foot.

ALV-111P Engineers Scale - 10, 20, 30, 40, 50, 60 parts to the inch.

SERIES 310 WHITE PLASTIC FLAT POCKET SCALE

6" four-bevel white scales made of high impact lightweight plastic. Printed graduations. Supplied in vinyl pocket sheath.

ALV-310A Architects Scale - 1/8, 1/4, 1/2, 1, 3/8, 3/4, 1 1/2, 3" to the foot.

ALV-311E Engineers Scale - 10 and 50, 30 and 40 parts to the inch.

3000 SERIES

Professional quality scales made from color anodized solid aluminum. Printed graduations on ultra smooth, mark resistant surface. Available in silver (-1 suffix), gold (-2), red (-4), blue (-5), black (-9).

Supplied in plastic tube.

3000 MINI SERIES
3010-1 ARCH
3210-1 ENGR

6" MINI ALIMICOLOR

Rugged, professional quality scales made from anodized aluminum with a solid core. Printed black graduations on non-glare finish and color coded furrows.

ARCH

TA-6
TA-12
TA-18
TA-24
TA-36

ENGR

TE-6
TE-12
TE-18
TE-24
TE-36

METRIC

TM-12

SURVEY SCALE

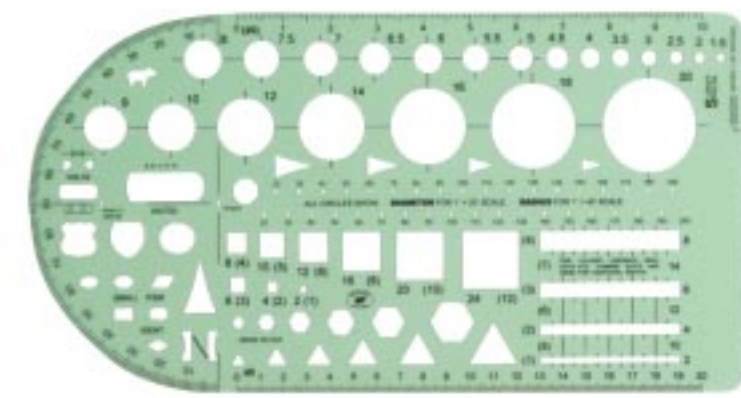
Survey scales are printed on polyester due to its dimensional stability over time. Printed black and the "foot" marking is left blank so it can be filled in with whatever the job requires.

PPI-15851 1.5" x 8.5"



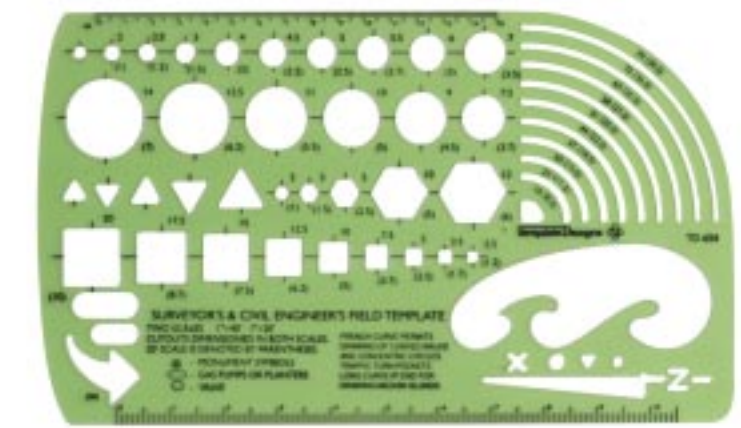
SURVEY SPECIAL TEMPLATE

Pocket template loaded with symbols in 2 scales useful to surveyors and others who draw plot plans. Includes triangles, hexes, squares, arrows, auto, small item identification symbols, valve and parallel lines and small holes for drawing circles up to 500' diameter in the 1" = 40' scale. Size 4-1/16" x 7-5/8". Scales 1" = 20' and 40'. # TIM-T444



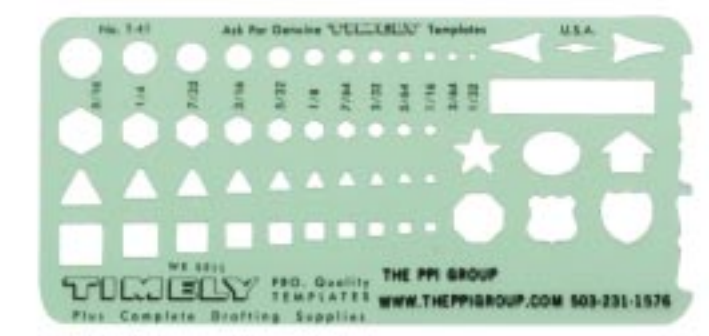
SURVEYOR'S/ENGINEER'S FIELD INDICATOR

This field template contains standard symbols and users legend. Size 4" x 6-1/2". # TIM-TD654



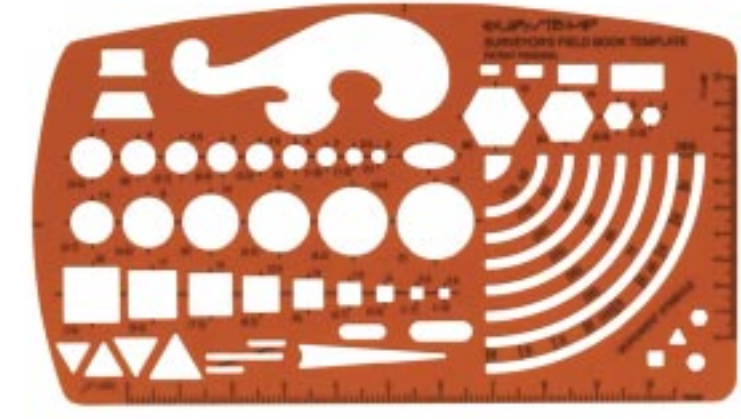
SMALL SHAPES TEMPLATE

This lightweight, flexible, durable and compact template has general purpose circles, squares, triangles, hexagons, arrows and other useful symbols. Size 2-1/4" x 5". Scales 1" = 20' and 40'. # TIM-T41



SURVTEMP FIELD BOOK TEMPLATE

This orange template contains all the patterns you need; concentric circles, hexagons, squares, survey symbols, zero to 90 degree protractor, double-edge scale, French curve. Size 6-3/4" x 3-7/8". # SUR-P8326



AERVOE MARKING PAINT

The ideal marking paint for permanent, grass, gravel and soil. Non-clogging; sprays upside down. High-hide full strength colors. Fast dry, with over 1500 ft. line coverage. 17oz cans.

- # AER-200 Clear
- # AER-201 Red
- # AER-202 Yellow
- # AER-203 Blue
- # AER-204 Green
- # AER-205 Orange
- # AER-206 Black
- # AER-207 White
- # AER-210 Silver
- # AER-220 Flo. Red
- # AER-222 Flo. Orange
- # AER-224 Flo. Green
- # AER-226 Flo. Yellow
- # AER-227 Flo. Blue
- # AER-229 Flo. Pink



AERVOE TREE MARKING PAINT

Specifically formulated for marking trees and wood ends. Ideal for boundary and inventory marking. May also be used for horizontal numbering, lettering or writing. Excellent adhesion and visibility.

- # AER-610 Red
- # AER-620 Orange
- # AER-630 Yellow
- # AER-640 Green
- # AER-650 Blue
- # AER-690 Flo. Red
- # AER-691 Flo. Pink
- # AER-692 Flo. Orange
- # AER-693 Flo. Yellow



NYLON MASON LINE AND REELS

Reels are prewound with #18 braided or twisted nylon line. The braided line is preferred by the professional who requires less stretch and a higher break strength. Available in easy to see gold, bright orange or pink.

Available lengths include 100', 250' and 500'.
EMP-REEL
Please specify color and length



MARKING STICK APPLICATOR

No more stooping over to apply marking paint. The handy 38" stick accepts upside down marking paint. No mess, clean-up or storage problems.

AER-245



SPOTMARKER APPLICATOR

Easy, one hand operation. The perfect answer for using the Aervoe spray-through-the-top aerosol can. Finger trigger activator; handy belt clip.

No mess, clean-up or storage problems.
AER-244



AERVOE SPRAY CHALK

Aerosol spray for temporary marking. Non-clogging; sprays upside down. Fast drying with over 1000' line coverage. Can is always ready to operate - no clean out. Washes off with water or self-destructs with traffic. 13oz cans.

- # AER-214 Blue
- # AER-215 White
- # AER-216 Red
- # AER-217 Orange
- # AER-218 Yellow
- # AER-219 Green



ULTRA FINE MARKING CHALK

Formulated to achieve a perfect line every time. Brilliant color tones for strong sharp lines. Available in 4oz, 8oz, 2lbs, 3lbs and 5lbs.

- # KES-B Blue
- # KES-R Red
- # KES-W White
- # KES-Y Yellow
- # KES-GLO-LIME Lime
- # KES-GLO-ORG Orange



BRAIDED CONSTRUCTION LINE

Unique stakeable handle for ground level string placement. Very handy for providing ease of disbursement, and then quick rewind without encountering a tangled mess. (not pictured)

- # EMP-39111N 100' Gold
- # EMP-39214N 250' Pink
- # EMP-39113N 100' Orange
- # EMP-39511N 500' Gold
- # EMP-39114N 100' Pink
- # EMP-39513N 500' Orange
- # EMP-39211N 250' Gold
- # EMP-39514N 500' Pink
- # EMP-39213N 250' Orange

CHALK LINE REELS

100' Polyester line rewinds 3 1/2 times faster. Quick fill rubber grommet. Free wheeling disengage gear for ease of use. ABS case.

- # KES-GB1 Proline Metal
- # KES-GB1 Little

Giant, 100 ft. heavy-duty cord & pull ring. Holds almost 1lb. of chalk. One-piece steel crank for extra long life.



FLAGGING

TUFF SOLID COLOR

Vinyl Tape is a calendared, non-adhesive film manufactured from 100% pure virgin PVC resin. It exhibits wide temperatures and outdoor conditions. Strong, durable and good capacity. It comes in various regular and fluorescent colors.



300' ROLLS

- # TUF-27-R Red
- # TUF-27-W White
- # TUF-27-B Blue
- # TUF-27-Y Yellow
- # TUF-27-O Orange
- # TUF-27-G Kelly Green
- # TUF-27-BK Black
- # TUF-27-DG Dark Green

150' ROLLS

- # TUF-27-OG Orange Glo.
- # TUF-27-PG Pink Glo.
- # TUF-27-LG Lime Glo.
- # TUF-27-BG Blue Glo.
- # TUF-27-RG Red Glo.
- # TUF-27-YG Yellow Glo.

STRIPE FLAGGING

1/2" Stripes on one side. 3/8" x 100 yds per roll. (Orange Glo. and Pink Glo. 50 yds per roll. 12 rolls per carton - 12 cartons per case.



300' ROLLS

- # PRE-BBS Blue & Black
- # PRE-OBS Orange & Black
- # PRE-GBS Green & Black
- # PRE-RBS Red & Black
- # PRE-YBS Yellow & Black
- # PRE-WBS White & Black
- # PRE-YWS Yellow & White
- # PRE-RWS Red & White
- # PRE-OWS Orange & White
- # PRE-BWS Blue & White
- # PRE-GWS Green & White

150' ROLLS

- # PRE-OGBS Orange Glo. & Black
- # PRE-PGBS Pink Glo. & Black

STAKE FLAGS

Embossed plastic film flags with colors that are bright and do not fade after long exposure. 4x5" flags packaged 100 per bundle. Please specify color and length.

- # PRE-4X5-24" 24" wire
- # PRE-4X5-30" 30" wire
- # PRE-4X5-36" 36" wire

Available colors:
B- Blue
BG- Blue Glo.
G- Green
O- Orange
YG- Yellow Glo.
OG- Orange Glo.
PG- Pink Glo.
R- Red
W- White
Y- Yellow



"WETLAND DELINEATION" FLAGGING

Used in wildlife, biology research and environmental impact studies. Pink glo. vinyl with 1/2" black letter, all caps 1-1/2" x 150' roll, 9 rolls per carton.
PRE-WET



FLAGGING DISPENSER

This 4 roll flagging dispenser comes with a Cordura belt. # SEC-8025-00



"BOUNDARY" FLAGGING

Flagging marked "BOUNDARY". 1-1/2" wide x 150', 9 rolls per carton.
PRE-BOUND



BARRICADE TAPE

3" wide yellow opaque poly material with 2" high black lettering. Marked "Caution, Caution, Caution...".
KES-BT-1200 3" x 1000'
KES-BT-1214 3" x 1000' "Danger" in red

SMICARR STAKE CHASERS

Stake chasers allow immediate identification of stakes, hubs, reference points, bench marks, centerlines, underground utilities and structures. 6" long metal fasteners. APWA approved colors. Packed in bundles of 25, 1000 per box.

- # SMI-R Red
- # SMI-B Blue
- # SMI-Y Yellow
- # SMI-O Orange
- # SMI-G Green
- # SMI-W White
- # SMI-HP Hot Pink
- # SMI-FO Flo. Orange



WHICH BAG WORKS FOR YOU?



WIRE STAKE BAGS

A convenient bag for carrying wire stake flags. Color: Orange.
 # SEC-8093-00 for 21" Wire Stakes
 # SEC-8094-00 for 30" Wire Stakes



MONSTER GEAR BAG

This bag is a monster, measuring a whopping 30" x 14" x 20". Great for storing tools, clothes or other gear.
 # SEC-8106-10



EXTRA LONG STAKE BAGS

Use for 24-inch wood stakes. The bag has a partition in the middle to separate stakes and hubs. The dimensions are: 25x8x12 inches (63.5x20.3x30.5 cm).
 # SEC-8096-00-ORG Orange
 # SEC-8096-00-GRN Flo Green



HEAVY-DUTY LATH CARRIER

This 1000 denier Cordura® bag has a thick, reinforced bottom of leather and Rhinotek® abrasive-resistant material. The exterior features a hammer loop, paint can holder, marker pen slots, and a pocket for miscellaneous gear. Measures 9 x 38 inches.
 # SEC-8102-01-00
 # SEC-8102-00-ORG 33" long, holds up to 50 lath with two carrying straps



SEC-8102-00-ORG

Most Bags Available in Orange or Green

HEAVY DUTY CORDURA® BAGS WITH RHINOTEK®

The bag of the future is now available! These new SECO bags and cases are built to include even more protection and durability than other bags in the SECO line with the addition of the tough abrasion-resistant Rhinotek material. Available in traditional survey orange or high-viz fluorescent green.

- # SEC-8090-20 Heavy duty bag for 18" stakes or rebar
- # SEC-8091-20 Heavy duty bag for 18" stakes or rebar w/partition
- # SEC-8092-20 Heavy duty bag for 24" stakes or rebar
- # SEC-8100-20 Heavy duty bag for 36" stakes or rebar
- # SEC-8046-30 Surveyor's Tool Pouch with Belt
- # SEC-8180-20 Heavy duty prism pole bag
- # SEC-8150-20 Heavy duty instrument tripod bag



SURVEYOR'S UMBRELLA

Blue and yellow heavy drill fabric; 63 in. spread. Cuts heat and glare for accurate readings. 8 ft., 2-section pole with baked aluminum enamel finish.

- # TOP-51900 Umbrella
- # PPI-807895 Umbrella Tripod

SPRAY CAN HOLDER

Constructed of heavy-duty nylon cordura with a nylon belt loop. Holds paint can on hip for easy and convenient access.

SEC-8098-00



LATH BAG

Holds 48-inch wood lath. Has a hand loop, a shoulder strap and an outside pocket.

- # SEC-8101-00 Same as 8101 but holds 36" wood lath.
- # SEC-8100-00 Same as 8101 but holds 24" wood lath.
- # SEC-8103-00



SEC-8102-01-00

STAKE BAG

Heavy-duty 18-inch long stake bag. Comes with a shoulder strap and outside pockets on three sides.
 # SEC-8091 18" with partition

TOOL POUCH

Features an 11x7 inch main compartment plus a 6x4 inch pouch for spikes and nails. It also has slots for crayons and markers, and a loop for axes or hammers.

SEC-8046-00-ORG Orange



HEAVY-DUTY BUCKET BAG

This heavy-duty, water resistant bag is constructed of textured polyester material and is reinforced at the wear points. Features pockets for all of those little parts, pens, pencils tapes and more. Available in red.

SEC-8095-50-RED



BUCKET BAGS

Here's a convenient carrying bag with an outside pocket, a hand axe loop, and a leather bottom. Measures 10x15 inches (25.4x38.1 cm).

- # SEC-8095-ORG Orange
- # SEC-8097-00 Orange (w/ Pocket)



LATH/STAKE BAG

29". Pocket for lath/stakes. Heavy duty with shoulder strap and double stitch seams.
 # CR-91474



CANVAS STAKE BAG

Heavy duty bag for carrying stakes, nails, tools and other supplies. Made of heavy canvas, 20" x 12" x 6", with two compartments, a pocket on each end and two pockets on one side.
 # PPI-91449



FIELD SUPPLIES



Plumb Bobs

PLUMB BOBS

These high quality plumb bobs are machined from solid brass rod for perfect balance and are beautifully finished.

Screw caps and hardened steel points provided with standard threads. Special design permits storage space for an extra point inside the cap.

- # PPI-11-497 6 oz
- # PPI-11-498 8 oz
- # PPI-11-499 10 oz
- # PPI-11-550 12 oz
- # PPI-11-551 14 oz
- # PPI-11-552 16 oz
- # PPI-11-553 18 oz
- # PPI-11-554 24 oz
- # PPI-11-554A 32 oz
- # PPI-11-554B 80 oz
- # PPI-11-555A Extra Point (fits all bobs)
- # PPI-11-555B Extra Cap

Leather Plumb Bob Scabbards



LEATHER PLUMB BOB SCABBARDS

Extra heavy duty with stitched and riveted pocket. Loop and snap give double protection against the loss of a plumb bob. Slots on back allow scabbard attachment.

- # BP-15 For plumb bobs 8 to 12 oz
- # BP-25 For plumb bobs 14 to 18 oz
- # BP-35 For plumb bobs 24 to 32 oz

PLUMB BOB CORD

Finest quality braided cord. 25 yard spools.

- # PPI-11-732 Heavy White
- # PPI-11-733 Medium White
- # PPI-11-734 Heavy Orange
- # PPI-11-735 Medium Orange
- # SOK-812439 Flo. Yellow Nylon, 50 yd
- # SOK-812440 Flo. Red Nylon, 50 yd

Plumb Bob Cord



PLUMB BOB TARGET

Plastic. Rectangular shape in different sizes. Red and white quadrants. Notched for attaching to line.

- # CST-11-431 2" x 4"
- # PPI-8126-20 2 1/4" x 4"
- # PPI-8126-25 2 1/4" x 4"



GAMMON SURVEYORS REEL

Quick set up. Longer string life. Elimination of muddy, caught, knotted, broken string. Reduction of accidents. Work and time savings. Equipped with 72 lb test orange nylon string.

- # GAM-001 6 1/2' Standard Gammon Reel (White/Red)
- # GAM-012 12' Construction Gammon Reel (White/Orange)
- # GAM-012B 12' High Viz Gammon Reel (Black/Orange)



Gammon Surveyors Reel

WIDE BRIM SAFETY HATS AND CAPS

High-density polymer for excellent protection against severe impact. Modeled in one piece with no metal; protects against corrosive materials. Fast track ratchet suspension for flexible sizing.

- # SS-HATO Orange
- # SS-HATY Yellow
- # SS-HATW White



TRAFFIC CONES

High-intensity fluorescent red- orange. Polyvinyl chloride (PVC) for strength, durability. Weighted base for good stability.

- # TS-TRAFCONE-12 12" cone
- # TS-TRAFCONE-18 18" cone
- # TS-REFCONE-16 18" w/ 4"x6" reflective collar
- # TS-REFCONE-28 28" with 4"x6" reflective collar 6" reflective collar



CLASS III 8372 VEST

This Class 3 vest is specifically made for those working in high-traffic areas that need to be very conspicuous to the passing motorist. This body and sleeves of this vest assist a worker in low light conditions. Features a comfortable relaxed fit with a large neck opening, 4 high-quality snaps, and cool polyester material.

SEC-8372

WERNER WORKS HIGH VISIBILITY SURVEY VEST

701HV

Same fit and features as their traditional duck vest, but made of high visibility orange, 330 Denier Cordura with 65" of 3M Triple Trim tape. Great for highway work. Color: High Visibility Orange

- # WW701HV1 Small
- # WW701HV2 Medium
- # WW701HV3 Large
- # WW701HV4 X-Large
- # WW701HV5 XX-Large
- # WW701HV6 XXX-Large



TERRA TECH 10-POCKET CRUISER VEST

This vest made of cotton duck canvas, features Cordura lined bottom front and inside pockets with Velcro closures for durability and security. Other features include a grommet in the left-front pocket for dispensing flagging, two right-front breast pockets for tapes or compass, large zippered back pocket, slots for pens/pencils and neckline grommets to secure instruments with lanyards.

TT-GFS2511 Red, Green or Orange

THE 8063 SUV

The 100% polyester 8063 SUV (Sports Utility Vest) is manufactured to meet ANSI/ISEA 107-199 Class 2 standards (size 42-66) and Class 1 standards for size 38. Combining the flash of the retroreflective material and the tremendous cargo space gives you the package you're looking for in an SUV!

STANDARD FEATURES OF THE 8063

Climate Control: The 8063 features a comfortable Hi-Tech liner made of a special phase-change material that redistributes and stores body heat. It moves heat away from your body in warm weather and insulates it in cooler weather. This comfortable new vest is destined to change the way you think about safety vests.
CARGO ROOM: The special compartments include a field notebook pocket, pencil slots, compass pocket with grommets, and inside pockets. There's even an exterior radio mic clip! # SEC-8063



THE 8069 SUV

The 8069 Sports Utility Vest is a 100% polyester SUV manufactured to meet ANSI/ISEA 107-199 Class 2 standards (sizes 42-66) and Class 1 standards for size 38. This vest is based on the popular SECO 8067.

STANDARD FEATURES OF THE 8069

Climate Control: The 8069 features a cool, comfortable mesh back.
CARGO ROOM: The special compartments include a field notebook pocket, pencil slots, compass pocket with grommets, and inside pockets. There's an exterior radio mic clip on this model also! # SEC-8069



HIGH VISIBILITY SAFETY VEST W/ STRIPES

A blaze orange safety vest, without pockets, tailored from strong, cool nylon mesh. 2" Scotchlite reflective stripes run across the front and back for extra visibility. One size fits all.

TS-14100100



8068 LIGHTWEIGHT SUV (not pictured)

The durable safety orange and fluorescent yellow fabric of this 100% polyester vest offers softness, comfort, superior strength and abrasion resistance. This vest complies with DOT MUTCD and ANSI/SEA 107-2004 Class 2 standards for high-visibility safety apparel. This vest features pockets with sturdy snap fasteners.

SEC-8068 Flo Orange or Flo Yellow

8067 HEAVY DUTY SUV (not pictured)

This SUV (Safety Utility Vest) is highly visible in any weather condition day or night. Made of heavy-duty 1000 denier Cordura, this material is treated with a durable, water-repellant finish and more durable than cotton, polyester, ordinary nylon or polypropylene. It also has a urethane backing for additional water-resistance and strength. Complies with DOT MUTCD.

SEC-8067 Flo Orange or Flo Yellow

QUIK-STIK TARGETS

Just peel off the paper backing and Quik-Stik can be applied to any surface. Target has red and white quadrants.

- # PPI-8126-40 2" x 3 1/2" Pkg. pf 25 (not pictured)

PAPER TARGETS

Use these targets with a #50 survey nail or stick the target to just about anything. Measures 2" x 3.5"

- # SEC-9000-01 (Holes) 100 ct
- # SEC-9000-02 (Sticky) 25 ct



DURAMARK ADHESIVE TARGET



Adhesive back targets with red and white quadrants.

- # DUR-2540 2 1/2" x 4"
- # DUR-5080 5" x 8"

SAFETY SIGNS

Roll up signs, available in reflexite, mesh, or non-reflective vinyl. Kickstand base, with spring. Sizes 36" and 48" signs. All legends available. Call us to customize your sign and stand.

- # PS3000S-36 with spring, 36"
- # PS3000S-48 with spring, 48"



STOP/SLOW PADDLE

18" reflective aluminum octagonal with 10" wooden handle.

TS-19001



FIELD BOOKS



FIELD BOOKS

RITE IN THE RAIN IS YOUR BEST INSURANCE AGAINST LOST TIME AND RUINED FIELD NOTES. THEIR ENVIRONMENTALLY FRIENDLY PAPER PRODUCTS ARE CREATED SPECIFICALLY FOR WRITING FIELD NOTES IN WET OR HUMID CONDITIONS.

"Rite in the Rain" ALL-WEATHER WRITING PAPER



THE BOUND BOOK
The highest quality, most durable bound field book available. Rite in the Rain all-weather paper. Two cover options: a) Durable Polyethylene (yellow) b) Fabrikoid - Hardbound cloth (yellow). 78 leaf (156 pages), ruled with light blue lines 4 5/8" x 7 1/4". Numbered page bound books available - meets EPA Guidelines. 8 different grid patterns available (see page pattern guide below)

POLYETHYLENE COVER	FABRIKOID COVER	PATTERN
# RR-300	# RR-300F	Transit
# RR-310	# RR-310F	Level
	# RR-340F	Cruiser's Transit
# RR-350	# RR-350F	Field
# RR-360	# RR-360F	Metric Field
	# RR-370F	Cross Section
# RR-390	# RR-390F	Horizontal Line

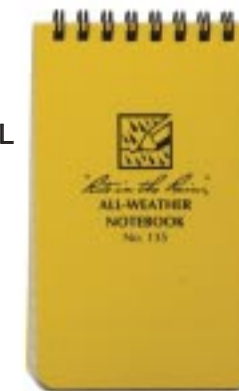
THE SPIRAL NOTEBOOK
Rite in the Rain all-weather paper. Yellow Polyethylene cover. 32 leaf (64 pages) 4 5/8" x 7". Write-O bound page-to-page register. 5 different grid patterns available (see page pattern guide).



CAT #	PATTERN	CAT #	PATTERN
# RR-303	Transit	# RR-373	Universal Grid
# RR-313	Level	# RR-383	Metric Grid
# RR-353	Field	# RR-393	Journal
# RR-363	Metric		



HIP POCKET SPIRAL
Rite in the Rain all-weather paper. Yellow Poly Cover, 4" x 6". 50 leaf (100 numbered pages), top spiral bound.
RR-146 Universal



SHIRT POCKET SPIRAL
Rite in the Rain all-weather paper. Yellow Poly Cover, 3" x 5". 50 leaf (100 numbered pages), top spiral bound.
RR-135 Universal



FIELD-MAX SPIRAL NOTEBOOK
This all-weather notebook is 8 1/2" x 11" with a strong polydura cover, wire-o binding and 84 pages (42 sheets).
RR-185 Field

MAXI-SPIRAL NOTEBOOK
Rite in the Rain all-weather paper. Yellow poly cover. 42 leaf (84 pages). 8 1/2" x 11". Wire-O side bound.
RR-313-MX Level
RR-353-MX Field
RR-393-MX Journal, Side Spiral

THE NOTEBOOK
The highest, light-weight field notebook in the world. Rite in the Rain all-weather paper. All-weather yellow Tagboard cover. 24 leaf (48 pages), all pages numbered. 8 different grid patterns available (see page pattern guide below). No. 31 Polyethylene slip cover is available for notebooks.
CAT # **PATTERN** **CAT #** **PATTERN**
RR-301 Transit # RR-351 Field
RR-311 Level # RR-361 Metric
RR-341 Cruiser's Transit # RR-391 Horizontal Line

MINI-NOTEBOOK
Rite in the Rain all-weather paper. Yellow Tagboard Cover, 3 1/4" x 4 5/8". 12 leaf (24 numbered pages), saddle stitched.
RR-301-M Transit Pattern
RR-311-M Level Pattern
RR-391-M Journal

MEMO BOOK
Rite in the Rain all-weather paper. Yellow Tagboard Cover, 3 1/4" x 5 3/4". 24 leaf (48 numbered pages), top stapled and perforated.
RR-100 Journal



HIP CHAIN
Distance measuring devise that operates by measuring the length of thread that is drawn from a spool within the instrument. Worn from the hip, this measuring device frees the hands for note writing, soil sampling, etc. Impact-proof plastic case, lightweight and compact. Modular counter assembly, detachable lid and simple thread guide.
PEC-39027 Measures in feet, w/ 4,500' of line
PEC-39029 Measures in yards, w/ 1,500' of line
PEC-39028 Measures in meters, w/ 1,370' meters of line
PEC-39052 Repl. line, white, 9,000', 3,000 yds., 2,743m
PEC-39053 Repl. line, orange, 9,000', 3,000 yds., 2,743m
PEC-39062 Biodegradable line, 6,000', 2000 yds.



SPENCER COMBINATION TAPES
Two different measurements in one measuring tool. One side of tape measures length, the other side measures diameter.
PEC-39337 50' inches /10ths combination(950c)
PEC-39339 75' inches /10ths combination(975c)
PEC-39405 100' 10ths /100ths (900dc)
PEC-39434 50' graduated in feet, 10thsm 100ths one side, 120" diameter in 10ths on the other side (950dc)
PEC-39435 Replacement blade for 50' w/o nail
PEC-39436 75' graduated in feet, 10thsm 100ths one side, 120" diameter in 10ths on the other side (975dc)
PEC-39437 Replacement blade for 75' w/o nail

DuraRite is a plastic paper product designed to be used under extreme weather conditions and continuous exposure to rain, snow, or other wet conditions. DuraRite can withstand long periods of immersion without losing its strength or writeability. DuraCopy copier paper provides the same level of performance and is designed specifically for use in copiers and laser printers.

FIELD BOOKS



FIELD BOOKS



FIELD BOOK COVERS

Clear vinyl covers protect your notebook's tagboard cover from rips and tears.
 # RR-30 4 5/8" x 7" Clear Vinyl Cover
 # RR-32 3 1/4" x 4 5/8" Clear Vinyl Cover
 # RR-C980 Cordura Field Book Cover



CORDURA COVER

This tough Cordura Bound book cover will fit all of the 4 5/8" x 7" notebooks, 4 5/8" x 7 1/4" field-flex books, or pocket sized bound books (will not fit the standard bound books). # RR-C980

RING BINDERS

Durable, self-hinged, polyethylene cover, chrome metal rings.

CAT. CAPACITY NO.	SHEET SIZE	NO. OUTSIDE RING	RING SPACING
# RR-200	4-5/8" x 7"	6	5"
# RR-210	4-5/8" x 7"	6	5"

SOKKIA HIGH VIZ BUCKRAM BINDER

Buckram-covered stiff board construction lined with black paper. Standard six-ring style.
 # 8153-70 50 page capacity, 5 3/8" x 7 1/4", w/ 1/2" rings
 # 8153-75 100 page capacity, 5 3/8" x 7 1/4", w/ 3/4" rings



DURARITE POCKET NOTEBOOKS

Quality waterproof notebooks that fit in your pocket. Includes 100 universal pattern pages (50 sheets).
 # RR-635 3" x 5" Shirt Pocket
 # RR-646 4" x 6" Hip Pocket



NOTEBOOK

A synthetic paper for use in extreme weather conditions. Heavy DuraRite cover. 24 leaf (48 pages). 4 5/8" x 7".
 # RR-601 Transit
 # RR-611 Level
 # RR-651 Field
 # RR-691 Horizontal Line



SPIRAL NOTEBOOK

A synthetic paper for use in extreme weather conditions. Polyethylene cover. Wire-O bound. 32 leaf. 4-5/8" x 7".
 # RR-603 Transit
 # RR-613 Level
 # RR-653 Field
 # RR-663 Metric
 # RR-693 Horizontal Line

STANDARD LOOSE LEAF SHEETS

Rite in the Rain all-weather paper, 4 5/8" x 7". 6-hole slotted punch fits all 7" six-ring binders. 9 different grid patterns and plain available. 100 sheets per pack.
 # RR-302 Transit
 # RR-312 Level
 # RR-342 Cruiser's Transit
 # RR-352 Field
 # RR-362 Metric
 # RR-372 Universal
 # RR-392 Journal
 # RR-395 Blank



DURARITE LOOSE LEAF SHEETS

A synthetic paper for use in extreme weather conditions. 100 sheets per pkg. 6-hole punch. Fits all 6 ring 7" binders.
 # RR-602 Transit
 # RR-612 Level
 # RR-652 Field
 # RR-662 Metric
 # RR-692 Horizontal Line



DURA-COPY

Copy or laser print your own waterproof forms. Ideal for any extreme situation. Use in your photocopier or laser printer on both sides. Not for ink-jet printers. 4 mil.
 # RR-6511 8 1/2" x 11" Lightweight, Dura-Copy (.004)
 # RR-6517 11" x 17" same as above



GRID SHEETS

Rite in the Rain all-weather paper. 8 1/2" x 11", printed on one side. 100 sheet pak.
 # RR-1104 Cross Section 1/4" grid
 # RR-1110 Cross Section 1/10" grid
 # RR-1140 Metric Cross Section 2mm grid
 # RR-1150 Metric Cross Section 5mm grid



ALL-WEATHER COPIER PAPER

Make your own forms, charts, graphs... 200 sheets per pkg. Sub 20.
 # RR-8511 8 1/2" x 11"
 # RR-8514 8 1/2" x 14"
 # RR-8517 11" x 17"

ALL-WEATHER PEN

Black ink. Fine Point. Writes at any angle in all weather conditions, even writes underwater. Used on all manned space flights. Ink is permanent. Pressurized cartridge. **Writes at any angle!**
 # RR-36 Bullet Pen - Silver
 # RR-37 Standard Clicker Pen (shown)
 # RR-37R Refill
 # RR-47 Blue Ink

STORAGE CLIPBOARDS



2" deep storage compartments keep paper dry and protected. Large capacity metal clip will hold a 1/2" stack firmly. Folds to 1 1/4" width for carrying.
 # SAV-CM-8512 8 1/2" x 12" Lightweight
 # RR-295 Weatherproof, lightweight 8 1/2" x 11" field desk

KUKER-RANKEN HAND LEVELS

The Kuker-Ranken hand levels are made of the finest quality and workmanship with etched glass prisms and precision ground lenses. All hand levels include a leather carrying case with belt loop.



- # KR-572-S 5" to 7" 2X stadia hand level with very sharp field of view and a stadia ratio: 1:32. The exterior has a highly visible baked orange finish.
- # KR-570-S 5" to 7" regular stadia hand level with a stadia ratio: 1:20. The exterior has a baked black acrylic finish.
- # KR-710-S Same as the 570-S but telescoping from 7" to 10".

DAVID WHITE 2.5X HAND LEVEL

2-1/2 power magnification for more precise checking and greater range of applications. Vial is magnified 6 times. Sturdy aluminum construction. Includes a leather case.



DAVID WHITE LEATHER HAND LEVEL CASE

Vertical leather carrying case attaches to belt. Fits all David White hand held sighting levels.



HEAVY DUTY MAGNETIC TORPEDO LEVEL

This 9" torpedo level features True Blue™ vials which are accurate to within .00050" per inch in all 10 level and plumb working positions. Constructed of a heavy duty aluminum frame with strong holding magnetic edge. Vials read plumb, level and 45 degrees.



MAGNETIC TORPEDO LEVEL

This 9" torpedo level features True Blue™ vials which are accurate to within .00050" per inch in all 10 level and plumb working positions. Constructed of a heavy duty aluminum frame with top read window. Features powerful rare earth magnets for holding up to 10 lbs.



6" HAND LEVEL

6" long with fixed eyepiece, adjustable reflector and internally mounted bubble assembly. A hexagonal objective cap prevents rolling. Cordura belt loop carrying case included.



CST-17-623

SQUARE-TYPE HAND LEVEL – 1X

This level is 5 1/4" in length with fixed eyepiece. May be used as a bench level. Includes case.



#SOK-8045-20

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. Cordura belt loop carrying case included.



CST-17-632
SOK-804110

5X HAND LEVEL

Provides accuracy at greater distances than regular-type hand levels. Objective lens and eyepiece slide for easy focusing. Stadia lines with 1:100 ratio. Solid brass construction with durable yellow finish. 8" length extends to 9". 5X magnification of level bubble. Cordura belt loop carrying case included.



CST-17-630
SOK-804260

ALUMINUM LINE LEVEL

This 3" line level of lightweight construction minimizes line sag. Features unbendable open hooks that allow level to slide freely. Pocket clip will guard tool against loss.



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. (not pictured)
- # CST-17-635 5" Hand Level Case
 - # CST-17-636 6" Hand Level Case
 - # CST-17-637 7" Hand Level Case
 - # CST-17-639 9" Hand Level Case
 - # CST-17-638 Abney Case for 17-640/-641
 - # CST-17-646 Abney Case for 17-642/-643/-645

SUUNTO ESCAPE ELECTRONIC ALTIMETER/BAROMETER

This hand held, water-resistant altimeter/barometer features sleek styling and state-of-the-art electronics. The altimeter's memory records both total vertical ascent and descent average. The barometer has a barometer lock feature and measures temperature, sea level pressure, and absolute pressure. Altitude Range: -1,600 to 29,500 ft. (-500 to 9,000m). Min. Accuracy: plus/minus 10m, plus/minus 30 ft. Min. Grad: 3 ft./10 ft., 1m/5m (user-defined). Temperature Range: -5degree F to +140 degrees. Range: 8.9" to 32.40" Hg, 300 to 1,100 mbar.



SIL-15CL



K & E TYPE TOPOGRAPHIC ABNEY LEVEL

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 - 60 in both directions, and the other graduated in topographic scale. Index has friction movement for time adjustment. Complete with Cordura belt loop case.

SOK-8047-45

SUUNTO KB-14 COMPASS

The worlds most accurate hand held compass. Bearing can be read quickly and accurately to 1/2 degree, estimates to 1/4 degree. Lightweight and rugged aluminum housing, includes neck layered and skylon case. Contingent table printed on back of compass computes distance.

SUU-KB14A
Azimuth (0-360 degree) Graduated in 1 degree increments

SUU-KB14Q
Quadrant (0-90 degree) Graduated in 1 degree increments



SUU-KB14A

SILVA RANGER TYPE 15CL MIRROR COMPASS WITH BUILT-IN CLINOMETER

Appraised by many as the world's finest hand compass. Gear driven adjustment mechanism for magnetic declination. Clear clinometer for measuring angles of slope. Full size sighting mirror for 1 degree pinpoint accuracy. Azimuth (0-360 degrees) or Quadrant (0-90degree-0) readings. No slip protector base features inch, millimeter, 1:25,000 and 1:50,000 romer scales. Meets or exceeds U.S.F.S. specifications.

- # SIL-15CLQ Silva Ranger Type 15CLQ-Quadrant w/ built in Clinometer reading 0-90-0° degrees
- # SIL-15CL Silva Ranger Type 15CL-Azimuth w/ built-in Clinometer reading 0-360° degrees



POCKET SIGHTING LEVEL - ALUMINUM

Ideal for preliminary survey and simple distance estimation. Sturdy impact resistant body and easy-to-read protected vial. Available in blister pack.

17-620A



SUU-31193

SUUNTO CLINOMETERS

These versatile instruments can be used to measure heights of trees, towers, buildings etc.; to measure slopes for grading or preliminary surveying; and to measure vertical angles for cellular and satellite installations and more.

- # SUU-31193 Tandem Compass Clinometer w/ Declination Adjust.
- # SUU-43830 Percent and degree scales (plus/minus 150%, plus/minus 90 degrees) Cosines to 45 degrees on back.
- # PM5/360PC

ABNEY LEVEL WITH CLINOMETER LEVEL

This level is 5 1/8" long. 1 1/8" radius arc graduated in degrees in both directions. Slope scale 1:1 to 1:10. Includes belt-loop case.



#SOK-8047-10
#SOK-8047-15 same as above but with percent-of-grade scale from 0-100%



BRUNTON INTERNATIONAL POCKET TRANSIT

The international suspension was introduced in the late 1970s as more field professionals found themselves working on projects throughout the globe. The international design effectively reduces needle "dip" when professionals travel to different hemispheres of the globe. Powerful Alnico V magnets are mounted to a polished, cupped sapphire jewel bearing, allowing for smooth needle movement. This transit is virtually indestructible.

- # BRU-5005-LM 0-90 Quads
- # BRU-5006-LM 0-360 degree

ABNEY LEVELS, COMPASSES & ALTIMETERS



“Measure While you Walk” has been the cornerstone of the ROLATAPE® CORPORATION since its’ founding in 1950.

MEASURING WHEELS & TAPES



MODEL 400



MODEL 415



MODEL 623

ROLATAPE MODEL 400

The Model 400 is built for reliable outdoor measuring under most terrain. Precision totalizer automatically records up to 100,000’ without resetting. Two-inch spoke setting provides accurate measuring to a fraction. Automatic brake prevents accidental back-tracking; built-in stand keeps wheel in upright position. Handle folds for storage. Circ. 4’; diameter 15 1/2”; weight 5 1/4 lbs.

- # ROL-400 Calibrated in feet and inches
- # ROL-400M Calibrated in meters and decimeters
- # ROL-400D Dual Counters- calibrated in feet and inches
- # ROL-400MD Dual Counters- calibrated in meters and decimeters

ROLATAPE MODEL 415

The Model 415 has a 4’ circ. plated steel disc wheel which permits easy movement through brush and undergrowth. Wheel calibration to 1/2” on one side, 1/2 of one-tenth ft. on the other. Otherwise the 415 has the same specification and measuring usage as Model 400.

- # ROL-415D Dual Counters- calibrated in feet and inches
- # ROL-415MD Dual Counters - calibrated in meters and decimeters

ROLATAPE MODEL 623

The Model 623 is designed for heavy duty, long distance measuring for surveying, cross country and acreage needs. Records up to 100,000’. Double handle provides extra strength, folds for carrying. Built-in stand keeps wheel in upright position. All-steel construction, 6’ circ.; wheel diameter is 23”; weight 7 1/2 lbs.

- # ROL-623 Calibrated in feet and inches
- # ROL-623M Calibrated in meters and decimeters
- # ROL-623D Dual Counters - calibrated in feet and inches

MEASURE MASTER 12

The Model 12 automatically records measurements line to line, wall to wall, vertically, overhead, around curves and over contours. Compact, light and accurate it is popular with realtors, appraisers, safety engineers, contractors and traffic officers. Push-button veeder-root counter records up to 10,000’ and resets to zero automatically.

38” tubular handle contracts to 21 inches. Completely sealed counter mechanism is easy to read. Wheel circ.1’, diameter 4”. Weighs less than 2 lbs.

- # ROL-MM12 Calibrated in feet and inches
- # ROL-MM12T Calibrated in feet and tenths
- # ROL-MM12M Calibrated in meters and decimeters



MEASURE MASTER 50

For all-weather measuring over almost all terrain. The strong, steel constructed Model 50 has a 5’ circ. wheel which measures over rough and uneven terrain accurately. Veeder-root counter records up to 1,000’. Diameter 19”. 4 1/2 lbs.

- # ROL-MM50 Calibrated in feet and inches



MEASURE MASTER 6.6

Built of strong tubular steel to measure acreage, the MM-6.6 also handles row measurements and trenching applications. Lift and lock handle folds to 29 1/4” and extends to 46 7/8”. Push button counter records up to 10,000’ increments. Durable steel 25” diameter, 6.6 foot circ. wheel. 5 1/2 lbs.

- # ROL-MM6.6



MEASURE MASTER 12 TWIN

Same as the MM-12 except with two matched wheels for improved stability. Easy to keep a straight line.

- # ROL-MM12TWIN Calibrated in feet and inches
- # ROL-MM12TWIN-T Calibrated in feet and tenths
- # ROL-MM12TWIN-M Calibrated in meters and decimeters



MEASURE MASTER 30

For indoor or outdoor use. Sturdy steel construction. 19” aluminum handle extends to 38”. Veeder-root counter completely sealed, measures to 10,000’ without resetting. Wheel circ. is 3’; diameter 11 1/4”; 3 1/4 lbs.

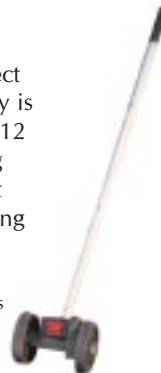
- # ROL-MM30 Calibrated in feet and inches
- # ROL-MM30M Calibrated in meters and decimeters to 1,000 meters
- # ROL-MM30T Calibrated in feet and tenths



ROLATAPE MODEL 112

The Professional 112 series is perfect for tough conditions when accuracy is critical. Indoors or outdoors, the 112 series is the professional measuring choice. Measure up to 10,000 feet without resetting, 3 piece telescoping handle. Circ. 1’; diameter 4”; weight 4 lbs. 5 year warranty.

- # ROL-112 Calibrated in feet and inches
- # ROL-112T Calibrated in feet and tenths



ROLATAPE MODEL 300

The Model 300 is Rolatapes heavy duty, high precision measuring wheel for demanding terrain. Counter measures to 100,000’ without resetting. Designed with the unique Lift and Lock handle folding system for transport and storage. Wheel circ. 3’; diameter 11 1/4”; 3 1/2 lbs.

- # ROL-300 Calibrated in feet and inches
- # ROL-300M Calibrated in meters and decimeters
- # ROL-300S With stand (not pictured)



KESON METAL PROFESSIONAL WHEEL

Best Seller with an innovative design - simple, centerline functionality and great balance. Rugged 3/4-inch steel tubing - tough enough to handle any terrain. Barrel clamp locks the handle to upright, releases in a second for storage. Superior counter protection and placement. The scraper and metal shelf keep dirt and debris from coming into contact with the critical counter. Compact fold-down - easily folds to half its size for storage and portability.

- # MP301 Calibrated in feet, 11 1/2” dia.
- # MP401 Calibrated in feet, 15 1/2” dia.



KESON ROADRUNNER® OUTDOOR WHEELS

Best Seller - tens of thousands sold every year. 5-digit, easy-read, magnified counter (9,999ft.) that subtracts in reverse. Measures almost two miles without resetting. Heavy-duty, polycast wheel with clean three-spoke design. Curved, telescoping handle adjusts to comfort level.

- # RR318N Calibrated in feet and inches
- # RR418N Calibrated in feet and inches

KESON SURVEYORS ROPE

CAT. NO.	LENGTH
# KES-SR-10-100	100’
# KES-SR-10-200	200’
# KES-SR-10-300	300’

Quality engineered combination of extruded fiberglass and polyvinyl chloride make a very lightweight, tough, flexible rope that will withstand constant use in mud, water and over-abrasive terrain. Graduated in 10ths of a foot.





POCKET MAGNIFIERS

Bausch & Lomb's Highly Corrected Pocket Magnifier has plastic mounts and a polished metal swing case.

817210 Coddington - Wide Field Single Lens, 1 in.; 10x (not pictured)

817310 Hastings Triplet - Highly corrected for spherical and chromatic aberration. Single Lens, 1 in.; 10x (not pictured)

FOLDING MAGNIFIER

Folding magnifiers with durable plastic cases/frames. Not pictured.

817020 Single Lens, 1 in.; 5x

2X POCKET MAGNIFIER

Bausch & Lomb pocket-size magnifier with swing leather case; 2" double convex lens; accurately ground and polished.

817000



DOUBLE RIGHT-ANGLE PRISM

- Compact and precise-easy determination of right-angle points or rectilinear points between two targets.
- Two large, precision-made pentagonal prisms firmly secured together for proper alignment.
- Protective metal cover rotates to expose prism.
- Complete with leather belt-loop case.

PPI-8047-80



RIGHT-ANGLE PRISM

- Single 90 degree prism for conveniently and quickly setting-off right angles.
- Complete with leather case.

CST-66-900



4X TO 8X POCKET MAGNIFIER

Folding double lens magnifier in durable plastic case/frame. 1 1/4" diameter lenses.

SOK-8170-28



POCKET STEREOSCOPE

An excellent stereo device for quick scanning of aerial photos and maps with 2X magnification. Permits intraocular adjustment from 55mm to 75mm. Sturdy metal construction with convenient folding legs and case. # CST-18-740

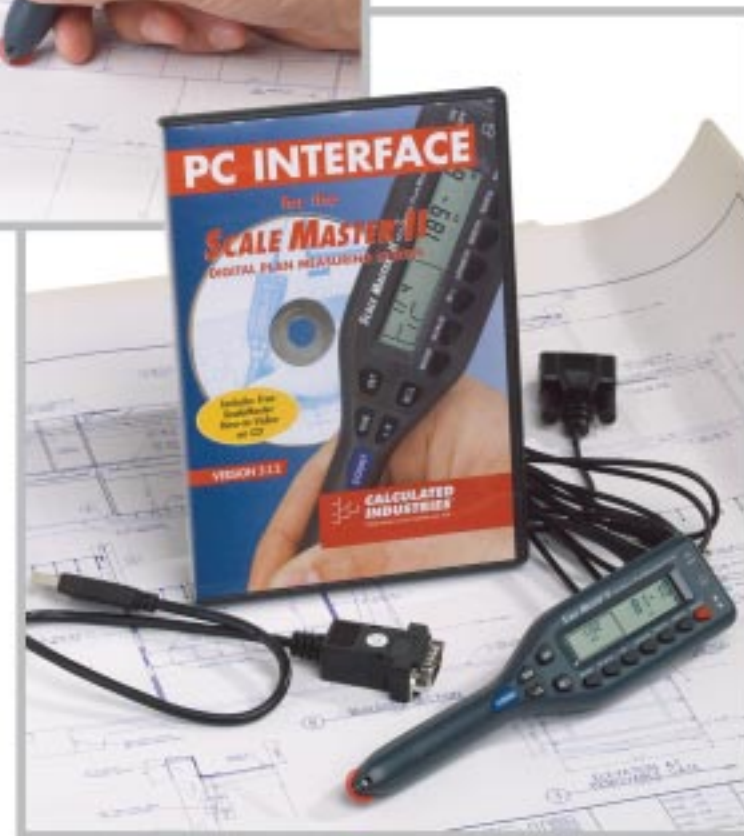
SCALES AND PLAN MEASURERS



SCALES AND PLAN MEASURERS

SCALE MASTER CLASSIC

Digital plan measuring instrument with 72 built in scales (39 Imperial feet-inch and 33 Metric). Six custom scales for enlarged, reduced or faxed plans. Two built-in memories quickly solve for area and volume or accumulate and store two different measurements (for materials estimations). Count other items with built-in, push-button counter. Many dimensional units Scale Master Classic provides all the most needed units: decimal feet, feet-inches, decimal inches, yards, millimeters, meters, kilometers - all available in square and cubic too. Includes: Auto-shut-off, and easy to follow users guide, 2 long life lithium batteries and sturdy vinyl case. # CAL- 6020



SCALE MASTER II WITH PC INTERFACE KIT

Advanced digital plan measure with optional PC interface kit which makes it simple to input directly into spreadsheet or estimating programs.

CAL-6325

SCALE MASTER II PC INTERFACE KIT

Instantly sends values from the Scale Master II into favorite PC spreadsheets or estimating programs. Saves time and countless keystrokes compared to manual input, reduces key board and data transfer errors, speeds up estimate/bid completion and accuracy. Includes: Easy-to-follow Users Guide on CD and a full 1-year Warranty # CAL-6215

SCALE MASTER II

The most complete digital plan measurer ever developed featuring 91 built-in scales (50 Imperial feet-inch and 41 Metric). Eight custom scales allows user to define any scale, even plans that have been reduced, enlarged or faxed. Dedicated length and width keys. Auto count value lets user automatically count how many times a specific distance has been rolled. More dimensional units: decimal feet, feet-inches, inches, yards, miles, naut. miles, acres, millimeters, meters and kilometers. Built-in accumulating memory, metric mode, subtract, constant (+K) keys and more. Includes auto-shut-off, and easy to follow users guide, 2 long-life lithium batteries and a sturdy vinyl case. This model has PC interface capability. # CAL-6130





DOES YOUR CALCULATOR MEASURE UP?

CALCULATORS

KES-TM100



KES-TM200



TALLY COUNTERS

These precision tally counters record and count instantly. One model fits comfortably in the hand; the other is supplied with a base for easy mounting on a table or countertop. Easy action lever changes count with slight thumb pressure, and a single turn of the side knob resets tally counters to zero after each counting is completed. 4-digit register records up to 9999.

- # KES-TM100 Hand held tally counter
- # KES-TM200 Tally counter with base

HEAVYCALC

Advanced feet-inch-fraction and metric calculator for excavation and heavy construction professionals. # CAL-4320



CONSTRUCTION MASTER PRO TRIG

Advanced construction-math feet-inch-fraction calculator will full trigonometric functions. Great for professionals needing precise angle measurements. Hard case available. # CAL-4080



CONSTRUCTION MASTER PRO

Advanced Construction-math feet-inch-fraction and metric calculator for design, building, construction and estimating professionals. # CAL-4065



MEASURE MASTER PRO

Advanced feet-inch-fraction and metric dimension calculator. Ideal tool for solving dimensional problems for professionals. Work in and convert between any building dimensions, including metric, linear, area and volume measurements. # CAL-4020



ULTRA MEASURE MASTER

Imperial/Metric conversion calculator. Professional-grade with over 400 scientific and physical unit conversions built-in. # CAL-8020



CONSTRUCTION MASTER 5

Construction-math feet-inch-fraction and metric calculator used for building professionals. Hard case available. # CAL-4050



PROTECTIVE HARD CASES

These protective hard cases fit most Construction Master calculators.

- # CAL-5022-2 Black/Gray
- # CAL-5022-3 Blue/Tan
- # CAL-5022-4 Orange/Gray



CONSTRUCTION MASTER PRO DT

Desktop model does everything the hand-held pro and trig models do, plus gives you full-size keys and a large easy-to-read LCD. # CAL-44080



HP-48GII GRAPHING CALCULATOR

The HP 48gII keeps reliable, high-level assistance at hand for demanding engineering and surveying applications. Ideal for engineering, computer science, surveying, trigonometry, calculus, statistics, geometry, biology, chemistry, physics and more. Key features include: serial port can be used to interface with a PC and any data you collect can be analyzed on your calculator, graphing functions with interactive graphics, 2D/3D plotting. # HP-48GII



HP-33S SCIENTIFIC CALCULATOR

Accuracy, functionality, and dependability make this pocket-sized calculator a great tool for engineers, surveyors and college students. Features include 31KB of memory, RPN and algebraic data-entry, a powerful two-line display, and the time-saving HP Solve application. # HP-33S





1. METRIC POWER RETURN TAPES W/ LOCK

Yellow blade with black and red markings, one side only. Metric on one edge graduated to millimeters, numbered consecutive centimeters; feet decimeters marked in red. High visibility orange case.

- # LUF-HV1023CME 1/2" x 10'3m English
- # LUF-HV1035CME 3/4" x 16'5m English
- # LUF-HV1048CME 1" x 26'8m English
- # LUF-1048DM 1" x 25'7.6m, Tenths

2. METRIC ONLY POWER RETURN TAPE WITH LOCK

Yellow clad tape. Black and red markings one side only. Both edges graduated to millimeters; numbered consecutive centimeters with larger red numbers at each decimeter. High visibility orange case.

- # LUF-HV1023CM 13mm x 3m
- # LUF-HV1035CM 19mm x 5m
- # LUF-HV1048CM 25mm x 8m

3. LUFKIN 25' TAPE 10THS PRO-SERIES

Quick-Clip belt hook for fast, easy attachment to belt. Rubber cushion absorbs impact and improves grip. Non-slip toggle lock. Ny-Clad coating extends blade life 5 times vs standard blades. Compact size for comfort and easy storage. Dura-Life end hook is 10 times stronger than standard end hooks.

- # LUF-PS3425D

4. METRIC/ENGLISH 33'/10M POWERRETURN TAPE W/ LOCK

Yellow clad 1" wide blade. Black and red markings one side only. Upper edge graduated and numbered inches. Lower edge graduated in millimeters, numbered consecutive millimeters with red number at each decimeter.

- # LUF-HV1410CME
- # LUF-HV1433D

5. ENGINEERS 12' POCKET TAPE

Graduated in feet, 10ths and 100ths top edge, feet, inches and 1/16ths on bottom edge. 3/4" wide.

- # LUF-HV1312D
- # LUF-1312D

6. ENGINEERS 25' POCKET TAPE

Graduated in feet, 10ths and 100ths top edge, feet, inches and 1/6th on bottom edge.

- # LUF-1325D 3/4" wide
- # LUF-1425D 1" wide
- # LUF-1425ED 10ths only

① # LUF-1048DM

② # LUF-HV1048CM

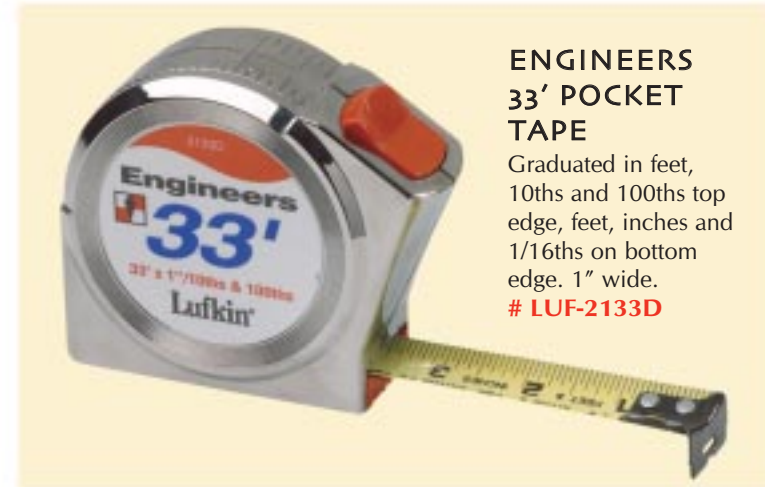
③ # LUF-PS3425D

④ # LUF-HV1433D

⑤ # LUF-HV1312D

⑥ # LUF-1425D

ENGINEERS TAPES



ENGINEERS 33' POCKET TAPE

Graduated in feet, 10ths and 100ths top edge, feet, inches and 1/16ths on bottom edge. 1" wide.

- # LUF-2133D

SIX-FOOT WATERPROOF FIBERGLASS FOLDING RULER

This waterproof fiberglass folding ruler prevents common problems that occur with wood rulers such as fading, splintering and chipping. It outlasts wood rulers four-to-one.

- # SEC-4770-00 Engineer's, 10ths/Inches
- # SEC-4770-01 Engineers, 10ths/Metric

6 FOOT FOLDING RULE

Graduated in feet, 10ths and 100ths. Regular outside markings in feet, inches and 1/16ths.

- # LUF-1066D
- # LUF-1066DM Graduated in millimeters and feet, 1/10ths and 100ths.

BUILDER'S MINI ROD

Unfolds to 6 or 9 foot leveling rod with printed graduation on both sides embedded below surface and sealed with reflective yellow finish. Lightweight and economical. Orange nylon case.

- # SOK-8075-47 6 ft Mini Rod in ft./in./8ths
- # SOK-8075-48 6 ft Mini Rod in ft./10ths/100ths
- # SOK-8075-50 9 ft Mini Rod in ft./in./8ths
- # SOK-8075-51 9 ft Mini Rod in ft./10ths/100ths

SUPER HI-WAY NUBIAN

.019" thick steel. Railroad half-gage mark is 2', 4 1/2" from zero end. Black space at each end. Extra foot before zero graduated right to left to 10ths and 100ths. Balance is marked every foot except last feet of each 100' length, which is in 100ths feet. Reel sold separately.

- # LUF-9100B 100' 5/16" wide
- # LUF-9200B 200' 5/16" wide
- # LUF-9300B 300' 5/16" wide
- REELS** Not pictured
- # LUF-31-100 100'
- # LUF-31-200 200'
- # LUF-31-300 300'



LUF-1066D

SEC-4770-00

LUF-1066DM

SOK-8075-48



ENGINEERS FIBERGLASS OPEN-TYPE REEL TAPE

Lightweight open type reel, graduated in feet, 1/10ths and 100ths. Numbered with feet in red and 1/10ths of feet in black. 1/2" wide. Reels are lightweight high impact polystyrene.

- # LUF-1703D 50'
- # LUF-1706D 100'
- # LUF-1708D 200'

LUFKIN NUBIAN FINISH DIAMETER & TREE TAPE

One side graduated in inches and 10ths to 76" diameter. Other side graduated in feet, 10ths, and 100ths to 20 feet. Strong black etched steel blade has raised steel graduations. Claw hook attaches to tree for one man measuring. Fast and easy hand crank rewind.

LUF-120TP

ANCHOR - CHROME CLAD TAPES

Chrome clad blade (non-rusting). Professional quality. 3/8" wide. Vinyl covered steel case. Graduated in feet, 10ths and 100ths.

- # LUF-C213D 50'
- # LUF-C216D 100'

BANNER TAPE

Yellow clad. 3/8" wide. Vinyl covered steel case. Graduated in feet, 10ths and 100ths. Blade is fitted with a folding hook.

- # LUF-HW223D 50'
- # LUF-HW226D 100'

LUFKIN ARTISAN DIAMETER TAPE

One side, 240" graduated in inches to 1/16". Other side graduated in inches with extra diameter inch subdivided to 64ths. Black etched steel tape with raised graduations.

LUF-120P

BMI FRAME TAPES

BMI's best-selling tape features a stainless steel coating, good visibility, standard hook or pull ring, and rust-proof pontarit. Standard hook ring: zero point at end of hook ring

- # 2473P100 100, inch-metric
- # 2473P200 200, inch-metric
- # 2473P330 330, inch-metric
- # 2473P100T 100, tenth-metric
- # 2473P200T 200, tenth-metric
- # 2473P330T 330, tenth-metric

Pull tape: zero point is 1, from the beginning of the tape line

- # 2473P100LFR 100, inch-metric
- # 2473P200LFR 200, inch-metric
- # 2473P330LFR 330, inch-metric
- # 2473P100TLFR 100, tenth-metric
- # 2473P200TLFR 200, tenth-metric
- # 2473P330TLFR330 330, tenth-metric



KESON FIBERGLASS TAPES

Keson Fiberglass Reinforced Tapes have maximum durability, superior accuracy, electrical hazard protection and unparalleled flexibility.

OPEN TYPE REEL

1810 SERIES

Graduated in feet, inches and 1/8ths, and feet, 10ths and 100ths. Printed on one side in feet, inches and 1/8ths. Second side in feet, 10ths and 100ths.

- # KES-OTR-1810-50 50'
- # KES-OTR-1810-100 100'
- # KES-OTR-1810-200 200'
- # KES-OTR-1810-300 300'

18 SERIES

Graduated in feet and inches. Printed on one side in feet, inches, and 1/8ths.

- # KES-OTR-18-50 50'
- # KES-OTR-18-100 100'
- # KES-OTR-18-200 200'
- # KES-OTR-18-300 300'

18M SERIES

Graduated in feet inches/metric. Printed on two sides: first side in feet, inches and 1/8ths. Second side in metric, with increments in meters, cm and 2mm.

- # KES-OTR-18M-50 50'
- # KES-OTR-18M-100 100'
- # KES-OTR-18M-200 200'
- # KES-OTR-18M-300 300'

M SERIES

Graduated in Metric. Printed on one side in meters, cm and 2mm.

- # KES-OTR-15M 15M
- # KES-OTR-30M 30M
- # KES-OTR-50M 50M
- # KES-OTR-60M 60M
- # KES-OTR-100M 100M

10 SERIES

Graduated in feet 10ths and 100ths. Printed on one side in feet, 10ths & 1/100ths.

- # KES-OTR-10-50 50'
- # KES-OTR-10-100 100'
- # KES-OTR-10-200 200'
- # KES-OTR-10-300 300'

10M SERIES

Graduated in feet, 10ths and 100ths/ Metric. Printed on one side in feet, 10ths and 100ths and the second side in meters, cm, 2mm.

- # KES-OTR-10M-50 50'
- # KES-OTR-10M-100 100'
- # KES-OTR-10M-200 200'
- # KES-OTR-10M-300 300'

FIBERGLASS MEASURING TAPES IN CLOSED METAL CASE

Keson Fiberglass Measuring Tapes have maximum durability, superior accuracy, electrical hazard protection and unparalleled flexibility.

10 SERIES

Graduated in feet, 10ths and 100ths. Printed on one side in feet, 10ths and 100ths. (not pictured).

- # KES-MC-1050 50'
- # KES-MC-10100 100'

18 SERIES

Graduated in feet and inches. Printed on one side in feet, inches and 1/8ths. (not pictured).

- # KES-MC-18-50 50'
- # KES-MC-18-100 100'

LUFKIN TAPE

Fiberglass tape graduated in feet, 1/10ths and 100ths. Numbered with feet in red and 1/10ths of feet in black. 1/2" wide. Cases and reels are lightweight high-impact polystyrene.

- # LUF-703D 50'
- # LUF-706D 100'

K-LINE SERIES

The blade on this tape is a bit thicker than others. Features double-sided blade with patented double hook and 3x1 rewind!

- # KLN-1810-100F 100'
- # KLN-1810-200F 200'

LUFKIN 200' NYLON COATED STEEL TAPE

Nylon coated steel blade resists wear under extreme conditions. Features super fast 3-to-1 blade retraction and Hi-Viz orange case. # LUF-PS1808D Engineer's Scale, 10ths & 100ths, feet

NYLON REINFORCED STEEL TAPES

These tough, durable, nylon reinforced tapes assure long life under field abuse. Available in different lengths and units. Graduated in feet, inches, 1/8ths, 1/10ths and 1/100ths. # available but not listed.

REEL

- # 0-100 100'
- # 8-100 100'
- # 0-200 200'
- # 8-200 200'

STAINLESS STEEL REEL

- # KES-SNR-10-300 300'
- # KES-SNR-18-300 300'

do we want to add picture or just leave "not pictured"?



DIMENSION MASTER LASER MEASURING TAPE

Simple, yet powerful ultrasonic distance measurer with a laser aimed/pointer and two-position measuring head for the ultimate in versatility and convenience, Fast and accurate measuring from 2 ft. up to 50ft. Measures in feet-inches or meters.

CAL-3338



OPTI-LOGIC LASER RANGEFINDER

Single Button Operation. Red Dot Aiming System. Yards, meters, or feet. Audible "Chirp" mode. Silent "Stealth" mode. Accurate to +/- 1 yard. Single 9-volt battery. All units have a 4 yard minimum range. 400 yd models available.

OPT-XL-400
OPT-XL-600



OPTI-LOGIC LASER RANGEFINDER XT SERIES

Single Button Operation. Automatic Rain Mode. Yards, meters, or feet. Always in silent "Stealth" mode. Accurate to +/- 1 yard. Single 9-volt battery. All units have a 4 yard minimum range.

# 120XT	LOS/Horizontal Distance	120 Yards
# 400XT	LOS/Horizontal Distance	400 Yards
# 600XT	LOS/Horizontal Distance	600 Yards
# 600XP	LOS/Horiz/Temperature	600 Yards

OPTI-LOGIC LH RANGEFINDER/HYPSOMETERS

The LH Series has all the features of the Laser Rangefinder plus the ability to measure heights and angles. Accuracy is +/- one yard for distance, +/- 0.2 degrees for angles and +/- one foot (reading) for height. 400 yd range & 600 yd models. (not pictured)

OPT-LH-400
OPT-LH-600



RANGEFINDERS

LEICA DISTO A6

With the Disto A6 you can get precise, fast and reliable measurements. The data can be electronically transferred to a Pocket PC or Laptop for immediate processing. Transfer your measured data to Excel®, Word®, AutoCAD® or other programs. Features integrated telescopic viewfinder with 2-fold zoom, integrated BLUETOOTH® technology, DISTO transfer and navigation keys.

LE-DISTO-A6



LEICA DISTO A2

This handy tool allows for faster and more accurate measurements inside. The A2 has a measuring distance of 197' accuracy within 1/8", making it the perfect tool for your indoor job. Also includes "stake out" function which allows you to stake out the distance between studs or wall frames.

#LE-DISTO-A2

LEICA DISTO A8

The Disto A8 features easy to use indirect measurements using the tilt sensor, integrated tilt sensor, digital view finder (3x zoom), Power Range Technology™, horizontal distance measurements, multifunctional end piece with automatic detection and is splash water and dust proofed.

#LE-DISTO-A8 (not pictured)



LE-DISTO-A3

LE-DISTO-A5

DISTO LASER DISTANCE METER

Outstanding compactness and simple operation are the defining characteristics of both the basic (A3) and most versatile (A5) models. Shortcut keys for addition, subtraction, area and volume mean that measuring could not be simpler. Minimum and maximum distance calculation are also possible. Both models feature Power Range Technology.

LE-DISTO-A3 Measuring range of .16ft. up to 325 ft./typ. accuracy +/- .12 in.

LE-DISTO-A5 Measuring range of .16ft. up to 650 ft./typ. accuracy +/- .08 in.

Our technicians can skillfully diagnose your instrument problems faster and more accurately the first time.



OUR SERVICE DEPARTMENT

has a combined total of 120 years of repair experience. Our technicians can skillfully diagnose your instrument problems faster and more accurately the first time. Their experience allows them to offer you advice on what is the most economical and practical solution to your instrument service needs.

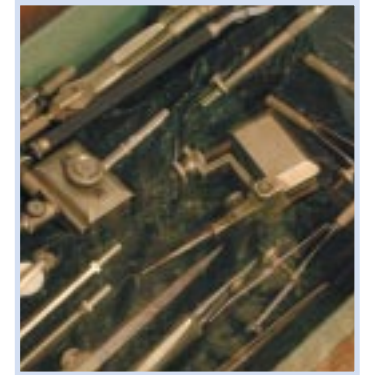
PPI service technicians take pride in using the best technology and testing equipment to get your instrument up and running and get you back in the field with as little down time as possible. We service everything from micrometers to levels to machine control.

ITEMS WE SERVICE:

- Lasers
- Transits
- Theodolites
- Levels
- Tripods
- Rods
- Total Stations
- Laser Sensors
- Chains
- Prisms
- Prism Poles
- Recell most batteries
- Repair most cords and cables
- Restore antique instrumentation
- GPS & Robotic
- Construction Machine Control Systems

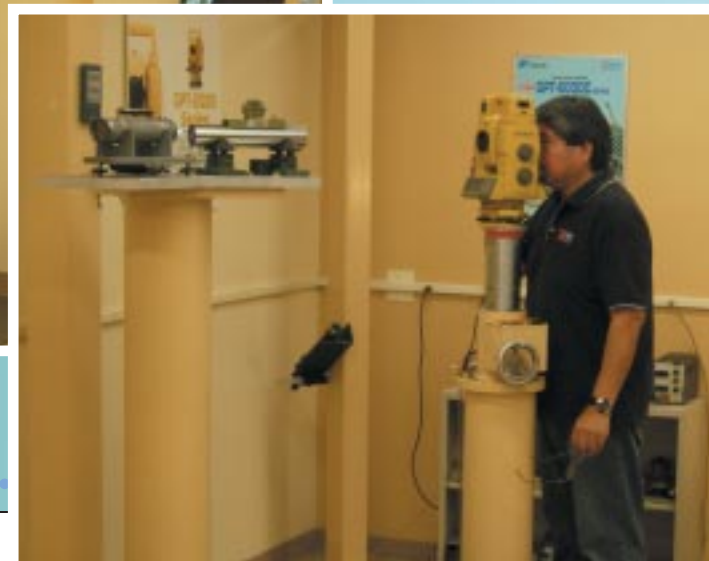
RENTALS

The PPI Group has a separate rental department that rents instrumentation out on a daily, weekly, or monthly basis. We also offer rental purchase options. All of our instruments are checked and collimated before every rent to assure accuracy.



- Laser Levels
- Transits
- Total Stations
- Data Collectors
- Auto Levels
- Theodolites
- Precise Levels
- Laser Sensors
- 360 Laser Sensors
- Pipe Lasers
- Machine Control
- Magnetic Locators
- Prisms
- Measuring Wheels
- Rods
- Tripods
- Prism Poles
- GPS
- Laser Distance Instruments

- Collimating
- Calibrating
- Appraising
- Overhauling
- Adjusting
- Modifying
- Checking
- Repairing
- Inspections
- Cleaning
- Estimating
- Calibration Report Available Upon Request





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Introducing GR-3

The world's first G3-enabled GNSS receiver

It's time to see GPS hardware in a whole new light. New signals, planned modernization, Galileo coming. It's enough to make you stop and wonder: "is the hardware I'm buying today going to be obsolete tomorrow?" Or: "Am I paying for features now that I can't use for years to come?"

GR-3 lets you answer "no" to both. Like all Topcon GP5+ hardware. GR-3 uses our unique Options Authorization. File system to let you activate the features you want when you need them. G3 technology means it's ready for all of tomorrow's options – no worries that your new system will soon be obsolete.

The first time you use GR-3, you'll see the difference. From its quick-disconnect mounting to the tip of its patented center mount radio antenna, GR-3 is designed to maximize your productivity and quality of work.

- Rugged magnesium 1-beam construction – tested to withstand a 2-meter pole drop.
- Dual hot-swappable lithium-ion battery packs for up to 12 hours of continuous operation.
- Unique dual-communication system featuring both long-range spread spectrum and optional internal GSM/GPRS cellular SIM card.
- Dual-function design – use as base and rover or two rovers, doubling your productivity within networks.
- Bluetooth™ wireless technology equipped for completely cable-free operation.



Get the whole story
Visit our website to request a copy of the new GR-3/G# Technology video

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