

Wild Woman Company, Inc.

**"The Wild Woman
takes Care of all
your Construction
and Surveying needs!"**

Visit us @
www.survey-equipment.com

2014 Surveying Catalog

New Products

PLAN HOLDER

- ▶ Plan holder hangs on the back or front of any vehicle seat
- ▶ Slots which hold four 6-inch (15.24-cm) diameter plans
- ▶ Front pocket accommodates a note pad, phone, or other small items
- ▶ Organizer strap holds pens, pencils, markers, and other necessary tools
- ▶ Available in blue or black



8046-10-BLU — Pages 11 & 75

HEAVY-DUTY COLUMN CLAMP

- ▶ Featuring a solid stable design and works with all 5/8 x 11 instruments
- ▶ Adjustable column rotates and moves vertically to orient the instrument when needed and features 12-inches (30.48-cm) of height adjustment
- ▶ Includes a 2-inch by 10-ft (5.08-cm x 3.05-m) strap rated for a 2200 pound load and a heavy-duty ratchet
- ▶ The center line of the 5/8 x 11 stud to column measures 15-inches (38.1-cm)
- ▶ Constructed of structural aluminum and stainless steel hardware



4852-16 — Page 63

MIFI HOTSPOT CASE

- ▶ Secures any MiFi unit to any GNSS survey pole or prism pole
- ▶ This pouch stays in place; it will not slip down the pole
- ▶ Easily attaches to pole with metal clamp on case
- ▶ A Velcro strap keeps unit safely inside clear pouch
- ▶ Inside dimensions 6 x 4.25-inches
- ▶ Constructed of heavy-duty Cordura®



8143-40-FLY — Page 74

TRIPOD RADIO ANTENNA KIT

- ▶ Kit attaches easily to any surveying instrument tripods
- ▶ Clamp will attach to any tripod leg and ram ball and socket section of clamp quickly sets the antenna pole up vertically
- ▶ Kit consists of three antenna sections that set up the radio antenna pole height to 3.1-ft (0.95-m) above the tripod
- ▶ A large washer is included to allow a straight connection to a tripod for a separate setup
- ▶ Kit bag included measures 16 x 6 x 2-inches



2133-06 — Page 4

HYDRATION PACK

- ▶ Mod-U-Lox® keeps hydration tube secure on either strap, allowing access to the bite valve for either right or left handed use (one on each side)
- ▶ Covered with the same fabric and reflective tape as our safety vest
- ▶ Shoulder straps adjust and chest strap has side buckle release
- ▶ Bladder holds up to 2.5 liters (84.5 fl oz) of fluid



8125-60-FOR — Page 74

STANDARD PRECISION (WITH OPTICAL PLUMMET AND NON-OPTICAL PLUMMET) TRIBRACHS

- ▶ SECO now offers Geodesy-MOM tribrachs in the Standard Precision model
- ▶ Both models have an error in angle measurement (hysteresis) of 5 cc
- ▶ European-made with an effortless locking mechanism for fast and solid tripod connection
- ▶ 5/8 x 11 threaded base plate and 8-minute circular vial
- ▶ A center line on each of the leveling screws allows the user to balance the lengths of the leveling screws



2152-07-BLK — Page 37
2153-07-BLK — Page 37

QUICK RELEASE ADAPTER FOR TX5 AND 3D SCANNERS

- ▶ New "Quick Release Adapter" specifically for Trimble TX5 and Faro Focus 3D scanners
- ▶ Quick and safe connection between the scanner instrument and any tripod with a male 3/8 x 16 thread
- ▶ Rotates smoothly on Delrin® bearing for orientating the instrument
- ▶ Clamp screw is locked to protected from damage
- ▶ Built-in 100-min level vial on base
- ▶ Base has a setscrew to lock base to tripod head
- ▶ Anodized aluminum and stainless steel materials



6703-015 — Page 44

230 MM SCANNER SPHERE

- ▶ Aluminum scanner sphere
- ▶ 230 mm diameter, accuracy < 2 mm
- ▶ Painted non-glare white
- ▶ Female 5/8 x 11 threaded mount
- ▶ Center height is 114 mm from bottom flat



6704-001 — Page 43
6704-Series — Page 44

BAJA STYLE TOOL POUCH AND BUCKET BAG

- ▶ Constructed of leather and rugged #8 canvas duck material
- ▶ 8046-40-NAT features two front pockets, a deep 9 x 2 x 11-inch pocket and a leather lined hammer loop
- ▶ 8097-30-NAT leather bottom gives the bucket bag a robust base and includes an open grommet and a white polypropylene rope handle has a working load strength of 100 pounds



8046-40-NAT — Page 73
8097-30-NAT — Page 74

NEW BIRCH WOOD TRIPODS

Featured on Page 41

CHRISNIK MAGNAILS, MAGSPIKES AND MAGHUBS

Featured on Page 80

CRAIN CARGO NET BY BEDNET

Featured on Page 11

NEW QUICK RELEASE CLAW COMPONENTS AND OPEN CLAMP BRACKETS & CRADLES

Featured on Pages 8 and 9



Land Surveying

Section One

GNSS Accessories	4-10
Vehicle Accessories	11-12
Vials and Levels	13
Robotics Applications Accessories	14

1

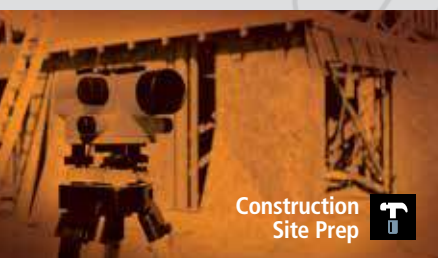


GNSS

Section Two

Specialty Prism Poles	15-16
Prism Poles: Quick Change, Telescoping and TLV, Compression Lock, QLV, Contractor Series	17-20
Prism Pole and Rod Accessories and Rod Extensions	21-22
Prism Pole Bipods & Tripods	23

2

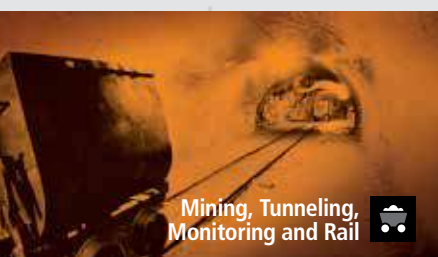


Construction Site Prep

Section Three

62 mm Prisms and Assemblies	24-27
Sliding Prisms and Pin Pole Kits	28-29
25 mm Prisms and Assemblies	29-31
Mining, Tunneling, Monitoring and Rail	32-34

3



Mining, Tunneling, Monitoring and Rail

Section Four

Traverse Kits	35-36
Tribrachs and Adapters	36-37
Instrument Tripod Accessories	37-38
Instrument Tripods	38-42

4



Oil and Gas

Section Five

Laser Scanner Accessories	43-45
Leveling Rods and Accessories	46-49
Magnetic Locators	50
Hand Levels	51
Measuring Rulers and Tapes	52-53
Stream Gauges and Mounting Equipment	54-55

5



Agriculture

Section Six

Optical Instruments	56-58
Construction Lasers and Detectors	59-64
Laser Distance Meters	65
Gopher Pole Wire Installation Tool	65

6



GIS

Section Seven

ANSI/ISEA Class 3 Safety Utility Vests	66-67
ANSI/ISEA Class 2 Safety Utility Vests	68-72
Standard Vests	72

7

Section Eight

Bags and Cases	73-79
Field Supplies	80
Stake Flags, Flagging Tape and Whiskers	81
Other Accessories	82

8

Standard and Heavy-Duty GNSS/MC Tripods

Large telescoping legs



FEATURES & BENEFITS

- ▶ 5119-00 version offers dual graduations, collapsible center staff with a twist-locking mechanism and includes removable 5/8 x 11 adapter, and an on-board compass
- ▶ Both GNSS tripods features 360° rotation and an 8-minute vial
- ▶ All aluminum hardware is anodized black for long life
- ▶ 5119-10 features large telescoping legs (1.25 to 1.5 inch diameters) feature adjustable handle bolts on the leg pivots and a large 6-inch diameter round head which easily holds lasers or robots
- ▶ Both tripods feature extendable electrostatically powder painted legs and include replaceable points

APPLICATIONS

- ▶ GNSS antenna platform
- ▶ Robotics



PART NO.	LOCKING	HEIGHT	COLLAPSES	COLOR	WEIGHS
5119-10-FLY	Twist-Lock	1.5, 1.8, 2 m	55 inches (1.4 m)	Flo Yellow	20.00 lb (9.07 kg)
5119-10-YEL	Twist-Lock	1.5, 1.8, 2 m	55 inches (1.4 m)	Yellow	20.00 lb (9.07 kg)
5119-00-FLY	Quick Release/Twist-Lock	1.5, 1.8, 2 m	50 inches (1.27 m)	Flo Yellow	15.00 lb (6.80 kg)
5119-00-YEL	Quick Release/Twist-Lock	1.5, 1.8, 2 m	50 inches (1.27 m)	Yellow	15.00 lb (6.80 kg)

Tripod Radio Antenna Kit

Simple solution for both single tripod base station and individual tripod setup



FEATURES & BENEFITS

- ▶ SECO's Tripod Radio Antenna Kit attaches easily to instrument tripods
- ▶ Tripod leg clamp will attach to any tripod leg and ram ball and socket section of clamp quickly sets the antenna pole up vertically
- ▶ A large washer is included to allow a straight connection to a tripod for a separate setup
- ▶ Kit consists of three antenna sections that set up the radio antenna pole height to 3.1 ft (0.95 m) above the tripod
- ▶ Kit bag included measures 16 x 6 x 2-inches (40.6 x 15.2 x 5.8-cm)
- ▶ Weighs 1.90 lb (0.86 kg)

APPLICATIONS

- ▶ Ideal for mounting radio antennas on tripods for a wider variety of RTK GNSS applications



2133-06 — Tripod Radio Antenna Kit

Adjustable-Tilt Stainless Steel Adapters

Professional Stainless Steel CORS monument adapters



FEATURES & BENEFITS

- ▶ Adapters in the 2072-Series have 3.20-inch (8.19-cm) diameters and overall heights of 3.036-inches (7.71-cm)
- ▶ Includes a removable brass 5/8 x 11 male stud that is adjustable in azimuth and held in location by two set screws
- ▶ The adapters are leveled by three screws with a tilt range +/- 7°
- ▶ The height above the pivot point to the stud shoulder is 1.37-inches (3.50-cm)
- ▶ Height below the brass 5/8 stud to the shoulder is 0.463-inches (1.18-cm)
- ▶ The axis height is engraved on the outside of the monuments

APPLICATIONS

- ▶ Professional solution that fits between your GNSS antenna and the mast of your network monument



PART NO.	FOR USE WITH	WEIGHS
2072-30	1.5-inch pipe with MPT 1-1/2 x 11-1/2 TPI	5.50 lb (2.50 kg)
2072-31	2-inch pipe with MPT 2 x 11-1/2 TPI	6.60 lb (3.00 kg)
2072-32	3-inch pipe with MPT 3-1/2 x 8 TPI	6.90 lb (3.10 kg)
2072-33	Male 5/8 x 11 TPI	6.20 lb (2.80 kg)
2072-050	40-minute leveling vial for checking adapters	0.30 lb (0.14 kg)

Antenna Mounts for GNSS Networks

Simple to set-up antenna mounts



FEATURES & BENEFITS

- ▶ The 2072-10 attaches to standard 2 inch threaded pipe used as 'mast' and made of anodized aluminum
- ▶ The 2072-20 installs by, drilling three 5/8-inch holes and fill with epoxy includes stainless steel 3/8 x 2-1/2-inch bolts and made of anodized aluminum
- ▶ Both 2072-10 and 2072-10 brass rotating adapter is removable and locks in the azimuth direction
- ▶ The 2072-50 permanently connects a GNSS antenna mount to a concrete structure
- ▶ The pipe threads measure 1.5 x 11.5 inches NPT and the overall height of the unit is 7 inches, including 3.5 inch length of pipe

APPLICATIONS

- ▶ Use this adapter for private networks or permanent control stations

PART NO.	DESCRIPTION	WEIGHS
2072-10	2 inch Pipe Mount Monument Adapter	2.00 lb (0.91 kg)
2072-20	Masonry Monument Adapter	1.40 lb (0.61 kg)
2072-50	Stainless Steel Pipe Thread Masonry Adapter	1.80 lb (0.82 kg)

GNSS Antenna Platform

Stable platform, perfect for temporary placement



FEATURES & BENEFITS

- ▶ Platform creates a very stable setup using standard cinder blocks (not included) as weights - sand bags may also be used
- ▶ Ideal for network reference station installers who want to evaluate a site for multi-path before committing to the installation
- ▶ Does not need any permanent attachment to the building
- ▶ Removable 5/8 x 11 adapter
- ▶ Sections can be added for more height
- ▶ 36-inches (91.44-cm) long with standard pipe threads
- ▶ Folds up for portability and includes tools and a system carrying bag
- ▶ Sections hold 8 x 16-in (20.3 x 40.6-cm) cinder blocks
- ▶ Weighs (without blocks) 25 lb (11.34 kg)

APPLICATIONS

- ▶ Local networks
- ▶ Construction sites
- ▶ AG sites



2072-40 — GNSS Antenna Platform

10 Meter RTK Radio Antenna Pole

Achieve height safely and securely



FEATURES & BENEFITS

- ▶ Kit Contains:
 - 1 x 10-m telescopic pole
 - 1 x bottom point
 - 2 x guy rings
 - 4 x 30-ft ratcheting rope with quick snaps
 - 4 x 40-ft ratcheting rope with quick snaps
 - 4 x Velcro straps for cable management
 - 1 x rope bag
- ▶ Designed to hold a standard radio antenna at up to 10 meters, extending your RTK range
- ▶ Features non-conductive strong fiberglass telescoping tube sections for ease of use and safety
- ▶ Complete kit weighs 13 lb (5.90 kg)

APPLICATIONS

- ▶ RTK surveys



90036 — 10 Meter RTK Radio Antenna Pole

Two-Piece GNSS Rover Rods

Two-piece is easy to set up and convenient to store and transport



FEATURES & BENEFITS

- ▶ Lightweight two-piece rover rods are perfect for all GNSS applications
- ▶ Two-piece rover rods come in aluminum or carbon fiber and feature 5/8 x 11 tips (5125-01-YEL features a quick-release adapter) and 40-minute vials
- ▶ Optional outer pole graduations in 10ths/100ths or metric
- ▶ Aluminum model has the option for 10ths/100ths or metric grads
- ▶ 5125-06-YEL include a cable management slot measuring 0.625 x 1.6-in to hide cables
- ▶ Aluminum models are available in flo yellow or standard yellow

APPLICATIONS

- ▶ Kinematic surveys
- ▶ GNSS applications



PART NO.	POLE	TIP	CABLE SLOT	OUTER GRADS	LENGTH	WEIGHS
5125-00-YEL	Aluminum	5/8 x 11	No	Optional	2 meters	3.00 lb (1.36 kg)
5125-01-YEL	Aluminum	Quick Release	No	Optional	2 meters	3.00 lb (1.36 kg)
5125-06-YEL	Aluminum	5/8 x 11	Yes	Optional	2 meters	3.00 lb (1.36 kg)
5128-00	Carbon Fiber	5/8 x 11	No	No	2 meters	1.42 lb (0.64 kg)
5128-08	Carbon Fiber	5/8 x 11	Yes	Optional	2 meters	1.42 lb (0.64 kg)

Telescopic Carbon Fiber Rover Rods

Carbon fiber rover rods are 30% lighter



FEATURES & BENEFITS

- ▶ Designed so the GNSS surveyor has all the features needed in a single rod
- ▶ The included pin can lock the length of the rod at set points
- ▶ 0 H.T
- ▶ Carbon fiber makes these rods 30% lighter
- ▶ TLV™ with vial comes standard
- ▶ The 5129-50 and 5129-51 can be ordered with optional outer 10ths graduations

APPLICATIONS

- ▶ Kinematic surveys



PART NO.	GRADS	LENGTH	PIN LOCKING	WEIGHS
5129-50	Dual (10ths/2mm)	4.48 ft (1.4 m) - 8.14 ft (2.5 m)	1.8 m, 2 m, 2.2 m	2.30 lb (1.05 kg)
5129-51	Metric	4.48 ft (1.4 m) - 8.14 ft (2.5 m)	1.8 m, 2 m, 2.2 m	2.30 lb (1.05 kg)
5129-70	Dual (0.05 ft/cm)	4.69 ft (1.43 m) - 11.7 ft (3.57 m)	Every 20 cm	3.30 lb (1.50 kg)
5129-71	Metric	4.69 ft (1.43 m) - 11.7 ft (3.57 m)	Every 20 cm	3.30 lb (1.50 kg)

Snap-Lock Rover Rods

Easy set up



FEATURES & BENEFITS

- ▶ Many find these rover rods are faster to setup and more user-friendly than traditional rods
- ▶ Include a one-piece design and two locking systems for stability
- ▶ The snap lock prevents slippage and the compression lock centers the telescopic inner pole and maintains straightness
- ▶ Telescoping rods include locking lengths and also have optional outer graduations in metric of 10ths/100ths
- ▶ Your choice of either aluminum or carbon fiber rods come with a 40-minute vial
- ▶ 5125-20 model are also available in standard yellow

APPLICATIONS

- ▶ Kinematic surveys



PART NO.	POLE	OUTER GRADS	LOCKING LENGTHS	WEIGHS
5125-20-FLY	Aluminum	No	2 m	2.30 lb (1.05 kg)
5125-20-FLY-GT	Aluminum	10ths/100ths	2 m	2.30 lb (1.05 kg)
5125-22-FLY	Aluminum	No	2, 1.8, 1.6 m	2.30 lb (1.05 kg)
5125-22-FLY-GT	Aluminum	10ths/100ths	2, 1.8, 1.6 m	2.30 lb (1.05 kg)
5128-20	Carbon Fiber	Optional	2 m	1.60 lb (0.73 kg)
5128-22	Carbon Fiber	No	2, 1.8, 1.6 m	1.60 lb (0.73 kg)
5128-24	Carbon Fiber	No	1.8, 1.6 m	1.60 lb (0.73 kg)



Ball-and-Socket Cradles

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ These Claw™ clamps are made of durable anodized aluminum
- ▶ The Claw technology allows maximum tightening without crushing
- ▶ Features a 1-inch ram ball
- ▶ The Ball-and-Socket versions allow a collector to be in more positions
- ▶ Customize your own solution with these components
- ▶ Weighs 0.20 (0.09 kg)

APPLICATIONS

- ▶ RTK or GNSS surveys requiring a pole and a data collector

PART NO.	DESCRIPTION
<i>Ball-and-Socket Cradle (1 inch ram ball)</i>	
5200-00-050	TSC 2", Ranger™ 300X, 500X
5200-02-050	Allegro, Jett®*ce, Explorer I & II, Tracker, FC-2200
5200-03-050	Recon®
5200-07-050	Archer, Leica DX10, Carlson Mini, Javad Victor
5200-10-050	GeoCE™, XH™, XT™, XM™, 3000 Series
5200-12-050	Carlson Surveyor, Surveyor +
5200-14-050	GEO 6000
5200-15-050	Leica Viva CS10/CS15
5200-16-050	TSC3, Ranger™ 3 Series
5200-17-050	Mesa/Tesla
5200-18-050	Mobile Mapper 10
5200-19-050	JUNO Series 3
5200-20-050	Geo 5T/IMM100, PM120
5200-21-050	FC236, X7, PS236, FC336, PS336
5200-22-050	JUNO 5 Series/SP T41
<i>Ball-and-Socket Cradle (1 inch ram ball, designed for 1.25 inch OD poles)</i>	
5200-160	Plain
5200-164	With Compass
5200-165	With 40-min Vial and Compass



Ball-and-Socket and Claw Accessories

- ▶ Perfect for creating a custom solution
- ▶ Fits any standard instrument tripod
- ▶ Use with a 5200-201 Ball-and-Socket Link and a Ball-and-Socket Cradle (designed for your data collector) for a complete system



5199-051 — Tripod Mount

- ▶ The Delrin Adapter can be used when you want to increase the outside diameter (OD) of a pole from 1-inch to 1.25-inches
- ▶ Can be used with Quick-Release Claw Cradles and Clamps or the Ball-and-Socket Claw Combo



D11145 — Delrin 1-inch Pole Claw Clamp Adapter

- ▶ Mounts and connectors to complete your custom Ball-and-Socket Claw solution
- ▶ Includes base and suction cup with 1-inch ball



5199-054 — Suction Cup (temporary mount)

- ▶ Use the Ball-and-Socket Link for your custom solution
- ▶ Fits the 1-inch ram ball on cradles and clamps



5200-201 — Ball-and-Socket Link

- ▶ The RAM 2-7/16 x 1-5/16-in diamond-shaped universal plate has a 1-inch diameter rubber ball connected at right angles to a 1-1/4 x 2-1/2-inch diamond plate
- ▶ Plate has two holes 1.912-in from center to center, positioned at either tip of the diamond plate



RAM-B-238 — Ram Ball

- ▶ Mount your data collector or controller to this ball clamp and the handle bars of your ATV



5199-050 — ATV Ball Clamp

- ▶ Pole Clamp with 1 inch Ram Ball
- ▶ Fits poles with an outside diameter of 0.75-inches to 1.5-inches



5199-052 — Ram Ball Clamp Mount

Quick-Release Claw Components

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ The Claw™ is a clamping system featuring an innovative clamping device that keeps your expensive data collecting hardware snug on the pole where it belongs without crushing it
- ▶ The Claw cradles and clamps are made of durable anodized aluminum for years of trouble-free use in the field
- ▶ Quick-Release cradles plug directly in to Quick-Release Pole Clamps

APPLICATIONS

- ▶ RTK or GNSS surveys requiring a pole and a data collector



PART NO.	DESCRIPTION
Quick-Release Cradle	
5200-050	TSC2™, Ranger™ 300X, 500X
5200-052	Allegro, Jett@*ce, Explorer I & II, Tracker, FC-2200
5200-053	Recon®
5200-054	FC-100, Mobile Mapper CE/CX, ProMark™ 3
5200-056	GMS-2, GMS-2 PRO
5200-057	Archer®, Leica DX10, Carlson Mini, Javad Victor
5200-058	FC-200, FC-250
5200-059	Nomad™ 800/900 Series
5200-060	GeoCE™, XH™, XT™, XM™, 3000 Series
5200-062	Carlson Surveyor, Surveyor+
5200-064	Geo 6000 Series
5200-065	TSC3™/Ranger 3™ Series
5200-066	MobileMapper 10
5200-067	JUNO 3 Series
5200-068	GEO 5T, MM100, PM120
5200-069	FC236, X7, PS236, FC336, PS336
5200-070	JUNO 5 Series/SP T41
5200-071	TSC3™ Lite
5200-072	Mesa Tesla NEW!
Quick-Release Pole Clamp (for 1.25-inch OD poles)	
5200-150	Plain
5200-151	With 40-minute Vial
5200-152	With 20-minute Vial
5200-154	With Compass
5200-155	With 40-minute Vial and Compass (shown)



Interior Vehicle Bracket Systems

Easily mount your data collector or controller in the cab of your truck



FEATURES & BENEFITS

- ▶ This bracket series is designed to hold your collector or controller inside the cab of your survey vehicle
- ▶ Use it in conjunction with 5114-20 from the comfort of the cab
- ▶ The suction cup mount will grip any clean glass or slick surface
- ▶ A two-hole base mount is also included for use as an option to the suction cup mount for a more permanent solution
- ▶ Models listed use the new Claw cradle system which prevents damage that may be caused by over-tightening

APPLICATIONS

- ▶ Mobile RTK or GNSS surveys



PART NO.	DESIGNED FOR
5199-67	Archer, Leica DX10, Carlson Mini, Javad Victor
5199-70	Nomad 800 Series
5199-71	GeoCE, XT, XM, XH, Geo 2008
5199-76	TSC3, Ranger 3™ Series



**Ball-and-Socket
Claw Combos**

Virtually unlimited positions on the pole keeps the glare off the collector



FEATURES & BENEFITS

- ▶ The Claw™ is a new and improved anodized aluminum clamping system featuring an innovative clamping device that keeps your expensive data collecting hardware snug on the pole where it belongs without crushing it
- ▶ Claw cradles and clamps are made of durable anodized aluminum for years of trouble-free use in the field
- ▶ Features ram ball links which allow many positions

APPLICATIONS

- ▶ RTK or GNSS surveys requiring a pole and a data collector

PART NO.	DESCRIPTION
5200-00	TSC2™, Ranger™ 300X, 500X
5200-02	Allegro, Jett@ce, FC-2200, Explorer I & II, Tracker
5200-03	Recon®
5200-07	Archer, Carlson Mini, Victor
5200-08	FC-200, QR
5200-10	GeoCE™, XH™, XT™, XM™, 3000 Series
5200-13	FC-2500
5200-14	GEO 6000
5200-15	C10 / C15 Series
5200-16	TSC3™, Ranger 3™ Series
5200-17	Mesa/Tesla
5200-18	Mobile Mapper 10
5200-19	JUNO 3 Series
5200-20	Geo 5TMM100, PM120
5200-21	FC236, X7, PS236, FC336, PS336
5200-22	JUNO 5, T41



**Open Clamp Pole
Brackets and Cradles**

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ The original Open Clamp Pole Bracket and Cradle technology designed by SECO
- ▶ Use a Claw Quick-Release cradle or a standard cradle and one of the popular open clamps for a complete solution
- ▶ The aluminum open clamp design features a quick-release button and a stainless steel clamp screw that attaches to the pole
- ▶ Depressing the quick-release button will allow the Claw Quick-Release cradle or standard cradle to rotate in to a comfortable position for reading the data collector or controller
- ▶ Designed for standard poles or rods with a 0.75 to 1.25-inch OD
- ▶ These pole brackets and cradles are manufactured from black anodized aluminum

APPLICATIONS

- ▶ RTK or GNSS surveys requiring a pole and a data collector

PART NO.	DESCRIPTION
Open-Clamp Brackets	
5198-052	Bracket: Plain
5198-054	Bracket: With 40-minute Vial
5198-055	Bracket: Compass
5198-056	Bracket: Compass and 40-minute Vial
5198-059	Bracket: With 0.15 x 0.92-inch Slot
5198-152	Bracket: For 1.5-inch OD Pole
5198-164	TSC3 Lite NEW!
Open-Clamp Cradles	
5198-073	Cradle: Designed for Nautiz N7, DAP 9800, SDR33, Titan
5198-081	Cradle: Designed for PDA
5198-086	Cradle: Designed for Leica RX and Viva CS10/CS15



GNSS Accessories and Adapters

- ▶ Radio antenna tripod with antenna mast gets your radio antenna to the desired height
- ▶ Telescoped to 7.5-ft (2.3-m) and the tripod can be set to 5.5-ft (1.7-m) for a total elevation of 13-ft (4-m)
- ▶ Aluminum with a male 5/8 x 11 tip
- ▶ Tripod is SECO's 5302-11-ORG
- ▶ The antenna mast (see right) can be purchased separately to convert your own heavy-duty tripod as well
- ▶ Weighs 19.00 lb (8.62 kg)

5300-11 — Hardwood/Fiberglass (shown)
5300-12 — Aluminum



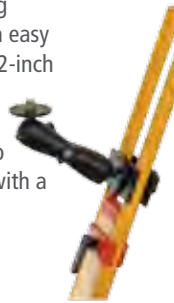
- ▶ Pole bracket kit holds the Trimble® GNSS Pathfinder® ProXRT receiver securely to any standard rover rod
- ▶ Includes two pole clamps, one clip and two screws and the ProXRT is pre-drilled for the extra clip
- ▶ Pole clamps are made of machined anodized aluminum with stainless steel clamp screws
- ▶ Fit rover rods with 3/4-inch (1.90 cm) to 1-1/4-in (3.17-cm) diameters
- ▶ Weighs 0.40 lb (0.18 kg)

5198-100 — Pole Bracket Kit for Trimble GNSS Pathfinder ProXRT Receiver



- ▶ Bracket holds a radio antenna securely to a tripod leg
- ▶ The heavy-duty bracket makes plumbing the antenna easy
- ▶ Fits all full-size and heavy-duty tripods and uses a 1/2-inch long, 5/8 x 11 male stud to secure the antenna or extension (tripod sold separately)
- ▶ Can be used with the SECO Six Foot Snap-Lock Radio Antenna Pole (5139-02, see right) or any extension with a male/female 5/8 x 11 connection
- ▶ Weighs 1.55 lb (0.70 kg)

2133-05 — Radio Antenna Bracket for Tripod



- ▶ Snap locks into a fixed length of 6-feet (1.8-m) and collapses to 41.5-inches (1-meter)
- ▶ Used to elevate a radio antenna to 6 feet plus the height of the tripod setup
- ▶ Comes with a 3.5-inch (8.89 cm) OD plate adapter (5182-002) to attach to any 5/8 x 11 tripod heads
- ▶ Available in standard yellow or fluorescent yellow
- ▶ Weighs 1.40 lb (0.62 kg)

5139-02-FLY — 6 Foot Snap-Lock Radio Antenna Pole



- ▶ This removable, free-standing tape measures GNSS antenna height or is used as a pocket tape
- ▶ Dual graduations ft/10ths/100ths and cm/mm

7752-00 — HI 2 meter GNSS Pocket Rod



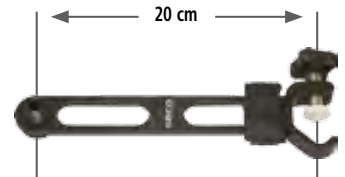
- ▶ Adapter has male 5/8 x 11 threads
- ▶ Weighs 0.08 lb (0.04 kg)



5113-012 — GNSS Quick-Release Tip

- ▶ The open clamp attachment allows quick and easy connection to the pole; it connects to 1-to-1.25-inch (25.4 to 31.8-mm) OD poles
- ▶ Brass male 5/8 x 11 captive stud is easily removed for direct attachment of the radio antenna to the bar
- ▶ Includes a non-slip Velcro® cable strap to help manage radio cables
- ▶ Weighs 0.22 lb (0.10 kg)

2133-03 — Antenna Bracket



- ▶ GNSS Compass for 1.25 inch diameter poles

5125-050 — GNSS Compass



- ▶ Fits most heavy-duty-type tripods (like the 5203-10-ORG) after the bolt assembly has been removed
- ▶ The mast telescopes to 7.5-ft (2.3-m) - plus your tripod height for maximum height
- ▶ Weighs 2.50 lb (1.13 kg)

5561-20 — Radio Antenna Mast Assembly



- ▶ The 5114-01 includes a quick release adapter (5111-00) to allow quicker attachment of the GNSS antenna
- ▶ Weighs 3.40 lb (1.54 kg)

5114-01 — Triple Mag Mount (shown)
5114-02 — Triple Mag Mount (w/ 5/8 x 11 Tip)



- ▶ The Satellite Stick™ XL is composed of six, 1-in (2.54-m) OD carbon fiber sections
- ▶ Collapses to 1.23-ft (37.5-cm)
- ▶ Weighs 2.40 lb (1.09 kg)

5126-10 — Satellite Stick XL



- ▶ Both magnets have a 3.5-inch (8.89-cm) diameters
- ▶ Weighs 0.92 lb (0.42 kg)

5114-050 — 5/8 x 11 Tip
5114-051 — Quick-Release Tip



- ▶ The height pin, with its 1-mm accuracy and dual grads (100ths/mm) is ideal for measuring antenna heights
- ▶ Measures 6.6-feet (2-m) long and only 16.5-inches (43-cm) when collapsed
- ▶ Weighs 0.30 lb (0.14 kg)

7751-50 — 2-Meter Height Pin



- ▶ All-Terrain Rover Rod "Big Wheel"
- ▶ 19 x 1-5/8-inch
- ▶ Rod not included with Wheel
- ▶ Perfect for RTK profiling
- ▶ Weighs 3.80 lb (1.72 kg)

5125-056 — All Terrain Wheel

Add Rover top section:
5125-057-FLY — Aluminum Rod
5128-052 — Carbon Fiber Rod



- ▶ Adapter adds 76.22-mm to the pole length
- ▶ Use with 5187-00 GNSS Quick-Release Adapter
- ▶ Optional Stainless Steel version
- ▶ Weighs 0.14 lb (0.06 kg)

5111-00 — GNSS Quick-Disconnect Adapter
5111-00-SS — GNSS Quick-Disconnect Adapter (Stainless Steel)



- ▶ Anodized aluminum adapter features a female 5/8 x 11 with quick release tip
- ▶ Adds 23.8-mm to length of rod
- ▶ Optional Stainless Steel version
- ▶ Weighs 0.05 lb (0.02 kg)

5187-00 — GNSS Quick-Release Adapter
5187-00-SS — GNSS Quick-Release Adapter (Stainless Steel)



Plan Holder

Conveniently organize and store job site materials in your vehicle



FEATURES & BENEFITS

- ▶ Plan holder hangs on the back or front of any vehicle seat
- ▶ Slots which hold four 6-inch (15.24 cm) diameter plans
- ▶ Front pocket accommodates a note pad, phone, or other small items
- ▶ Organizer strap holds pens, pencils, markers, and other necessary tools
- ▶ Available in blue or black
- ▶ Weighs 0.95 lb (0.43 kg)

APPLICATIONS

- ▶ Vehicle storage and transportation of blueprints and plans

8046-10-BLU — Plan Holder

Crain Cargo Net by Bednet

Quick and easy to install



FEATURES & BENEFITS

- ▶ Allow your crew to quickly and safely secure most loads
- ▶ Designed to encourage all drivers to use it - even drivers who avoid using other restraint systems
- ▶ The coated hooks and super-tough nylon buckles will not scratch the vehicle
- ▶ 4 x 4 ft (121.92 x 121.92 cm) straps are integrated into the product design so they cannot be lost or detached from the unit
- ▶ Made from the toughest polyester seat belt webbing

APPLICATIONS

- ▶ Land surveying
- ▶ Construction layouts

PART NO.	DIMENSIONS	WEIGHS
8500-00	56 x 64.5 inch (1.42 x 1.64 m)	6.00 lb (2.72 kg)
8500-01	64.5 x 65 inch (1.64 x 1.65 m)	7.00 lb (3.18 kg)
8500-02	63 x 85 inch (1.6 x 2.16 m)	8.00 lb (3.63 kg)

ATV Pole Bracket System

Holds a rover rod and can also hold an antenna bar



FEATURES & BENEFITS

- ▶ The ATV Pole Bracket System is designed to hold a rover rod and a radio antenna pole (sold separately)
- ▶ The universal bracket system fits most ATVs, it attaches with u-bolts to the luggage rack
- ▶ The bracket holds all poles from 1-to-1.25-inch outside diameter
- ▶ Installation to the ATV takes about one hour using basic tools
- ▶ Quick clamp handles make loading and unloading the rover pole fast and secure
- ▶ This system comes with a transport and storage bag
- ▶ The 5198-51 ATV Pole Bracket System is the same as above but does not include the radio antenna bar
- ▶ Weighs 24.00 lb (10.89 kg)

APPLICATIONS

- ▶ RTK or GNSS surveys requiring a pole and a data collector
- ▶ Designed to attach to ATVs for mobile applications

PART NO.	DESCRIPTION
5198-50	ATV Bracket System with Radio Antenna Bar
5198-51	ATV Pole Bracket System without Radio Antenna Bar (shown)



GNSS Bracket for Truck Door

Expands vertically from 47 to 61 inches



FEATURES & BENEFITS

- ▶ This bracket holds a GNSS pole to the door of your survey truck
- ▶ Easy to put on and take off and features a non-damaging mount
- ▶ Fits most midsize to full-size trucks, and SUVs
- ▶ The door opens and closes with the bracket attached to the door
- ▶ Utilizes a safety strap under tension to keep it on the door
- ▶ The bracket holds all GNSS- and RTK-type poles
- ▶ Brackets are available to hold controller inside the cab (#5199)
- ▶ The GNSS Truck Door Bracket is not designed to be used at highway speeds
- ▶ Available in flo orange, flo yellow and yellow
- ▶ See other accessories also available (sold separately)
- ▶ Weighs 6.20 lb (2.80 kg)

APPLICATIONS

- ▶ Use with RTK or GNSS rods for a mobile solution



5114-20-051
3-inch
Extension Kit



5114-20-050
Topo Shoe
Adapter

5114-20-FLY — GNSS Bracket for Truck in Flo Yellow (shown)
5114-20-FOR — GNSS Bracket for Truck in Flo Orange
5114-20-YEL — GNSS Bracket for Truck in Yellow



UTV Roll Cage Transporter for GNSS Rods

Easy set-up or disassembly in 10 minutes or less



FEATURES & BENEFITS

















- ▶ The RUXWORKS GNSS Rod Transporter™ fits all popular UTVs
- ▶ Model 5114-40-01 fits UTVs with tubular roll cages up to 2-inches (5.08-cm) like the Kubota® RTV 900, Yamaha Rhino, Kawasaki Mule™ and the Polaris® Ranger™
- ▶ Model 5114-40-02 fits UTVs with rectangular roll cages up to 2 x 4-inch (5.8 x 10-cm) like the Artic Cat® Prowler Series
- ▶ This GNSS Rod Transporter™ mounts easily to either side and installs in 10 minutes or less
- ▶ The UTV bracket has up to 30° of tilt to set your rover rod plumb
- ▶ It has a rod clamp that fits all popular rover rods and poles with points and or topo shoes up to a 2-1/2-inch (6.35-cm) diameter and has a secure, non-marring quick release design
- ▶ The UTV bracket can stay permanently attached to the UTV
- ▶ The pole clamp section is 63-in (160-cm) long and disassembles quickly from the UTV bracket with two quick release pins or two bolts
- ▶ Weighs 15.00 lb (6.80 kg)



APPLICATIONS


- ▶ Use with RTK or GNSS rods for a mobile solution

5114-40-01 — PT-150 UTV Roll Cage Transporter for GNSS Rods
Fits Kubota RTV 900, Yamaha Rhino, Kawasaki Mule and the Polaris Ranger
5114-40-02 — PT-150 UTV Roll Cage Transporter for GNSS Rods
Fits Arctic Cat Prowler Series



Vials			
<p>Vial for TLV™ Locks</p>  <p>5500-064-40 - Vial Assembly (Complete with 40-min vial)</p> <ul style="list-style-type: none">  40-Minute Vial D11232 Includes screws  20-Minute Vial D11233 Includes screws  8-Minute Vial D11234 Includes screws 	<p>Vial for QLV™ Locks</p>  <p>5801-052-40 - Vial Assembly (Complete with 40-min vial)</p> <ul style="list-style-type: none">  40-Minute Vial D11243 Includes screws  20-Minute Vial D11242 Includes screws  8-Minute Vial D11241 Includes screws 	<p>Vial for 1.25-inch OD Pole Levels</p>  <p>5081-052-40 - Vial Assembly (Complete with 40-min vial)</p> <ul style="list-style-type: none">  40-Minute Vial D11232 Includes screws  20-Minute Vial D11233 Includes screws  8-Minute Vial D11234 Includes screws 	<p>Vial for 1.50-inch OD Pole Levels</p>  <p>5070-051-40 - Vial Assembly (Complete with 40-min vial)</p> <ul style="list-style-type: none">  40-Minute Vial D11232 Includes screws  20-Minute Vial D11233 Includes screws  8-Minute Vial D11234 Includes screws

Heads-Up Level Add a level with vial to your rod or pole  





FEATURES & BENEFITS


- ▶ No longer need to look down while traffic is flying by — simply look through the window
- ▶ Features a soft rubber knob on an adjustable clamp that fit most survey poles and most vials
- ▶ The Heads-Up™ level is more comfortable to read; the bubble is direct reading
- ▶ Weighs 0.40 lb (0.18 kg)

APPLICATIONS

- ▶ Workplace Safety

5001-20 — Heads-Up Level - 40-minute vial
5001-25 — Heads-Up Level - 10-minute vial

Heads-Up Level Add a level with vial to your rod or pole  





FEATURES & BENEFITS


- ▶ Here's an invaluable piece of equipment to add to your antenna tripod
- ▶ Fits 1.50-inch OD pole
- ▶ The 10 minute Heads-Up level is more comfortable to read; the bubble is direct reading
- ▶ Weighs 0.35 lb (0.16 kg)

APPLICATIONS

- ▶ Workplace Safety

5001-24 — GNSS Tripod Heads-Up Level

Rod Levels Add a level with 40-minute vial to your rod or pole  



FEATURES & BENEFITS

- ▶ The standard rod level features a die-cast aluminum body and an adjustable vial
- ▶ Fits round or rectangular rods
- ▶ The Heads-Up Rod Level offers the same kind of advantages as the two Heads-Up Levels (above)
- ▶ Suitable for use with track light, robotic instruments, or conventional leveling
- ▶ The snap-on level fits all poles with a 1-to-1.25-inch diameter - will fit rectangular rods too
- ▶ All feature 40-minute sensitivity
- ▶ Weighs 0.50 lb (0.22 kg)

APPLICATIONS

- ▶ Workplace Safety

5001-10 — Standard Rod Level
5001-12 — Snap-On Pole Level
5001-21 — Heads-Up Rod Level

360° Robotic Prism Assembly

Copper-coated 35 mm prisms



FEATURES & BENEFITS

- ▶ Includes six 35 mm prisms
- ▶ Copper-coated for moisture prevention
- ▶ 0 offset
- ▶ Protective urethane bumper in yellow
- ▶ Weighs 1.80 lb (0.80 kg)

APPLICATIONS

- ▶ Robotics



PART NO.	PRISM HEIGHT	DESIGNED FOR
6401-00-YEL	77 mm	Topcon®
6401-02-YEL	86 mm	Leica
6401-03-YEL	135 mm	Spectra Precision®

Carbon Fiber Robotics Poles

Features carbon fiber and TLV locking



FEATURES & BENEFITS

- ▶ Graduated to read direct for a 135 mm prism height
- ▶ Carbon fiber pole offers a stainless steel pin which locks the inner pole
- ▶ Adapters will achieve other prism heights
- ▶ TLV™ lock which has a 40-minute vial built-in
- ▶ Inner poles have metric (cm) or dual (cm/10ths) graduations

APPLICATIONS

- ▶ Robotics



PART NO.	GRADS	SECTIONS	PIN LOCKING	OUTER GRADS	LENGTH	WEIGHS
5129-52	Dual	1	Every 0.5 ft	None	4.97 ft - 8.53 ft	2.30 lb (1.04 kg)
5129-52-GT	Dual	1	Every 0.5 ft	10ths	4.97 ft - 8.53 ft	2.30 lb (1.04 kg)
5129-53	Metric	1	Every 20 cm	None	4.97 ft - 8.53 ft	2.30 lb (1.04 kg)
5129-53-GM	Metric	1	Every 20 cm	Metric	4.97 ft - 8.53 ft	2.30 lb (1.04 kg)
5129-72	Dual	2	Every 0.5 ft	None	5.18 ft - 11.81 ft	3.30 lb (1.50 kg)
5129-73	Metric	2	Every 20 cm	None	5.18 ft - 11.81 ft	3.30 lb (1.50 kg)

Accessories for Robotics Gear

- ▶ 5/8 X 11 aluminum prism height adapters allow the base pole to be used with other manufacturer's 360° prisms



- 2090-01 — For Topcon Users w/ 77 mm Prism
- 2090-02 — For Leica Users w/86 mm Prism
- 2090-04 — Users w/115 mm Prism
- 2090-06 — Convert Robotics to GNSS Pole (not shown)

- ▶ This lightweight bipod is used to keep a GNSS or robotic pole off the ground when not in use
- ▶ Weighs 0.90 lb (0.41 kg)



5217-15-ABK — 12 inch Open Clamp Bipod

- ▶ The Rodrest is a self-retracting 'kickstand' for survey rods
- ▶ Activated by simply pushing down a few inches on the handle
- ▶ Weighs 1.55 lb (0.70 kg)



- 5214-01 — Gardener Rod Rest 1.25-inch OD (shown)
- 5214-02 — Gardener Rod Rest 1-inch OD

Mini Poles

Compact, easy to set up, and convenient to store and transport



FEATURES & BENEFITS

- ▶ Mini poles are easy to use
- ▶ Light weight and convenient to transport and store
- ▶ #5500-23 features SECO TLV™ locking system
- ▶ Adjustable or fixed-tip poles
- ▶ 40-minute bubble vials

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism
- ▶ Great for small or hard-to-reach areas



PART NO.	HEIGHT	VIAL	TYPE	WEIGHS
5500-23	5.10 ft - 2.70 ft	40-minute	Aluminum	2.30 lb (1.04 kg)
5010-00-RED	1.28 ft (0.39 m)	40-minute	Aluminum	1.50 lb (0.68 kg)
5010-01	4.7 inches (120 mm)	40-minute	Aluminum	0.40 lb (0.02 kg)

Geodimeter Style Prism Poles

Create your measuring system by adding the Sliding Prism with Tilting Reflector



FEATURES & BENEFITS

- ▶ Small in diameter (20 mm), this light weight prism pole is designed to work with the Geodimeter® style sliding prism
- ▶ Can be mounted on the site rod or the graduated outer section
- ▶ Telescoping section is graduated in feet and centimeters
- ▶ Graduations in feet, 10ths and 100ths are on the outer section for direct reading of prism height
- ▶ Collapses to 4.80 ft (1.46 m) and expands to 8.60 ft (2.62 m)
- ▶ The site rod comes with the QLV™ locking mechanism with a 40-min circular, adjustable vial
- ▶ Also comes with two 1.25 inch OD adapters (5120-030) for bipods and data collector attachment
- ▶ Pole is constructed of durable fluorescent orange aluminum and has a hardened steel removable point
- ▶ See Sliding Prism with Tilting Reflector below to complete your system

APPLICATIONS

- ▶ Excellent for all survey applications
- ▶ Can be used as a short hand held rod with two height marks, 0.50 ft (15.24 cm) and 1.00 ft (30.48 cm)



PART NO.	HEIGHT	GRADS	VIAL	DESCRIPTION	WEIGHS
5120-00-FOR-GT		10ths		Pole Only	2.05 lb (0.92 kg)
5120-01-FOR-GM	8.60 ft (2.62 m)	Metric	40-min	Pole Only	2.05 lb (0.92 kg)
5120-02-FOR-GT		10ths		Pole w/Site Rod	2.75 lb (1.24 kg)
5120-03-FOR-GM	8.60 ft (2.62 m)	Metric	40-min	Pole w/Site Rod	2.75 lb (1.24 kg)
5120-024-FOR		Metric		Site Rod w/Point	0.70 lb (0.31 kg)
5120-025-FOR		10ths		Site Rod w/Point	0.70 lb (0.31 kg)

Sliding Prism with Tilting Reflector

Choose your Geodimeter Style Pole or Site Rod to complete your measuring system



FEATURES & BENEFITS

- ▶ The 6455-00 attaches to the bottom of the graduated section of the pole so heights can be taken close to the ground
- ▶ Includes a, large, 2.5 inch (63.5 mm) silver-coated prism with protective rubber ring
- ▶ 0 offset and 40-min leveling vial
- ▶ Large easy-to-use clamping knob
- ▶ Tilts in 15° increments, spring locked
- ▶ See page 15 for details on Geodimeter Style products
- ▶ Targets made of fluorescent-yellow translucent polycarbonate
- ▶ Weighs 0.81 lb (0.37 kg)

APPLICATIONS

- ▶ Topographic and construction surveys



6455-00 — Sliding Prism with Tilting Reflector

Swiss-Style TLV Prism Poles

Vials are on the locks, out of the way of instruments on the pole



FEATURES & BENEFITS

- ▶ The TLV™ prism pole features dual graduations (or metric only) for GPH1-type prisms, a Swiss-style tip (for 86 mm prism heights) and TLV locking
- ▶ Extends to 8.53 ft (2.60 m)
- ▶ Collapses to 4.97 ft (1.51 m)
- ▶ OD is 1.25 inches (31.75 mm)
- ▶ Weighs 3.30 lb (1.50 kg)

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	FEATURES	EXTENDS	COLLAPSES	GRADS	WEIGHS
5501-11	Swiss-Style Tip	8.53 ft (2.60 m)	4.97 ft (1.51 m)	Dual	3.30 lb (1.50 kg)
5521-11	Swiss-Style Tip	8.53 ft (2.60 m)	4.97 ft (1.51 m)	Metric	3.30 lb (1.50 kg)

Telescopic Carbon Fiber Prism Pole

Carbon fiber poles are approximately 30% lighter than similar aluminum poles



FEATURES & BENEFITS

- ▶ Adjustable tip that will adjust to a prism height of 65 mm to 115 mm
- ▶ TLV locking and dual graduations and OD is 1.27 in (32 mm)
- ▶ Extends 8.53 ft (2.60 m) and collapses to 4.97 ft (1.51 m)
- ▶ Weighs 2.30 lb (1.05 kg)

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

5129-54 — Adjustable Tip Carbon Fiber Pole

Swiss-Style Twist-Lock Prism Poles

Stable and versatile at heights



FEATURES & BENEFITS

- ▶ This three-section pole graduated for GPH1-type prisms
- ▶ Features a Swiss-style tip (for 86 mm prism heights) and twist locking
- ▶ Includes 40-minute level vial
- ▶ 1.5 inch (38.1 mm) O.D
- ▶ Optional dual or metric graduations

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	EXTENDS	COLLAPSES	TIP	GRADS	WEIGHS
5503-30	15.25 ft (4.65 m)	5.41 ft (1.65 m)	Swiss-Style Tip	Dual	7.60 lb (3.45 kg)
5523-30	15.25 ft (4.65 m)	5.41 ft (1.65 m)	Swiss-Style Tip	Metric	7.60 lb (3.45 kg)

Swiss-Style QLV Prism Poles

Features European-style quick release stud



FEATURES & BENEFITS

- ▶ QLV™ locking mechanisms
- ▶ Swiss-style quick release stud
- ▶ Reads direct for any 86 mm height prisms
- ▶ The small-diameter, 25 mm bottom section fits Leica slide-on controller brackets
- ▶ Lower lock features an adjustable 40-minute adjustable vial

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	LENGTH	TIP	LOCK TYPE	TYPE	GRADS	WEIGHS
5802-10	8 ft/2.5 m	Swiss-Style	QLV Lock	Aluminum	Dual	2.50 lb (1.13 kg)
5802-11	2.45 m	Swiss-Style	QLV Lock	Aluminum	Metric	2.50 lb (1.13 kg)
5802-20	12 ft/3.6 m	Swiss-Style	QLV Lock	Aluminum	Dual	3.55 lb (1.61 kg)

Quick Change Prism Poles

Vials are on the locks, out of the way of instruments on the pole



FEATURES & BENEFITS

- ▶ Designed to be compatible with all targets, prisms, and GNSS antennas
- ▶ Using adapters, any of the poles in this series can be used for GNSS, robotics or total station surveys
- ▶ Quick conversion to another application by changing adapters (sold separately, see below)
- ▶ Includes adapter 2090-12
- ▶ TLV™ (Twist-Lock with Vial) locking mechanism includes a 40-min vial
- ▶ Available with or without locking pin & holes (the locking pin system guarantees no slipping of the sections)
- ▶ Carbon fiber and aluminum models offered

APPLICATIONS

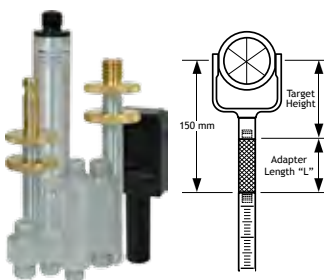
- ▶ Traditional survey applications requiring a mounted prism
- ▶ GNSS Applications

PART NO.	GRADS	GRADUATED LENGTH	OUTER POLE	LOCKING PIN	ADAPTER INCLUDED
5507-10	Dual	4.36 to 7.22 ft	Aluminum		2090-12
5507-11	Dual	1.64 to 2.30 ft	Aluminum		2090-12
5507-13	Dual	4.36 to 7.22 ft	Carbon Fiber	Yes	2090-12
5507-15	Dual	4.97 to 8.53 ft	Aluminum		2090-12
5507-17	Dual	4.97 to 8.53 ft	Carbon Fiber	Yes	2090-12
5507-20	Dual	5.18 to 11.81 ft	Aluminum		2090-12
5507-22	Dual	5.18 to 11.81 ft	Carbon Fiber	Yes	2090-12
5507-30	Dual	5.41 to 15.25 ft	Aluminum		2090-12
5527-10	Metric	1.33 to 2.20 m	Aluminum		2090-12
5527-11	Metric	0.50 to 0.70 m	Aluminum		2090-12
5527-13	Metric	1.33 to 2.20 m	Carbon Fiber	Yes	2090-12
5527-15	Metric	1.51 to 2.60 m	Aluminum		2090-12
5527-16	Metric	1.51 to 2.60 m	Carbon Fiber		2090-12
5527-17	Metric	1.58 to 3.60 m	Carbon Fiber	Yes	2090-12
5527-20	Metric	1.58 to 3.60 m	Aluminum		2090-12
5527-22	Metric	1.58 to 3.60 m	Carbon Fiber	Yes	2090-12
5527-30	Metric	1.65 to 4.65 m	Aluminum		2090-12



Quick Change Pole Adapters

Use with SECO Quick Change Prism Poles to achieve desired height



FEATURES & BENEFITS

- ▶ Using adapters, any of the poles in the Quick Change series can be used for GNSS, robotics or total station surveys
- ▶ Quick conversions to another application by changing adapters
- ▶ Simple adapter determinations: 150 mm minus your target height = length of adapter needed

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism, GNSS antenna or other instrument

PART NO.	TARGET	TARGET HEIGHT	LENGTH "L"
2090-10	Leica GPH1	86 mm	64 mm
2090-11	Zeiss 360 Prism	100 mm	50 mm
2090-12	SECO 6400 Series	115 mm	35 mm
2090-13	Trimble RMT	135 mm	15 mm
2090-14	Adjustable 5/8 x 11	50 mm to 135 mm	N/A
2090-15	GNSS Antenna	0 mm	150 mm
2090-17	Leica Adjustable	86 mm to 125 mm	N/A
2090-19	SECO Mini Prisms	70 mm	80 mm
2090-21	Topcon 360 Prism	77 mm	73 mm
5079-066	Laser Detector Adapter	150 mm	150 mm



2 mm Metric Telescopic Prism Poles

Fine metric graduation survey poles



FEATURES & BENEFITS

- ▶ 2 millimeter metric graduations (cm/2 mm)
- ▶ Three models available; 135 mm HT, 0 mm HT, and adjustable tip
- ▶ TLV™ is the most dependable locking mechanism on the market place
- ▶ Soft touch knob is easy to tighten and loosen
- ▶ High-visibility vial features 40-minute sensitivity
- ▶ Easy access screws are located underneath for quick calibration
- ▶ Extends to 8.53 ft (2.60 m) and collapses to 4.98 ft (1.52 m)

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	TIP	GRADS	WEIGHS
5527-18-13	Fixed, 135 mm HT	cm/2 mm	4.14 lb (1.88 kg)
5527-18-14	Adjustable	cm/2 mm	4.36 lb (1.98 kg)
5527-18-15	Fixed, 0 mm HT	cm/2 mm	4.36 lb (1.98 kg)

Quick-Release Telescopic Prism Poles

Vials are on the locks, out of the way of the instruments on the pole



FEATURES & BENEFITS

- ▶ This locking mechanism features adjustable tension via set screw in the handle and another set screw to assist in keeping the spring in position
- ▶ Quick-Release handle lock allows for a simple and fast setup
- ▶ Lock includes 40-minute level vial
- ▶ Powder-coated and silk screened aluminum

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	GRADS	SECTIONS	TIP	EXTENDED	COLLAPSED	WEIGHS
5700-10	Dual	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.52 m)	3.30 lb (1.50 kg)
5712-10	Dual	1	Fixed	8.53 ft (2.60 m)	4.97 ft (1.52 m)	3.30 lb (1.50 kg)
5720-10	Metric	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.52 m)	3.30 lb (1.50 kg)
5722-10	Metric	1	Fixed	8.53 ft (2.60 m)	4.97 ft (1.52 m)	3.30 lb (1.50 kg)
5700-20	Dual	2	Adjustable	11.81 ft (3.60 m)	5.18 ft (1.58 m)	5.10 lb (2.30 kg)
5712-20	Dual	2	Fixed	11.81 ft (3.60 m)	5.18 ft (1.58 m)	5.10 lb (2.30 kg)

TLV and Twist-Locking Telescopic Prism Poles

The popular TLV locking system provides simple but secure locking



FEATURES & BENEFITS

- ▶ The aluminum twisting lock with vial (TLV) pole is wear-resistant for long life
- ▶ One- and two-section poles feature TLV locks
- ▶ 3-section poles feature a twisting lock and a vial on the pole
- ▶ The soft rubber knob is easy to tighten or loosen, even when wearing gloves
- ▶ TLVs feature a convenient 40-minute vial built into the lock
- ▶ Powder-coated and silk screened aluminum

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	EXTENDED	COLLAPSED	GRADS	WEIGHS
5500-11	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.52 m)	Dual	3.30 lb (1.50 kg)
5512-11	1	Fixed	8.53 ft (2.60 m)	4.97 ft (1.52 m)	Dual	3.30 lb (1.50 kg)
5520-11	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.52 m)	Metric	3.30 lb (1.50 kg)
5500-21	2	Adjustable	11.81 ft (3.60 m)	5.18 ft (1.58 m)	Dual	5.10 lb (2.32 kg)
5520-21	2	Adjustable	11.81 ft (3.60 m)	5.18 ft (1.58 m)	Metric	5.10 lb (2.32 kg)
5500-30	3	Adjustable	15.25 ft (4.65 m)	5.41 ft (1.65 m)	Dual	7.60 lb (3.45 kg)
5520-30	3	Adjustable	15.25 ft (4.65 m)	5.41 ft (1.65 m)	Metric	7.60 lb (3.45 kg)

Compression Lock Telescopic Prism Poles

Constructed of brass and aluminum



FEATURES & BENEFITS

- ▶ Compression locking mechanism
- ▶ Constructed of sturdy aluminum tubing and a two-stage adjustable top-threaded tip
- ▶ Finished with electrostatic powder paint coating on the outer pole and permanent silk-screened grads on the inner pole

APPLICATIONS

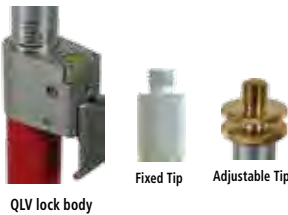
- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	EXTENDS	COLLAPSES	GRADS	WEIGHS
5600-10	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Dual	3.30 lb (1.50 kg)
5620-10	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Metric	3.30 lb (1.50 kg)
5600-20	2	Adjustable	11.81 ft (3.60 m)	5.18 ft (1.58 m)	Dual	5.10 lb (2.30 kg)
5620-20	2	Adjustable	11.81 ft (3.60 m)	5.18 ft (1.58 m)	Metric	5.10 lb (2.30 kg)
5600-30	3	Adjustable	15.25 ft (4.65 m)	5.18 ft (1.65 m)	Dual	7.60 lb (3.45 kg)
5620-30	3	Adjustable	15.25 ft (4.65 m)	5.18 ft (1.65 m)	Metric	7.60 lb (3.45 kg)

QLV Locking Prism Poles

Simple to adjust bubble and lever tension



FEATURES & BENEFITS

- ▶ The Quick Lever with Vial (QLV™) allows fast, simple setups
- ▶ Includes a lock with 40-minute level vial, adjustable tip and your choice of dual (10ths/cm) or metric graduations (cm)
- ▶ Easy locking
- ▶ Simple to adjust bubble and lever tension
- ▶ Powder-coated and silk screened aluminum one- or two-section poles

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	EXTENDS	COLLAPSES	GRADS	WEIGHS
5801-10	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Dual	2.95 lb (1.50 kg)
5813-10	1	Fixed	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Dual	2.95 lb (1.50 kg)
5821-10	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Metric	2.95 lb (1.50 kg)
5801-20	2	Adjustable	12 ft (3.65 m)	5.30 ft (1.65 m)	Dual	4.05 lb (1.83 kg)
5813-20	2	Fixed	12 ft (3.65 m)	5.30 ft (1.65 m)	Dual	4.05 lb (1.83 kg)
5821-20	2	Adjustable	12 ft (3.65 m)	5.30 ft (1.65 m)	Metric	4.05 lb (1.83 kg)

Ultralite Prism Poles

Non-conductive fiberglass



FEATURES & BENEFITS

- ▶ The lightest pole offered by SECO
- ▶ The inner and outer poles are constructed of lightweight non-conductive fiberglass
- ▶ Reduced weight SECO TLV™ lock
- ▶ Included in this package is Crain's patented Topo Boot®
- ▶ Features include a 40-minute adjustable vial, a soft touch knob, and adjustable 5/8 x 11 tip

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	LENGTH	VIAL	GRADS	WEIGHS
5540-10	1	Adjustable	8.58 ft (2.62 m)	40-minute	Dual	1.95 lb (0.88 kg)
5541-10	1	Adjustable	8.58 ft (2.62 m)	40-minute	Metric	1.95 lb (0.88 kg)
5540-20	2	Adjustable	11.81 ft (3.60 m)	40-minute	Dual	2.50 lb (1.13 kg)
5541-20	2	Adjustable	11.81 ft (3.60 m)	40-minute	Metric	2.50 lb (1.13 kg)
5540-30	3	Adjustable	15.27 ft (4.65 m)	40-minute	Dual	3.15 lb (1.43 kg)
5541-30	3	Adjustable	15.27 ft (4.65 m)	40-minute	Metric	3.15 lb (1.43 kg)

Contractor Series TLV Prism Poles

Import TLV prism poles



FEATURES & BENEFITS

- ▶ These 'no-frills' imported poles are designed to give service in the field at a lower purchase price
- ▶ TLVs and twist-locks include 40-minute level vials
- ▶ Aluminum outer and inner pole
- ▶ Hardened steel points
- ▶ Your choice of metric (cm) or dual (cm/10ths) graduations
- ▶ Traditional red and white color with Crain logo

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	GRADS	WEIGHS
5530-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	Dual	2.67 lb (1.21 kg)
5531-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	Metric	2.67 lb (1.21 kg)
5530-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	Dual	3.65 lb (1.66 kg)
5531-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	Metric	3.65 lb (1.66 kg)
5530-30	3	Adjustable	15.25 ft (4.65 m)	Aluminum	Dual	5.38 lb (2.44 kg)
5531-30	3	Adjustable	15.25 ft (4.65 m)	Aluminum	Metric	5.38 lb (2.44 kg)

Contractor Series Compression Lock Poles

Traditional Compression lock import prism poles



FEATURES & BENEFITS

- ▶ These 'no-frills' imported poles are designed to give service in the field at a lower purchase price
- ▶ Aluminum outer and inner pole
- ▶ 40-minute level vials
- ▶ Adjustable tip
- ▶ Hardened steel points
- ▶ Your choice of metric (cm) or dual (cm/10ths) graduations
- ▶ Traditional red and white color with Crain logo

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism



PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	GRADS	WEIGHS
5630-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	Dual	2.65 lb (1.20 kg)
5631-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	Metric	2.65 lb (1.20 kg)
5630-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	Dual	3.45 lb (1.56 kg)
5631-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	Metric	3.45 lb (1.56 kg)
5630-30	3	Adjustable	15.25 ft (4.65 m)	Aluminum	Dual	5.00 lb (2.27 kg)
5631-30	3	Adjustable	15.25 ft (4.65 m)	Aluminum	Metric	5.00 lb (2.27 kg)

Offset Tools

- ▶ Used with total stations and prism poles to help get accurate elevation measurements in hard-to-reach places
- ▶ Has an adjustable centerline, 1.60 to 1.00 ft (48.76 to 30.48 cm) in 0.20 ft (6.09 cm) increments
- ▶ Constructed of anodized 1/2 inch thick aluminum
- ▶ Includes brass male 5/8 x 11 threaded post and a stainless steel 5/8 x 11 Heli-Coil®
- ▶ Weighs 1.15 lb (0.52 kg)



Maintains Exact Pole Elevation Readings!

5198-163 — Adjustable Offset Bar

- ▶ Perform odd setups and stay away from dangerous situations with the Offset Pole Holder Kit
- ▶ Combine the kit with any 5/8 x 11 threaded pole and a Heads-Up™ Level for a safe and sturdy setup
- ▶ A padded case, hex wrench, and an adapter plate for instrument tripods is included



5198-157 — Offset Pole Holder Kit



Prism Adapters, Tips and Topo Shoes

- ▶ Adapts Swiss-style snap-on prisms to 5/8 x 11 tribrach adapter or prism pole
- ▶ Weighs 0.06 lb (0.03 kg)



2080-00 — Wild Prism Adapter

- ▶ 5/8 x 11 adapter
- ▶ Weighs 0.06 lb (0.03 kg)



5180-00 — Double Male Adapter

- ▶ Adapts Swiss-style prism poles to 5/8 x 11
- ▶ Weighs 0.06 lb (0.03 kg)



2090-00 — Wild Prism Pole Adapter

- ▶ 3.37 inch steel body
- ▶ Weighs 0.30 lb (0.14 kg)



5190-00 — Prism Pole Point

- ▶ 3.37 inch aluminum body
- ▶ Weighs 0.34 lb (0.15 kg)



5191-00 — Prism Pole Topo Shoe

- ▶ Exclusive on Crain's poles, the Topo-Boot screws over the precision point and increases the area of the point for the use on soft surfaces in topo shots
- ▶ The Topo-Boot is removable and stores conveniently under the large, easy-to-read vial
- ▶ Weighs 0.05 lb (0.02 kg)



91601 — Crain Topo-Boot

- ▶ 3.37 inch length, 64 mm OD with steel body
- ▶ Weighs 1.26 lb (0.57 kg)



5192-00 — Wide Base Topo Shoe

- ▶ Allows easy conversions from 'control' to 'topo' surveys



5192-02 — Topo Shoe and Point Combo

- ▶ 5/8 x 11 Female to 1/4 x 20 Female Adapter



2131-01 — Prism Pole Adapter

- ▶ 3.37 inch steel body, removable point
- ▶ Weighs 0.30 lb (0.14 kg)



5194-00 — Prism Pole Point with Replaceable Plumb Bob Point

- ▶ 3.37 inch anodized aluminum body, dull steel point
- ▶ Weighs 0.16 lb (0.07 kg)



5194-03 — Lightweight Prism Pole Point with Replaceable Tip

- ▶ Features an 'L-Bracket' to rest the prism pole point on and the adjustable top piece
- ▶ Convenient for adjusting and calibrating pole vials in the office
- ▶ Use the adjustable top to center your pole before adjusting the bubble
- ▶ Weighs 1.00 lb (0.45 kg)



5195-01 — Pole Peg Adjusting Jig

- ▶ Hardened steel replacement point for most SECO tripods and prism pole points



5194-003 — Tripod or Prism Pole Sharp Point for Foot

- ▶ The point features an aluminum body and an easy-to-replace steel point
- ▶ Male 5/8 x 11 Thread
- ▶ Weighs 0.16 lb (0.07 kg)



5194-04 — Point Assembly

- ▶ Crain's Stedi-Rest® fits any 1.25 to 1.5 inch pole and can take the place of three separate products
- ▶ Weighs 0.15 lb (0.07 kg)



91641 — Stedi-Rest

- ▶ This point features an anodized aluminum body and an easy-to-replace steel point
- ▶ Weighs 0.16 lb (0.07 kg)



5194-05 — Prism Pole Point

- ▶ 3.37 inch titanium point
- ▶ Weighs 0.16 lb (0.07 kg)



5194-06 — Titanium Prism Pole Point

- ▶ The Center Punch Point fits all poles or products with male 5/8 x 11 threads
- ▶ The hardened steel point will mark all metal and non-metal surfaces
- ▶ Weighs 0.20 lb (0.09 kg)



5194-10 — Center Punch Point

- ▶ Converts any 5/8 x 11 prism pole to a laser rod for use with a laser at heights of 5-ft to 15-ft
- ▶ Weighs 0.60 lb (0.27 kg)



91640 — Laser Detector Mount

- ▶ This prism allows for easy determination of right angle points or perpendicular points between two targets



4900-00 — Double Right-Angle Prism

- ▶ 3.37 inch aluminum with steel tip
- ▶ Weighs 0.01 lb (0.004 kg)



91605 — Aluminum Prism Pole Point and Steel Tip

- ▶ Use this adapter if you have a 1 inch OD pole and want to use a Claw™ pole clamp



D11145 — 1 inch OD Pole Adapter

- ▶ One 4-foot (1.22 m) section
- ▶ 1.13 in (29 mm) OD
- ▶ Includes bag (no point included)
- ▶ Weighs 1.50 lb (0.68 kg)



5150-02-WOR — Contractor Series 4-ft Range Pole

- ▶ Two 4-foot (1.22 m) sections creating 8-ft (2.44 m) range pole
- ▶ 1.13 in (29 mm) OD
- ▶ Includes point and bag
- ▶ Weighs 3.40 lb (1.54 kg)



5140-02-WOR — Contractor Series 8-ft Range Pole

- ▶ Three 4-foot (1.22 m) sections creating 12-ft (3.66 m) range pole
- ▶ 1.13 in (29 mm) OD
- ▶ Includes point and bag
- ▶ Weighs 5.00 lb (2.27 kg)



5150-02-WOR — Contractor Series 12-ft Range Pole

Pole Extensions

Aluminum, carbon fiber or fiberglass extensions



FEATURES & BENEFITS

- ▶ The pole extensions have 5/8 x 11 female threads on the bottom and 5/8 x 11 male threads on the top to allow more added sections
- ▶ Choose powder-painted aluminum, carbon fiber or fiberglass

APPLICATIONS

- ▶ Extend prism or antenna poles

PART NO.	OUTSIDE DIAMETER	LENGTH	POLE TYPE	WEIGHS
5182-001	1 in (25 mm)	3 in (7.62 cm)	Aluminum	0.40 lb (0.18 kg)
5132-00-ACL	1 in (25 mm)	6 in (15.2 cm)	Aluminum	0.50 lb (0.23 kg)
5130-01-FLY	1 in (25 mm)	1 ft (30.5 cm)	Aluminum	1.00 lb (0.45 kg)
5902-00-FLY	1 in (25 mm)	50 cm	Aluminum	0.70 lb (0.32 kg)
5131-01-FLY	1 in (25 mm)	2 ft (61 cm)	Aluminum	1.10 lb (0.50 kg)
5901-00-FLY	1 in (25 mm)	1 meter	Aluminum	1.10 lb (0.50 kg)
5110-01-FLY	1 in (25 mm)	4 ft (1.22 m)	Aluminum	1.30 lb (0.59 kg)
5145-00-FLY	1.25 in (32 mm)	25 cm	Aluminum	0.90 lb (0.41 kg)
5130-00-FLY	1.25 in (32 mm)	1 ft (30.5 cm)	Aluminum	1.00 lb (0.45 kg)
5144-00-FLY	1.25 in (32 mm)	50 cm	Aluminum	1.00 lb (0.45 kg)
5131-00-YEL	1.25 in (32 mm)	2 ft (61 cm)	Aluminum	1.10 lb (0.50 kg)
5143-00-FLY	1.25 in (32 mm)	1 meter	Aluminum	1.30 lb (0.59 kg)
5110-00-FLY	1.25 in (32 mm)	4 ft (1.22 m)	Aluminum	1.30 lb (0.59 kg)
5145-04	1 in (25 mm)	20 cm	Carbon Fiber	0.30 lb (0.14 kg)
5145-03	1 in (25 mm)	25 cm	Carbon Fiber	0.35 lb (0.16 kg)
5143-03	1 in (25 mm)	1 meter	Carbon Fiber	0.70 lb (0.32 kg)
5130-10	1.25 in (32 mm)	0.20 meter	Fiberglass	0.34 lb (0.15 kg)
5145-02	1.25 in (32 mm)	25 cm	Carbon Fiber	0.35 lb (0.16 kg)
5144-02	1.25 in (32 mm)	50 cm	Carbon Fiber	0.50 lb (0.23 kg)
5143-02	1.25 in (32 mm)	1 meter	Carbon Fiber	0.70 lb (0.32 kg)

200 mm Extension with Height Lever

Establish antenna height measurements easily and accurately



FEATURES & BENEFITS

- ▶ For GNSS Antennas
- ▶ Easy and accurate way to measure your antenna height
- ▶ 200 mm length gets your antenna above the tribrach (good for receivers with downward radio antenna)
- ▶ Male and female 5/8 x 11 threads for mounting
- ▶ Fiberglass tube is strong and lightweight
- ▶ Height lever pulls down and stops at the 90° or horizontal position
- ▶ Adjustable height lever can be checked on any flat surface
- ▶ Compatible with all GNSS antennas/receivers with a female 5/8 x 11 thread
- ▶ Tribrach and adapter not included
- ▶ Weighs 0.45 lb (0.20 kg)

APPLICATIONS

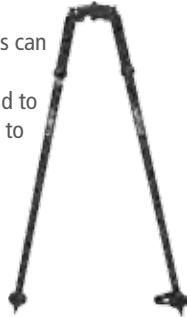
- ▶ Control Surveys
- ▶ Boundary Surveys



7751-51 — 200 mm Extension with Height Lever

Bipods & Tripods

- ▶ Carbon Fiber Thumb Release Bipod uses the same design concepts as the SECO aluminum Thumb Release Bipod, but weighs less
- ▶ 1 to 1.25 inch diameter poles attach easily through the open clamp
- ▶ 1.5 inch (3.81 cm) OD poles can be loaded through the top
- ▶ Legs (independently) extend to 6 feet (1.8 m) and collapse to 43 inches (109 cm)
- ▶ Weighs 4.10 lb (1.86 kg)

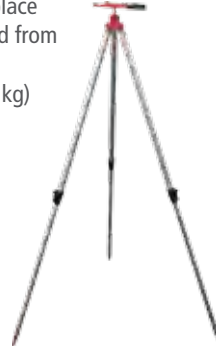


5219-03 — Carbon Fiber Thumb Release Bipod

- ▶ The tripod features a ball-and-socket head, which makes leveling a bubble easy
- ▶ The rubberized jaws hold a pole (up to 2 inch OD) firmly in place
- ▶ Telescopic legs extend from 2.62 ft to 4.17 ft
- ▶ Weighs 2.65 lb (1.20 kg)



Alligator clamp with rubberized jaws!



5214-00 — Alligator Clamp Prism Pole Tripod

- ▶ The Carbon Fiber Thumb Release Tripod features a large 5-lobe soft touch rubber clamping knob, and legs of super strong, lightweight carbon fiber
- ▶ Legs extend to 6 ft (1.8 m) for use in uneven terrain and collapses to 43 in (109 cm)
- ▶ Weighs 4.10 lb (1.86 kg)



5219-05 — Carbon Fiber Thumb Release Tripod

- ▶ This open-clamp head bipod features a Quick Lever™ locking mechanism that makes attaching or detaching the pole lightning fast — the lever cam action is mechanically simple and holds tight
- ▶ Locking mechanism is made of non-marring Delrin® with an EPDM 80-durometer rubber plug for positive grip
- ▶ Works with 1.25 inch (32 mm) OD poles
- ▶ Available in flo yellow, flo orange, red and yellow
- ▶ Pole shown, sold separately
- ▶ Weighs 4.20 lb (1.90 kg)



5217-50-FOR — Quick Lever Bipod with Thumb Release Legs

- ▶ This tripod is ideal for use with poles under 24 inches long 1 to 1.5 inch diameter poles thread easily through the open clamp on top
- ▶ Include stainless steel clamp screw and rubber tips
- ▶ Rod not included
- ▶ Legs are fixed at 12 inches each
- ▶ Weighs 1.30 lb (0.60 kg)



5218-15-ABK — Mini Tripod with 12 inch Legs

- ▶ The bipod leg clip easily attaches to the base of any 1.25 inch OD prism or antenna pole
- ▶ The bipod legs snap into the clip making the system convenient for transport or storage
- ▶ Weighs 0.04 lb (0.02 kg)



5217-30 — Bipod Leg Clip

- ▶ The Mini Bipod utilizes the same design concepts as the popular 5217-04 bipod, just shorter (see below)
- ▶ 1 to 1.25 inch diameter poles attach easily through the open clamp. 3.81 cm OD poles can be loaded through the top
- ▶ Collapses to 25 inches (63.5 cm) and extends to 35 inches (88.9 cm)
- ▶ Leg clip is included (5217-30)
- ▶ Available colors: yellow, flo yellow, and flo orange
- ▶ Weighs 3.50 lb (1.60 kg)



5217-05-YEL — Thumb Release Mini Bipod

- ▶ Thumb-Release™ Tripods creates free-standing GNSS antenna poles or prism poles
- ▶ Feature large, smooth, thumb release buttons
- ▶ The thumb lock design allows adjustment of tension without disassembly of the leg
- ▶ The universal head will accommodate poles from 1 to 1.25 inch diameter
- ▶ Constructed of powder-coated aluminum
- ▶ Legs extend (independently) to 6 ft (1.8 m) for use in rugged terrain
- ▶ Available colors: flo yellow, flo orange, red and yellow
- ▶ Weighs 6.00 lb (2.60 kg)



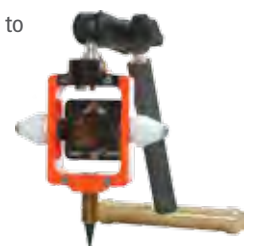
5218-02-FLY — Original Thumb-Release Tripod (shown)
5218-40-YEL — Crain Thumb-Release Tripod (Includes Crain logo)

- ▶ A surveyor can set up a free-standing GNSS antenna pole or prism pole
- ▶ 1 to 1.25 inch OD poles attach easily through the open clamp
- ▶ 1.5 inch (3.81 cm) OD poles can be loaded through the top
- ▶ The legs (independently) extend to 6 feet (1.8 m) and collapse to 43 inches (109 cm)
- ▶ Available colors: flo yellow, flo orange, red and yellow
- ▶ Weighs 4.25 lb (1.93 kg)



5217-04-YEL — Original Thumb-Release Bipod
5217-40-FLY — Crain Thumb-Release Bipod (Includes Crain logo)

- ▶ The Mini Prism Mono Pod Kit forms a stable base with your 6000-Series Mini Prism (sold separately)
- ▶ The kit is easy to set up and can be used by just one person
- ▶ Ideal for: construction surveys, inspections, asbuilts, and many other applications
- ▶ Add a standard 5/8 x 11 extension to the kit to achieve heights to four feet
- ▶ Weighs 2.25 lb (1.02 kg)



5216-00 — Mini Prism Mono Pod Kit

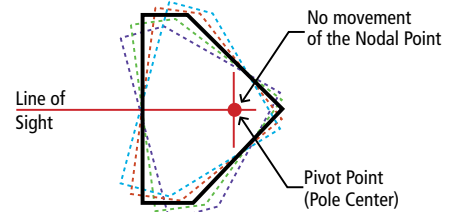
PRISM basics

Prism Offsets

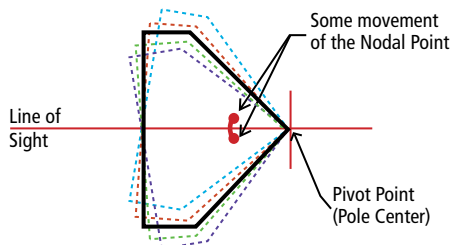
- ▶ Corner cube prisms (or retroreflectors) used with electronic distance measuring (EDM) instruments have an offset due to the fact that the transmitted light beam from the EDM takes longer to enter and exit the prism. This longer time translates to a longer distance measured. This distance is corrected by using an 'offset' and/or positioning the prism in relationship to the plumb line of the prism holder. The offset is determined by multiplying the height of the prism by the refractive index of the glass used. Common offsets are 0, -17.5 mm, -30 mm, -34 mm, and -40 mm.

Nodal Offsets

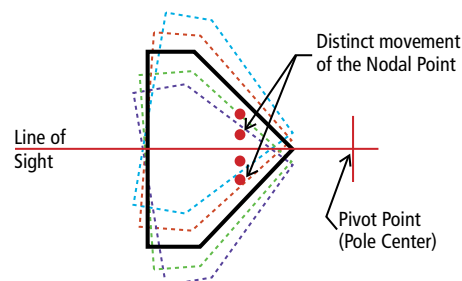
- ▶ A nodal offset is defined by the relationship of the prism holder and prism that places the optical center of the prism on the plumb line of the holder. This offset is the most advantageous at close range work when the apex or center of the prism is used as a pointing target for vertical and horizontal angle measurement. Every prism has a nodal point. Prisms and holders that are not in the nodal position however, can cause angular errors when using the prism apex as a target if it is not perfectly pointed toward the measuring instrument.
- ▶ To reduce pointing errors, several SECO prism assemblies are designed with a nodal point alignment at -17.5 (for 25 mm prisms) or -40 mm offset (for 62 mm prisms). See illustration at right.
- ▶ Commonly, the best reading of the beam is achieved when the prism face is perpendicular to the incoming beam for a parallel return. Unfortunately, ideal alignment is not always achieved in the field.
- ▶ To compensate for pointing errors, nodal point alignment minimizes the error associated with misalignments (two illustrations below).



at -17.5 or -40 mm Offset



Non-Aligned at -30 mm Offset



Non-Aligned at 0 mm Offset

Prism Range

- ▶ Corner cube prisms redirect the measuring beam back to the EDM for signal processing. There are two main factors for good range measurement: prism diameter and beam deviation. If the beam deviation is not accurate enough, the returned beam will miss the EDM entirely. This occurs mainly near the maximum range of the EDM (check with your manufacturer). SECO standard prisms are <5 seconds. Higher accuracy prisms are also available.

Prism Holder Accuracy

- ▶ Prism accuracy is determined by the physical location of the prism in its canister and then to its holder. SECO prism accuracy is 1 mm or less.
- ▶ SECO uses a **ZYGO GPI-XP/D interferometer** to test and confirm the beam deviation of prisms to ensure that they meet specifications. Certificates of compliance are available upon request. Come see us for more details.



Rear Locking 62 mm Premier Prism Assembly

Rear locking mechanism makes sighting and tilt adjustment simple



FEATURES & BENEFITS

- ▶ Incorporates a simple stainless steel locking mechanism that's easy to set while adjusting the prism and target tilt
- ▶ Prism can be mounted in either 0 or -30 mm offset positions
- ▶ The tilting axis height is 115 mm
- ▶ Two target sizes and five color combinations are available
- ▶ The heavy-duty 62 mm silver-coated prism is sealed in a strong canister with an 'O' ring to prevent water and dust from getting inside

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE	WEIGHS
6402-20-FLB	Flo Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)
6402-20-FOB	Flo Orange with Black	6 x 9 in	1.75 lb (0.79 kg)
6402-20-YLB	Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)
6422-20-FLB	Flo Yellow with Black	5.5 x 7 in	1.59 lb (0.72 kg)
6422-20-FOB	Flo Orange with Black	5.5 x 7 in	1.59 lb (0.72 kg)
6422-20-YLB	Yellow with Black	5.5 x 7 in	1.59 lb (0.72 kg)



Front Locking 62 mm Premier Prism Assembly

Lightweight but durable metal holder



FEATURES & BENEFITS

- ▶ Features a 62 mm copper-coated canister prism
- ▶ Tilting axis height is 115 mm
- ▶ Mounted in either 0 or -30 mm offset positions
- ▶ M20 universal mounting thread
- ▶ Tilting holder is anodized aluminum and features an improved locking clamp screw design and a light but durable metal holder

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE	WEIGHS
6402-02-FLB	Flo Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)
6402-02-FOB	Flo Orange with Black	6 x 9 in	1.75 lb (0.79 kg)
6402-02-YLB	Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)
6422-02-FLB	Flo Yellow with Black	5.5 x 7 in	1.59 lb (0.72 kg)
6422-02-FOB	Flo Orange with Black	5.5 x 7 in	1.59 lb (0.72 kg)
6422-02-YLB	Yellow with Black	5.5 x 7 in	1.59 lb (0.72 kg)



62 mm Strobe Prism Premier Assembly

62 mm strobe prism assembly



FEATURES & BENEFITS

- ▶ Combines the Premier target and holder with a strobe prism
- ▶ Perfect for low light conditions
- ▶ Features a strobing LED light which flashes every 0.5-second (6416-00)
- ▶ Weighs 1.35 lb (0.62 kg)

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
6402-03-FLB	Flo Yellow with Black	6 x 9 in
6402-03-FOB	Flo Orange with Black	6 x 9 in
6402-03-YLB	Yellow with Black	6 x 9 in



-35 mm Premier Prism Assembly

Works with Trimble and Zeiss Total Stations



FEATURES & BENEFITS

- ▶ Features a -35 mm offset and a prism accuracy of <5 seconds
- ▶ 62 mm silver-coated prism is encased in a heavy-duty canister with M20 threads
- ▶ Tilting holder is constructed of anodized aluminum
- ▶ Height of the prism in the holder is 100 mm
- ▶ Mounting base features standard female 5/8 x 11 threads
- ▶ Weighs 1.75 lb (0.80 kg)

APPLICATIONS

- ▶ Land surveying



PART NO.	TARGET COLOR	TARGET SIZE
6402-05-FLB	Flo Yellow with Black	6 x 9 in
6402-05-FOB	Flo Orange with Black	6 x 9 in
6402-05-YLB (shown)	Yellow with Black	6 x 9 in

-30 and 0 mm Premier Prism Assembly

Works with Nikon, Topcon & Sokkia Total Stations



FEATURES & BENEFITS

- ▶ Features a -30 and 0 mm offset and a prism accuracy of <5 seconds
- ▶ 62 mm copper-coated prism is encased in a heavy-duty canister with M20 threads
- ▶ Tilting holder is constructed of anodized aluminum
- ▶ Height of the prism in the holder is 100 mm
- ▶ Mounting base features standard female 5/8 x 11 threads
- ▶ Weighs 1.75 lb (0.80 kg)

APPLICATIONS

- ▶ Land surveying



PART NO.	TARGET COLOR	TARGET SIZE
6402-06-FLB	Flo Yellow with Black	6 x 9 in
6402-06-FOB	Flo Orange with Black	6 x 9 in
6402-06-YLB (shown)	Yellow with Black	6 x 9 in

Contractor Series 62 mm Prism Assembly

Standard or nodal offset prisms



FEATURES & BENEFITS

- ▶ Features a 62 mm copper-coated canister type prism
- ▶ Waterproof and has a M20 universal mounting thread
- ▶ Tilting holder is powder-painted die cast aluminum
- ▶ Uses a simple but proven locking system
- ▶ Mounted in either 0 or -30 mm offset positions
- ▶ Tilting axis height is 115 mm
- ▶ Weighs 1.35 lb (0.62 kg)

APPLICATIONS

- ▶ Land surveying



6402-10-FOB — Construction Series Prism Assembly in Flo Orange with Black (shown)
 6402-10-FLB — Construction Series Prism Assembly in Flo Yellow with Black
 6402-10-YLB — Construction Series Prism Assembly in Yellow with Black

Tilting Triple Prism Assembly

Complete system is perfect for longer distances



FEATURES & BENEFITS

- ▶ Made from orange polycarbonate with metal inserts and an aluminum yoke
- ▶ Holds one to three prisms, is compatible with most screw-in prisms, and has a 0 and -30 mm prism offset
- ▶ Has a peep sight for pointing the holder, perfect for longer distances
- ▶ H.T. is 97 mm
- ▶ Includes three sealed copper 62 mm prisms in black canisters (6411-02-BLK)
- ▶ Weighs 2.70 lb (1.23 kg)

APPLICATIONS

- ▶ Land surveying



6341-00 — Tilting Triple Prism Assembly
 6341-11 — Tilting Triple Prism Target

Sliding Prism with Tilting Reflector

Use with SECO's 5120-Series Geodimeter Style Prism Pole or Site Rod



FEATURES & BENEFITS

- ▶ The 6455-00 attaches to the bottom of the graduated section of the pole so heights can be taken close to the ground
- ▶ Includes a, large, 2.5 inch (63.5 mm) silver-coated prism with protective rubber ring
- ▶ 0 offset and 40-min leveling vial
- ▶ Large easy-to-use clamping knob
- ▶ Tilts in 15° increments, spring locked
- ▶ See page 15 for details on Geodimeter Style products
- ▶ Targets made of fluorescent-yellow translucent polycarbonate
- ▶ Weighs 0.81 lb (0.37 kg)

APPLICATIONS

- ▶ Topographic and construction surveys



6455-00 — Sliding Prism with Tilting Reflector

Eclipse 62 mm Nodal Point Prism Assembly

Can be offset to -40 mm



FEATURES & BENEFITS

- ▶ The Eclipse™ prism assembly features a water-resistant, nitrogen-charged, 62 mm prism canister and reversible target
- ▶ -30 mm adapter is included
- ▶ Height to center of glass: 0.38 ft (115 mm)
- ▶ Can be set at a -40 mm, which offers optimal angle measurements, even when tilting in either the horizontal or the vertical axis
- ▶ Weighs 1.15 lb (0.52 kg)

APPLICATIONS

- ▶ Land surveying



6400-00 — Eclipse 62 mm Nodal Point Prism Assembly

62 mm Nodal Point Prism Assembly

Can be offset to -40 mm



FEATURES & BENEFITS

- ▶ This import assembly features three prism offset positions, 0, -30 and -40 (nodal)
- ▶ The 62 mm prism is silver-coated and has a <5-second accuracy
- ▶ The reversible target comes in orange & white and black & white
- ▶ The height to center of glass: 0.33 ft (100 mm)
- ▶ Weighs 1.45 lb (0.66 kg)

APPLICATIONS

- ▶ Land surveying



6400-10 — Nodal Point 62 mm Prism Assembly

Prism Assembly Components

Customize your own prism solution

- ▶ 62 mm Nitrogen filled prism with hermetically sealed canister
- ▶ Features <5-second accuracy



6411-00

- ▶ 62 mm copper-coated prism with sealed canister
- ▶ Features <5-second accuracy



6411-02-BLK

- ▶ 62 mm silver-coated prism with heavy-duty sealed canister
- ▶ Features <5-second accuracy



6411-03-BLK

- ▶ 62 mm silver-coated prism with heavy-duty sealed-canister
- ▶ Features <2-second accuracy



6411-04-BLK

- ▶ 62 mm silver-coated strobe prism
- ▶ Features 0.5-second flash



6416-00

- ▶ 58 mm silver-coated flexible polycarbonate prism
- ▶ Features <5-second accuracy
- ▶ Available in yellow



2040-FOR

- ▶ 25 mm copper-coated prism in a canister
- ▶ Weighs 0.06 lb (0.03 kg)



6020-01

- ▶ 25 mm silver-coated prism in a canister
- ▶ Weighs 0.06 lb (0.03 kg)



6020-02

58 mm Prism Assembly

Incite style prism with polypropylene canister



FEATURES & BENEFITS

- ▶ The 58 mm prism has an accuracy of <math><5</math> arc seconds and is silver-coated
- ▶ Manufactured in the United States and have a limited lifetime warranty
- ▶ Twist knob tilting target lock
- ▶ Dual-sided targets have -30 mm and 0 mm offsets, the height of the tilting axis is 115 mm
- ▶ Rugged polypropylene prism canister with brass M20 thread is highly impact resistant
- ▶ High quality aluminum, stainless steel and brass target and yoke assembly
- ▶ Fits standard 5/8 x 11 prism poles
- ▶ Weighs 1.50 lb (0.68 kg)

APPLICATIONS

- ▶ Land surveying



PART NO.	TARGET COLOR	TARGET SIZE
2050-YLB	Yellow with Black	4.5 x 4.5 inch
2050-FOB	Flo Orange with Black	4.5 x 4.5 inch

Sliding Mini Prism Kit

-17.5 mm or -30 mm offset



FEATURES & BENEFITS

- ▶ The prism holders allow 'non-zero' prism offsets to 'slide' and are available in -17.5 mm or -30 mm offsets
- ▶ Equipped with a 25 mm silver-coated mini prism and height scales built into the holder frames
- ▶ Sliding range of 0.50-foot (15 cm)
- ▶ Mini prism assembly can be removed and used normally for other jobs
- ▶ Three 1-foot (30 cm) extensions and one 0.50-foot (15 cm) extension are included
- ▶ Features stainless steel points and 20-minute adjustable circular vials
- ▶ Precision machined from aluminum and stainless steel parts
- ▶ A 5/8 x 11 adapter for use with tribrachs or poles is included
- ▶ System Bag included
- ▶ Weighs 3.00 lb (1.40 kg)

APPLICATIONS

- ▶ Ideal for precision construction or industrial measurements



PART NO.	OFFSET	GRADS
5910-07F	-17.5 offset (Nodal)	Feet
5910-07M	-17.5 offset (Nodal)	Metric
5910-08F	-30 offset	Feet
5910-08M	-30 offset	Metric

Sliding 360° Prism Kit

Featuring a 360° configuration



FEATURES & BENEFITS

- ▶ The prism assembly slides on 9 mm diameter solid steel pin poles
- ▶ Composed of seven 12.7 mm diameter silver-coated mini prisms in a 360° configuration
- ▶ +2 mm offset and a 40-minute adjustable circular vial
- ▶ Four 30 cm (5910-21, 1-foot) pole sections feature alternating colors at 5 cm (5910-21, 1-foot) intervals
- ▶ Poles connect to achieve heights from 7.5 to 125 cm (5910-21, 0.25 to 3.85 ft) in 0.20 ft increments
- ▶ Clamp screw locks the prism assembly anywhere on the pole
- ▶ Spring-loaded ball detent adds tension, keeping the prism from falling when unlocked
- ▶ It also centers and locks the assembly into the grooves between each color interval
- ▶ A stainless steel point, data collector adapter and carrying case are included
- ▶ Weighs 1.76 lb (0.80 kg)

APPLICATIONS

- ▶ Precise layout work
- ▶ Construction layout



5910-20 — Sliding 360° Prism Kit - Metric (shown)
5910-21 — Sliding 360° Prism Kit - Feet

Pin Pole with Sliding 25 mm Prism System

Sliding 25 mm prism system



FEATURES & BENEFITS

- ▶ 25 mm sliding prism system features a silver-coated prism with a 0 offset
- ▶ The holder easily slides up and down the pole, the knobs lock in height and tilt - they also double as vertical angle targets
- ▶ The 12.2 mm OD pin pole features three sections - each 60-cm in length to achieve 5.91 ft (1.8 m); each color section (red or white) is 10 cm in length
- ▶ An adjustable 40-minute circular vial is built in to the prism holder
- ▶ Other features include a replaceable stainless steel point on the pole, accessory kit with plumb bob hook and cone for attachment to the prism for handheld applications and a system bag
- ▶ Weighs 1.95 lb (0.90 kg)

APPLICATIONS

- ▶ Precise layout work
- ▶ Construction layout



6600-10 — Pin Pole with Sliding 25 mm Prism System

Sliding Prism and Sectional Pole Kit

Site cones double as locks



FEATURES & BENEFITS

- ▶ Prism assembly slides up and down the pin pole
- ▶ Features a 25 mm, 0 offset silver-coated prism and a high quality aluminum holder
- ▶ Kit includes four 1-foot (30.5 cm) pole sections each with a 0.50-ft (15.24 cm) mark
- ▶ Site cones double as locks
- ▶ 40-minute adjustable vial on prism
- ▶ Prism includes an adapter so it can be used on any pole or tribrach adapter with 5/8 x 11 threads
- ▶ A system bag is also included
- ▶ Weighs 1.40 lb (0.63 kg)

APPLICATIONS

- ▶ Ideal for construction layout or any survey job needing a small portable prism/pole system

5910-05 — Sliding Prism and Sectional Pole Kit - Feet, 0 Offset (shown)
5910-06 — Sliding Prism and Sectional Pole Kit - Metric, 0 offset

Euro-Style Pole System

Features 0 mm, or -17.5 mm (Nodal)



FEATURES & BENEFITS

- ▶ Features a 40-minute adjustable vial, white sight cones and a 5/8 x 11 adapter for standard prism poles (for height of 115 mm)
- ▶ All anodized aluminum section lengths are 30 cm
- ▶ A carrying case is also included
- ▶ Weighs 1.60 lb (0.73 kg)

APPLICATIONS

- ▶ All handheld prism work
- ▶ Precise layout work
- ▶ Can be assembled in various configurations

PART NO.	OFFSET	COLOR
5910-01-ARD	0 / -30 offset	Red
5910-01-ABU	0 / -30 offset	Blue
5910-02-ARD	-17.5 offset (Nodal)	Red
5910-02-ABU	-17.5 offset (Nodal)	Blue

Reflector Pin Pole Kit

Ideal for reflectorless instruments



FEATURES & BENEFITS

- ▶ This new Reflector Pin Pole kit is ideal for use with reflectorless total station instruments
- ▶ The target holder is machined anodized aluminum and allows the target to tilt 360°
- ▶ 40-minute vial is built in
- ▶ Comes with four aluminum 30 cm pole sections, prism and system case
- ▶ 5 cm point is a special three piece non-conductive design
- ▶ Weighs 1.45 lb (0.66 kg)

APPLICATIONS

- ▶ Land surveying



5910-10 — Reflector Pin Pole Kit

Contractor Series Surveyors Kits

Quality, low-cost import surveyor's kit



FEATURES & BENEFITS

- ▶ SECO's Construction Series Surveyors Kits come with one 62 mm prism assembly (6402-10-FOB, page 26), one dual or metric grad prism pole (5530-10 or 5531-10, page 20), and one thumb release bipod (5217-40-RED, page 23)
- ▶ This package makes a great introductory kit
- ▶ Choose a kit with a graduated prism pole of your choice
- ▶ With one of these kits, all you need is your total station and tripod and you're ready to go to work

5280-01 — Surveyors Kit with Dual Grad Prism Pole (shown)
5280-02 — Surveyors Kit with Metric Grad Prism Pole

APPLICATIONS

- ▶ Land surveying



Prisms Assembly and Accessories

- ▶ Includes copper-coated 62 mm prism (6411-02)
- ▶ -30 mm offset aluminum prism holder, sealed with a rugged corrosion-proof electrostatic powder paint coating
- ▶ Available in flo yellow, flo orange (shown) and yellow
- ▶ Weighs 1.50 lb (0.68 kg)



6440-00-FOR — Single Prism Tilting Assembly

- ▶ This high-quality GPH1 Swiss-style prism assembly features a copper-coated prism for consistent results and a removable target
- ▶ -34 mm offset prism
- ▶ 86 mm H.T
- ▶ Weighs 0.92 lb (0.42 kg)



6406-00 — Nodal Point 62 mm Prism Assembly

- ▶ Used with a plumb bob and Gammon Reel for speed and convenience
- ▶ Features a water-resistant, hermetically sealed, nitrogen filled prism canister that prevents fogging
- ▶ Adjustable offset of 0/-30 mm
- ▶ Prism Diameter is 25.4 mm (1 inch)
- ▶ Weighs 0.12 lb (0.05 kg)



6100-00 — SECO Mini Bob Prism

- ▶ Use with the Eclipse Prism Assembly (#6400-00)
- ▶ Adapter for 0 mm offset
- ▶ Weighs 0.13 lb (0.06 kg)



6410-018 — Adapter for Eclipse Prism Assembly

- ▶ Consisting of six copper-coated prisms bonded together
- ▶ Assembly features a quick-release push-button connection
- ▶ Offset is +23 mm for Leica users and -11 mm for non-Leica users
- ▶ Height to center is 86 mm
- ▶ Includes a carrying bag
- ▶ Weighs 1.35 lb (0.61 kg)



6401-10 — Omni-directional 360° Prism Assembly

- ▶ Prism Holder
- ▶ -30 mm, -40 mm offset



6410-00 — -30 mm, -40 mm Offset Prism Holder

Mini Prism System

25 mm copper-coated prism system



FEATURES & BENEFITS

- ▶ Here's a versatile prism system in a small package
- ▶ Assembly features a 25 mm copper-coated prism, for fog prevention, a tilting holder, with friction axis, 0 or -30 mm offset
- ▶ Powder painted flo orange (shown) or flo yellow
- ▶ Includes a 40-min adjustable circular center or side mounted vial
- ▶ Assembly can mounted on a prism pole or tribrach at three heights: 70 mm, 100 mm, 115 mm, or can be hand-held using the plumb bob bracket or with S-hook for quick attachment to plumb bob
- ▶ Also included a point for stake-out work, and a system bag with belt loop
- ▶ Weighs 0.34 lb (0.15 kg)

6200-10-FOR — Mini Prism System with Center Vial
6200-11-FOR — Mini Prism System with Side Vial (shown)

APPLICATIONS

- ▶ Land surveying



25 mm Stakeout Prism Assembly

Standard offset prism



FEATURES & BENEFITS

- ▶ This 25 mm, copper-coated prism features aluminum double yoke construction with tilting coaxial target
- ▶ Two on-board 130-minute vials — top and bottom
- ▶ Includes replaceable plumb bob point
- ▶ 0 and -30 mm offset
- ▶ Includes carrying case
- ▶ Weighs 0.62 lb (0.28 kg)

6405-01-FOR — 25 mm Stakeout Prism Assembly - Flo Orange
6405-01-FLY — 25 mm Stakeout Prism Assembly - Flo Yellow

APPLICATIONS

- ▶ Land surveying



Mini Stakeout Prism with Site Cones

Your choice between 0/-30 mm or -17.5 mm (Nodal) offsets



FEATURES & BENEFITS

- ▶ Features 'site cones' that improve vertical angle pointing — the site cones double as tilting-axis lock knobs
- ▶ Adjustable 40-min vial is mounted on the front side and is easy to see and simple to adjust
- ▶ Includes carrying case
- ▶ Weighs 0.30 lb (0.14 kg)

6405-10-FOR — Mini Stakeout Prism w/ Site Cones - 0 and -30 Offset (shown)
6405-12-FOR — Mini Stakeout Prism w/ Site Cones - 17.5 Nodal Offset

APPLICATIONS

- ▶ Land surveying



Stakeout Mini Prism Kit

Features 0 / -30 mm or -17.5 mm offsets



FEATURES & BENEFITS

- ▶ The white site cones on X and Y axis of the assembly help improve centering of your instrument's crosshairs for vertical and horizontal pointing
- ▶ Choose between 0/-30 mm or -17.5 mm offsets
- ▶ Used in four height configurations: 50 mm, 100 mm, 115 mm and 150 mm, top or bottom of the pole, handheld, or tribrach mounted
- ▶ Weighs 0.80 lb (0.36 kg), 1.30 lb (0.59 kg) with heavy-duty point

6405-11-FOR — Stakeout Mini Prism Kit - 0 / -30 mm offset
6405-13-FOR — Stakeout Mini Prism Kit - Nodal -17.5 mm offset

APPLICATIONS

- ▶ Land surveying



Prisms and Prism Assembly Accessories

- ▶ 5/8 X 11 prism mounting adapter kit
- ▶ 1/4 x 20 to 5/8 x 11 male mounting adapter



2131-02 — 5/8 X 11 Prism Mounting Adapter Kit

- ▶ Replacement point for Mini Prism
- ▶ Weighs 0.03 lb (0.01 kg)



6220-00 — Mini Prism Replacement Point

- ▶ The Eclipse™ mini system includes: a Mini Tilting Prism; plumb bob attachment; Mini Bob Prism Mount; Point, and Belt Case
- ▶ 0 and -30 offsets
- ▶ Black hardware
- ▶ Case included
- ▶ Weighs 0.30 lb (0.14 kg)



6450-00-BLK — Tilting Mini Prism System

25 mm 'L-Bar' Mini Prisms

Choose between copper- or silver-coated prisms



FEATURES & BENEFITS

- ▶ Perfect for deformation or mining surveys, or places where a permanent mounting is needed
- ▶ Features a -25 mm offset and comes with 10.3 mm ID mounting hole
- ▶ Assembly is constructed of anodized aluminum and the prism is water and dust proof
- ▶ Choose between copper-coated or silver-coated prism
- ▶ Weighs 0.45 lb (0.20 kg)

6600-02 — 25 mm 'L-Bar' Copper-Coated Mini Prism
6600-05 — 25 mm 'L-Bar' Silver-Coated Mini Prism

APPLICATIONS

- ▶ Mining, tunneling, monitoring and rail

Small Tilting Mini Prism

Lightweight and inexpensive, made to be set up and left for extended periods



FEATURES & BENEFITS

- ▶ All models feature an 86 mm height and fit Swiss-style male tips or Quick Release adapters
- ▶ 6600-04 features a 25 mm mini prism for longer distances up to 2,000 ft (600 m)
- ▶ 6600-01 (shown) and 6600-03 feature a 60 mm diamond pattern sheeting and a 2 mm offset
- ▶ Use for distances up to 49 ft (15 m)

6600-01 — Small Tilting Mini Prism - Diamond Pattern (shown)
6600-03 — Diamond Pattern w/ Crosshairs
6600-04 — 25 mm Mini Prism

APPLICATIONS

- ▶ Mining, tunneling, monitoring and rail



Mining, Tunneling Monitoring and Rail Accessories

- ▶ 6601-Series Quick Release Adapters are made of T-303 stainless steel with machined threads that attach to corresponding Anchor Bolts or the 6602-Series rebar bolts
- ▶ Weighs 0.10 lb (0.05 kg)



- ▶ Measures 3/4 x 9.9 inches (19.05 x 251.46 mm) long
- ▶ Includes a hex bolt used to hammer the bolt in to the surface
- ▶ Once installed, remove the hex bolt and install the 6601-Series adapter of your choice
- ▶ Choose between 3/8 x 16, M8 or M12 thread patterns
- ▶ Weighs 1.25 lb (0.57 kg)



6601-01 — 1/4" x 20 Threads
6601-02 — 3/8 x 16 Threads
6601-03 — M8 Threads
6601-04 — M12 Threads

6602-01 — Rebar Bolt 3/8 x 16 Threads
6602-02 — Rebar Bolt M12 Threads
6602-03 — Rebar Bolt M8 Threads

Standard Track Rod

Can be accurately measured over the track center



FEATURES & BENEFITS

- ▶ Track rod remeasures the track axis
- ▶ Can be accurately measured over the track center
- ▶ The holder for the prism mounted in the track axis and is rotatable
- ▶ When using the prism in the tilt holder of the measuring point is 100 mm perpendicular to the track axis
- ▶ Insulation prevents electrical shorting between the two rails
- ▶ The stop on the opposite end ensures a clean application to the rail inner edge
- ▶ The attack pushes exactly on the reference height of 14 mm below the top of rail to rail
- ▶ All track benchmarks are supplied as standard for a track gauge of 1435 mm

APPLICATIONS

- ▶ Mining, tunneling, monitoring and rail



PART NO.	TIP TYPE	WEIGHS
5 230 000	5/8 x 11 Tip	6.26 lb (2.84 kg)
5 230 001	Wild-Style Tip	6.26 lb (2.84 kg)
5 230 002	10 mm Tip	6.17 lb (2.80 kg)

Mining, Tunneling, Monitoring and Rail Accessories

- ▶ Adapter is screwed into a M8 wall plug
- ▶ Use with 10 mm stud prism
- ▶ Wall distance depends on the prism used
- ▶ 5 111 040 weighs 0.18 lb (0.08 kg)
- ▶ 5 111 060 weighs 0.31 lb (0.14 kg)



5 111 040 — M8 Adapter for 10 mm Stud - 40 mm Length for 80 mm Wall Distance
 5 111 060 — M8 Adapter for 10 mm Stud - 60 mm Length for 100 mm Wall Distance

- ▶ Wild stud adapter with M8 threads
- ▶ Weighs 0.09 lb (0.04 kg)



5 113 100 — M8 Adapter for Wild-Adapter - for 100 mm Wall Distance (M8 - Wild)

- ▶ Prism center is located in center of the ball
- ▶ Prism Ball
- ▶ 50 mm diameter
- ▶ 25 mm prism
- ▶ Weighs 0.75 lb (0.34 kg)



5 312 001 — 50 mm Diameter Prism Ball

- ▶ Wedge-shaped aluminum plate features a 12.5 mm prism
- ▶ Plate can be fixed with special adhesive on to the pavement
- ▶ Dimensions: 10 x 10 x 2 cm (3.94 x 3.94 x 0.79 inches)
- ▶ Weighs 0.62 lb (0.28 kg)



4 520 800 — 12.5 mm Street-Mountable Building Monitoring Prism System

- ▶ Precision prism in an aluminum holder
- ▶ The prism is vertically pivotal and can be rotated with the plug-in pin
- ▶ The measuring point is always at the center
- ▶ Prisms have a 42 mm diameter, silver-coated
- ▶ 4 520 001 offers a tilting axis height of 40 mm and weighs 0.44 lb (0.20 kg)
- ▶ 4 520 002 offers a tilting axis height of 70 mm and weighs 0.66 lb (0.30 kg)



4 520 001 — Prism Tilting Holder with 10 mm Stud
 4 520 002 — Prism Tilting Holder with Wild Quick-Release

- ▶ Anodized aluminum plate
- ▶ The three bottom anchor bolts are embedded in concrete during installation
- ▶ With 5/8 x 11 threaded stud for Tribach adapter centered on the plate
- ▶ Weighs 2.29 lb (1.04 kg)



1 510 001 — Column Plate

- ▶ Anodized aluminum plate
- ▶ Three key holes for screws to mount the plate
- ▶ 5/8 inch to the threaded stud Tribach adapter centered on the plate
- ▶ Weighs 1.81 lb (0.82 kg)



1 510 011 — Screw Mounting Column Plate

- ▶ Precision mini prism holder constructed of aluminum
- ▶ 25 mm diameter prism
- ▶ Prism constant is -17 mm
- ▶ Tilting axis height 30 mm
- ▶ 10 mm stud type
- ▶ Weighs 0.22 lb (0.10 kg)



4 520 020 — Mini 25 mm Diameter Prism Tilting Holder

- ▶ Inserted between the 10 mm socket pin inclusion prism and the prism to enlarge the height of the prism over the point
- ▶ Choose between 10, 20, 30 or 100 cm extension lengths
- ▶ 4 520 130 weighs 0.35 lb (0.16 kg)
- ▶ 4 520 131 weighs 0.40 lb (0.18 kg)
- ▶ 4 520 132 weighs 0.48 lb (0.22 kg)
- ▶ 4 520 133 weighs 1.06 lb (0.48 kg)



4 520 130 — 10 cm Prism Height Extension
 4 520 131 — 20 cm Prism Height Extension
 4 520 132 — 30 cm Prism Height Extension
 4 520 133 — 100 cm Prism Height Extension

- ▶ 5/8 x 11 thread extensions
- ▶ Constructed of stainless steel
- ▶ Choose between 30, 50 or 100 cm extension lengths for 5/8 x 11 threads
- ▶ 4 520 120 weighs 0.57 lb (0.26 kg)
- ▶ 4 520 122 weighs 0.79 lb (0.36 kg)
- ▶ 4 520 121-5/8" weighs 1.28 lb (0.58 kg)



4 520 120 — 30 cm Prism Height Extension for 5/8 x 11 Threads
 4 520 122 — 50 cm Prism Height Extension for 5/8 x 11 Threads
 4 520 121-5/8" — 100 cm Prism Height Extension for 5/8 x 11 Threads

- ▶ Special prism for simple and robust assembly can be used in building inspections
- ▶ 25 mm prism diameter
- ▶ Weighs 0.22 lb (0.10 kg)



4 520 200 — 25 mm Prism for Building Monitoring

Mining, Tunneling, Monitoring and Rail Accessories

- ▶ Optimal for fast and precise measurement of stopping points without a tripod and pole
- ▶ Designed to sit on different measurement points
- ▶ Three different adapters included: angle adapter for placing on the chamfered edges wall, tip for measuring points with centering, adapter with depression for curved measurement points without centering
- ▶ Prevents slipping from the point
- ▶ The base plate allows all three adapters to rotate freely and is leveled using a spirit level with two screws quickly and accurately
- ▶ At the moment required adapters can not be screwed on the top

4 610 000 — 90 mm Height Bottom Plate



- ▶ The track has a bracket for tram or track shortened leg to allow the measurement in grooved rails
- ▶ With moving across the track axis for horizontal alignment
- ▶ With strong magnet



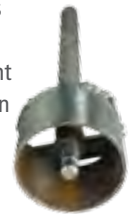
5 263 000 — Track Angle for Tram w/ 5/8 inch Threads
 5 263 001 — Track Angle for Tram w/ Wild-Style Stud
 5 263 002 — Track Angle for Tram w/ 10 mm Stud

- ▶ Adapters for bottom plate (4 610 000) and other various prism systems

PART NO.	HEIGHT	TIP TYPE	WEIGHS
4 410 000	5 mm	5/8 x 11	0.26 lb (0.12 kg)
4 410 001	40 mm	Wild-Style	0.31 lb (0.14 kg)
4 410 002	20 mm	10 mm Tip	0.31 lb (0.14 kg)



- ▶ Additional option for protecting the convergence measuring bolt
- ▶ The welded steel ring provides protection against mechanical damage of the measuring point
- ▶ Must be ordered in conjunction with convergence bolt



5 114 500 — Steel Ring Protection for Convergence Measuring Bolt

- ▶ For concreting as measuring point
- ▶ Prisms and reflective target boards without any special adapter can be attached to the wild-spigot system
- ▶ The spigot is galvanized
- ▶ Diameter 20 mm, ribbed steel

5 114 150 — 150 mm Convergence Measuring Bolt
 5 114 200 — 200 mm Convergence Measuring Bolt
 5 114 270 — 270 mm Convergence Measuring Bolt
 5 114 350 — 350 mm Convergence Measuring Bolt

- ▶ For concreting as measuring point
- ▶ For placing a prism or reflective target plate on the 3/8-inch thread, a plastic adapter is screwed in
- ▶ Supplied with a simple plastic cap
- ▶ Corrugated steel, 20 mm diameter galvanized

5 115 150 — 150 mm Convergence Measuring Bolt
 5 115 200 — 200 mm Convergence Measuring Bolt
 5 115 270 — 270 mm Convergence Measuring Bolt
 5 115 350 — 350 mm Convergence Measuring Bolt

Walleye Prism System

Lightweight and inexpensive, made to be set up and left for extended periods



FEATURES & BENEFITS

- ▶ The Walleye™ Prism System accommodates a full size 62 mm prism (6411-03-BLK) for long range applications or when a larger prism is needed
- ▶ Rain hood helps keep the prism clean to ensure continual measurements over a long measuring cycle
- ▶ The flat bottom of the L-Bracket is a large 2.3 x 3.4 inch with five holes for mounting to a variety of surfaces
- ▶ Components available individually so you can configure your specific needs
- ▶ Center pivot hole is 3/8 inch (9.5 mm), the four screw holes are 4.5 mm OD
- ▶ Features include a -40 mm offset, ± 2 mm, ability to pivot in two axes, stainless-steel locking
- ▶ The system is compatible with all M20 screw-in type prism canisters
- ▶ System weighs 1.55 lb (0.70 kg)

6603-00 — Complete Walleye Prism System with Prism and 5/8 x 11 Adapter
 6603-01 — Complete Walleye Prism System with Prism and M8 Adapter
 6603-00-050 — L-Bracket Assembly Only
 6603-00-005-TMB — Rain Hood Only
 6603-00-051 — 5/8 x 11 Adapter with Screw and Washer
 6603-01-051 — M8 Adapter with Screw and Washer

APPLICATIONS

- ▶ Mining, tunneling, monitoring and rail



Traverse Kit for 196 mm Heights

Perfect companion for Trimble or Spectra Precision Total Stations



FEATURES & BENEFITS

- ▶ Preset to a 196 mm height
- ▶ Adjustable for taller instruments ranging from 196 mm to 216 mm heights
- ▶ Works with all Trimble® S6 and the Spectra Precision Focus 30 instruments
- ▶ Traverse or precise back sight kit includes a 62 mm prism assembly (6402-22-YLB)
- ▶ Prism has <5 arc seconds angle deviation and a silver-coated canister to resist fogging
- ▶ Kit comes with a rotating tribrach adapter (2153-10) with a 2.5X twist focus optical plummet and a 60-second adjustable plate vial
- ▶ Adjustable tilt target has 0 or -30 offsets
- ▶ Adapter has precision machined axis that rotates 360°
- ▶ Over the point accuracy is 0.5 mm at 1.5 m
- ▶ Also included is European-made tribrach (2153-06) which features three-screw-leveling with center line, an 8-minute circular vial, and 5/8 x 11 base thread
- ▶ Kit comes with a bright orange, hard shell carrying case (2159-050) with high density foam inserts, nickel plated latches and backpack straps
- ▶ Weighs 9.95 lb (4.51 kg)

2159-03-BLK — Traverse Kit for 196 mm Heights

APPLICATIONS

- ▶ Ideal for precise back sight surveying applications
- ▶ Perfect for use with the Trimble S6 or Spectra Precision Focus 30 Total Stations



Traverse Kit for 155 mm Heights

Perfect companion for Nikon Nivo Total Stations



FEATURES & BENEFITS

- ▶ Preset to a 155 mm height making it compatible with Nikon NIVO™ Series Total Stations
- ▶ Kit includes a 62 mm prism assembly (6402-04-YLB)
- ▶ Prism has <5 arc seconds angle deviation and a silver-coated prism to resist fogging
- ▶ Adjustable tilt target has 0 or -30 offsets
- ▶ Includes rotating tribrach adapter (2153-11) with a 2.5X pull focus optical plummet and a 60-second adjustable plate vial
- ▶ Adapter has a precision machined axis that rotates 360°
- ▶ Over the point accuracy is 0.5 mm at 1.5 meters
- ▶ Also included is a (2153-04) tribrach which features three-screw-leveling with center line, an 8-minute circular vial, and 5/8 x 11 base thread
- ▶ Kit comes in a bright orange, hard shell carrying case (2159-050) which features high density foam inserts, nickel plated latches and backpack straps
- ▶ Weighs 9.95 lb (4.51 kg)

2159-04-BLK — Traverse Kit for 155 mm Heights

APPLICATIONS

- ▶ Ideal for precise back sight surveying applications
- ▶ Perfect for use with the Nikon Nivo series Total Stations



Traverse Tribrach Adapter

Compatible with all 24.9 mm bayonet base prisms



FEATURES & BENEFITS

- ▶ The optical plummet is twist-focus with 2.5X magnification
- ▶ 60-second adjustable plate vial
- ▶ Precision-machined axis rotates 360°
- ▶ Compatible with all prisms with a 24.9 mm bayonet base
- ▶ The adjustable height is 100 to 120 mm — fits all standard three-prong tribrachs
- ▶ Over point accuracy is 0.5 mm at 1.5 m
- ▶ Available in black and grey
- ▶ Weighs 1.70 lb (0.77 kg)

2153-10-BLK — Traverse Tribrach Adapter
2153-10-GRY — Traverse Tribrach Adapter (shown)

APPLICATIONS

- ▶ Ideal for traversing or precise setups



2153-10-050 Male 5/8 x 11 Adapter

2153-10-051 Quick Release Adapter

Traverse Kit

Target, glass and plummet all in one hard-shell case



FEATURES & BENEFITS

- ▶ Includes a 62 mm prism with silver-coated canister (6400-10)
- ▶ The adjustable (and reversible) tilt target has a sighting collimator for precise pointing and has 0, -30, and -40 offsets
- ▶ The kit comes with a rotating tribrach adapter (2153-10-GRY) that is compatible with all prisms with a 24.9 mm bayonet base
- ▶ Features a 2.5X twist focus optical plummet and a 60-second adjustable plate vial
- ▶ Prism has <math>< 5</math> arc seconds angle deviation
- ▶ The adapter has a precision machined axis that rotates 360°
- ▶ The height is 100 to 120 mm and over the point accuracy is 0.5 mm at 1.5 m
- ▶ Also included is a tribrach (2153-04) which features three screw-leveling with center line, an 8-minute circular vial, and 5/8 x 11 base thread
- ▶ Includes hard shell case
- ▶ Weighs 9.95 lb (4.51 kg)

APPLICATIONS

- ▶ Ideal for precise back sight surveying applications



2159-01-GRY — Traverse Kit Single Prism
 2159-02-GRY — Traverse Kit Triple Prism
 2159-050 — Hard Shell Traverse Carrying Case (included in kit or sold separately)

Tribrachs & Adapters

- ▶ This adapts retro prisms to Swiss style tribrachs and has a removable Zeiss plug and locking screw
- ▶ Fits all tribrachs
- ▶ Weighs 1.75 lb (0.80 kg)



2070-00 — Rotating Tribrach Adapter

- ▶ The Optical Plummet Twist Focus Tribrach features twist focus (2.5X mag) and leveling screws with center line
- ▶ Features an 8-min vial, three-prong forced centering and a 5/8 x 11 base
- ▶ Tribrach has a focusing range of 1.5 to 50 ft (0.5 to 15 m)
- ▶ Weighs 1.85 lb (0.84 kg)



2152-04-BLK — Tribrach with Optical Plummet

- ▶ Allows adjusting of prism height by moving the threaded brass insert in the adapter
- ▶ Fits all tribrachs
- ▶ Weighs 1.91 lb (0.87 kg)



2071-00 — Prism H.T. Adapter

- ▶ Bright 650-nm focused laser dot
- ▶ Circular vial w/ 8-minute sensitivity
- ▶ Standard three-prong forced centering with center lines
- ▶ Included is a standard 3 volt CR2 lithium battery
- ▶ Weighs 1.65 lb (0.75 kg)



2153-02-BLK — Laser Tribrach

- ▶ This rotating friction top tribrach adapter allows the prism to be pointed after installation in the tribrach
- ▶ Fits all tribrachs
- ▶ Weighs 0.90 lb (0.41 kg)



2020-00 — Rotating Tribrach Adjuster

- ▶ Use adapter for mounting retro prisms and tripod mounted target systems
- ▶ Fits all tribrachs
- ▶ Weighs 0.50 lb (0.23 kg)



2010-00 — Fixed Tribrach Adapter

- ▶ Will accept any 5/8 x 11 instrument
- ▶ Features a precision brass slow-motion tangent screw
- ▶ Fits all tribrachs
- ▶ Weighs 3.00 lb (1.36 kg)



2021-00 — Horizontal Base

- ▶ Use for adjusting optical plummet tribrachs and tribrach bubbles
- ▶ Machined black anodized aluminum features a 2-minute bubble
- ▶ Weighs 1.30 lb (0.59 kg)



2002-00 — Tribrach Adjuster

- ▶ Check and adjusting optical plummet tribrachs in the office
- ▶ Precision-machined, black anodized aluminum
- ▶ Weighs 0.70 lb (0.32 kg)



2001-00 — Tribrach Adjusting Cylinder

Standard and High Precision Tribachs

Quality European-made tribachs allows your equipment to stay steady



FEATURES & BENEFITS

- ▶ SECO now offers Geodesy-MOM tribachs in two different models; our High-Precision tribrach and now the Standard-Precision tribrach
- ▶ European-made with an effortless locking mechanism for fast and solid tripod connection
- ▶ A center line on each of the leveling screws allows the user to balance the lengths of the leveling screws
- ▶ All tribachs feature 5/8 x 11 threaded base plates and 8-minute circular vials
- ▶ High-precision tribachs feature an error in angle measurement (hysteresis) is under 3 cc (60 Ncm torsion moment and 12 kg vertical load), standard tribrach is 5 cc
- ▶ The 2152-06-BLK has a shortest focus distance of 0.35 m and an accuracy of 0.5 mm / 1.5 m
- ▶ Features 2X magnification and an erect image
- ▶ Operating temperature is -20°C to +50°C (-4°F to +122°F)

APPLICATIONS

- ▶ Designed to work with all total stations or laser scanners



- 2152-06-BLK — High-Precision Tribrach with Optical Plummet
- 2153-06-BLK — High-Precision Non-Optical Plummet Tribrach
- 2152-07-BLK — Standard Precision Tribrach with Optical Plummet
- 2153-07-BLK — Standard Precision Non-Optical Plummet Tribrach

Instrument Tripod Accessories

- ▶ Lightweight and portable, keep your tripod level in all surface conditions
- ▶ Simple to use
- ▶ Features cleats to minimize slipping
- ▶ Attached bungee cables enable easy carrying, hanging or placement
- ▶ Sold in packs of three
- ▶ Each weighs 0.29 lb (0.12 kg)



5610-10 — Sta-Level Feet Tripod Stabilizer
5610-11 — Sta-Level Feet Tripod Stabilizer (w/ Rubber Pads)

- ▶ Provides non-slip support for tripods
- ▶ Works on all ferrous metal surfaces
- ▶ Includes three ceramic magnets 5 inch round
- ▶ Each magnet has a tripod point connection with a bungee strap
- ▶ Handle to remove magnet from surface included
- ▶ Each magnet has 210 pull pounds
- ▶ Kit bag is included



5610-12 — Tripod Anchor Kit

- ▶ Holds the Allegro, Archer®, Explorer®, Recon® or Jett®•ce



5196-04 — Standard Bracket (shown)
5196-07 — Tilted Bracket

- ▶ Easily holds a laptop computer
- ▶ Measures: 13 x 10.25 in (33 x 26.04 cm)



5196-02 — Laptop Bracket

- ▶ Designed to provide the extra stability required when working indoors on concrete and other hard surfaces
- ▶ Made of heavy-duty aluminum
- ▶ Measures 35 x 35 x 35 inches
- ▶ Collapses for compact storage
- ▶ Rubber O-ring fits over the foot of the tripod for extra stability
- ▶ Weighs 3.00 lb (1.36 kg)



5610-00 — Tripod Stabilizer

- ▶ Constructed from anodized aluminum



2120-00 — Tripod Adapter 3-1/2 x 8 to 5/8 x 11
2130-00 — Tripod Adapter 5/8 x 11 to 3-1/2 x 8
2132-01 — Tripod Adapter 5/8 x 11F to 1/4 x 20M

- ▶ This bracket rotates for easier access to your collector



5196-13 — Rotating Bracket
5196-13-005 — Adapter

- ▶ Designed to fit precisely on the back of the controller
- ▶ Works with most heavy-duty tripods that feature a connecting bar on the hinge area



Tripod Hook Brackets Designed for
5196-14 — Ranger 300X/500X, TSC2
5196-15 — Recon
5196-16 — Archer
5196-17 — Nomad
5196-18 — TSC3 or Ranger 3
5196-19 — Mesa Tesla

Tri-Max Tri-Dolly

Moves a tripod quickly to the next shot without breaking down the instrument



FEATURES & BENEFITS

- ▶ The Tri-Max Tri-Dolly™ speeds up data collection
- ▶ Moving your instrument setup is quick, no need to break down to get to your next measuring location
- ▶ Features include sturdy fiberglass legs, stability locks, foot straps, and rubberized 3 inch tall castor wheels that swivel 360° and quick-lever style steel risers
- ▶ Includes hard ship case (tripod sold separately)
- ▶ Weighs 14.40 lb (6.54 kg)

90555 — Tri-Max Tri-Dolly

APPLICATIONS

- ▶ Interior applications on hard surfaces

Tri-Max Tripods

Features positive locking systems



FEATURES & BENEFITS

- ▶ The Tri-Max® is the only surveying-grade fiberglass tripod with certified accuracy – highly recommended for all servo-driven and robotic total stations, 3-D laser scanners or construction lasers
- ▶ The large 'footbed' is there to facilitate solid planting for stability
- ▶ The revolutionary design of this tripod series means this tripod will meet ISO standard (12858-2-H) right out of the box, and after years of field use
- ▶ The shape and size of the foot are designed to allow for a solid placement on any terrain
- ▶ Features a round head with large center hole to facilitate an easy set-up over a point
- ▶ A retaining system—which prevents leg kick out and accidental falls on slick surfaces—is stored on the inside of the leg and can be left in place when the tripod is not in use
- ▶ The foot is equipped with a replaceable point and a retention loop for use with a safety strap
- ▶ The Tri-Max can handle equipment up to 65 lb (30 kg)

APPLICATIONS

- ▶ Robotics
- ▶ Scanning
- ▶ Leveling

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
90550	Quick Clamp	Fiberglass	17.00 lb (7.70 kg)	71 in (1.8 m)	Flat	Black
90551	Screw Clamp	Fiberglass	17.00 lb (7.70 kg)	71 in (1.8 m)	Flat	Black
90553	Dual Clamp	Fiberglass	17.00 lb (7.70 kg)	71 in (1.8 m)	Flat	Black
90560	Quick/Dual Clamp	Fiberglass	20.00 lb (9.00 kg)	91 in (2.3 m)	Flat	Black
90561	Screw/Dual Clamp	Fiberglass	20.00 lb (9.00 kg)	91 in (2.3 m)	Flat	Black
90570	Fixed Leg	Fiberglass	17.00 lb (7.70 kg)	54 in (1.3 m)	Flat	Black



Cross Reference Sheet

Bags and Cases For Instrument Tripods

BAGS	TRIPODS WILL FIT
8150-00-ORG	Every Tripod Except for; 90556, 90558, 90560, 90561, 90570, 5321-17-ORG, and 5203-20-ORG
8150-20-ORG	Every Tripod Except for; 90556, 90558, 90560, 90561, 90570, 5321-17-ORG, and 5203-20-ORG
8153-10-ORG	5321-17-ORG, 90556 and 5115-00
8154-00-ORG	5119-00
8154-10-ORG	5300-11 and 5300-12
8154-11-ORG	Every Tripod Except for; 90556, 90558, 90560, 90561, 90570, 5321-17-ORG, and 5203-20-ORG
8154-12-ORG	5119-10
8160-30	Every Tripod Except for; 90556, 5321-17-ORG and 5203-20-ORG
91426	90560 and 90561

Universal Tri-Max Elevator Tripod

A gear box controls the lift and descent so the center column cannot free fall



FEATURES & BENEFITS

- ▶ SECO's Universal Tri-Max Elevator Tripod features a working height range of 4.10 ft (1.20 m) collapsed to 8.60 ft (2.62 m) extended with the center column at full height
- ▶ The center column independently lifts 1.00 meters (90558-050)
- ▶ A gear box controls lift and descent so the center column cannot free fall
- ▶ Additional 1 meter section may be added for a total recommended height of 10 ft (3 m) for instruments under 15 lb (6.80 kg)
- ▶ The 5/8 x 11 mounting head is removable and adjustable in azimuth direction
- ▶ Machined-aluminum elevator column and fiberglass legs makes for a robust and easy-to-use laser instrument tripod
- ▶ Applications include laser scanning and robotics
- ▶ Fiberglass Legs
- ▶ Stable for instruments up to 25 lb (11.33 kg) under most conditions
- ▶ Weighs 29.00 lb (13.20 kg)

APPLICATIONS

- ▶ Robotics
- ▶ Scanning
- ▶ Leveling



90558 — Universal Tri-Max Elevator Tripod
90558-050 — 1 Meter Extension for Universal Tri-Max Elevator Tripod

Short Tri-Max

Standard Tri-Max quality in a smaller size



FEATURES & BENEFITS

- ▶ The Tri-Max® Short Quick-Clamp Tripod features the exact same design and construction as the full-size (90550) Tri-Max but it's more portable
- ▶ Extends to 5.67 ft (1.73 m)
- ▶ Collapses to 3.44 ft (1.05 m)
- ▶ Fiberglass legs
- ▶ Highly recommended for all servo-driven and robotic total stations and 3-D laser scanners
- ▶ Weighs 15.40 lb (7.00 kg)

APPLICATIONS

- ▶ Robotics
- ▶ Scanning
- ▶ Leveling



90550-S — Short Tri-Max

Tri-Max Fiberglass Elevator Tripod

Stout yet light weight tripod with dual locks and struts



FEATURES & BENEFITS

- ▶ Tri-Max Elevator Tripod features sturdy fiberglass legs with dual locks, a quick lever style at the top and a twist lock on the bottom
- ▶ Built-in stabilizing struts connect the legs and aluminum center column to help maintain the tripod's stability at working height
- ▶ The round 5/8 x 11 mounting head is removable and adjustable in azimuth direction
- ▶ Other features include a stout gear box which controls lift and descent — the column can not fall freely
- ▶ The working height range (legs in tripod form as shown) is 4.92 ft (1.5 m) collapsed to 11.54 ft (3.52 m) extended with the center column at full height
- ▶ The center column independently lifts 1.12 meters (graduated in millimeters)
- ▶ Completely collapsed for storage or transport, the tripod measures 5.35 ft (1.63 m) and will fit in the (8153-10-ORG) Extra Large Tripod Bag
- ▶ Weighs 29.00 lb (13.20 kg)

APPLICATIONS

- ▶ Machine control
- ▶ Scanning
- ▶ Agriculture leveling
- ▶ Robotics



90556 — Tri-Max Fiberglass Elevator Tripod

Matador Tripods

Improved quality and stability for more accurate measurements



FEATURES & BENEFITS

- ▶ 6-5/8 inch flat head with large center hole (2-5/8 inch) to facilitate an easy set-up over a point
- ▶ Foot is equipped with a replaceable point made of hardened steel
- ▶ Standard 5/8 x 11 threaded brass instrument stud
- ▶ Snap cap to protect tripod head
- ▶ Comes with shoulder strap for comfortable carrying over longer distances
- ▶ Extends to 70.75 inches (179 cm)
- ▶ Collapses to 43.75 inches (111 cm)
- ▶ Made in North America under strict quality controls
- ▶ Carrying strap included
- ▶ Your choice of lock types (Quick Clamp, Screw Clamp or Dual Lock)

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, or total stations



PART NO.	LOCKING	LEGS	EXTENDS	COLLAPSES	WEIGHS	COLOR
90580	Quick Clamp	Fiberglass	70.75 in (179 cm)	43.75 in (111 cm)	13.60 lb (6.16 kg)	Orange
90581	Screw Clamp	Fiberglass	70.75 in (179 cm)	43.75 in (111 cm)	13.60 lb (6.16 kg)	Orange
90582	Dual Lock	Fiberglass	70.75 in (179 cm)	43.75 in (111 cm)	13.60 lb (6.16 kg)	Orange (shown)

Premier Fiberglass Tripod

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ Stable and accurate — perfect for mechanically-driven total stations and survey-grade theodolites and levels, these tripods stand up to demanding field conditions
- ▶ Dual clamp configuration: twist-lock and quick clamp leg locks
- ▶ Carrying strap included
- ▶ 5/8 x 11 threaded post accommodates standard instruments

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, scanners, or total stations



PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5203-10-ORG	Dual Locks	Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Round / Flat	Orange
5203-10-BLK	Dual Locks	Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Round / Flat	Black (shown)

Extra-Tall Fiberglass Elevator Tripod

Locking leg stabilizers provide greater stability



FEATURES & BENEFITS

- ▶ Tripod has a fully-extended leg and center column height of 12.40 ft (3.80 m) and a collapsed height of 5.97 ft (1.82 m)
- ▶ Legs and dowels are constructed of fiberglass for durability, strength and resistance to weathering
- ▶ Features an adjustable center column that gives you 3.7 ft (1.12 m) of lift
- ▶ Detachable round head plate, with a 5/8 x 11 stud, gives your instrument a sturdy platform
- ▶ Lockable leg stabilizer struts, dual clamps, twist locks and quick clamps, along with dual metal and rubber leg points and handy leg strap create greater stability
- ▶ Column can hold 66 lb (30 kg) when collapsed, and 15.4 lb (7 kg) when elevating
- ▶ Includes leg straps
- ▶ Weighs 33.10 lb (15.00 kg)

APPLICATIONS

- ▶ Use with lasers, scanners, machine control or other instruments



5321-17-ORG — Extra-Tall Fiberglass Elevator Tripod

**11 Foot
Fiberglass Tripod**

Features 11 ft (3.35 m) height and Quick-Clamp positive locking systems



FEATURES & BENEFITS

- ▶ Tripod is very portable; it breaks down in two, 4 ft (1.22 m) sections
- ▶ Easy to set up and take apart and two sturdy carry/storage bags are included
- ▶ Add the three additional legs and this tripod goes from 7 feet (2.13 m) collapsed, to 11 feet (3.35 m) extended
- ▶ Features a unique telescoping strut system to stabilize the fiberglass legs, dual clamps on each leg, and a flat head with standard 5/8 x 11 instrument fastener
- ▶ Carrying strap included
- ▶ Weighs 36.00 lb (16.30 kg)

APPLICATIONS

- ▶ Use for machine control, scanning, ag leveling, robotics



5203-20-ORG — 11 ft Fiberglass Tripod

**Birch Wood/Fiberglass
Hybrid Tripod**

New and improved kiln dried birch wood/fiberglass hybrid tripod models



FEATURES & BENEFITS

- ▶ Wood/Fiberglass tripods are perfect for mechanically-driven total stations and survey-grade theodolites and levels, these tripods stand up to demanding field conditions
- ▶ 5/8 x 11 threaded post accommodates standard instruments — an ideal tripod for many different applications

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, or total stations



PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5302-11-ORG	Quick Clamp	Birch Wood/Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Triangle / Flat	Orange
5302-11-BLK	Quick Clamp	Birch Wood/Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Triangle / Flat	Black
5402-11-ORG	Twist-Lock	Birch Wood/Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Triangle / Flat	Orange (shown)
5402-11-BLK	Twist-Lock	Birch Wood/Fiberglass	18.00 lb (8.16 kg)	72.5 in (1.8 m)	Triangle / Flat	Black

**Heavy-Duty
Birch Wood Tripods**

New and improved kiln dried birch wood tripod models



FEATURES & BENEFITS

- ▶ 6.5 inch round head and standard 5/8 x 11 threaded stud is ideal for mounting a variety of instruments
- ▶ Choice of locks (Dual or Twist) provides extra security at height
- ▶ Leg stabilizer straps on the 5220-11 ensure tripod stays stable and in place
- ▶ 5320-10 is not offered with our new birch wood
- ▶ Wood legs have a hand hole for easy carrying
- ▶ Tool kit, which attaches to any leg, includes an open-end wrench and an allen wrench for any tripod adjustments
- ▶ Shoulder strap also included for comfortable carrying over longer distances

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, or total stations



PART NO.	LOCK TYPE	HEAD	WEIGHS	EXTENSION	COLLAPSES	HARDWARE
5220-11-ORG	Dual Locks	Round / Flat	16.50 lb (7.48 kg)	72 in (183 cm)	46.5 in (118 cm)	Orange
5220-11-BLK	Dual Locks	Round / Flat	16.50 lb (7.48 kg)	72 in (183 cm)	46.5 in (118 cm)	Black (shown)
5320-10-BLK	Quick Clamp	Round / Flat	16.50 lb (7.48 kg)	72 in (183 cm)	46.5 in (118 cm)	Black
5420-11-ORG	Twist Lock	Round / Flat	16.50 lb (7.48 kg)	72 in (183 cm)	46.5 in (118 cm)	Orange
5420-11-BLK	Twist Lock	Round / Flat	16.50 lb (7.48 kg)	72 in (183 cm)	46.5 in (118 cm)	Black

Crain Square Leg Aluminum Tripods

Heavy-duty aluminum square leg tripods offer stability and accuracy



FEATURES & BENEFITS

- ▶ These tripods come equipped with square outer dowels for a more secure lock
- ▶ They're built to last—with heavy construction throughout—and are designed to withstand rigorous field conditions
- ▶ Quick Clamp and Twist Lock models are available with flat heads
- ▶ These tripods are equipped with a 5/8 x 11 threaded adapter for convenient mounting of instruments

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, or total stations



PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5301-30-BLK	Quick Clamp	Aluminum (Square)	10.10 lb (4.58 kg)	67 in (1.70 m)	Triangle/Flat	Black
5301-30-ORG	Quick Clamp	Aluminum (Square)	10.10 lb (4.58 kg)	67 in (1.70 m)	Triangle/Flat	Orange
5401-30-BLK	Twist-Lock	Aluminum (Square)	10.10 lb (4.58 kg)	67 in (1.70 m)	Triangle/Flat	Black
5401-30-ORG	Twist-Lock	Aluminum (Square)	10.10 lb (4.58 kg)	67 in (1.70 m)	Triangle/Flat	Orange
5311-30-ORG	Quick Clamp	Aluminum (Square)	10.10 lb (4.58 kg)	67 in (1.70 m)	Dome	Orange

Crain Round Leg Aluminum Tripods

Sturdy and lightweight tripods for many applications



FEATURES & BENEFITS

- ▶ These tripods accommodate 5/8 x 11 instruments and are designed for all types of jobs
- ▶ Choices include: Flat or dome head, standard, elevator or mini tripod size
- ▶ The telescopic legs allow for setup at various heights and are available with orange or black hardware (on some models)

APPLICATIONS

- ▶ Ideal for mounting theodolites, lasers, auto levels, or total stations



PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5301-20-ORG	Quick Clamp	Aluminum (Round)	10.20 lb (4.63 kg)	66 in (1.70 m)	Triangle/Flat	Orange
5301-20-BLK	Quick Clamp	Aluminum (Round)	10.20 lb (4.63 kg)	66 in (1.70 m)	Triangle/Flat	Black
5301-27-ORG	Quick Clamp	Aluminum (Round)	7.00 lb (3.18 kg)	65 in (1.60 m)	Triangle/Flat	Orange
5301-27-BLK	Quick Clamp	Aluminum (Round)	7.00 lb (3.18 kg)	65 in (1.60 m)	Triangle/Flat	Black
5401-20-ORG	Twist-Lock	Aluminum (Round)	10.20 lb (4.63 kg)	66 in (1.70 m)	Triangle/Flat	Orange
5401-20-BLK	Twist-Lock	Aluminum (Round)	10.20 lb (4.63 kg)	66 in (1.70 m)	Triangle/Flat	Black
5401-23-BLK	Twist Lock	Aluminum (Round)	6.70 lb (3.03 kg)	25.5 in (65 cm)	Triangle/Flat	Black
5311-20-ORG	Twist-Lock	Aluminum (Round)	10.20 lb (4.63 kg)	66 in (1.70 m)	Dome	Orange

Crain Aluminum Elevator Tripods

Locking leg stabilizers provide greater stability



FEATURES & BENEFITS

- ▶ Aluminum elevator tripods have smooth operating adjustable center columns
- ▶ The 5321-16-BLK model features a built-in circular vial in the instrument head and safety chains on the legs prevent slipping on hard surfaces
- ▶ The 5321-18-BLK model is a lighter weight Elevator Tripod version that features a flat 36 mm head and an elevator column that extends 15.75 in
- ▶ Black hardware on both tripods
- ▶ Both models feature tough kick-in cleats and points

APPLICATIONS

- ▶ Ideal for lasers, scanners machine control or other instruments



PART NO.	LOCK TYPE	HEAD	EXTENDS	COLLAPSES	WEIGHS
5321-16-BLK	Quick Clamp	Elevator/Round	7.60 ft (2.3 m)	4.26 ft (1.26 m)	16.30 lb (7.39 kg)
5321-18-BLK	Quick Clamp	Elevator/Flat 36 mm	67 in (170 cm)	34 in (86 cm)	7.35 lb (3.30 kg)

230 mm Scanner Sphere

Faster target setups and easy mounting creates a perfect solution for scanners



FEATURES & BENEFITS

- ▶ Lightweight aluminum scanner sphere
- ▶ 230 mm diameter, accuracy < 2 mm
- ▶ Female 5/8 x 11 threaded mounting
- ▶ Painted non-glare white
- ▶ Center height is 114 mm from bottom flat
- ▶ See more 230 mm scanner sphere accessories on page 44
- ▶ Weighs 2.70 lb (1.22 kg)

6704-001 — 230 mm Scanner Sphere

APPLICATIONS

- ▶ Laser scanners



100 mm Scanner Sphere with Magnet

New 100 mm lightweight sphere



FEATURES & BENEFITS

- ▶ 100 mm lightweight aluminum sphere
- ▶ 100 mm OD roundness < 1 mm
- ▶ 1/4 x 20 threaded mounting
- ▶ Painted non-glare white
- ▶ Ceramic 8 magnet
- ▶ Steel cup OD 2.03 inches
- ▶ Stainless steel 1/4 x 20 stud
- ▶ Magnet is chrome coated steel cup and offers 40 pull pounds
- ▶ See more products from the 6703-Series on page 44 and 45
- ▶ Weighs 0.80 lb (0.36 kg)

6703-10 — 100 mm Scanner Sphere with Magnet

APPLICATIONS

- ▶ Laser scanners



152.4 mm Omnidirectional EMF Scanner Targets

Coated with EMF type shell that prevents beam penetration



FEATURES & BENEFITS

- ▶ SECO's improved Laser Scanner Target is a 152.4 mm (6 inch) diameter, precision round (< 1 mm), polyester sphere, compatible with all laser scanners
- ▶ Target is painted with a special conductive paint, creating a metallic or EMF type shell that prevents beam penetration
- ▶ This omnidirectional target allows control shots from several locations with out moving the target setup
- ▶ Increases scan accuracy
- ▶ Used with standard survey grade tribrach adapters with 5/8 x 11 threads, no accessories are needed
- ▶ The 6701-00 comes equipped with a female 5/8 x 11 adaptor giving the target a 150 mm center height
- ▶ The 6701-01 includes a magnetic base and 92.5 mm center height
- ▶ The magnetic base model allows attachment to any location on structures that are made of ferrous metals like steel and iron
- ▶ Weighs 4.10 lb (1.86 kg)

6701-00 — EMF Scanner Target with Female 5/8 x 11 Adapter
6701-01 — EMF Scanner Target with Magnet

APPLICATIONS

- ▶ Laser scanners



230 mm Sphere Adapters, Cases and Accessories

- ▶ 3-7/8 inch diameter housing
- ▶ 3-1/2 inch ceramic grade 5 magnet
- ▶ 120 pounds of pull force
- ▶ Stainless steel 5/8 x 11 stud
- ▶ Height is 21 mm
- ▶ Weighs 0.95 lb (0.43 kg)



6704-002 — Magnet with 5/8 x 11 Stud

- ▶ Anodized aluminum body
- ▶ Male and female 5/8 x 11 threads
- ▶ Height is 21 mm
- ▶ Center height is 135 mm with 230 mm Sphere (6704-001)
- ▶ Weighs 0.05 lb (0.02 kg)



6704-003 — 21 mm Male and Female 5/8 x 11 Adapter

- ▶ Anodized aluminum body
- ▶ Male and female 5/8 x 11 threads
- ▶ Height is 48 mm
- ▶ Center height is 196 mm with 230 mm Sphere (6704-001) and Tribrach Adapter (2070-00)
- ▶ Weighs 0.10 lb (0.04 kg)



6704-004 — 48 mm Male and Female 5/8 x 11 Adapter

- ▶ 25 mm silver-coated prism
- ▶ -17.5 mm offset and adjustable 40 minute vial
- ▶ Center height is 135 mm with the fixed adapter
- ▶ Center height is 135 mm with the rotating adapter and Magnet (6704-002)
- ▶ Kit includes padded carrying case
- ▶ Prism weighs 0.80 lb (0.36 kg)
- ▶ Kit weighs 1.70 lb (0.77 kg)



6704-012 — 135 mm HT 25 mm Prism Assembly Kit

- ▶ Includes three 230 mm scanner spheres in a hard case
- ▶ Includes cover bag for each sphere for insulation and scratch protection
- ▶ Airline approved shipping case
- ▶ Weighs 17.60 lb (7.98 kg)



6704-10 — Hard Case and Three 230 mm Scanner Spheres

- ▶ Includes six 230 mm scanner spheres in a hard case
- ▶ Includes cover bag for each sphere for insulation and scratch protection
- ▶ Airline approved shipping case
- ▶ Weighs 32.10 lb (14.56 kg)



6704-11 — Hard Case and Six 230 mm Scanner Spheres

- ▶ Adapter fits all tribrachs
- ▶ Height is 34 mm
- ▶ Center height is 196 mm with 48 mm adapter (6704-004) and 230 mm sphere (6704-001)
- ▶ Weighs 1.75 lb (0.80 kg)



2070-00 — Rotating Swiss-Style Tribrach Adapter

- ▶ Designed to hold on to pipes or flat metal surfaces
- ▶ 132.20 pounds (60.00 kg) of pull force
- ▶ Height is 57.5 mm
- ▶ Center height is 171.5 mm with 230 mm Sphere (6704-001)
- ▶ Weighs 2.15 lb (0.98 kg)



5114-052 — Switchable Kelly Magnet Mount

- ▶ 3/8 x 16 stainless steel male stud
- ▶ Three prong tribrach interface connection
- ▶ Height is 60.5 mm
- ▶ Height to target with the TX5/FARO3D achieves 196 mm
- ▶ Weighs 1.35 lb (0.61 kg)



6703-011 — 196 mm HT Tribrach Adapter for TX5/FARO3D

Quick-Release Adapter for TX5 and 3D Scanners

Provides smooth rotation when changing instrument directions



FEATURES & BENEFITS

- ▶ SECO is pleased to offer a new "Quick Release Adapter" specifically for Trimble TX5 and Faro Focus 3D scanners
- ▶ Quick and safe connection between the scanner instrument and a Gitzo or any tripod with a male 3/8 x 16 thread
- ▶ Rotates smoothly on Delrin® bearing for orientating the instrument
- ▶ Clamp screw is captured and protected from damage
- ▶ Built-in 100-minute level vial on base
- ▶ Base has a setscrew to lock base to tripod head
- ▶ Anodized aluminum and stainless steel materials
- ▶ Weighs 0.70 lb (0.32 kg)

6703-015 — Quick Release Adapter for Trimble TX5 and Faro Focus 3D

APPLICATIONS

- ▶ Quick, easy, and safe method to connect and disconnect the scanner to a tripod
- ▶ Extra protection for your scanner



100 mm Sphere Prisms, Adapters, Magnets and Kits

- ▶ 100 mm OD lightweight aluminum sphere
- ▶ Precision design, allowable deviation < 1 mm
- ▶ Female 1/4 x 20 threaded mounting
- ▶ Center height is 49 mm for bottom flat
- ▶ Painted non-glare white
- ▶ Weighs 0.60 lb (0.27 kg)



6703-001 — 100 mm Scanner Sphere

- ▶ Stainless steel 1/4 x 20 stud
- ▶ Chrome-plated steel cup
- ▶ 2.03 inch OD steel cup
- ▶ Grade 8 ceramic magnet
- ▶ 40 pounds of pull force
- ▶ Weighs 0.20 lb (0.09 kg)



6703-002 — Magnet with 1/4 x 20 Stud

- ▶ 1/4 x 20 stainless steel male stud
- ▶ 5/8 x 11 female connection
- ▶ Height is 23.5 mm
- ▶ Height to target with 100 mm sphere achieves 72.5 mm
- ▶ Weighs 0.05 lb (0.02 kg)



6703-005 — 5/8 x 11, 72.5 mm HT Adapter

- ▶ 25 mm silver-coated prism
- ▶ -17.5 mm offset
- ▶ Length is 72.5 mm prism center to connections
- ▶ 5/8 x 11 female and magnetic connection
- ▶ Weighs 0.75 lb (0.34 kg)



6703-012 — 72.5 HT Prism Assembly with Magnet

- ▶ Rubber tips on stainless-steel legs prevent scratching of delicate surfaces
- ▶ Folding legs make tripod very portable
- ▶ Made of anti-corrosive materials
- ▶ Steel-plated washer atop tripod easily attaches to scanner sphere
- ▶ Height is 39 mm
- ▶ Weighs 0.15 lb (0.07 kg)



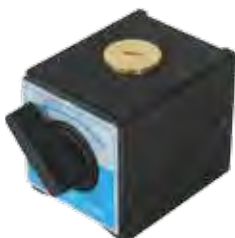
6703-008 — Scanner Sphere Mini Tripod

- ▶ 6703-20 includes six 100 mm scanner spheres and six magnets with 1/4 x 20 studs
- ▶ 8082-01-ORG offers six padded compartments (for 100 mm spheres, sold separately)
- ▶ Made from 1000D Cordura with 2 inch padded foam and includes a carrying handle
- ▶ Stow-able straps (cases can connect together)
- ▶ Dimensions: 16 x 11 x 8 in (40.64 x 27.94 x 20.32 cm)
- ▶ 6703-20 weighs 6.60 lb (3.00 kg)
- ▶ 8082-01-ORG weighs 2.00 lb (0.91 kg)



6703-20 — 6 piece 100 mm Sphere Kit includes Soft Case 8082-01-ORG — Soft Case for 100 mm Scanner Spheres

- ▶ Brass washers centers to 6703-002 magnet base connection
- ▶ 90 pounds of pull force
- ▶ Connects to pipes and flat surfaces
- ▶ Weighs 0.90 lb (0.41 kg)



6703-013 — V-Base with Washer Magnet

- ▶ Easy to use "on/off" switch for attaching to glass or flat slick surfaces
- ▶ Wide 3 1/4 inch rubber suction surface
- ▶ Male 1/4 x 20 stud for attaching scanner sphere to other female 1/4 x 20 devices
- ▶ Height is 48 mm
- ▶ Weighs 0.20 lb (0.09 kg)



6703-019 — Suction Cup with 1/4 x 20 Stud

- ▶ Pelican® hard shell case features custom foam keeping spheres, prisms, adapters, etc., safe and secure
- ▶ 6703-11 includes ten 100 mm scanner spheres and ten magnets with 1/4 x 20 studs
- ▶ Dimensions: 24.5 x 19 x 9 in (62.3 x 48.3 x 22.9 cm)
- ▶ 6703-11 weighs 22.00 lb (10.00 kg)
- ▶ 6703-014 weighs 14.00 lb (6.36 kg)



6703-11 — 10 piece 100 mm Sphere Kit includes Hard Case 6703-014 — Pelican Case for 100 mm Spheres (spheres sold separately)

- ▶ 1/4 x 20 stainless steel male stud
- ▶ Female 12 mm Quick Release connection
- ▶ Height is 37 mm
- ▶ Height to target with 100 mm sphere achieves 86 mm
- ▶ Weighs 0.10 lb (0.05 kg)



6703-004 — 86 mm HT Quick Release Adapter

- ▶ Compatible with the TX5
- ▶ Width is 3.12 in (79.3 mm)
- ▶ Height is 34 mm
- ▶ Weighs 1.75 lb (0.80 kg)



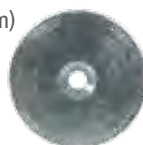
2070-02 — 3/8 x 16 Tribrach Adapter

- ▶ 1/4 x 20 stainless steel male stud
- ▶ 5/8 x 11 female connection
- ▶ Height is 86 mm
- ▶ Height to target with 100 mm sphere achieves 135 mm
- ▶ Weighs 0.25 lb (0.11 kg)



6703-003 — 5/8 x 11, 135 mm HT Adapter

- ▶ Zinc-plated steel material
- ▶ 1.90 in (48.26 mm) in diameter
- ▶ Thickness is 0.098 in (2.5 mm)
- ▶ 0.24 in (6 mm) countersink hole connection
- ▶ Weighs 0.05 lb (0.02 kg)



6703-007 — Wall Washer Adapter

- ▶ 1/4 x 20 stainless steel male stud
- ▶ 5/8 x 11 female connection
- ▶ Height is 113 mm
- ▶ Height to target with 100 mm sphere (6703-001) and Tribrach Adapter (2070-00) achieves 196 mm
- ▶ Weighs 0.35 lb (0.16 kg)



6703-006 — 5/8 x 11, 196 mm HT Adapter

Leveling Rod Accessories

- ▶ Use with aluminum leveling rods
- ▶ Weighs 0.50 lb (0.23 kg)



7321-050 — Leveling Rod Vial

- ▶ These replacement rod buttons fit on SECO aluminum leveling rods



70014-6 — Round 17 mm
70014-7 — Round w/ Metal Ring - 13 mm

- ▶ Adapt the thread size to 5/8 x 11 for mounting prisms on the LR's female adapter
- ▶ Weighs 0.20 lb (0.09 kg)



91133 — 5/8 x 11 Double Male Prism Adapter

- ▶ USL/SVR Hook



91275 — USL/SVR Hook

- ▶ Swiss-Style Prism Adapter



91259 — Swiss-style Prism Adapter

- ▶ 6-inch long caliper for SVR/Oval rods and CMR ruler



91014 — 6-inch Caliper for SVR/Oval Rods and CMR Ruler

- ▶ Snap-Tite® SVR Rod



91255 — Snap-Tite SVR Rod Level

- ▶ Snap-Tite CR Rod Level



91535 — Snap-Tite CR Rod Level

- ▶ The Leveling Plates (or Turtles as they are commonly known) are cast heavy steel and red powder painted for durability
- ▶ Use to improve the accuracy of level runs in soft terrain
- ▶ Other quality features include chrome plating on the dome, carrying handle and ground points



- ▶ 5/8 x 11 Prism Mounting Adapter Kit



91258 — 5/8 x 11 Prism Mounting Adapter Kit

PART NO.	DIAMETER	DIAMETER OF HALF BALL	HEIGHT OF HALF BALL	HEIGHT OF FOOT TO TOP HALF BALL	WEIGHS
7304-00	7.09 in (18 cm)	1.46 in (3.7 cm)	0.98 in (2.5 cm)	3.07 in (7.8 cm)	11.02 lb (5.00 kg)
7304-01	5.51 in (14 cm)	1.81 in (3.0 cm)	0.79 in (2.0 cm)	2.60 in (6.6 cm)	4.41 lb (2.00 kg)
7304-02	5.12 in (13 cm)	1.81 in (3.0 cm)	0.79 in (2.0 cm)	2.17 in (5.5 cm)	2.20 lb (1.00 kg)

- ▶ This 6.5 ft nylon-coated tape is ideal for foundation work, grading, swimming pools and construction
- ▶ Easy-to-read numbers printed on both sides
- ▶ The blade also features a built-in target



7321-00 — 6.5 ft Pocket Rod - inches
7301-00 — 6.5 ft Pocket Rod - 10ths

- ▶ This bipod features a special head that will hold a rectangular rod
- ▶ The head will fit rods with widths between 1.57 and 2.56 inches
- ▶ Available in red, yellow or flo yellow and flo orange (shown)



5217-21-FOR — Leveling Rod Thumb Release Bipod

- ▶ This bipod features a special head that will hold a rectangular rod
- ▶ The head will fit rods with widths between 2.95 and 3.54 inches
- ▶ Available in red, yellow or flo yellow (shown)



5217-20-FLY — Invar Rod Thumb Release Bipod

Aluminum Builder's Rods

Light and durable anodized leveling rods



FEATURES & BENEFITS

- ▶ These aluminum leveling rods are made of a light and durable alloy
- ▶ The telescopic sections are anodized and silk-screened with moisture-resistant ink
- ▶ Each rod section uses sturdy polycarbonate buttons that lock each section when extended; the height gauge is on the back side
- ▶ Each rod includes a special level and protective bag

PART NO.	SECTIONS	LENGTH	GRADS	WEIGHS
7321-30	3	9 ft, 9.5 in	inches	2.40 lb (1.10 kg)
7301-30	3	9.8 ft	10ths	2.40 lb (1.10 kg)
7341-30	3	3 m	5 mm	2.40 lb (1.10 kg)
7321-40	4	13 ft, 1.38 in	inches	3.10 lb (1.40 kg)
7301-40	4	13.12 ft	10ths	3.10 lb (1.40 kg)
7341-40	4	4 m	5 mm	3.10 lb (1.40 kg)
7321-50	5	16 ft, 4.75 in	inches	3.50 lb (1.60 kg)
7301-50	5	16.4 ft	10ths	3.50 lb (1.60 kg)

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work



**Lightweight
Cut and Fill Rod**

Lightweight and easy to use



FEATURES & BENEFITS

- ▶ The red section is a 'Cut' value from grade with a range of 19 in (0.48 m)
- ▶ The clear lower section is a 'Fill' value from grade with a range of 26 in (0.66 m)
- ▶ The rods collapse to 2 ft 8 in (0.81 m) and extend to 6 ft 2 in (1.88 m)
- ▶ End to end the collapsed length is 4 ft 3.50 in (1.31 m)
- ▶ These feature a graduated telescoping bottom section that locks in place with a durable metal clamp screw
- ▶ The sliding laser receiver bracket works with all laser receivers using standard rod clamps
- ▶ Features a built-in circular vial in the rod

7310-10 — Cut and Fill Rod - Graduated in cm/mm
 7310-11 — Cut and Fill Rod - Graduated in inches/8ths
 7310-12 — Cut and Fill Rod - Graduated in 10ths/100ths

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work

**Surveyor's Series (SVR)
Leveling Rods**

Waterproof and wear-resistant



FEATURES & BENEFITS

- ▶ Features a new shorter collapsed length (58.5 inches on 25 ft versions) and a lighter weight
- ▶ A tight locking mechanism features round buttons that resist jamming from sand and dirt
- ▶ Constructed of strong, rigid fiberglass with reinforcing ribs for added stability
- ▶ Includes a 1/4 x 20 female adapter in top section
- ▶ Also includes carrying case
- ▶ Waterproof and non-conductive

PART NO.	LENGTH	GRADS	WEIGHS
98010	25 ft	10 ths	6.00 lb (2.72 kg)
98011	25 ft	8ths	6.00 lb (2.72 kg)
98012	7.6 m	0.5 cm metric	6.00 lb (2.72 kg)
98013	7.6 m	'E' metric	6.00 lb (2.72 kg)
98014	7.6 m	Philly metric	6.00 lb (2.72 kg)
98015	25 ft	8ths/10ths	6.00 lb (2.72 kg)
98016	25 ft/7.6 m	10ths/Philly metric	6.00 lb (2.72 kg)
98017	25 ft	10ths/10ths	6.00 lb (2.72 kg)
98020	17 ft	10ths	5.00 lb (2.27 kg)
98021	17 ft	8ths	5.00 lb (2.27 kg)
98023	5.18 m	'E' metric	5.00 lb (2.27 kg)
98024	5.18 m	Philly metric	5.00 lb (2.27 kg)
98025	17 ft	8ths/10ths	5.00 lb (2.27 kg)
98026	17 ft (5.18 m)	10ths/Philly metric	5.00 lb (2.27 kg)

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work



**SVR Brackets
for Laser Receivers**

Easily attaches to SVR rods



FEATURES & BENEFITS

- ▶ Brackets are needed to attach laser sensors to the SVR rod
- ▶ Top or side brackets are available for all popular laser receiver models

PART NO.	MOUNT TYPE	DESIGNED FOR
91100	Top	Universal
91108	Top	Topcon LS-03
91110	Top	Laser Align Rod Eye Pro
91111	Top	Spectra Precision HR500
91162	Top	Storm® HL700/750/450
91156	Side	Apache Lightning 2
91163	Side	Storm HL700/750/450

APPLICATIONS

- ▶ Use with an SVR rod to mount your laser receiver



Rectangular Series (CR) Leveling Rods

Rounded back corners for better gripping



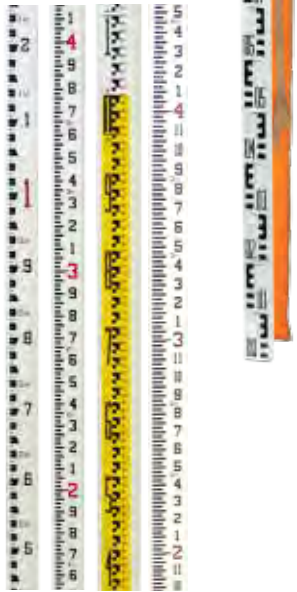
Rectangular shape allows for laser detectors to be mounted directly to the rod - no bracket required!

FEATURES & BENEFITS

- ▶ The CR Series Leveling Rod incorporates many features including a rectangular shape with rounded back corners for better gripping
- ▶ Scale width is graduated to fill the entire face of the rod and measuring scale on the back side that allows for overall height readings
- ▶ Made with strong fiberglass which is waterproof and corrosion-resistant
- ▶ For laser detector mounting with no special brackets required
- ▶ Non-conductive
- ▶ Features 1/4 x 20 female adapter in the top section
- ▶ Carrying case is included (replacement can be purchased separately)

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work

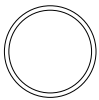


PART NO.	LENGTH	GRADS	WEIGHS
92001	8 ft	10ths	3.00 lb (1.36 kg)
92002	8 ft	inches	3.00 lb (1.36 kg)
92021	13 ft	10ths	5.00 lb (2.26 kg)
92022	13 ft	inches	5.00 lb (2.26 kg)
92041	16 ft	10ths	6.00 lb (2.72 kg)
92042	16 ft	inches	6.00 lb (2.72 kg)
92031	20 ft	10ths	7.00 lb (3.17 kg)
92032	20 ft	inches	7.00 lb (3.17 kg)
92003	2.4 m	Philly metric	3.00 lb (1.36 kg)
92026	4.0 m	'E' metric	5.00 lb (2.26 kg)
92027	4.0 m	0.5 cm metric	5.00 lb (2.26 kg)
92023	4.0 m	Philly metric	5.00 lb (2.26 kg)
92046	5.0 m	'E' metric	6.00 lb (2.72 kg)
92047	5.0 m	0.5 cm metric	6.00 lb (2.72 kg)
92048	5.0 m	British 'E' metric	6.00 lb (2.72 kg)
92043	5.0 m	Philly metric	6.00 lb (2.72 kg)



Standard Series (LR) Leveling Rods

Round rod is easy to handle



Round design makes the LR Series rods a good choice for certain applications like in areas of high wind.

FEATURES & BENEFITS

- ▶ The LR Series leveling rods are round and easy to handle
- ▶ The LR-STD is available in a 25 ft model in 10ths, inches, and 0.5 cm metric scales
- ▶ The LR-PRO is larger in diameter so sturdier and easier to read
- ▶ The LR-PRO leveling rod is available in 25 ft, 35 ft and 45 ft lengths in feet/10ths/100ths
- ▶ Carrying case is included (replacement can be purchased separately)

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work



PART NO.	LENGTH	OD	GRADS	WEIGHS
90004	LR-STD 25 ft	1-5/8 inch	10ths	5.00 lb (2.26 kg)
90009	LR-STD 25 ft	1-5/8 inch	inches	5.00 lb (2.26 kg)
90014	LR-STD 7.6 m	1-5/8 inch	metric	5.00 lb (2.26 kg)
90022	LR-PRO 25 ft	2 inch	10ths	7.00 lb (3.17 kg)
90024	LR-PRO 35 ft	2-3/16 inch	10ths	9.00 lb (4.08 kg)
90026	LR-PRO 45 ft	2-3/16 inch	10ths	10.00 lb (4.53 kg)



Traditional-Style DE Rods

High-quality standard or laser-ready bold face and cut & fill elevation rods



FEATURES & BENEFITS

- ▶ These DE Rods extend 10 feet (3 m) and retract to 5.4 feet (1.6 m)
- ▶ Graduated, continuous tape faces (10ths/100ths) come in two styles: Bold Face and Cut and Fill and are constructed of stainless steel or UV-protected PVC material
- ▶ The rods are made of ash and aluminum
- ▶ Laser DE rods feature a side rail for connecting an optional bracket for a laser receiver

APPLICATIONS

- ▶ Use with a Spectra Precision laser transmitter and receiver to achieve accurate elevation readings



PART NO.	TYPE	LASER RECEIVER RAIL	TAPE FACE	WEIGHS
7502-20	Aluminum	No	Bold Face	5.43 lb (2.50 kg)
7602-20	Aluminum	No	Cut & Fill	5.43 lb (2.50 kg)
7502-21	Ash/Aluminum	Yes	Bold Face	7.00 lb (3.20 kg)
7602-21	Ash/Aluminum	Yes	Cut & Fill	7.00 lb (3.20 kg)

Receiver Brackets for Laser DE Rods

Metal laser receiver brackets for Laser DE Rods



FEATURES & BENEFITS

- ▶ The high-quality, all-metal bracket fit both the ash/aluminum and aluminum Laser DE Rods
- ▶ Constructed of anodized aluminum and brass, the bracket is designed for years of field service

APPLICATIONS

- ▶ Use with a Laser DE Rod and your laser receiver for quick and accurate elevation readings



PART NO.	FOR ROD TYPE	DESIGNED TO FIT
5079-038	All	Topcon LS-30, LS-50, LS-70, LS-80
5079-055	All	Spectra Physics 1275 / Apache 34, 44 / Laser Reference R8
5079-058	All	Apache 64 / Laser Alignment Rod-Eye Pro
5079-069	All	Spectra Precision HR350/Rod-Eye Plus
5079-070	All	Storm, HL450/HL700/HL750/Rod Eye Digital
5079-071	All	Leica Rod Eye Basic, Thunder 56

'E' Pattern Builder's Rods

Dual-sided lightweight rod



FEATURES & BENEFITS

- ▶ Features a standard 'E' pattern
- ▶ Lightweight aluminum sections are in contrasting white, red and black colors and have round spring-loaded locking buttons
- ▶ Graduations are cm on the front
- ▶ Height scale is in millimeters on the back
- ▶ 7341-45 and -55 models have a standard scale on the back
- ▶ Includes a level vial and case

APPLICATIONS

- ▶ Grading
- ▶ Masonry
- ▶ Site work
- ▶ Forms
- ▶ Landscaping
- ▶ Foundations
- ▶ Sewers
- ▶ Slab work



PART NO.	LENGTH	GRADS	WEIGHS
7341-31	3 m	cm	2.40 lb (1.10 kg)
7341-35	3 m	mm	2.40 lb (1.10 kg)
7341-41	4 m	cm	3.10 lb (1.40 kg)
7341-45	4 m	mm	3.10 lb (1.40 kg)
7341-51	5 m	cm/mm	3.80 lb (1.73 kg)
7341-52	5 m	cm/inches	3.80 lb (1.73 kg)
7341-55	5 m	cm/mm	3.80 lb (1.73 kg)

SubSurface Handheld Magnetic Locators

Built by the team with the most experience in the industry



FEATURES & BENEFITS

- ▶ Both models come with an industry exclusive 7 year warranty
- ▶ Choose the standard model or the LCD meter model
- ▶ Tube-through construction ensures strength and durability from the bottom tip to the handle
- ▶ Overall length: 38.75 in (98.4 cm)
- ▶ The system comes with a padded carrying bag and four alkaline 9-volt batteries — two to use and two spares
- ▶ Hard-shell case is impact resistant ABS plastic construction (ML-1-050, sold separately)
- ▶ Weighs 2.00 lb (0.91 kg)

APPLICATIONS

- ▶ Perfect for locating survey corner markers, PK and Mag Nails, valve and covers, steel and iron pipes, well casings, steel tanks, lost tools or even downed and buried fence lines

ML-1 — SubSurface Handheld Magnetic Locators Standard Model
 ML-1M — SubSurface Handheld Magnetic Locators With LCD Meter
 ML-1-050 — Hard Shell Case for Locators



SubSurface Waterproof Magnetic Locators

Built by the team with the most experience in the industry



Close up of four-button keypad and LCD monitor

FEATURES & BENEFITS

- ▶ Features include 'Zero Adjust' that compensates for 'magnetic gradient' in the soil
- ▶ Single narrow LCD monitor is built into the four-button keypad and features a bar graph that expands according to signal strength
- ▶ A '+' or '-' illuminates above the graph to indicate polarity
- ▶ 100% waterproof - tube pressure tested to depths up to 200 ft
- ▶ The SSI computer microprocessor retains volume and gain settings from last use
- ▶ Detects buried ferrous metal objects at depths up to 8 feet
- ▶ Sturdy tube-through-construction ensures stability and long life
- ▶ Includes soft carrying/storage case with carrying straps and inside pocket for spare 9-volt batteries
- ▶ Both models have 7 year warranty

APPLICATIONS

- ▶ Perfect for locating survey corner markers, PK and Mag Nails, valve and covers, steel and iron pipes, well casings, steel tanks, lost tools or even downed and buried fence lines

PART NO.	OVERALL LENGTH	BATTERY LIFE	WEIGHT
ML-3SY	40 in (1 m)	60 hours	1.80 lb (0.80 kg)
ML-3LY	55 in (1.4 m)	60 hours	2.80 lb (1.30 kg)



1X and 2X Magnification Hand Levels

Features brass bodies, non-glare internal finish, high-visibility neon yellow vials, and 3 line mirrors

- ▶ Features brass bodies, a non-glare internal finish, high-visibility neon yellow vials, and three-line mirrors
- ▶ 5 inch (127 mm) 1X hand level extends to 7 inches (178 mm)
- ▶ External vial is easily replaced in the field
- ▶ Case included
- ▶ Weighs 0.30 lb (0.14 kg)



4040-05 — 5 to 7 inch, 1X External Vial

- ▶ Features brass bodies, a non-glare internal finish, high-visibility neon yellow vials, and 3-line mirrors
- ▶ Economically priced hand level
- ▶ 5 inch (127 mm) 1X level has an external vial that is easily replaced in the field
- ▶ Case included
- ▶ Weighs 0.30 lb (0.14 kg)



4040-60 — 5 inch, 1X External Vial

- ▶ The Abney level is ideal for preliminary survey or landscaping, where the determination of slope, angle and percentage is required
- ▶ Measures 5.25 inches in length
- ▶ Weighs 0.15 lb (0.07 kg)



4050-01 — Abney Hand Level

- ▶ Features brass bodies, a non-glare internal finish, high-visibility neon yellow vials, and 3-line mirrors
- ▶ The 2X model is a heavy-duty 5 inch (127 mm) hand level that extends to 7 inches (178 mm)
- ▶ External vial is easily replaced in the field
- ▶ Case included
- ▶ Weighs 0.35 lb (0.16 kg)



4040-30 — 5 to 7 inch, 2X External Vial

- ▶ Features brass bodies, a non-glare internal finish, high-visibility neon yellow vials, and three-line mirrors
- ▶ 2X model is a heavy-duty, 5 inch (127 mm) hand level that extends to 7 inches (178 mm)
- ▶ Features an enclosed vial
- ▶ Case included
- ▶ Weighs 0.40 lb (0.18 kg)



4300-00 — 5 to 7 inch, 2X Internal Vial

- ▶ Features brass bodies, a non-glare internal finish, high-visibility neon yellow vials, and three-line mirrors
- ▶ 2X hand level is the industry standard hand level
- ▶ The 6 inch (152 mm) level extends to 7 inches (178 mm) and has an enclosed vial
- ▶ Case included
- ▶ Weighs 0.40 lb (0.18 kg)



4200-00 — 6 to 7 inch, 2X Internal Vial

- ▶ Made from padded Nylon Cordura is perfect for your level
- ▶ Measures 6.5 x 2.62 inches (16.5 x 6.66 cm)
- ▶ Weighs 0.05 lb (0.02 kg)



8030-00-CABLU — Hand Level Case

CMR Series Measuring Rulers and Cases

Designed for one-person measuring

- ▶ A versatile tool for fast, accurate, one-person measuring, the CMR Series is the tool for measuring heights, clearances and horizontal distances up to fifty feet
- ▶ The rod is equipped with a female 1/4 x 20 adapter in the top section
- ▶ Made of rugged, non-conductive fiberglass and comes with a carrying case and calliper tip



- ▶ These cases are made from the highest quality 1000-denier nylon
- ▶ Weighs 0.50 lb (0.22 kg)



91415 — 25 ft (4.6 m) CMR-25/Gopher Pole Carrying Case
Measures: 3.5 x 65 in
91416 — 36 ft (11 m) CMR-36 Carrying Case
Measures: 4.5 x 68 in
91417 — 50 ft (15.2 m) CMR-50 Carrying Case
Measures: 4.5 x 68 in

PART NO.	LENGTH	WEIGHT	OD
90180	25 ft / 7.6 m	5.00 lb (2.27 kg)	1-13/16 inch
90181	36 ft / 11 m	9.00 lb (4.08 kg)	2-7/32 inch
90182	50 ft / 15.2 m	12.00 lb (5.44 kg)	2-13/32 inch

Rhino Ruler Engineer's Folding Ruler

Rhino Ruler outlasts wood rulers four to one



FEATURES & BENEFITS

- ▶ Waterproof fiberglass construction prevents common problems that occur with wood rulers such as fading, splintering, and chipping
- ▶ Engraved graduations resist weather and scratches
- ▶ Easy-to-fold locking joints are tighter than traditional folding rulers made of wood allowing for a more accurate measurement along the ruler's length



4770-00 — Rhino Ruler Waterproof Fiberglass Engineer's Folding Ruler - 10ths/inches
4770-01 — Rhino Ruler Waterproof Fiberglass Engineer's Folding Ruler - 10ths/metric

APPLICATIONS

- ▶ General construction



Heavy-Duty Pocket Tape

Light weight measuring tools for all situations



FEATURES & BENEFITS

- ▶ Rubberized black and high visibility yellow case
- ▶ Positive thumb lock and release action
- ▶ Lengths vary from 12 ft to 33 ft
- ▶ Tape made from epoxy paint coated steel



PART NO.	LENGTH	WIDTH	GRADS
4769-00	25 ft	1 inch	10ths
4769-01	25 ft	1 inch	10ths/metric
4769-02	25 ft	1 inch	10ths/inches
4769-03	33 ft	1 inch	10ths
4769-04	33 ft	1 inch	10ths/in
4769-06	33 ft (10 m)	1 inch	10ths/metric
4769-12	12 ft	3/4 inch	10ths/inches
4769-13	12 ft (3.7 m)	3/4 inch	10ths/metric
4769-14	5 m	3/4 inch	mlcm/mm
4769-15	10 m	3/4 inch	mlcm/mm

APPLICATIONS

- ▶ General construction



Triangular Scale Tapes

Light weight measuring tools for all situations



FEATURES & BENEFITS

- ▶ The Engineer and Architect Scale Tapes are the new standard for scaling plans in the field or office
- ▶ One of the main problems with triangular rules is they cannot easily be taken out on a job site or carried in your pocket
- ▶ The Engineer Scale Tape has all of the 10, 20, 30, 40, 50, 60 scales you would find on a standard Engineer rule
- ▶ Included in the Architect Scale Tape you'll find the following scales: 16, 3, 1 1/2, 1, 1/2, 1/4, 1/8, 3/4, 3/8, 3/16, 3/32, and 1/16

APPLICATIONS

- ▶ Engineering and Architectural construction



9006-00 — Triangular Engineer Scale Tape
9006-01 — Triangular Architect Scale Tape

Coated Fiberglass and Steel Measuring Tapes

Great in all kinds of weather conditions



FEATURES & BENEFITS

- ▶ These coated tapes are designed to be used in the field for many years
- ▶ Single sided tape
- ▶ Choose between of PVC-coated fiberglass or nylon-coated steel tape
- ▶ Features a hook end and fast-winding crank

APPLICATIONS

- ▶ General construction

PART NO.	TYPE	LENGTH	GRADS
3003-03	PVC-Coated Fiberglass	200 ft	inches
3003-05	PVC-Coated Fiberglass	50 ft	10ths
3003-06	PVC-Coated Fiberglass	100 ft	10ths
3003-07	PVC-Coated Fiberglass	200 ft	10ths
3003-08	PVC-Coated Fiberglass	300 ft	10ths
3003-10	PVC-Coated Fiberglass	30 m	m/cm/mm
3003-12	PVC-Coated Fiberglass	60 m	m/cm/mm
3003-14	PVC-Coated Fiberglass	90 m	m/cm/mm
3003-15	PVC-Coated Fiberglass	100 ft	inches/10ths (Dual Grad)
3003-17	PVC-Coated Fiberglass	200 ft	inches/10ths (Dual Grad)
3006-03	Nylon-Coated Steel	200 ft	inches
3006-06	Nylon-Coated Steel	100 ft	10ths
3006-07	Nylon-Coated Steel	200 ft	10ths
3006-08	Nylon-Coated Steel	300 ft	10ths
3006-10	Nylon-Coated Steel	30 m	m/cm/mm
3006-11	Nylon-Coated Steel	60 m	m/cm/mm
3006-17	Nylon-Coated Steel	200 ft	inches/10ths (Dual Grad)
3006-18	Nylon-Coated Steel	200 ft/60 m	10ths/metric (Dual Grad)
3006-21	Nylon-Coated Steel	90 m	m/cm/mm



7 inch Wide Stream Gauges

Allows you to instantly see water levels



FEATURES & BENEFITS

- ▶ Stream Gauges allow you to instantly see water levels
- ▶ Features Ft/10ths graduations
- ▶ Gauges are available in successive increments to form ranges and elevations - 0.5 to 5.5 feet
- ▶ Fiberglass stream gauge are the best permanent marker in a variety of applications and environments
- ▶ Sturdy fiberglass assures a long life, it does not rot, rust or corrode
- ▶ Stream gauges are provided in separate units that can be used separately or combined for convenient measuring
- ▶ Easy to read at long distances, gauges are protected with a non-glare coating and are easy to mount
- ▶ Stainless steel fasteners are provided which will attach to most surfaces including metal, masonry, wood, and many other surface types
- ▶ 1/8 inch thick and the pre-drilled holes for mounting have a diameter of 1/4 inch
- ▶ Gauges may be ordered in successive increments to form ranges and elevations
- ▶ Number plates (sold separately) may be used to customize elevations for a particular application
- ▶ 7 inch wide Stream Gauges feature 2-1/4 inch tall numbers
- ▶ Each sections weighs 4.00 lb (1.81 kg)

APPLICATIONS

- ▶ Monitoring the water level of rivers, creeks, streams, bays etc.



Feet/10ths Graduations

PART NO.	LENGTH	GRADS
99079	0.5 - 5.5 ft	10ths/feet
99080	5.5 - 10.5 ft	10ths/feet
99081	10.5 - 15.5 ft	10ths/feet
99082	15.5 - 20.5 ft	10ths/feet
99083	20.5 - 25.5 ft	10ths/feet
99084	25.5 - 30.5 ft	10ths/feet



Un-Numbered Stream Gauges

Fasteners will attach to most surfaces

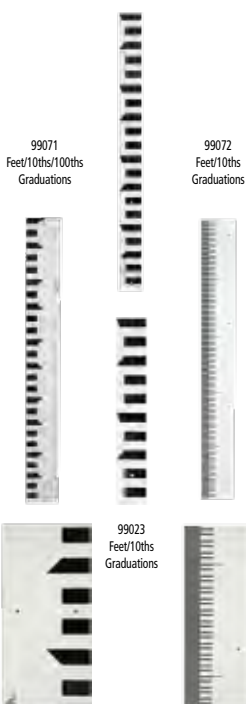


FEATURES & BENEFITS

- ▶ Stream Gauges allow you to instantly see water levels
- ▶ Fiberglass stream gauge are the best permanent marker in a variety of applications and environments
- ▶ Sturdy fiberglass assures a long life, it does not rot, rust or corrode
- ▶ Stream gauges are provided in separate units that can be used separately or combined for convenient measuring
- ▶ Easy to read at long distances, the gauges are protected with a non-glare coating and are easy to mount
- ▶ Stainless steel fasteners are provided which will attach to most surfaces including metal, masonry, wood, and many other surface types
- ▶ 1/8 inch thick and the pre-drilled holes for mounting have a diameter of 1/4 inch
- ▶ Gauges may be ordered in successive increments to form ranges and elevations
- ▶ Number plates (sold separately) may be used to customize elevations for a particular application
- ▶ Each section weighs 2.00 lb (0.91 kg)

APPLICATIONS

- ▶ Monitoring the water level of rivers, creeks, streams, bays etc.



PART NO.	WIDTH	GRADS	WEIGHS
99000	4 inch	feet/10ths/100ths	2.00 lb (0.91 kg)
99023	4 inch	feet/10ths	2.00 lb (0.91 kg)
99071	7 inch	feet/10ths/100ths	4.00 lb (1.81 kg)
99072	7 inch	feet/10ths	4.00 lb (1.81 kg)



4 inch Wide Stream Gauges

Sturdy fiberglass assures a long life, will not rust or corrode

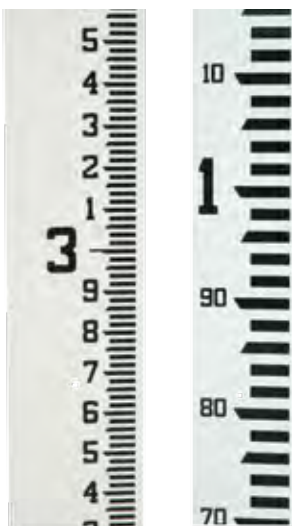


FEATURES & BENEFITS

- ▶ Stream Gauges allow you to instantly see water levels
- ▶ See below for your choice of feet/10ths/100ths or metric grads
- ▶ Gauges are available in successive 4 ft (1.22 m) increments to form ranges and elevations
- ▶ Fiberglass stream gauge are the best permanent marker in a variety of applications and environments
- ▶ Sturdy fiberglass assures a long life, it does not rot, rust or corrode
- ▶ Stream gauges are provided in separate units that can be used separately or combined for convenient measuring
- ▶ Easy to read at long distances, the gauges are protected with a non-glare coating and are easy to mount
- ▶ Stainless steel fasteners are provided which will attach to most surfaces including metal, masonry, wood, and many other surface types
- ▶ Stream Gauges are 1/8 inch (0.32 cm) thick and the pre-drilled holes for mounting have a diameter of 1/4 inch (0.64 cm)
- ▶ Gauges may be ordered in successive increments to form ranges and elevations
- ▶ Number plates (sold separately) may be used to customize elevations for a particular application
- ▶ 4 inch (10.2 cm) wide Stream Gauges feature 2 1/4 inch (5.72 cm) tall numbers
- ▶ Each sections weighs 2.00 lb (0.91 kg)

APPLICATIONS

- ▶ Monitoring the water level of rivers, creeks, streams, bays etc.



Feet/10ths/100ths Graduations

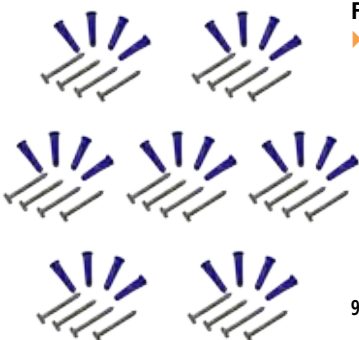
Metric/Decimeters/Centimeters Graduations

PART NO.	LENGTH	GRADS	WIDTH
99001	0 - 4 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99002	4 - 8 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99003	8 - 12 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99004	12 - 16 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99005	16 - 20 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99006	20 - 24 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99007	24 - 28 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99008	28 - 32 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99009	32 - 36 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99010	36 - 40 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99011	40 - 44 ft	Feet/10ths/100ths	4 inch (10.2 cm)
99051	0 - 1.22 m	m/dm/cm	10.2 cm (4 in)
99052	1.22 - 2.44 m	m/dm/cm	10.2 cm (4 in)
99053	2.44 - 3.66 m	m/dm/cm	10.2 cm (4 in)
99054	3.66 - 4.88 m	m/dm/cm	10.2 cm (4 in)
99055	4.88 - 6.10 m	m/dm/cm	10.2 cm (4 in)
99056	6.10 - 7.32 m	m/dm/cm	10.2 cm (4 in)



Mounting Hardware For Stream Gauges

Included with purchase of any Stream Gauge



FEATURES & BENEFITS

- ▶ Includes 7 sets of stainless steel screws and anchors
- ▶ Contains 14 each of screws and anchors packaged in packs of four

APPLICATIONS

- ▶ Monitoring the water level of rivers, creeks, streams, bays etc.

99043 — Mounting Hardware for Stream Gauges



24X Magnetic Dampened Auto Level and Packages

Easy-to-use 24X magnetic



FEATURES & BENEFITS

- ▶ This 24X auto level features a sturdy metal Japanese-style body with a magnetic dampened compensator
- ▶ Fits 5/8 x 11 flat or domed tripods
- ▶ The top cover plate is easily removed for adjustment
- ▶ Accurate to 1/16 inch per 100 feet (in good conditions)
- ▶ Includes carrying case

APPLICATIONS

- ▶ Two-person leveling across the job site
- ▶ Leveling forms and footers
- ▶ Checking elevation
- ▶ Measuring cut and fill

PART NO.	POWER/DAMPENING	TRIPOD	ROD
4811-24	24X Magnetic Dampened	No	None
4811-24P1	24X Magnetic Dampened	Yes	9 ft, inches/feet
4811-24P2	24X Magnetic Dampened	Yes	9 ft, 10ths/feet
4811-24P3	24X Magnetic Dampened	Yes	3 m, metric
4811-24P4	24X Magnetic Dampened	Yes	13 ft, inches/feet
4811-24P5	24X Magnetic Dampened	Yes	13 ft, 10ths/feet
4811-24P6	24X Magnetic Dampened	Yes	4 m, metric
4811-24P7	24X Magnetic Dampened	Yes	16 ft, inches/feet
4811-24P8	24X Magnetic Dampened	Yes	16 ft, 10ths/feet



32X Magnetic Dampened Auto Level and Packages

Easy-to-use 32X magnetic



FEATURES & BENEFITS

- ▶ This 32X auto level features a sturdy metal Japanese-style body with a magnetic dampened compensator
- ▶ Fits 5/8 x 11 flat or domed tripods
- ▶ The top cover plate is easily removed for adjustment
- ▶ Accurate to 1/16 inch per 100 feet (with good weather conditions)
- ▶ Includes carrying case

APPLICATIONS

- ▶ Two-person leveling across the job site
- ▶ Leveling forms and footers
- ▶ Checking elevation
- ▶ Measuring cut and fill

PART NO.	POWER/DAMPENING	TRIPOD	ROD
4811-32	32X Magnetic Dampened	No	None
4811-32P1	32X Magnetic Dampened	Yes	9 ft, inches/feet
4811-32P2	32X Magnetic Dampened	Yes	9 ft, 10ths/feet
4811-32P3	32X Magnetic Dampened	Yes	3 m, metric
4811-32P6	32X Magnetic Dampened	Yes	4 m, metric



Magnetic Dampened Auto Levels

Technical Specifications

SPECIFICATIONS	4811-24	4811-32
Magnification	24X	32X
Color	Red	Red
Objective Diameter	36 mm	42 mm
Field of View Angle	1° 20'	1° 20'
Shortest Focusing Distance	0.3 m	0.3 m
Standard Constant	100	100
Additive Constant	0	0
Compensator Range	±15'	±15'
Compensator Setting Accuracy	<0.5"	<0.5"
Double Run Leveling per 1 km	2 mm	1 mm
Circular Vial Accuracy	8/2 mm	8/2 mm
Horizontal Circle	1°	1°
Weight	3.97 lb (1.80 kg)	3.97 lb (1.80 kg)
Base Plate	5/8 x 11	5/8 x 11

Air or Magnetic Dampened Auto Level

Easy-to-use 24X optical auto-levels



FEATURES & BENEFITS

- ▶ Features 24X magnification
- ▶ Choice of magnetic or air dampened compensators
- ▶ Comes with an endless tangent drive, tilting mirror for easy viewing of the leveling vial and a peep sight collimator for quick pointing
- ▶ Removable top cover makes access to the compensator easy
- ▶ Accurate to 1/16 inch per 100 feet (in good weather conditions)
- ▶ Includes a high-quality, impact resistant padded carrying case
- ▶ Simplest package includes: auto level, Allen wrench, pin tool, rain cover, and plumb bob

APPLICATIONS

- ▶ Two-person leveling across the job site
- ▶ Leveling forms and footers
- ▶ Checking elevation
- ▶ Measuring cut and fill



PART NO.	POWER/DAMPENING	TRIPOD	ROD
AL24A	24X Air Dampened	No	None
AL24A-1	24X Air Dampened	Yes	16 ft, 10ths
AL24A-2	24X Air Dampened	Yes	16 ft, inches
AL24A-3	24X Air Dampened	Yes	5 m, metric
AL24M	24X Magnetic Dampened	No	None
AL24M-1	24X Magnetic Dampened	Yes	16 ft, 10ths
AL24M-2	24X Magnetic Dampened	Yes	16 ft, inches
AL24M-3	24X Magnetic Dampened	Yes	5 m, metric



32X Air Dampened Auto Level

Easy-to-use 32X optical auto-levels



FEATURES & BENEFITS

- ▶ Air dampened auto compensator
- ▶ Double-sided, continuous horizontal tangent drives
- ▶ Stadia lines for simple distance measurement
- ▶ Water resistant construction
- ▶ Convenient horizontal angle measurement
- ▶ Built in bubble mirror and optical sighting alignment
- ▶ Metal housing for increased durability

APPLICATIONS

- ▶ Two-person leveling across the job site
- ▶ Leveling forms and footers
- ▶ Checking elevation
- ▶ Measuring cut and fill

PART NO.	POWER/DAMPENING	TRIPOD	ROD
AL32A	32X Air Dampened	No	None

Spectra Precision Automatic Levels

Technical Specifications

SPECIFICATIONS	AL24A	AL24M	AL32A
Magnification	24X	24X	32X
Objective Diameter	30 mm	30 mm	36 mm
Field of View Angle	1° 20'	1° 20'	1° 20'
Shortest Focusing Distance	0.6 m	0.6 m	0.6 m
Stadia Constant	100	100	100
Additive Constant	0	0	0
Compensator Dampening	Air	Magnetic	Air
Compensator Range	±15'	±15'	±15'
Compensator Setting Accuracy	<0.5"	<0.5"	<0.3"
Double Run Leveling per 1 km	2 mm	2 mm	1 mm
Circular Vial Accuracy	8/2 mm	8/2 mm	8/2 mm
Horizontal Circle	1°	1°	1°
Base Plate	5/8 x 11	5/8 x 11	5/8 x 11
Color	Yellow	Yellow	Yellow
Weight	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)

6

Construction Theodolite

Full-featured digital theodolite for construction



DE-50
Optional eye piece sold separately

FEATURES & BENEFITS

- ▶ Designed for general construction applications
- ▶ The Spectra Precision DET-2 digital electronic theodolite gives you accurate measurements in an affordable, versatile, easy to use platform
- ▶ Offers dual displays and controls for easy accessibility and operation, very large backlit LCD characters for easy reading (also, reduces eye strain and chance for errors), and a host of features and parameters normally found on much higher priced instruments
- ▶ Fast investment payback is the goal of the Spectra Precision DET-2
- ▶ With its 2-second accuracy (1- or 5-second selectable display readings) and vertical axis compensation, it can handle any construction job
- ▶ Operating costs are kept low with the included rechargeable battery pack and charger
- ▶ Able to be fully customized for your preferred operating style or job, with programmable settings for the horizontal angle resolution and beep, vertical degrees or %, automatic shutoff (to save battery life), and zenith angle
- ▶ A backup alkaline pack holding four standard AA batteries is also included
- ▶ Includes a built-in reticle illuminator that allows you to work inside buildings and other environments with little or no light, such as near dawn or dusk
- ▶ You can count on working in difficult conditions with an environmental rating of IP-54 making it water and dust-proof
- ▶ Comes equipped with a plumb bob, NiMH rechargeable battery pack and charger, alkaline battery pack, adjustment tools, rain hood, multi-language user guide, and hard-shell carrying case
- ▶ Accurate enough for any job, yet the display resolution can be tailored to any operator's preferences for fast readings
- ▶ Vertical axis compensation can be turned on or off depending on the operator or job
- ▶ Programmable settings for the horizontal angle resolution and beep, vertical degrees or percent are easy to configure
- ▶ The recharge kit reduces operating costs and downtime
- ▶ Yellow hardware

APPLICATIONS

- ▶ Establishing 90 degree reference lines
- ▶ Checking angles, alignment, and plumb
- ▶ Anchor bolt alignment
- ▶ Gravity flow pipe laser setup
- ▶ Steel column placement
- ▶ Alignment of forms, tilt-up walls, and curtain walls
- ▶ Basic grade work
- ▶ Short range leveling



DET-2 — Construction Theodolite
DE-50 — Diagonal Eye Piece

Construction Theodolite

Technical Specifications

TELESCOPE		OPTICAL PLUMMET		ANGLE MEASURING SYSTEM		VIALS		ILLUMINATION		OTHER	
Image	Erect	Image	Erect	Minimum Reading	2.54 cm or 12.7 cm	Tubular	30"/12 mm	Display	Yes	Dust/Water Resistance	IP-54
Mag.	30X	Mag.	3X	Precision	5.08 cm	Circular	8/12 mm	Reticle:	Yes	Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Aperture	45 mm	Angle of View	5°	Units	Deg / mil / gon / V%					Size/Dimensions	164 x 154 x 340 mm
Focus Distance	1.35 mm to ∞	Focusing range	0.5 m ~ ∞	Display	Dual, Large Character Backlit LCD both sides					Weight	9.92 lb (4.50 kg)
Field of View	1° 30'	Reticle type	Crosshair	Automatic Compensation	User Set On / Off ±3' Range					Shipping Weight	18.96 lb (8.60 kg)
Stadia Ratio / Constant	100/0									Warranty	1 year

HL100 Mesa Laser Level w/ Twister Receiver

One-button operation



FEATURES & BENEFITS

- ▶ The HL100 Mesa is a complete leveling crew in a case - laser, tripod, Twister receiver (ATI993640-02) and clamp, choice of grade rod, alkaline batteries and operator's manual in a portable hardshell carrying case
- ▶ Features automatic electronic self-leveling and one-button operation for quick start up
- ▶ The unit stops rotating when jarred to avoid erroneous readings
- ▶ Single axis manual slope mode to match known references
- ▶ Slopes can be set up to 100 ft (30 m) away with the optional (Q101401) remote control
- ▶ Rotor cage can be removed for precise 360° coverage
- ▶ Weighs 26.00 lb (11.80 kg)

4850-05-I — HL100 Mesa Laser Level & Twister with Inches Rod
 4850-05-M — HL100 Mesa Laser Level & Twister with Metric Rod
 4850-05-T — HL100 Mesa Laser Level & Twister with Tenths Rod

APPLICATIONS

- ▶ Checking/setting elevations, concrete forms, footings, and foundations for smaller job sites
- ▶ Estimating cut and fill
- ▶ Ideal for patio decks, terraces, swimming pools, septic systems, and leach fields

SL101 Mesa Laser Level w/ Twister Receiver

Includes remote control for operation key functions



FEATURES & BENEFITS

- ▶ The SL101 Mesa features a highly visible beam and electronically self-levels for horizontal and vertical
- ▶ Intuitive, one-touch, operator controls allow for quick start up and adjustment
- ▶ Multiple scanning angles and rotating speeds are possible, as well as operation of key functions over the job site with the included remote control
- ▶ Manual slope control to match known references
- ▶ The SL101 includes a laser, tripod, Twister receiver (ATI993640-02) and clamp, choice of grade rod, batteries, remote control (Q101401), glasses, target, wall mount, laser safety kit, strap and operator's manual in a portable hard shelled carrying case
- ▶ Weighs 27.00 lb (12.30 kg)

4850-07-I — SL101 Mesa Laser Level & Twister with Inches Rod
 4850-07-M — SL101 Mesa Laser Level & Twister with Metric Rod
 4850-07-T — SL101 Mesa Laser Level & Twister with Tenths Rod

APPLICATIONS

- ▶ Installation of interior fittings
- ▶ Transferring points from the floor to the ceiling
- ▶ Short range leveling for decks and patios
- ▶ Leveling of ceiling grids



Mesa Laser Levels

Technical Specifications

SPECIFICATIONS	HL100	SL101
Laser Source	650 nm visible, Class 2	<5 mW @ 635 nm, Class 3A
Laser Accuracy	±1/8 in at 100 ft (±3 mm at 30 m)	±1/8 in at 100 ft (±3 mm at 30 m) (±20 arc seconds)
Operating Range (Diameter) w/receiver	1,000 ft (300 m)	100 ft (30 m) minimum visual 1,000 ft (300 m) diameter with receiver
Self-Leveling Range	±5 degrees	±5 degrees
Compensation Method	Electronic self-leveling	Electronic self-leveling
Drop Height on Concrete performance	3 ft (1 m)	3 ft (1 m)
Single Axis Manual Slope Mode	Yes	N/A
Out of Level (HI) Warning	Yes	Rotor stops, laser shuts off, red out-of-level LED flashes
Power Source	2 x "D" Alkaline	2 x "D" Alkaline
Battery Life	80 hours	50 hours Alkaline 45/25 hours user provided Ni-MH/Ni-CD
Battery Status	N/A	Flashing red LED
Rotation Speed	600 RPM	Four preset speeds 0, 50, 200, 600 RPM
Scan Angles	N/A	Five preset angles 3°, 8°, 45°, 90°, 180°
Tripod Mount (Horizontal and Vertical)	5/8 x 11	5/8 x 11
Operating Temperature	23 to 113°F (-5 to 45°C)	23 to 113°F (-5 to 45°C)
Storage Temperature	-4 to 158°F (-20 to 70°C)	-4 to 158°F (-20 to 70°C)
Water Resistant	Yes, IP54 sealing	Yes, IP54 sealing
Size	8.5 x 6.7 x 6.0 in (22 x 17 x 15 cm)	8.5 x 6.7 x 6.0 in (22 x 17 x 15 cm)
Weight	3.30 lb (1.50 kg)	3.30 lb (1.50 kg)
Warranty	3 Year Limited with Instant Exchange	3 Year Limited with Instant Exchange

Bullseye 6 Laser Receiver

Four selectable accuracies for each on-grade location



FEATURES & BENEFITS

- ▶ Angle compensation automatically calculates and corrects grade display for the angle of the dipper arm
- ▶ Check grade with the dipper arm extended or retracted up to 30°
- ▶ Plumb indication built in - for quick and accurate grade checking for excavators and backhoes
- ▶ Offset on-grade - for productive excavation
- ▶ Center On-grade - for grading operations - use on dozers, graders, scrapers, box blades
- ▶ Up to 8 channels of grade information plus directional out of beam indicators
- ▶ Use as a stand alone display receiver or combine with the optional RD15 Remote Display (AT1991570-09)

PART NO.	POWER SOURCE	COLOR
AT1991320-02	Alkaline	Red
AT1991320-09	Alkaline	Yellow
AT1991326-02	Rechargeable NIMH	Red
AT1991326-09	Rechargeable NIMH	Yellow

APPLICATIONS

- ▶ Construction



Bullseye 5+ Laser Receiver

Up to six channels of grade information



FEATURES & BENEFITS

- ▶ Built-in blade tilt indication helps the operator keep the blade level or the stick plumb for increased production and accuracy
- ▶ Can be programmed to match an existing or known grade for slope matching operations
- ▶ Center on-grade provides an equal amount of grade information above and below on-grade
- ▶ Use on dozers, graders, scrapers, backhoes, excavators, trenchers, scrapers, and box blades
- ▶ Plumb indication is built in for quick and accurate grade checking
- ▶ Offset on-grade provides more information above grade utilizing the entire receiver for productive excavation
- ▶ Three selectable accuracies for each on grade location and up to six channels of grade information plus directional out of beam indicators
- ▶ Use as a stand alone display receiver or combine with the optional RD15 Remote Display (AT1991570-02)

PART NO.	POWER SOURCE	COLOR
AT1991370-02	Alkaline	Red
AT1991370-09	Alkaline	Yellow
AT1991376-02	Rechargeable NIMH	Red
AT1991376-09	Rechargeable NIMH	Yellow

APPLICATIONS

- ▶ Construction



Bullseye 3+ Laser Receiver

Use on dozers, graders, scrapers, and box blades



FEATURES & BENEFITS

- ▶ Adapts to grading and excavating machinery - Use on dozers, graders, scrapers, and box blades
- ▶ Easy to move from one machine to another 3 selectable accuracies - work from rough grading to final finishing
- ▶ Super bright LED's with green on-grade
- ▶ 5 channels of grade information plus directional out of beam indicators
- ▶ Use as a stand alone display receiver or combine with the optional RD15 Remote Display

PART NO.	POWER SOURCE	COLOR
AT1991340-02	Alkaline	Red
AT1991340-09	Alkaline	Yellow
AT1991346-02	Rechargeable NIMH	Red
AT1991346-09	Rechargeable NIMH	Yellow

APPLICATIONS

- ▶ Construction



Bullseye Remote Display

Ideal solution when the receiver is behind the operator



FEATURES & BENEFITS

- ▶ Used with all Bullseye™ receivers with an accessory connector
- ▶ Allows the operator to view grade information in the cab when it is not otherwise convenient
- ▶ Ideal solution when the receiver is behind the operator such as in trenchers, box blades, scrapers, etc
- ▶ LED's mimic the receiver display
- ▶ Power and signal are drawn from the receiver using either of the required cables
- ▶ Remote can be powered by the machine with one of the remote power cables

AT1991570-02 — Apache Bullseye Remote Display - Red
 AT1991570-09 — Apache Bullseye Remote Display - Yellow

APPLICATIONS

- ▶ Construction



Bullseye Receiver Remote Cables and Accessories

Display Remote Cables and Accessories

BULLSEYE RECEIVER REQUIRED CABLE	
PART NO.	DESCRIPTION
AT1010972-15	Receiver cable, straight, 15 ft
AT1010972-20	Receiver cable, straight, 20 ft
AT1010972-30	Receiver cable, straight, 30 ft
AT1010972-40	Receiver cable, straight, 40 ft
AT1010972-50	Receiver cable, straight, 50 ft
AT1010973	Receiver cable, coil, 3-12 ft
BULLSEYE RECEIVER OPTIONAL CABLES	
PART NO.	DESCRIPTION
AT1010983	Machine power cable, lighter adapter, 2-8 ft
AT1010987-25	Machine power cable, ring terminals, 25 ft
AT1010975	Receiver cable extension, coil, 3-12 ft
BULLSEYE RECEIVER ACCESSORIES	
PART NO.	DESCRIPTION
AT1991604	Universal battery charger with wall plugs
AT1010542	Cannon adapter for charger
AT1010561	Car lighter adapter, 12-volt DC
AT1010562	C-Cell NiMH HD Rechargeable Battery
AT1010536-02S	Bullseye carrying case (Red)
AT1010976-02	Swivel mount (shown in AT1991570)

Lightning 2 Laser Detector

Lets you get to grade faster on a wide variety of job sites



FEATURES & BENEFITS

- ▶ The Lightning™ 2 has an easy-to-read dual LCD and LED displays
- ▶ Comes equipped with a snap-in rod clamp allowing for fast switching from rod-mounted to hand-held applications
- ▶ Tough IP67 waterproof housing protects the unit from dust, moisture, and accidental drops
- ▶ Loud 100 db speaker can be heard on noisy job sites
- ▶ With two on-grade sensitivities (fine and medium), the Lightning 2 lets you get to grade faster on a wide variety of job sites
- ▶ Weighs (with batteries) 0.65 lb (0.29 kg)
- ▶ Weighs (with batteries and rod clamp) 1.00 lb (0.45 kg)

AT1993600-02 — Lightning 2 Laser Detector - Red
 AT1993600-09 — Lightning 2 Laser Detector - Yellow

APPLICATIONS

- ▶ Construction



Storm Laserometer Receiver

Highly-visible LED lights show red for off-grade and green for on-grade



FEATURES & BENEFITS

- ▶ Features a digital readout of elevation which provides a numeric display of ± 2 inches (± 5 cm)
- ▶ Accurate measurements can be made without moving the rod clamp, saving time and increasing productivity
- ▶ Waterproofed to IP67 standards
- ▶ The protective over-molding allows it to withstand a drop of 10 feet (3 meters) onto concrete
- ▶ The patented universal reversible clamp fits square and oval rods
- ▶ 5 inch (12.7 cm) reception height, allows quick acquisition of the laser beam
- ▶ A patented anti-strobe sensor prevents construction lights from giving faulty signals
- ▶ The high visible LEDs on the front show red for high and low and green for on-grade
- ▶ Fiberglass rod sold separately
- ▶ Weighs (with batteries) 0.85 lb (0.38 kg)
- ▶ Weighs (with batteries and rod clamp) 1.20 lb (0.54 kg)

ATI994000-02 — Storm Laserometer Receiver - Red
ATI994000-09 — Storm Laserometer Receiver - Yellow

APPLICATIONS

- ▶ Construction



Twister Laser Receiver

Specifically designed for harsh, loud construction environments



FEATURES & BENEFITS

- ▶ Designed to receive reference elevation information from rotating laser levels
- ▶ Detector receives invisible laser beams as well as visible red beams
- ▶ Detector includes a Liquid Crystal Display (LCD) on the front and rear for easy indication of detector status and grade information
- ▶ Beeper emits an audible tone that indicates on grade, high or low
- ▶ Specifically designed for use in harsh, loud construction environments
- ▶ Battery life is 70+ hours
- ▶ Beam window height is 2 inches
- ▶ Accuracy levels are user selectable to meet various job requirements
- ▶ Impact resistant housings, recessed windows, waterproof design, durable battery contacts, and a high volume beeper are incorporated into every detector
- ▶ General purpose clamp is designed to mount the detector on various grade rods and staffs
- ▶ Weighs 1.00 lb (0.45 kg) w/ batteries

ATI993640-02 — Twister Laser Receiver - Red
ATI993640-09 — Twister Laser Receiver - Yellow

APPLICATIONS

- ▶ Construction



Column Clamp

Accessories and components for rotating lasers



FEATURES & BENEFITS

- ▶ Works with all 5/8 x 11 instruments
- ▶ Column rotates to orientate the instrument when needed and features 1 ft (30 cm) of height adjustment
- ▶ Center-line of the 5/8 x 11 stud to column measures 6.5 in (16.5 cm)
- ▶ Designed to fit both round and square columns
- ▶ Nail holes in the clamp body allow for attaching to wood corners
- ▶ A ratchet strap quickly tightens the column clamp into place to create a strong connection to columns with diameters up to 20 inches (0.5 m)
- ▶ Made of aluminum and stainless steel
- ▶ An Extension Strap is also available (D12328, sold separately) which adds 37 to 69 in (94 to 175.2 cm) to the existing strap for big columns
- ▶ Weighs 5.10 lb (2.32 kg)

4852-15 — Column Clamp

APPLICATIONS

- ▶ Perfect for a laser for vertical applications or Theodolites



Heavy-Duty Column Clamp

Mounts to structural columns for stability and support for heavy instruments



FEATURES & BENEFITS

- ▶ SECO's Heavy-Duty Column Clamp has a solid stable design and works with all 5/8 x 11 instruments
- ▶ The adjustable column rotates and moves vertically to orient the instrument when needed and features 12-inches (30.48 cm) of height adjustment
- ▶ Centerline of the 5/8 x 11 stud to column measures 15-inches (38.1-cm)
- ▶ Includes a 2-inch (5.08 cm) by 10-ft (3.05-m) strap rated for a 2200 pound load and a heavy-duty ratchet to create a strong connection to both round and square columns
- ▶ Constructed of structural aluminum for industrial applications and stainless steel hardware
- ▶ Weighs 13.75 lb (6.24 kg)

4852-16 — Heavy-Duty Column Clamp

APPLICATIONS

- ▶ For use with Robotic Total Stations and scanners
- ▶ Ideal for mounting theodolites, lasers, etc.



Laser Micro Tripod

Beneficial to many different trades



FEATURES & BENEFITS

- ▶ Works with any 1/4 x 20 threaded laser instrument product
- ▶ The two axis tilt adjustments lock using wing screws
- ▶ Features a large mounting surface that measures 1.4 x 4.25 inches (3.55 x 10.79 cm)
- ▶ An included magnet allows for attachment to metal surfaces
- ▶ A nail hole enables attachment to wood surfaces
- ▶ A female 5/8 x 11 brass threaded insert securely attaches to the instrument tripods
- ▶ Constructed of high-quality plastic and brass materials
- ▶ Weighs 0.70 lb (0.32 kg)

7210-03 — Laser Micro Tripod

APPLICATIONS

- ▶ Great for construction, or any alignment job using lasers in confined spaces



Laser Tilting Base

Makes any laser a 'single axis slope laser'



FEATURES & BENEFITS

- ▶ Mounts securely to any 5/8 x 11 instrument or tripod
- ▶ Alignment mark aids in placement
- ▶ The large knobbed tilting drive is spring loaded
- ▶ Features a built-in circular vial
- ▶ Includes a brass percent scale
- ▶ Attaches in between any laser and tripod combination
- ▶ The large mounting surface measures 4 x 5 in (10 x 13 cm)
- ▶ Constructed of brass and aluminum
- ▶ Weighs 1.95 lb (0.89 kg)

4852-11 — Laser Tilting Base

APPLICATIONS

- ▶ Use with 5/8 x 11 instruments and tripods



Bullseye Magnetic Mounts

Use with Bullseye Receivers



FEATURES & BENEFITS

- ▶ Both magnetic mount models can be used with all Bullseye receivers
- ▶ Two magnet banks combine for 900 pounds of holding force
- ▶ Easy to slide receiver up and down
- ▶ Easy removal is accomplished using a release lever
- ▶ Features a large vertical adjustment range for quicker laser set-ups

AT1991360-02 — Bullseye Magnetic Mount - For Backhoe and Excavator
 AT1991364-02 — Bullseye Magnetic Mount - For Flat Back Dozer Blades

APPLICATIONS

- ▶ Construction



Batter Board Clamp

Accessories and components for rotating lasers



FEATURES & BENEFITS

- ▶ Attaches to boards with thicknesses up to 2.17 in (55 mm)
- ▶ Mounting plate with its 5/8 x 11 screw can easily be removed when connecting it to a laser or theodolite
- ▶ Nail hole ensures that a theodolite's axis is positioned exactly over the reference point
- ▶ Soft-touch locking knobs prove comfortable when using in cold and wet weather
- ▶ 3-point contact for secure, sturdy grip
- ▶ Quick release clamp for quick instrument attachment
- ▶ Weighs 2.43 lb (1.10 kg)

4852-14 — Batter Board Clamp

APPLICATIONS

- ▶ Perfect for a laser for vertical applications or Theodolites



Thunder 54 Laser Detector

Working range is up to 500 ft



FEATURES & BENEFITS

- ▶ Works with all infrared and red beam rotating lasers
- ▶ Designed for general purpose outdoor elevation control
- ▶ Units are 100% waterproof and dustproof to IP67
- ▶ Adjustable rod clamp is included
- ▶ Working range is 500 ft (150 m)
- ▶ Includes a 100 db beeper can be heard on any job site
- ▶ LCD display and >100 hours of continuous battery life
- ▶ Weighs 0.75 lb (0.34 kg)

ATI991283-09 — Apache Thunder 54 Laser Detector - Yellow

APPLICATIONS

- ▶ Construction



Thunder 56 Laser Detector

Designed for interior elevations and alignment applications



FEATURES & BENEFITS

- ▶ Works with all infrared and red beam rotating lasers
- ▶ Designed for interior elevation and alignment applications
- ▶ "Electronic target" increases productivity by extending the laser's usable range up to 250 ft (75 m)
- ▶ Units are 100% waterproof and dustproof to IP67
- ▶ Built in magnet on top to attach to a ceiling grid
- ▶ LED lighted display and >70 hours of continuous battery life
- ▶ Weighs 0.68 lb (0.31 kg)

ATI991284-02 — Apache Thunder 56 Laser Detector - Red
ATI991284-09 — Apache Thunder 56 Laser Detector - Yellow

APPLICATIONS

- ▶ Construction



Thunder Laser Detectors

Technical Specifications

SPECIFICATIONS	THUNDER 54	THUNDER 56
Working Range	500 ft (150 m)	250 ft (75 m)
Reception Angle	±45 degrees	±45 degrees
Marking Notch	1 in (25 mm)	1 in (25 mm)
Detection Height	1.5 in (38 mm)	1.5 in (38 mm)
Detection Accuracy	±1/8 in (±3.0 mm)	±1/16 (±2.0 mm)
Power Supply	2 x 1.5V AA batteries	2 x 1.5V AA batteries
Battery Life	>100 continuous hours	>70 continuous hours
Display	LCD (arrow/bar/arrow)	LEDs (red/green/red)
Display Channels	3	3
Automatic Shutoff	30 minutes	30 minutes
Warranty	2 years	2 years

Laser Distance Meters

Tough — can be dropped up to 5 feet (1.5m)



FEATURES & BENEFITS

- ▶ Can be dropped 5 feet (1.5 m)
- ▶ Accurate and reliable
- ▶ Many functions
- ▶ Indoor / Outdoor options
- ▶ Fastest products available
- ▶ Long battery life (8000 measures)
- ▶ Range from 50 m to 200 m
- ▶ See technical specifications below

QM55 — Indoor Laser Distance Meter
 QM75 — Indoor/Outdoor Laser Distance Meter
 QM95 — Indoor/Outdoor Laser Distance Meter

APPLICATIONS

- ▶ Construction



Quick Measure Laser Distance Meter

Technical Specifications

SPECIFICATIONS	QM55	QM75	QM95
Range	165 feet (50 m)	230 feet (70 m)	650 feet (200 m)
Accuracy	± 1/16 in ± (1.5 mm)	±1/16 in ± (1.5 mm)	±1/24 in ± (1.0 mm)
Units of Measure	m, ft, in, ft-in	m, mm, ft, in, yds	m, mm, ft, in, yds
Automatic Shut Off	3 minutes	10 minutes	10 minutes
Battery Life	5000+ measures	8000 measures	8000 measures
Power Supply	2 x AAA 1.5 V	2 x AAA 1.5 V	2 x AA 1.5 V
Power Indication	LCD 3 segments	LCD 4 segments	LCD 4 segments
Drop Performance	5 feet (1.5 m)	5 feet (1.5 m)	5 feet (1.5 m)
Dust & Water Resistance	IP54	IP55	IP54
Laser Type / Power	635nm visible red / < 1 mW	635nm visible red / < 1 mW	635nm visible red / < 1 mW
Dimensions	2.0 x 1.1 x 4.9 in (52 x 28 x 125 mm)	1.3 x 1.6 x 4.9 in (34 x 42 x 125 mm)	2.4 x 1.2 x 4.7 in (62 x 28 x 120 mm)
Weight with Batteries	6.60 oz (187 g)	5.10 oz (144 g)	7.70 oz (217 g)
Warranty	3 Years (2 Years at No Cost)	3 Years (2 Years at No Cost)	3 Years (2 Years at No Cost)
FUNCTIONS	QM55	QM75	QM95
Usage	Indoor	Indoor / Outdoor	Indoor / Outdoor
Single Measure	√	√	√
Continuous Measure	√	√	√
Addition / Subtraction	√	√	√
Area	√	√	√

Gopher Pole Wire Installation Tool

Installing wires across ceiling spans is a lot easier with this unique fiberglass pole



FEATURES & BENEFITS

- ▶ Telescopes to 22 feet in seconds
- ▶ Compacts to 52 inches
- ▶ 2-inch diameter
- ▶ Safe non-conductive rigid fiberglass
- ▶ Sturdy and lightweight
- ▶ Easy to handle in tight spots
- ▶ No loose parts to assemble
- ▶ Push or pull wires over long spans
- ▶ Perfect for interior construction applications like suspended ceilings, sub-floors, crawl spaces, and attics
- ▶ Warranty against manufacturing defects for one year after date of purchase
- ▶ Weighs 4.00 lb (1.81 kg)

APPLICATIONS

- ▶ General interior construction
- ▶ Long spans
- ▶ Hard-to-reach areas
- ▶ Suspended ceilings
- ▶ Sub-floors
- ▶ Crawl spaces
- ▶ Attics



90520 — Gopher Pole Wire Installation Tool



8365-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 3 Standards



FEATURES & BENEFITS

- ▶ Made from durable ANSI/ISEA compliant polyester and polyester mesh
- ▶ Developed in conjunction with surveyors from the California Department of Transportation
- ▶ Features include YKK zippers, 4 inch (10.16 cm) wide reflective tape with 2 inch (5.08 cm) wide silver stripes made with 3M Scotchlite Reflective Material
- ▶ Padded collar is made with Outlast fabric on the inside
- ▶ Includes many quality features; multiple pockets for cell phone, tapes, radio, pencils, maps, spray cans and etc
- ▶ Plus, two inside pockets and comes with dual mic clips

APPLICATIONS

- ▶ Workplace safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8365-42-FLY	Fluorescent Yellow	42 (S)
8365-42-FOR	Fluorescent Orange	42 (S)
8365-46-FLY	Fluorescent Yellow	46 (M)
8365-46-FOR	Fluorescent Orange	46 (M)
8365-50-FLY	Fluorescent Yellow	50 (L)
8365-50-FOR	Fluorescent Orange	50 (L)
8365-54-FLY	Fluorescent Yellow	54 (XL)
8365-54-FOR	Fluorescent Orange	54 (XL)
8365-58-FLY	Fluorescent Yellow	58 (XXL)
8365-58-FOR	Fluorescent Orange	58 (XXL)
8365-62-FLY	Fluorescent Yellow	62 (XXXL)
8365-62-FOR	Fluorescent Orange	62 (XXXL)
8365-66-FLY	Fluorescent Yellow	66 (J)
8365-66-FOR	Fluorescent Orange	66 (J)



8368-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 3 Standards



FEATURES & BENEFITS

- ▶ Meets the standards for the ANSI/ ISEA Class 3 specifications
- ▶ Features include an extra large pocket on the back that is perfect for maps with convenient pockets with flaps
- ▶ Snaps along front allow vest to close
- ▶ Durable fabric is 100% texturized polyester for softness, comfort, superior strength, abrasion resistance and is machine-washable
- ▶ Includes a 2 inch wide retro reflective tape on the fluorescent body and sleeves

APPLICATIONS

- ▶ Workplace safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8368-38-FOR	Fluorescent Orange	38 (XS)
8368-42-FLY	Fluorescent Yellow	42 (S)
8368-42-FOR	Fluorescent Orange	42 (S)
8368-46-FLY	Fluorescent Yellow	46 (M)
8368-46-FOR	Fluorescent Orange	46 (M)
8368-50-FLY	Fluorescent Yellow	50 (L)
8368-50-FOR	Fluorescent Orange	50 (L)
8368-54-FLY	Fluorescent Yellow	54 (XL)
8368-54-FOR	Fluorescent Orange	54 (XL)
8368-58-FLY	Fluorescent Yellow	58 (XXL)
8368-58-FOR	Fluorescent Orange	58 (XXL)
8368-62-FLY	Fluorescent Yellow	62 (XXXL)
8368-62-FOR	Fluorescent Orange	62 (XXXL)
8368-66-FLY	Fluorescent Yellow	66 (J)
8368-66-FOR	Fluorescent Orange	66 (J)



8374-Series Mesh Safety Utility Vest

Designed to meet ANSI/ISEA Class 3 Standards



FEATURES & BENEFITS

- ▶ Meets the standards for the ANSI/ ISEA Class 3 specifications
- ▶ Convenient features include a radio mic clip, pockets and pen/ pencil slots, 'hand warmer' pockets, 5 and 6.5 inch deep outer pockets
- ▶ Vest is made of polyester mesh to keep you cool on the job site
- ▶ Features 2 inch wide retro reflective tape on the fluorescent body and sleeves
- ▶ Comfortable, relaxed fit is due, in part, to the large neck opening, four high-quality snaps allow vest to close, and the new 70D mesh polyester material that is machine-washable

APPLICATIONS

- ▶ Workplace safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8374-38-FLY	Fluorescent Yellow	38 (XS)
8374-38-FOR	Fluorescent Orange	38 (XS)
8374-42-FLY	Fluorescent Yellow	42 (S)
8374-42-FOR	Fluorescent Orange	42 (S)
8374-46-FLY	Fluorescent Yellow	46 (M)
8374-46-FOR	Fluorescent Orange	46 (M)
8374-50-FLY	Fluorescent Yellow	50 (L)
8374-50-FOR	Fluorescent Orange	50 (L)
8374-54-FLY	Fluorescent Yellow	54 (XL)
8374-54-FOR	Fluorescent Orange	54 (XL)
8374-58-FLY	Fluorescent Yellow	58 (XXL)
8374-58-FOR	Fluorescent Orange	58 (XXL)
8374-62-FLY	Fluorescent Yellow	62 (XXXL)
8374-62-FOR	Fluorescent Orange	62 (XXXL)
8374-66-FLY	Fluorescent Yellow	66 (J)
8374-66-FOR	Fluorescent Orange	66 (J)



8390-Series Mesh Safety Vest

Designed to meet ANSI/ISEA Class 3 Standards



FEATURES & BENEFITS

- ▶ Meets ANSI/ISEA Class 3 standards for reflectivity
- ▶ Manufactured with tricot and textured Polyester mesh for durability and comfort
- ▶ Includes three front outside pockets and a mic clip
- ▶ Stays cool in the summer heat and are highly visible in low-light conditions and includes snaps to allow vest to close
- ▶ Features a 3 inch (7.62 cm) wide reflective tape with 2 inch (5.08 cm) wide silver stripes

APPLICATIONS

- ▶ Workplace safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8390-50-FLY	Fluorescent Yellow	50 (L)
8390-50-FOR	Fluorescent Orange	50 (L)
8390-54-FLY	Fluorescent Yellow	54 (XL)
8390-54-FOR	Fluorescent Orange	54 (XL)
8390-58-FLY	Fluorescent Yellow	58 (XXL)
8390-58-FOR	Fluorescent Orange	58 (XXL)
8390-62-FLY	Fluorescent Yellow	62 (XXXL)
8390-62-FOR	Fluorescent Orange	62 (XXXL)





8265-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Developed in conjunction with surveyors from the California DOT
- ▶ Meets ANSI/ISEA Class 2 requirements
- ▶ Features include bright fluorescent material, 4 inch (10.16 cm) wide contrasting reflective material with 2 inch (5.08 cm) wide silver stripes made of 3M™ Scotchlite™ reflective material
- ▶ Made of durable polyester, brass grommets, heavy-duty webbing and trim, and a genuine YKK™ zipper
- ▶ Adaptive Comfort® material by Outlast®, a Certified Space Technology™, designed to balance body temperature
- ▶ Features four large pockets on the outside and two generous pockets on the inside — great for field books, tapes, pencils, flagging, cell phones, etc
- ▶ Includes two spray can holders

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8265-42-FLY	Fluorescent Yellow	42 (S)
8265-42-FOR	Fluorescent Orange	42 (S)
8265-46-FLY	Fluorescent Yellow	46 (M)
8265-46-FOR	Fluorescent Orange	46 (M)
8265-50-FLY	Fluorescent Yellow	50 (L)
8265-50-FOR	Fluorescent Orange	50 (L)
8265-54-FLY	Fluorescent Yellow	54 (XL)
8265-54-FOR	Fluorescent Orange	54 (XL)
8265-58-FLY	Fluorescent Yellow	58 (XXXL)
8265-58-FOR	Fluorescent Orange	58 (XXXL)
8265-62-FLY	Fluorescent Yellow	62 (XXXXL)
8265-62-FOR	Fluorescent Orange	62 (XXXXL)
8265-66-FLY	Fluorescent Yellow	66 (J)
8265-66-FOR	Fluorescent Orange	66 (J)



8292-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Designed to meet ANSI/ISEA Class 2 requirements
- ▶ Made from compliant tricot for durability and comfort and a zipper to keep vest closed during cool weather
- ▶ Comes with an easy-to-access mic clip
- ▶ Has 2.5 inch (6.35 cm) wide reflective tape with 2-inch (5.08 cm) wide silver stripes
- ▶ Features multiple pockets for cell phone, tapes, radio, pencils and includes two inside pockets

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8292-50-FLY	Fluorescent Yellow	50 (L)
8292-50-FOR	Fluorescent Orange	50 (L)
8292-54-FLY	Fluorescent Yellow	54 (XL)
8292-54-FOR	Fluorescent Orange	54 (XL)
8292-58-FLY	Fluorescent Yellow	58 (XXXL)
8292-58-FOR	Fluorescent Orange	58 (XXXL)
8292-62-FLY	Fluorescent Yellow	62 (XXXXL)
8292-62-FOR	Fluorescent Orange	62 (XXXXL)



8266 U.S and Canadian Dual Safety Utility Vest

Designed to meet ANSI/ISEA Class 2 and Canadian CSA-Z96 Standards

**FEATURES & BENEFITS**

- ▶ Meets both ANSI/ISEA 107-2010 Class 2 and Canadian CSA-Z96 specifications
- ▶ Made from durable ANSI/ISEA compliant polyester
- ▶ Features heavy-duty YKK® zippers
- ▶ Includes a 4 inch (10.16 cm) wide reflective tape with 2 inch (5.08 cm) wide silver stripes
- ▶ Multiple pockets for tapes, radio, pencils, maps, etc., and two inside pockets
- ▶ Easy-to-access mic clips located on the shoulders
- ▶ Chest sizes range from 46-66 inches (127.00-167.64 cm)

PART NO.	COLOR	SIZE
8266-46-FLY	Fluorescent Yellow	46 (M)
8266-46-FOR	Fluorescent Orange	46 (M)
8266-50-FLY	Fluorescent Yellow	50 (L)
8266-50-FOR	Fluorescent Orange	50 (L)
8266-54-FLY	Fluorescent Yellow	54 (XL)
8266-54-FOR	Fluorescent Orange	54 (XL)
8266-58-FLY	Fluorescent Yellow	58 (XXL)
8266-58-FOR	Fluorescent Orange	58 (XXL)
8266-62-FLY	Fluorescent Yellow	62 (XXXL)
8266-62-FOR	Fluorescent Orange	62 (XXXL)
8266-66-FLY	Fluorescent Yellow	66 (J)
8266-66-FOR	Fluorescent Orange	66 (J)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

**8260 U.S and Canadian Dual Safety Utility Vest**

Designed to meet ANSI/ISEA Class 2 and Canadian CSA-Z96 Standards

**FEATURES & BENEFITS**

- ▶ Vest manufactured to meet ANSI/ISEA 107-2010 Class 2 and CSA-Z96 standards
- ▶ Four-inch-wide reflective tape that includes a two-inch-wide silver stripe and high-vis material makes this vest highly visible in any weather condition — day or night
- ▶ Includes a special padded collar made of Outlast® material for added comfort
- ▶ Vest compartments include a field notebook pocket, pencil slots, flagging tape pocket with grommets, and an internal cell phone pocket
- ▶ Also including two exterior radio mic clips and a front closing zipper
- ▶ Made of 100% polyester

PART NO.	COLOR	SIZE
8260-46-FLY	Fluorescent Yellow	46 (M)
8260-46-FOR	Fluorescent Orange	46 (M)
8260-50-FLY	Fluorescent Yellow	50 (L)
8260-50-FOR	Fluorescent Orange	50 (L)
8260-54-FLY	Fluorescent Yellow	54 (XL)
8260-54-FOR	Fluorescent Orange	54 (XL)
8260-58-FLY	Fluorescent Yellow	58 (XXL)
8260-58-FOR	Fluorescent Orange	58 (XXL)
8260-62-FLY	Fluorescent Yellow	62 (XXXL)
8260-62-FOR	Fluorescent Orange	62 (XXXL)
8260-66-FLY	Fluorescent Yellow	66 (J)
8260-66-FOR	Fluorescent Orange	66 (J)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired





8069-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Vests are manufactured to meet ANSI/ISEA Class 2 standards
- ▶ Features a cool, comfortable mesh back and snaps in front to close vest
- ▶ 100% polyester
- ▶ Includes special compartments for notebooks, pencils, compass, flagging tape, etc
- ▶ Features exterior radio mic clip

PART NO.	COLOR	SIZE
8069-38-FLY	Fluorescent Yellow	38 (XS)
8069-38-FOR	Fluorescent Orange	38 (XS)
8069-42-FLY	Fluorescent Yellow	42 (S)
8069-42-FOR	Fluorescent Orange	42 (S)
8069-46-FLY	Fluorescent Yellow	46 (M)
8069-46-FOR	Fluorescent Orange	46 (M)
8069-50-FLY	Fluorescent Yellow	50 (L)
8069-50-FOR	Fluorescent Orange	50 (L)
8069-54-FLY	Fluorescent Yellow	54 (XL)
8069-54-FOR	Fluorescent Orange	54 (XL)
8069-58-FLY	Fluorescent Yellow	58 (XXL)
8069-58-FOR	Fluorescent Orange	58 (XXL)
8069-62-FLY	Fluorescent Yellow	62 (XXXL)
8069-62-FOR	Fluorescent Orange	62 (XXXL)
8069-66-FLY	Fluorescent Yellow	66 (J)
8069-66-FOR	Fluorescent Orange	66 (J)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired



8068-Series Safety Utility Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Durable fluorescent fabric is constructed of 100% polyester for softness, comfort, superior strength and abrasion resistance
- ▶ Features convenient pockets with sturdy fasteners, map pocket and mic clip
- ▶ Complies with ANSI/ISEA Class 2 standards for high-visibility safety apparel with two-inch-wide stripes of retroreflective tape
- ▶ Snaps on chest allow vest to close

PART NO.	COLOR	SIZE
8068-38-FOR	Fluorescent Orange	38 (XS)
8068-42-FLY	Fluorescent Yellow	42 (S)
8068-42-FOR	Fluorescent Orange	42 (S)
8068-46-FLY	Fluorescent Yellow	46 (M)
8068-46-FOR	Fluorescent Orange	46 (M)
8068-50-FLY	Fluorescent Yellow	50 (L)
8068-50-FOR	Fluorescent Orange	50 (L)
8068-54-FLY	Fluorescent Yellow	54 (XL)
8068-54-FOR	Fluorescent Orange	54 (XL)
8068-58-FLY	Fluorescent Yellow	58 (XXL)
8068-58-FOR	Fluorescent Orange	58 (XXL)
8068-62-FLY	Fluorescent Yellow	62 (XXXL)
8068-62-FOR	Fluorescent Orange	62 (XXXL)
8068-66-FLY	Fluorescent Yellow	66 (J)
8068-66-FOR	Fluorescent Orange	66 (J)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired



8063-Series Surveyors Utility Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Vests are manufactured to meet ANSI/ISEA Class 2 standards
- ▶ Features a comfortable hi-tech liner made of Adaptive Comfort® material by Outlast®, a Certified Space Technology™, designed to balance body temperature
- ▶ 100% polyester
- ▶ Vest snaps on chest allow for frontal closure
- ▶ Includes pockets for notebooks, maps, pencils, compasses, flagging tape, etc
- ▶ Also features exterior radio mic clip
- ▶ Weighs 1.94 lb (0.89 kg)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8063-38-FOR	Fluorescent Orange	38 (XS)
8063-42-FLY	Fluorescent Yellow	42 (S)
8063-42-FOR	Fluorescent Orange	42 (S)
8063-46-FLY	Fluorescent Yellow	46 (M)
8063-46-FOR	Fluorescent Orange	46 (M)
8063-50-FLY	Fluorescent Yellow	50 (L)
8063-50-FOR	Fluorescent Orange	50 (L)
8063-54-FLY	Fluorescent Yellow	54 (XL)
8063-54-FOR	Fluorescent Orange	54 (XL)
8063-58-FLY	Fluorescent Yellow	58 (XXL)
8063-58-FOR	Fluorescent Orange	58 (XXL)
8063-62-FLY	Fluorescent Yellow	62 (XXXL)
8063-62-FOR	Fluorescent Orange	62 (XXXL)
8063-66-FLY	Fluorescent Yellow	66 (J)
8063-66-FOR	Fluorescent Orange	66 (J)



8290-Series Economy Safety Vest

Designed to meet ANSI/ISEA Class 2 Standards



FEATURES & BENEFITS

- ▶ Manufactured to meet ANSI/ISEA Class 2 standards
- ▶ Manufactured with tricot and texturized polyester mesh for durability and comfort
- ▶ Made with 3M™ Scotchlite™ Reflective Material and a zipper on chest for frontal closure
- ▶ Stays cool in the summer heat and is visible in low-light conditions
- ▶ Features a wide variety of pockets including: radio pocket; pencil pocket; two front outside pockets; two front inside pockets and a rear map pocket
- ▶ Weighs 0.71 lb (0.32 kg)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Perfect for construction crews or surveyors near busy roads or other possibly hazardous locations where worker visibility is desired

PART NO.	COLOR	SIZE
8290-50-FLY	Fluorescent Yellow	50 (L)
8290-50-FOR	Fluorescent Orange	50 (L)
8290-54-FLY	Fluorescent Yellow	54 (XL)
8290-54-FOR	Fluorescent Orange	54 (XL)
8290-58-FLY	Fluorescent Yellow	58 (XXL)
8290-58-FOR	Fluorescent Orange	58 (XXL)
8290-62-FLY	Fluorescent Yellow	62 (XXXL)
8290-62-FOR	Fluorescent Orange	62 (XXXL)



8067-Series Heavy-Duty Safety Utility Vest

Built with Cordura



FEATURES & BENEFITS

- ▶ Vest is made of heavy-duty, water-repellent 1000 denier Cordura®
- ▶ Snaps allow vest closure
- ▶ Cordura is more durable than cotton, polyester, ordinary nylon
- ▶ Perfect for jobs away from federal highways (non ANSI/ISEA compliant) but where high visibility is still desired
- ▶ Weighs 1.65 lb (0.72 kg)

APPLICATIONS

- ▶ Workplace Safety
- ▶ Light-duty applications where visibility is desired but not mandated

PART NO.	COLOR	SIZE
8067-38-FLY	Fluorescent Yellow	38 (XS)
8067-38-FOR	Fluorescent Orange	38 (XS)
8067-42-FLY	Fluorescent Yellow	42 (S)
8067-42-FOR	Fluorescent Orange	42 (S)
8067-46-FLY	Fluorescent Yellow	46 (M)
8067-46-FOR	Fluorescent Orange	46 (M)
8067-50-FLY	Fluorescent Yellow	50 (L)
8067-50-FOR	Fluorescent Orange	50 (L)
8067-54-FLY	Fluorescent Yellow	54 (XL)
8067-54-FOR	Fluorescent Orange	54 (XL)
8067-58-FLY	Fluorescent Yellow	58 (XXL)
8067-58-FOR	Fluorescent Orange	58 (XXL)
8067-62-FLY	Fluorescent Yellow	62 (XXXL)
8067-62-FOR	Fluorescent Orange	62 (XXXL)
8067-66-FLY	Fluorescent Yellow	66 (J)
8067-66-FOR	Fluorescent Orange	66 (J)



Standard Vests

Designed for light-duty applications that don't require ANSI/ISEA certification



FEATURES & BENEFITS

- ▶ Light weight cool mesh
- ▶ Elastic sides and a front Velcro® closure
- ▶ One size fits most
- ▶ 1 inch wide reflective stripes
- ▶ Mesh material is trimmed with 0.25 inch wide nylon binding
- ▶ Available in either fluorescent orange or yellow
- ▶ Weighs 0.27 lb (0.12 kg)

APPLICATIONS

- ▶ Workplace safety
- ▶ Light-duty applications where visibility is desired but not mandated

PART NO.	COLOR	SIZE
8076-01-FLY	Fluorescent Yellow	One size fits most
8076-01-FOR	Fluorescent Orange	One size fits most

Tool Pouches

Designed to keep your tools safe and organized

- ▶ Features include an 11 x 7 inch (28 x 18 cm) and 6 x 4 inch (15 x 10 cm) pouches
- ▶ Has slots for markers, a loop for axes or hammers
- ▶ Weighs 0.40 lb (0.18 kg)



8046-20-ORG — Construction-Style Tool Pouch

- ▶ Features a 9 x 2 x 11 inch pocket
- ▶ Large pocket is lined with two layers of 1000D Cordura
- ▶ Webbed belt adjusts to a 50 inch (127 cm) waist
- ▶ Includes a hammer loop and marker storage
- ▶ Weighs 1.05 lb (0.48 kg)



8046-30-ORG — Surveyor's Tool Pouch with Belt

Utility Bags and Miscellaneous Cases

Designed to keep your field equipment and supplies safe and secure

- ▶ This Cordura® case is designed for the TDS™ Recon® with compact flash cap installed
- ▶ Inside dimensions: 1 x 3.25 x 9 inches (2.5 x 8.3 x 22.9 cm)
- ▶ Weighs 0.20 lb (0.09 kg)



8240-10-ORG — Recon Case with CF Cap
8240-00-ORG — Case Without Flash Cap

- ▶ Fits most large controllers like the Ranger™ series, Allegro, TSC2™
- ▶ Padded with 0.25 in 1000D Cordura material with khaki trim
- ▶ Features a Velcro® flap closure, belt loop and shoulder strap
- ▶ Main compartment measures 10.25 x 5.25 x 2 inches (26 x 13.3 x 5 cm)
- ▶ Outside pocket is 6 x 5 in (15 x 12.7 cm)
- ▶ Weighs 0.35 lb (0.16 kg)



8142-01-ORG — Large Controllers Case

- ▶ Made from padded Nylon Cordura is perfect for your level
- ▶ Measures 6.5 x 2.62 inches (16.5 x 6.66 cm)
- ▶ Weighs 0.05 lb (0.02 kg)



8030-00-CABLU — Hand Level Case

- ▶ Features four exterior deep-zipped pockets — two front and two side
- ▶ Two interior pockets — 14 x 12 x 2 inches with hook-and-loop closures
- ▶ Heavy-duty nylon webbing carrying straps
- ▶ Measures 30 x 14 x 20 inches
- ▶ Weighs 3.78 lb (1.72 kg)



8106-10-ORG — Monster Gear Bag

- ▶ Excellent for carrying surveying accessories, clothing, and other miscellaneous gear
- ▶ Made of heavy-duty water resistant polyester
- ▶ Measures 27 x 11 x 11 inches (69 x 28 x 28 cm)
- ▶ Weighs 1.56 lb (0.71 kg)



8106-00-ORG — Surveyor's Gear Bag
8106-20-ORG — Surveyor's Gear Bag w/ Rhinotek Bottom

- ▶ Features include an outside pocket with a Velcro closure and 2 inch straps made with heavy-duty webbing
- ▶ Also features a Rhinotek and leather reinforced bottom
- ▶ Measures 10.25 x 15 inches (26 x 38 cm)
- ▶ Weighs 1.30 lb (0.59 kg)



8095-20-ORG — Heavy-Duty Collapsible Bucket Bag

- ▶ This case holds all popular cell phones
- ▶ Used with GNSS systems using GSM phone links
- ▶ Interior Dimensions: 4 x 2.5 x 1.5 inches (10.16 x 6.35 x 3.81 cm)
- ▶ Weighs 0.35 lb (0.16 kg)



8143-20-FLY — Cell Phone Pole Case

- ▶ This case holds the Trimble® Pathfinder® ProXH™ or the ProXT™ GNSS unit securely
- ▶ Weighs 0.45 lb (0.20 kg)



8143-21-YEL — Trimble Pathfinder Series Pole Case

- ▶ Carry a camcorder battery as an alternative power source for RTK setups
- ▶ Interior Dimensions: 6.5 x 2.5 x 1 in (16.51 x 6.35 x 2.54 cm)
- ▶ Weighs 0.30 lb (0.13 kg)



8015-01-FLY — Battery Pole Case

- ▶ Secure your cell phone to any survey pole without slipping
- ▶ Inside dimensions: 5 x 2.5 x 1.5 inches (12.7 x 6.35 x 3.81 cm)
- ▶ Weighs 0.10 lb (0.45 kg)



8143-22-FLY — GNSS Rod Cell Phone Case

Baja Style Tool Pouch

Tools stay within easy reach while staying safe and secure



FEATURES & BENEFITS

- ▶ SECO's Baja Style Tool Pouch is constructed of rugged canvas and leather that ensures long-term durability in the most difficult working conditions
- ▶ Constructed from #8 canvas duck material — which creates a tighter weave for a smoother texture
- ▶ Webbed belt adjusts to a 50-inch (127-cm) waist to allow for the perfect fit for all users
- ▶ Leather front pocket has a Velcro flap to secure your belongings
- ▶ Features a deep 9 x 2 x 11-inch (22.86 x 5.08 x 27.9-cm) pocket with room to hold all of your supplies
- ▶ Includes a leather-lined hammer loop and two additional front pockets for additional storage
- ▶ Weighs 1.80 lb (0.82 kg)

8046-40-NAT — Baja Style Tool Pouch

APPLICATIONS

- ▶ Construction
- ▶ Rugged work environments



Baja Style Bucket Bag

Securely transports all of the tools you need on your job site



FEATURES & BENEFITS

- ▶ SECO's Baja Style Bucket Bag features a rugged canvas and leather construction that ensures long-term durability in the most difficult working conditions
- ▶ The leather bottom gives the bucket bag a robust base suited for rough environments
- ▶ Bag measures 10.25 x 16 inches (26 x 40.6 cm), giving you plenty of room to transport all of the tools you need
- ▶ The white polypropylene rope handle has a working load strength of 100 pounds, allowing you to confidently carry all of your loads
- ▶ Two side pockets with Velcro closures allow you to securely carry smaller tools
- ▶ A long interior leather strap allows you to secure wire stakes or other long-handled tool
- ▶ The bottom of the bag includes an open grommet to allow for draining
- ▶ Weighs 2.00 lb (0.91 kg)

8097-30-NAT — Baja Style Bucket Bag

APPLICATIONS

- ▶ Construction
- ▶ Rugged work environments



MiFi Hotspot Case

Fits in any current MiFi hotspot unit creating a mini network at your job site



FEATURES & BENEFITS

- ▶ The MiFi Hotspot Case secures any MiFi unit to any GNSS survey pole or prism pole
- ▶ Constructed of heavy-duty Cordura®
- ▶ Easily attaches to a GNSS or prism pole with the metal clamp on case
- ▶ This pouch stays in place; it will not slip down the pole
- ▶ Features a window to clearly view the installed unit activity
- ▶ Works with all MiFi Hotspots and most smart phones on the market today
- ▶ A Velcro strap keeps unit safely inside clear pouch
- ▶ Inside dimensions 6 x 4.25 inches (15.24 x 10.8 cm)
- ▶ Comes in fluorescent yellow
- ▶ Weighs 0.35 lb (0.16 kg)

8143-40-FLY — MiFi Hotspot Case

APPLICATIONS

- ▶ Using customer supplied battery powered MiFi unit installed inside this case and attached to a pole creates a mini-network for internet access for users on the job site (Note: MiFi unit not included)

Hydration Pack

Stay hydrated on the job while maintaining workplace safety



FEATURES & BENEFITS

- ▶ 20 x 8 inches (20.32 x 50.8 cm)
- ▶ Chest strap with side release buckle
- ▶ 4-inch (10.16 cm) wide fabric with 2-inch (5.08 cm) wide reflective tape (same as safety vest)
- ▶ 1-inch (2.54 cm) wide polypropylene webbing allows shoulder straps to adjust
- ▶ 1000D Cordura Nylon is bonded to the 1/4-inch back padding
- ▶ Bladder size 2.5 liters (84.5 fl oz)
- ▶ Neoprene sleeve surrounds the hydration tube
- ▶ When bladder is completely full the hydration pack is 5 inches (12.7 cm) thick
- ▶ Mod-U-Lox® keeps hydration tube secure on either strap, allowing access to the bite valve for either right or left handed use (one on each side)
- ▶ Weighs (with water) 6.70 lb (3.03 kg)
- ▶ Weighs (without water) 1.20 lb (0.54 kg)

8125-60-FOR — Hydration Pack

APPLICATIONS

- ▶ Workplace Safety
- ▶ Construction environment



Plan Holder

Conveniently organize and store job site materials in your vehicle



FEATURES & BENEFITS

- ▶ Plan holder hangs on the back or front of any vehicle seat
- ▶ Slots which hold four 6-inch (15.24 cm) diameter plans
- ▶ Front pocket accommodates a note pad, phone, or other small items
- ▶ Organizer strap holds pens, pencils, markers, and other necessary tools
- ▶ Available in blue or black
- ▶ Weighs 0.95 lb (0.43 kg)

APPLICATIONS

- ▶ Vehicle storage and transportation of blueprints and plans

8046-10-BLU — Plan Holder

Prism and Tribach Bags

Designed to keep prisms and tribrachs secure

- ▶ Heavily padded for single prisms
- ▶ Measures: 5 x 7 x 2 inches*
- ▶ Available in Orange
- ▶ Weighs 0.48 lb (0.22 kg)

*Measured between the pads



8070-00-ORG — Single Prism Bag

- ▶ For triple prisms and prism targets or tribrachs
- ▶ Measures: 10 x 9.5 x 3 inches*
- ▶ Available in Orange
- ▶ Weighs 1.06 lb (0.48 kg)

*Measured between the pads



8081-00-ORG — Jumbo Triple Prism Bag

- ▶ Heavily padded for triple prisms
- ▶ Available in Orange
- ▶ Measures (interior*) 9 x 7 x 2 inches
- ▶ Weighs 0.75 lb (0.34 kg)

*Measured between the pads



8080-00-ORG — Triple Prism Bag

- ▶ Easily holds a tribrach
- ▶ Measures: 6 x 6 x 2 inches*
- ▶ Available in Orange
- ▶ Weighs 0.40 lb (0.18 kg)

*Measured between the pads



8071-00-ORG — Tribrach Case

- ▶ Holds a tilting prism with tribrach and adapter
- ▶ Measures: 12 x 12 x 3 inches*
- ▶ Available in Orange
- ▶ Weighs 1.85 lb (0.84 kg)

*Measured between the pads



8082-00-ORG — Super Jumbo Padded Bag

- ▶ Designed for vertical triple prism assemblies
- ▶ Holds target with tribrach and adapter
- ▶ Measures: 15 x 8 x 2 inches*
- ▶ Available in Orange
- ▶ Weighs 1.45 lb (0.66 kg)

*Measured between the pads



8130-00-ORG — Tall Triple Prism Bag

Instrument Tripod Bags and Cases

Designed to keep your instrument tripods safe and secure

- ▶ The SECO Instrument Tripod Bag holds all major brands of aluminum and wooden tripods
- ▶ Made of heavy-duty nylon Cordura, with a leather bottom, and pull string ties at the top
- ▶ Measures: 52 x 8.75 OD inches (132 x 22.23 OD cm)
- ▶ Weighs 0.26 lb (0.57 kg)



8150-00-ORG — Instrument Tripod Bag

- ▶ Made of durable rotational molded cross linked safety orange polyethylene and is UV stable
- ▶ Inside measures: 9 x 47 inches (22.86 x 119.38 cm)
- ▶ Comes with a life-time warranty
- ▶ Weighs 18.00 lb (8.16 kg)



8160-30 — Instrument Tripod Hard Case

- ▶ This heavy-duty bag will carry many different brands of tripods, including SECO and Tri-Max
- ▶ Features zipper closure
- ▶ Measures: 48 x 8 OD inches (121.9 x 20.3 OD cm)
- ▶ Weighs 1.80 lb (0.82 kg)



8154-11-ORG — Super-Duty Tripod Bag for All Major Brands

- ▶ This heavy-duty bag holds all major brands of aluminum or wood tripods
- ▶ Made of heavy-duty nylon Cordura and Rhinotek
- ▶ Pull string ties at the top
- ▶ Measures: 52 x 8.75 OD inches (132 x 22.23 OD cm)
- ▶ Weighs 1.85 lb (0.84 kg)



8150-20-ORG — Heavy-Duty Instrument Tripod Bag

Rover Rods, Robotics and Prism Pole Tripod Cases

Designed to keep your Rover rod, Robotics role and Prism pole tripods safe and clean

- ▶ Store your two-piece rover rod in this hard shell case and know it's protected
- ▶ Measures 4 ID x 41 in (10.16 ID x 104.14 cm)
- ▶ Weighs 3.20 lb (1.40 kg)



8162-20-BLK — GNSS Rover Rod Hard Shell Case

- ▶ Designed to protect the rods during transportation or storage
- ▶ This is a flat bag with a 10 inch flap
- ▶ Measures 5.5 inches ID x 41 inches long
- ▶ Weighs 0.45 lb (0.20 kg)



8162-00-ORG — Rover Rod Carrying Case

- ▶ External and internal side pockets hold extra gear
- ▶ Measurements: 6 OD x 46 inches (15.25 OD x 116.84 cm)
- ▶ Weighs 2.50 lb (1.14 kg)



8157-00-ORG — Short Padded System Bag

- ▶ External and internal side pockets hold extra gear
- ▶ Measurements: 6 OD x 58 inches (15.25 OD x 147.32 cm)
- ▶ Weighs 2.70 lb (1.23 kg)



8157-01-ORG — Long Padded System Bag

- ▶ Designed for carrying or storing your 2 meter rover rod
- ▶ Measures: 5.5 x 57 in (14 x 140 cm)
- ▶ Includes shoulder strap
- ▶ Weighs 0.60 lb (0.27 kg)



8160-02-ORG — Snap-Lock 2-Meter Rover Rod Bag

- ▶ The heavy-duty material-covered tube holds one- or two-section poles or rods
- ▶ Measures: 65 inches (1.63 m) in length
- ▶ Use to protect and carry your pole or rod
- ▶ Weighs 5.50 lb (2.50 kg)



8160-20-BLK — Prism Pole Hard Shell Case

- ▶ Protect your prism or range pole from dirt and moisture
- ▶ Measures: 61.5 x 6 in (156.21 x 15.24 cm)
- ▶ Fits all SECO and Crain poles
- ▶ Weighs 0.68 lb (0.31 kg)



8160-00-ORG — Prism or Range Pole Protective Bag

- ▶ Designed to carry a prism pole with tripod attached
- ▶ Has a fold-over flap and shoulder strap
- ▶ Made from nylon Cordura and durable Rhinotek
- ▶ Measures: 7.5 ID x 60 inches (19.1 ID x 152 cm)
- ▶ Weighs 1.55 lb (0.70 kg)



8180-20-ORG — Heavy-Duty Prism Pole Tripod Bag

- ▶ The prism pole tripod bag holds a prism pole with a tripod attached
- ▶ 60 inch (152 cm) long bag has fold-over flap
- ▶ Made from orange nylon Cordura®
- ▶ Weighs 1.08 lb (0.49 kg)



8180-00-ORG — Prism Pole Tripod Bag

Assorted Rod Carrying Cases

Designed to keep your One Shot, DE rod, Range pole, LR-STD, LR-PRO and CR rod safe and clean

- ▶ Fits either 8 feet or 2.4 meters rod
- ▶ Made from quality 1000-denier nylon
- ▶ Water-resistant
- ▶ Measures: 4.25 x 43 inches (10.8 x 109.2 cm)
- ▶ Weighs 0.40 lb (0.18 kg)



91422 — 8 ft One Shot Carrying Case

- ▶ This Cordura® bag has a reinforced bottom and a pocket for a sensor bracket
- ▶ Shoulder strap is also included
- ▶ Measures: 4 x 71 inches (10.16 x 180.34 cm)
- ▶ Weighs 0.50 lb (0.23 kg)



8166-01-ORG — Direct Elevation Rod Case

- ▶ This carrying case is made from the highest quality 1000-denier nylon
- ▶ Water-resistant
- ▶ Measures: 4.5 x 82 inches (11.4 x 208.3 cm)
- ▶ Weighs 0.45 lb (0.20 kg)



91402 — LR-STD/LR-PRO Carrying Case

- ▶ Fits 8 ft (2.4 m) rods
- ▶ Made from 1000-denier nylon
- ▶ Water-resistant
- ▶ Measures: 3.5 x 56.5 inches (8.9 x 143.5 cm)



91410 — CR-8 ft/2.4m Carrying Case

- ▶ Fits 13 ft/4 m, 16 ft/5 m and 20 ft/6 m rods
- ▶ Made from 1000-denier nylon
- ▶ Water-resistant
- ▶ Measures: 4.25 x 65.5 inches (10.8 x 166.4 cm)
- ▶ Weighs 0.45 lb (0.20 kg)



91411 — CR-13/16/20 ft / SVR-16/25 Carrying Case

- ▶ Textured heavy-duty poly
- ▶ Measures 7.5 x 46 inches (19.05 x 116.84 cm)
- ▶ Weighs 0.48 lb (0.22 kg)



8170-00-ORG — Range Pole Case

Lath and Stake Bags

Designed to hold your lath and stakes secure

- ▶ Carries up to 50 lath or rebar
- ▶ Measures 9 x 38 inches (2.54 x 96.52 cm)
- ▶ Weighs 0.22 lb (0.10 kg)



8102-01-ORG — 38 inch Lath Carrier

- ▶ Carries up to 50 lath or rebar
- ▶ Measures 9 x 38 inches (2.54 x 96.52 cm)
- ▶ Weighs 0.22 lb (0.10 kg)



8102-00-ORG — Lath Carrier

- ▶ Heavy-duty lath carrier features space inside for any standard 12 inch, five-gallon bucket
- ▶ Weighs 1.50 lb (0.68 kg) without bucket and approx. 3.85 lb (1.75 kg) with bucket added



8104-20-ORG — Heavy-Duty Bucket Lath Carrier

- ▶ Holds 36 or 48 inch (84 or 122 cm) wood lath
- ▶ Features a hand loop, shoulder strap, and outside pocket
- ▶ Weighs 0.80 lb (0.36 kg)



8100-00-ORG — 8 ID x 36 inches Lath Bag
8101-00-ORG — 8 ID x 48 inches Lath Bag

- ▶ Holds 24 inch (61 cm) wood lath
- ▶ Features a hand loop, shoulder strap, outside pocket
- ▶ 8 inch (20.3 cm) inside diameter
- ▶ Weighs 0.40 lb (0.18 kg)



8103-00-ORG — 24 in Lath Bag
8103-20-ORG — 24 in Heavy-Duty Rhinotek Lath Bag

- ▶ Use to carry 21 inch (53 cm) or 30 inch (76 cm) flags
- ▶ 8093-00-ORG weighs 0.22 lb (0.10 kg)
- ▶ 8094-00-ORG weighs 0.28 lb (0.13 kg)



8093-00-ORG — Wire Stake Flag Bag for 21 in Flags
8094-00-ORG — Wire Stake Flag Bag for 30 in Flags

- ▶ The main compartment of this bag is constructed of tough Rhinotek™ material and designed to hold 18 inch stakes or rebar
- ▶ Include hammer loop, adjustable strap and brass grommet drain holes — the 8091-20-ORG features a partition
- ▶ Standard bag weighs 1.55 lb (0.70 kg)
- ▶ Partitioned bag weighs 1.70 lb (0.77 kg)



8090-20-ORG — Heavy-Duty 18-inch Bag for Stakes or Rebar
8091-20-ORG — Heavy-Duty 18-inch Bag w/ Center Partition

- ▶ Heavy-Duty Lath Bag but with Rhinotek material on the bottom and six inches up the sides
- ▶ Designed in two sizes: 8 inches wide by 36 or 48 inches deep
- ▶ Both weigh approximately 1.50 lb (0.68 kg)



8100-20-ORG — 36 inch Heavy-Duty Lath or Rebar Bag
8101-20-ORG — 48 inch Heavy-Duty Lath or Rebar Bag

- ▶ This stake bag is the same as the 8090-20-ORG, but holds 24 inch stakes
- ▶ Features a Rhinotek bottom
- ▶ Standard bag weighs 1.70 lb (0.77 kg)
- ▶ Partitions bag weighs 1.60 lb (0.73 kg)



8092-20-ORG — Heavy-Duty 24-inch Bag for Stakes or Rebar
8096-20-ORG — Heavy-Duty 24-inch Bag w/ Center Partition

- ▶ Choose between a standard spray can holder or a holder with updated features like four pockets for pens/pencils and a heavy web strap



8098-00-ORG — Standard Spray Can Holder
8098-10-ORG — With Accessory Pockets (shown)

- ▶ For 18 inch (46 cm) stakes and rebar
- ▶ Measures: 19 x 8 x 12 inches (48.3 x 20.3 x 30.4 cm)
- ▶ Weighs 0.78 lb (0.35 kg)



8090-00-ORG — Bag for 18-inch Wood Stakes

- ▶ For 24 inch (61 cm) stakes and rebar
- ▶ Measures: 25 x 8 x 12 inches (63.5 x 20.3 x 30.5 cm)
- ▶ Weighs 0.95 lb (0.43 kg)



8092-00-ORG — Bag for 24-inch Wood Stakes

- ▶ Same as 8090-00-ORG but with center partition to separate stakes and hubs
- ▶ Weighs 0.88 lb (0.40 kg)



8091-00-ORG — Bag w/ Center Partition for 18 inch Wood Stakes

- ▶ Same as 8092-00-ORG but with center partition to separate stakes and hubs
- ▶ Weighs 1.10 lb (0.50 kg)



8096-00-ORG — Bag w/ Center Partition for 24 inch Wood Stakes

GNSS Pole and Tripod Bags

Designed to keep your GNSS tripods and rods safe and secure

- ▶ This bag features heavy-duty Cordura® material and Rhinotek™
- ▶ Shoulder strap is included
- ▶ Use with Heavy-Duty GNSS Antenna Tripods (5119-10)
- ▶ Measures: 8 inch ID x 56 inches (20.32 x 142.24 cm)
- ▶ Weighs 1.80 lb (0.82 kg)



8154-12-ORG — Heavy-Duty GNSS Tripod Bag

- ▶ Replacement carrying case for Radio Antenna Tripod
- ▶ Case comes included when you purchased the Radio Antenna Tripod (5300-11 & 5300-12)



8154-10-ORG — Radio Antenna Tripod Carrying Case

- ▶ Use with our Collapsible GNSS Antenna Tripod (5119-00) or other conventional tripods
- ▶ Designed to carry the tripod without the point on the center pole to prevent damage to the pole
- ▶ Features a full length heavy-duty zipper
- ▶ Available in orange
- ▶ Weighs 1.70 lb (0.77 kg)



8154-00-ORG — Collapsible GNSS Antenna Tripod Bag

- ▶ Features a full-length zipper and shoulder strap
- ▶ Measures: 82 x 9 OD inches (208.28 x 22.86 OD cm)
- ▶ Weighs 1.88 lb (0.85 kg)



8153-10-ORG — Extra-Large Antenna Tripod Bag

- ▶ This bag holds a 2 meter Snap-Lock pole and bipod or tripod (connected)
- ▶ Constructed of tough Cordura material and Rhinotek ends
- ▶ Weighs 1.50 lb (0.68 kg)



8151-02-FLY — Heavy-Duty Snap-Lock 2-Meter Pole System Bag

Robotics Backpack

Comfortable padded belt with lumbar back support system



FEATURES & BENEFITS

- ▶ 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
- ▶ Has a top rain flap with closure and rain flaps on the side pockets
- ▶ The free-standing aluminum frame keeps the pack upright even when fully loaded

8134-00-ORG — Robotics Backpack

- ▶ Comfortable padded belt with lumbar back support system, shoulder straps with all-point adjustment features, and a rubberized carrying handle
- ▶ Features a Rhinotek™ bottom
- ▶ Interior dimensions: 17 x 10 x 10 in
- ▶ Exterior dimensions: 24.5 x 15 x 16 in
- ▶ Weighs 8.00 lb (3.62 kg)
- ▶ Holds 40 lb (18.14 kg)

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport



Small GIS Backpack

Includes cam-lock, antenna pole, and several interior pockets



FEATURES & BENEFITS

- ▶ This pack includes a cam-lock antenna pole, adjustable straps, several interior pockets, belt loop straps, rain flap and much more
- ▶ Interior dimensions*: 15 x 9 x 4 in

*Measured between the pads

8125-50-ORG — Small GIS Backpack

- ▶ Pole extends from 16.5 to 36.5 inches (41.91 to 92.71 cm)
- ▶ Has 5/8 x 11 tip on antenna pole
- ▶ Weighs 2.00 lb (0.91 kg)

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport



Large GIS Backpacks

Solutions for every situation



FEATURES & BENEFITS

- ▶ This pack, which includes cool mesh and foam back pad, offers a convenient and comfortable way to transport and manage GIS instrumentation
- ▶ Other features include a built-in pocket for CamelBak® or other hydration systems and a protective rain flap round out this pack
- ▶ Packs has adjustable internal pockets; padded, adjustable shoulder straps, and waist belt
- ▶ Features a 5/8 x 11 tip
- ▶ Made of heavy-duty, high-vis polyester
- ▶ Interior dimensions: 20 x 9.5 x 4 in
- ▶ Weighs 2.80 lb (1.27 kg)

8125-00-ORG — Large GIS Backpack with Antenna Bar (shown)
8125-11-ORG — Large GIS Backpack with Cam-Lock Antenna Pole

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport



Total Station Rucksack

Similar style at lightweight day pack



FEATURES & BENEFITS

- ▶ The Total Station Rucksack is similar in style to a commercially available lightweight day pack
- ▶ Also features extra pockets and Rhinotek™ bottom
- ▶ Main compartment features an innovative 'wrap' made of 3/8-inch high-density foam with hook and loop adjustment that securely cradles all total stations
- ▶ Weighs 2.40 lb (1.10 kg)

8120-30-ORG — Total Station Rucksack - Holds 400 mm T. Station - Flo Orange (shown)
8120-30-YEL — Total Station Rucksack - Holds 400 mm T. Station - Yellow
8120-40-ORG — Total Station Rucksack - Holds 500 mm T. Station - Flo Orange

APPLICATIONS

- ▶ Keeps your total station safe and secure during transport



Front and Top Loading Total Station Cases

Heavy-duty cases for your Total Station



FEATURES & BENEFITS

- ▶ Features a Rhinotek bottom and durable backpack straps
- ▶ Measures: 14 x 9 x 7 in (35.6 x 22.9 x 17.8 cm)*

*Measured between the pads

PART NO.	LOADING SPACE	FEATURES	WEIGHS
8120-00-ORG	Front Loading	Cloth Frame	5.75 lb (2.61 kg)
8121-00-ORG	Top Loading	Cloth Frame	5.75 lb (2.61 kg)
8122-00-ORG	Front Loading	Aluminum Frame	7.50 lb (3.40 kg)
8123-00-ORG	Top Loading	Aluminum Frame	7.50 lb (3.40 kg)

APPLICATIONS

- ▶ Keeps your total station safe and secure during transport



GNSS Backpack

Free-standing aluminum frame with twist-locking antenna pole extensions



FEATURES & BENEFITS

- ▶ Heavy-duty freestanding aluminum frame with twist locking antenna pole extensions with 5/8 x 11 tip
- ▶ Three adjustable pockets
- ▶ Interior dimensions*: 17.5 x 14.75 x 3.75 inches
- ▶ Includes three adjustable internal pockets, two side and two bottom egress openings for cables, and four cable straps
- ▶ Weighs 6.30 lb (2.86 kg)

*Measured between the pads

8124-00-ORG — GNSS Backpack

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport



ChrisNik MagNails, MagSpikes and MagHubs

"Pound it Harder. Find it Farther"

- ▶ Mag Nails have been coated with an environmentally friendly zinc and clear chromate to resist corrosion
- ▶ Stronger, more durable, higher quality, magnetic and longer lasting than other nails
- ▶ Mag Nails are larger and magnetic making them easier to locate using the naked eye or a locator
- ▶ Each box includes 100 Mag Nails



- 24750 — 3/4 x 1/8 inch - Weighs 0.50 lb (0.23 kg)
- 241000 — 1 x 5/32 inch - Weighs 1.00 lb (0.45 kg)
- 241250 — 1-1/4 x 3/16 inch - Weighs 1.16 lb (0.53 kg)
- 241500 — 1-1/2 x 1/4 inch - Weighs 2.75 lb (1.25 kg)
- 242000 — 2 x 1/4 inch - Weighs 3.42 lb (1.55 kg)
- 242500 — 2-1/2 x 1/4 inch - Weighs 4.00 lb (1.81 kg)

- ▶ Constructed of premium steel that produces the most durable survey marker in the industry
- ▶ Like the Mag Nail the Mag Spike is magnetized for easy detection
- ▶ Featuring a large center point and 1-inch (2.54 cm) diameter head makes it great for control points and property corners
- ▶ Made in the USA



- 253MAGSPIKE — 3/8 x 3 inch (25 per box)
- 254MAGSPIKE — 3/8 x 4-1/2 inch (25 per box)
- 256MAGSPIKE — 3/8 x 6 inch (20 per box)
- 258MAGSPIKE — 3/8 x 8 inch (20 per box)

- ▶ The Mag Hub is magnetized for easy detection and zinc plated to resist corrosion
- ▶ Featuring a large center point and looks like a standard survey marker
- ▶ Not made to be driven into asphalt or concrete
- ▶ Easy to carry and less expensive than stakes
- ▶ Mag Hubs come in a 30 lb (13.61 kg) box approximate quantities are below



- 23MAGHUB4 — 3/16 x 4 inch (Approx. 885)
- 23MAGHUB6 — 1/4 x 6 inch (Approx. 362)
- 23MAGHUB8 — 1/4 x 8 inch (Approx. 272)

Estwing Hand Tools

- ▶ Estwing's Camper's Axe is forged in one piece steel and features the exclusive nylon Shock Reduction Grip®
- ▶ Comes with an embossed leather sheath
- ▶ Cutting edge: 4 inches (102 mm)
- ▶ Overall length: 16 inches (406 mm)
- ▶ Weighs 2.90 lb (1.32 kg)



9070-00 — Camper's Axe with Sheath

- ▶ Estwing's Rigger's Axe is forged in one piece steel
- ▶ Features the exclusive Nylon Shock Reduction Grip
- ▶ Hammer head on one side and cutting edge on the other
- ▶ Cutting edge: 3.5 inches (89 mm)
- ▶ Overall length: 16.75 inches (426 mm)
- ▶ Weighs 3.00 lb (1.36 kg)



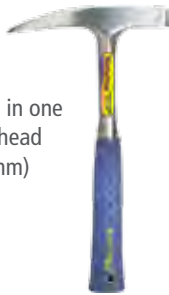
9070-01 — Rigger's Axe

- ▶ The 22 oz Long Handle Rock Pick features a bonded and molded Shock Reduction Grip which offers the utmost in both comfort and durability, while reducing vibrations caused by impact
- ▶ The head and handle are forged in one piece and have a fully polished head
- ▶ Overall length: 16.5 inches (419 mm)
- ▶ Weighs 22 oz (616 g)



9070-02 — Long Handle Rock Pick

- ▶ Estwing Rock Picks have bonded and molded Shock Reduction Grip which offers the utmost in both comfort and durability, while reducing vibrations caused by impact
- ▶ The head and handle are forged in one piece and have a fully polished head
- ▶ Overall length: 13 inches (330 mm)
- ▶ Weighs 22 oz (616 g)



9070-03 — Rock Pick

- ▶ Estwing Leather Sheath for Pointed Tip and Chisel Edge Picks



9070-04 — Leather Pick Sheath

- ▶ Estwing's Solid Steel Framing Hammer has a long handle for more striking power
- ▶ The head and handle are fully polished and forged in one piece
- ▶ Our exclusive Shock Reduction Grip is molded on and offers the utmost in both comfort and durability, while reducing vibrations caused by impact
- ▶ Overall length: 16 inches (406 mm)
- ▶ Weighs 30 oz (840 g)



9070-05 — Milled Face Framing Hammer

- ▶ The Drilling Hammer has a bonded and molded Shock Reduction Grip which offers the utmost in both comfort and durability, while reducing vibrations caused by impact
- ▶ The head and handle are forged in one piece, both faces are fully polished
- ▶ Overall length: 11.5 inches (292 mm)
- ▶ Weighs 4.00 lb (1.80 kg)



9070-06 — Drilling Hammer

- ▶ The Estwing Rock Chisel features a vinyl grip for comfort and durability
- ▶ Overall length: 12 inches (305 mm)
- ▶ Cut Point: 0.625 inch
- ▶ Stock: 0.375 inch
- ▶ Weighs 0.97 lb (0.44 kg)



9070-07 — Rock Chisel

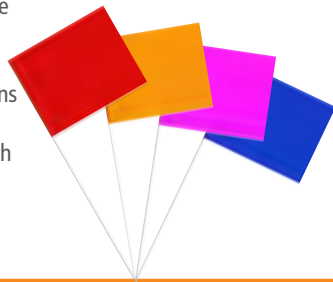
- ▶ The Engineer's Hammer has a bonded and molded Shock Reduction Grip which offers the utmost in both comfort and durability, while reducing vibrations caused by impact
- ▶ The head and handle are forged in one piece, and have an attractive blue UV coating, both faces are fully polished
- ▶ Overall Length: 16 inches (406 mm)
- ▶ Weighs 48 oz (1.34 kg)



9070-08 — Engineer's Hammer

Stake Flags, Flagging Tape, Field Marking and Whiskers

- ▶ These biodegradable stake flags are made of a new superior formula
- ▶ Presco PVC marking flags resist breaking under high wind conditions and extreme cold
- ▶ Two flag sizes and three wire length options are available in regular or PresGlo colors
- ▶ 100 flags per bundle



PART NO.	FLAG SIZE	WIRE	COLOR
9030-01	2 x 3 inch	21 inch	Orange Glo
9030-02	2 x 3 inch	21 inch	Pink Glo
9030-03	2 x 3 inch	21 inch	Yellow
9030-04	2 x 3 inch	21 inch	White
9031-01	2 x 3 inch	30 inch	Orange Glo
9031-02	2 x 3 inch	30 inch	Pink Glo
9031-03	2 x 3 inch	30 inch	Yellow
9031-04	2 x 3 inch	30 inch	White
9031-06	2 x 3 inch	30 inch	Red
9035-01	4 x 5 inch	21 inch	Orange Glo
9035-02	4 x 5 inch	21 inch	Pink Glo
9035-03	4 x 5 inch	21 inch	Yellow
9035-04	4 x 5 inch	21 inch	White
9035-05	4 x 5 inch	21 inch	Blue
9035-06	4 x 5 inch	21 inch	Red
9035-07	4 x 5 inch	21 inch	Blue Glo
9035-11	4 x 5 inch	21 inch	Orange
9035-12	4 x 5 inch	21 inch	Red Glo
9035-13	4 x 5 inch	21 inch	Yellow Glo
9036-01	4 x 5 inch	30 inch	Orange Glo
9036-02	4 x 5 inch	30 inch	Pink Glo
9036-03	4 x 5 inch	30 inch	Yellow
9036-04	4 x 5 inch	30 inch	White
9036-05	4 x 5 inch	30 inch	Blue
9036-06	4 x 5 inch	30 inch	Red
9036-07	4 x 5 inch	30 inch	Blue Glo
9036-08	4 x 5 inch	30 inch	Green
9036-09	4 x 5 inch	30 inch	Green Glo
9036-10	4 x 5 inch	30 inch	Lime Glo
9036-11	4 x 5 inch	30 inch	Orange
9036-12	4 x 5 inch	30 inch	Red Glo
9036-13	4 x 5 inch	30 inch	Yellow Glo
9037-01	4 x 5 inch	36 inch	Orange Glo
9037-02	4 x 5 inch	36 inch	Pink Glo
9037-03	4 x 5 inch	36 inch	Yellow
9037-05	4 x 5 inch	36 inch	Blue
9037-06	4 x 5 inch	36 inch	Red

- ▶ Presco long-lasting outdoor flagging
- ▶ Roll Width: 1 inch
- ▶ 5 lb boxes of 12 rolls

PART NO.	COLOR	LENGTH
9040-01	Orange Glo	150 ft
9040-02	Pink Glo	150 ft
9040-03	Yellow	300 ft
9040-04	White	300 ft
9040-05	Blue	300 ft
9040-06	Red	300 ft
9040-07	Blue Glo	150 ft
9040-08	Green	300 ft
9040-09	Green Glo	150 ft
9040-10	Lime Glo	150 ft
9040-11	Orange	300 ft
9040-12	Red Glo	150 ft
9040-13	Yellow Glo	150 ft
9040-14	Black	300 ft
9040-15	Pink	300 ft
9040-16	Purple	300 ft



- ▶ Permanent marker are leak-proof with a seamless metal body
- ▶ Chisel tip marks are extremely durable on wood, metal, and more
- ▶ AP certified non-toxic
- ▶ Box of 12 weighs 3.75 lb (1.70 kg)



9060-06 — Dixon Redimark Marker - Red
9060-14 — Dixon Redimark Marker - Black

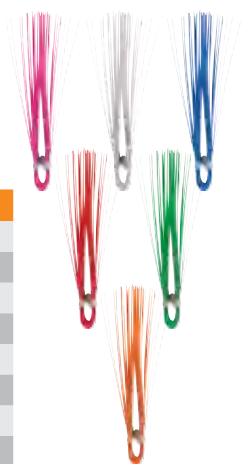
- ▶ The steel Presco Roll Flagging Belt Dispenser is a convenient time-saver
- ▶ Weighs 1.30 lb (0.59 kg)



9040-20 — Flagging Tape Dispenser

- ▶ Presco 6-inch Marking Whiskers™ are an alternative marking choice for survey and construction sites, underground utility locating and many other uses
- ▶ Use with a 60-Penny nail or a wood stake
- ▶ Whiskers come in a bundle of 25 each

PART NO.	COLOR	WEIGHTS
9050-01	Orange Glo	0.30 lb (0.14 kg)
9050-02	Pink Glo	0.30 lb (0.14 kg)
9050-03	Yellow	0.30 lb (0.14 kg)
9050-04	White	0.30 lb (0.14 kg)
9050-05	Blue	0.30 lb (0.14 kg)
9050-06	Red	0.30 lb (0.14 kg)
9050-08	Green	0.30 lb (0.14 kg)
9050-11	Orange	0.30 lb (0.14 kg)



- ▶ For aerial mapping and surveying jobs requiring a perimeter for photos
- ▶ Rolls are white in color



PART NO.	SIZE	WEIGHTS
9045-01	300 ft x 12 in	4.90 lb (2.22 kg)
9045-02	300 ft x 18 in	7.36 lb (3.34 kg)
9045-03	300 ft x 24 in	7.70 lb (3.49 kg)
9045-04	300 ft x 36 in	14.00 lb (6.35 kg)

- ▶ Dixon® Lumber Crayons are great for marking steel, concrete, stone, lumber, etc.
- ▶ Box of 12 weighs 3.00 lb (1.36 kg)

9061-02 — Crayons - Flo Pink
9061-03 — Crayons - Yellow
9061-04 — Crayons - White
9061-05 — Crayons - Blue
9061-06 — Crayons - Red
9061-14 — Crayons - Black



- ▶ Holds a crayon or marker up to 0.5-in in diameter
- ▶ Holds round or hexagonal shapes
- ▶ Has a metal chuck and a wrist strap hole for increased durability and functionality
- ▶ Weighs 0.50 lb (0.23 kg)



9062-00 — Dixon Wood Crayon Holder

Field Marking and Miscellaneous Accessories

- ▶ Choose between a 17.5 inch blade and a 13 inch blade for clearing that thick underbrush on the job site
- ▶ Weighs approx. 1.00 lb (0.45 kg)



9500-17 — 17.5 inch blade, includes sheath
9500-13 — 13 inch blade, includes sheath

- ▶ 9500-01 is for knife and scissor sharpening
- ▶ Weighs 0.05 lb (0.02 kg)
- ▶ 9500-02 is for Axes or other edged tool sharpening
- ▶ Weighs 0.20 lb (0.09 kg)



9500-01 — For knives and scissors
9500-02 — For hand tools

- ▶ Shot bags are great for holding down maps or blueprints in windy conditions
- ▶ Weighs 1.50 lb (0.68 kg)



8010-00 — Vinyl Shot Bag
8010-10-BLU — Cordura Shot Bag

- ▶ Lightweight aluminum center punches are great for marking a variety of materials or punching starter holes for nails or drill bits
- ▶ Durable removable-tip scribers are perfect for making quick and accurate marks on hard work pieces
- ▶ The scriber features a durable tungsten carbide point that is able to make precise marks to 1/100th of an inch
- ▶ The magnetic cap quickly cleans up stray metal shavings



9068-02 — Heavy-Duty Center Punch
9068-03 — Carbide Scriber

- ▶ Rite in the Rain bound books ensure that your valuable data won't be lost
- ▶ These all-weather books have 160 pages (80 sheets), including a title and contents page
- ▶ This 4-3/4 x 7-1/2 inch yellow field book also features a sewn binding
- ▶ Weighs 0.65 lb (0.29 kg)



Transit Pattern
8 vertical lines
to the inch



Level Pattern
6 vertical columns
on the page

9090-00 — Transit Pattern Bound Books
9091-00 — Level Pattern Bound Books

- ▶ Replacement caps and points fit all SECO plumb bobs



6000-001 — Plumb Bob Cap
6000-002 — Plumb Bob Point

- ▶ Pin cushion for holding stake tacks



2180-00 — Regular Tac Ball
2180-01 — Tac Ball with Clip

- ▶ Use the paper targets with a #50 survey nail or stick the target to just about anything
- ▶ Measures 2 x 3.5 inches



9000-01 — Paper Targets with holes, 100 count
9000-02 — Paper Targets (sticky back), 25 count

- ▶ The 3/16 inch spring steel, 14 inch pins are powder-painted red and white, alternating at each inch
- ▶ Quiver (8041-00-ORG) sold separately
- ▶ Weighs 1.54 lb (0.70 kg)



2183-00 — Marking Pins 11 count

- ▶ Ideal-Mark® permanent marking pens are legendary for their performance and are an excellent value
- ▶ Features include a leak-proof aluminum valve, pocket clip and color-coded cap
- ▶ 12 count each



9063-06 — Ideal-Mark Valve Action Markers - Red
9063-14 — Ideal-Mark Valve Action Markers - Black
9064-01 — Replacement Bullet Tip
9064-02 — Replacement Chisel Tip

- ▶ Rite in the Rain Field Ring Binders are extremely durable
- ▶ Made with Polydura and rust resistant metals
- ▶ Designed to fit the 4-5/8 x 7 inch standard size loose leaf sheets (sold separately, see details below)
- ▶ Weighs 0.30 lb (0.14 kg)



9092-00 — Field Ring Binder
9092-01 — Transit Pattern Loose Leaf Sheets (100 Sheets)
9092-02 — Level Pattern Loose Leaf Sheets (100 Sheet)

- ▶ Each solid brass bob features a hardened steel point and a storage area for a spare point
- ▶ Available weights: 12 oz (340 g), 14 oz (397 g), 16 oz (454 g), 18 oz (510 g), 24 oz (680 g), 32 oz (907 g)



6000-Series — Plumb Bobs

- ▶ Heavy-duty sheath is double stitched top grain leather with a belt loop for SECO plumb bobs



6000-120 — Leather Sheath for 10-12 oz (283-340 g)
6000-160 — Leather Sheath for 14-18 oz (397-454 g)
6000-240 — Leather Sheath for 24-32 oz (510-907 g)

- ▶ 10 lb of Shiners with included bag
- ▶ 2181-10 - approximate qty: 1,125
- ▶ 2182-10 - approximate qty: 1,300
- ▶ Weighs 10.00 lb (4.53 kg)



2181-10 — Bulk Shiners - Flat
2182-10 — Bulk Shiners - Raised

- ▶ Raised Shiners are 1.94 in OD
- ▶ Features a raised 29 mm center
- ▶ Weighs 1.00 lb (0.45 kg)



2182-00 — Raised Shiners, 260 count

- ▶ Flat shiners are 2.25 in OD
- ▶ Featuring punched centers with crimped edges
- ▶ Weighs 2.60 lb (1.18 kg)



2181-00 — Flat Shiners, 250 count

- ▶ The Gammon Reel® is almost a given on any job site
- ▶ The 24 yard refillable cord comes in many colors



6001-06 — Gammon Reel 7 ft (2 m)
6001-12 — Gammon Reel 12 ft (3.7 m)

- ▶ 24 yard (22 m) bobbin of Gammon Reel refill cord
- ▶ Available in flo red, flo yellow and orange



6001-FR — Gammon Reel Refill - Flo Red
6001-FY — Gammon Reel Refill - Flo Yellow
6001-OR — Gammon Reel Refill - Orange

-30 and 0 mm Premier Prism Assembly	26	Estwing Hand Tools	80	Quick-Release Claw Components	8
-35 mm Premier Prism Assembly	26	Euro-Style Pole System	29	Quick-Release Telescopic Prism Poles	18
1X and 2X Magnification Hand Levels	51	Extra-Tall Fiberglass Elevator Tripod	40	Rear Locking 62 mm Premier Prism Assembly	25
2 mm Metric Telescoping Prism Poles	18	Field Marking and Miscellaneous Accessories	82	Receiver Brackets for Laser DE Rods	49
4 inch Wide Stream Gauges	55	Front and Top Loading Total Station Cases	79	Rectangular Series (CR) Leveling Rods	48
7 inch Wide Stream Gauges	54	Front Locking 62 mm Premier Prism Assembly	25	Reflector Pin Pole Kit	29
10 Meter RTK Radio Antenna Pole	5	Geodimeter Style Prism Poles	15	Rhino Ruler Engineer's Folding Ruler	52
11 Foot Fiberglass Tripod	41	GNSS Accessories and Adapters	10	Robotics Backpack	78
24X and 32X Magnetic Auto Level and Packages	56	6-ft Snap-Lock Radio Antenna		Rod Levels	13
25 mm 'L-Bar' Mini Prisms	32	All Terrain "Big Wheel"		Rover Rods, Robotics and Prism Pole Tripod Cases	76
25 mm Stakeout Prism Assembly	31	Aluminum Antenna Mast Tripod		Short Tri-Max	39
32X Air Dampened Auto Level	57	Antenna Bracket		SL101 Mesa Laser Level w/ Twister Receiver	59
58 mm Prism Assembly	28	GNSS Quick-Disconnect Adapters		Sliding 360° Prism Kit	28
62 mm Nodal Point Prism Assembly	27	GNSS Quick-Release Adapters		Sliding Mini Prism Kit	28
62 mm Strobe Prism Premier Assembly	25	Hardwood/Fiberglass Antenna Mast Tripod		Sliding Prism with Tilting Reflector	15 & 27
100 mm Scanner Sphere with Magnet	43	Radio Antenna Bracket for Tripod		Small GIS Backpack	78
100 mm Sphere Prisms, Adapters, Magnets and Kits	45	Radio Antenna Mast Assembly		Small Tilting Mini Prism	32
152.4 mm Omnidirectional EMF Scanner Targets	43	Satellite Stick		Snap-Lock Rover Rods	6
200 mm Extension with Height Lever	22	Triple Mag Mounts		Stake Flags, Flagging Tape, Field Marking and Whiskers	81
230 mm Scanner Sphere	43	GNSS Antenna Platform	5	Stakeout Mini Prism Kit	31
230 mm Sphere Adapters, Cases and Accessories	44	GNSS Backpack	79	Standard and Heavy-Duty GNSS/MC Tripods	4
360° Robotic Prism Assembly	14	GNSS Bracket for Truck Door	12	Standard and High Precision Tribachs	37
8063-Series Surveyors Utility Vest	71	GNSS Pole and Tripod Bags	78	Standard Series (LR) Leveling Rods	48
8067-Series Heavy-Duty Safety Utility Vest	72	Gopher Pole Wire Installation Tool	65	Standard Track Rod	32
8068-Series Safety Utility Vest	70	Heads-Up Levels	13	Standard Vests	72
8069-Series Safety Utility Vest	70	Heavy-Duty Birch Wood Tripods	41	Storm Laserometer Receiver	62
8260 U.S. and Canadian Dual Safety Utility Vest	69	Heavy-Duty Column Clamp	63	SubSurface Handheld Magnetic Locators	50
8265-Series Safety Utility Vest	68	Heavy-Duty Pocket Tape	52	SubSurface Waterproof Magnetic Locators	50
8266 U.S. and Canadian Dual Safety Utility Vest	69	HL100 Mesa Laser Level w/ Twister Receiver	59	Surveyor's Series (SVR) Leveling Rods	47
8290-Series Economy Safety Vest	71	Hydration Pack	74	SVR Brackets for Laser Receivers	47
8292-Series Safety Utility Vest	68	Instrument Tripod Accessories	37	Swiss-Style QLV Prism Poles	16
8365-Series Safety Utility Vest	66	Instrument Tripod Bags and Cases	75	Swiss-Style TLV Prism Poles	16
8368-Series Safety Utility Vest	66	Interior Vehicle Bracket Systems	8	Swiss-Style Twist-Lock Prism Pole	16
8374-Series Mesh Safety Utility Vest	67	Large GIS Backpacks	79	Telescopic Carbon Fiber Prism Pole	16
8390-Series Mesh Safety Vest	67	Laser Distance Meters	65	Telescopic Carbon Fiber Rover Rods	6
Accessories for Robotics Gear	14	Laser Micro Tripod	63	Thunder 54 Laser Detector	64
Adjustable-Tilt Stainless Steel Adapters	4	Laser Tilting Base	63	Thunder 56 Laser Detector	64
Air or Magnetic Dampened Auto Level	57	Lath and Stake Bags	77	Tilting Triple Prism Assembly	26
Aluminum Builder's Rods	46	Leveling Rod Accessories	46	TLV and Twist-Locking Telescopic Prism Poles	18
Antenna Mounts for GNSS Networks	5	5/8 x 11 Double Mail Prism Adapter		Tool Pouches	72
Assorted Rod Carrying Cases	76	6-inch Caliper for SVR/Oval Rods and CMR Ruler		Total Station Rucksack	79
ATV Pole Bracket System	11	6.5 ft Pocket Rods		Traditional-Style DE Rods	49
Baja Style Bucket Bag	74	Invar Rod Thumb Release Bipod		Traverse Kit	36
Baja Style Tool Pouch	73	Leveling Plates		Traverse Kit for 155 mm Heights	35
Ball-and-Socket and Claw Accessories	7	Leveling Rod Thumb Release bipod		Traverse Kit for 196 mm Heights	35
Ball-and-Socket Claw Combos	9	Leveling Rod Vial		Traverse Tribach Adapter	35
Ball-and-Socket Cradles	7	Swiss-Style Prism Adapter		Triangular Scale Tapes	53
Batter Board Clamp	64	Snap-Tite CR Rod Level		Tribachs & Adapters	36
Bipods & Tripods	23	Snap-Tite SVR Rod Level		Fixed Tribach Adapter	
Alligator Clamp Tripod		USL/SVR Hook		Horizontal Base	
Bipod Leg Clip		Lightning 2 Laser Detector	61	Laser Tribach	
Carbon Fiber Thumb Release Bipod and Tripod		Lightweight Cut and Fill Rod	47	Prism H.T. Adapter	
Contractor Series Thumb Release Bipod		Matador Tripods	40	Rotating Tribach Adapter	
Contractor Series Thumb Release Tripod		MiFi Hotspot Case	74	Rotating Tribach Adjuster	
Mini Mono Pod Kit		Mining, Tunneling Monitoring and Rail Accessories	32-34	Tribach Adjuster	
Mini Tripod with 12-inch legs		Mini Poles	15	Tribach Adjusting Cylinder	
Original Thumb Release Bipod		Mini Prism System	30	Tribach with Optical Plummet	
Quick Lever Bipod with Thumb Release Legs		Mini Stakeout Prism with Site Cones	31	Tri-Max Fiberglass Elevator Tripod	39
Thumb Release Mini Bipod		Mounting Hardware For Stream Gauges	55	Tri-Max Tri-Dolly	38
Thumb Release Tripod		Offset Tools	20	Tri-Max Tripods	38
Birch Wood/Fiberglass Hybrid Tripod	41	Open Clamp Pole Brackets and Cradles	9	Tripod Radio Antenna Kit	4
Bullseye 3+ Laser Receiver	60	Pin Pole with Sliding 25 mm Prism System	29	Twister Laser Receiver	62
Bullseye 5+ Laser Receiver	60	Plan Holder	11 & 75	Two-Piece GNSS Rover Rods	6
Bullseye 6 Laser Receiver	60	Pole Extensions	22	Ultralite Prism Poles	19
Bullseye Magnetic Mounts	63	Premier Fiberglass Tripod	40	Universal Tri-Max Elevator Tripod	39
Bullseye Receiver Remote Cables and Accessories	61	Prism Adapters, Tips and Topo Shoes	21	Un-Numbered Stream Gauges	54
Bullseye Remote Display	61	Center Punch Point		Utility Bags and Miscellaneous Cases	73
Carbon Fiber Robotics Poles	14	Contractor Series Range Poles		UTV Roll Cage Transporter for GNSS Rods	12
ChrisNik MagNails, MagSpikes and MagHubs	80	Double Angle Prism		Vials	13
CMR Series Measuring Rulers and Cases	52	Double Male Adapter		Walleye Prism System	34
Coated Fiberglass and Steel Measuring Tapes	53	Laser Detector Mount			
Column Clamp	62	Pole Peg Adjusting Kit			
Compression Lock Telescopic Prism Poles	19	Prism Pole Adapter			
Construction Theodolite	58	Stedi-Rest			
Contractor Series 62 mm Prism Assembly	26	Titanium Prism Pole Point			
Contractor Series Compression Lock Poles	20	Topo Shoe and Point Combo			
Contractor Series TLV Prism Poles	20	Wild Prism Adapter			
Contractor Series Surveyors Kits	30	Prism and Tribach Bags	75		
Crain Aluminum Elevator Tripods	42	Prism Assembly Components	27		
Crain Cargo Net by Bednet	11	Prisms and Prism Assembly Accessories	31		
Crain Round Leg Aluminum Tripods	42	Prisms Assembly and Accessories	30		
Crain Square Leg Aluminum Tripods	42	QLV Locking Prism Poles	19		
Eclipse 62 mm Nodal Point Prism Assembly	27	Quick Change Pole Adapters	17		
'E' Pattern Builder's Rods	49	Quick Change Prism Poles	17		
		Quick-Release Adapter for TX5 and 3D Scanners	44		



www.surveying.com



Scan with your Smartphone
to view the mobile version
of this catalog