sēco

SURVEY GNSS CONSTRUCTION MINING ENERGY AGRICULTURE GIS/GPS

2017 CATALOG

New Products

PAGE 6

Bracket for Tablets
(5200-35)

Includes a Ball and Socket Link and a Claw clamp with 1 inch ram ball

PAGE 31

Sliding 360° Prism Kit
(5910-24)

Allows for quick shots in confined line-of-sight situations and for more precise height measurements

(2159-06)

PAGE 37

(2159-07)

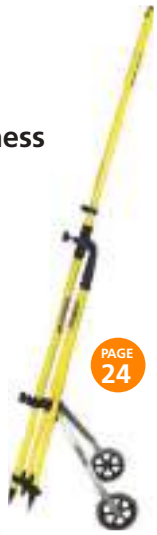
Precision Traverse Kits

These new Traverse Kits are a high quality, high precision European made product

PAGE 7

Tablet Shoulder Hook or Harness
(5200-95 and 5200-96))

Provides secure hands-free operation during field use



PAGE 24

POLE TRANSPORTER
(5125-058)

Reduce your daily effort with this new product designed to save energy and effort in the field

PAGE 71

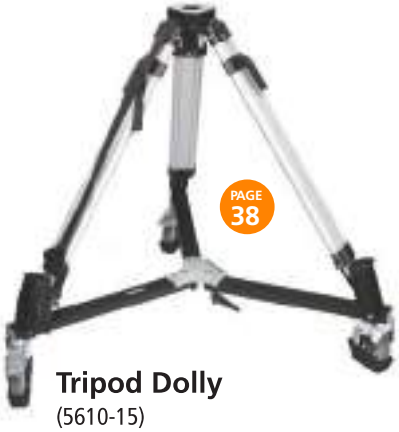
Brass Survey Marker
(2183-01 – 2183-06)

Permanent monument markers for survey control points

PAGE 60

SECO Class 2 Safety Utility Vest
(8261 Series)

Meets EN 20471:2014 Class 2 specifications



PAGE 38

Tripod Dolly
(5610-15)

Allows for easy maneuverability of all surveying tripods

PAGE 29

BACK LIGHTED TARGET WITH THREE PHASES (6400-12-FOR)

Ideal for night surveys, forensics, tunneling, mining or any low-light situations.

Note on the Flags: All products are available worldwide. The US flag means that the product is shipped from the US warehouse only. The EU flag means that it can also be shipped from our European warehouse.

EVERYTHING YOU WANTED TO KNOW ABOUT QR CODES, BUT WERE AFRAID TO ASK

Quick Response Codes (QR codes) are a type of two-dimensional, matrix-style barcode. Using a camera and an app installed on a smartphone, iPhone or tablet, QR codes link to a web page designed to provide more information and show pictures or a video. Most smartphones or tablets contain pre-loaded QR code reader apps, and there are free ones available through most device's app stores (examples: Android Market, Apple App Store, etc.).

product shipped from the US warehouse only

Section One

GNSS Accessories 6-11
Vehicle Accessories 12-13
Vials and Levels 13

Section Two

Laser Scanner Accessories 14-15
Robotics Applications Accessories 16
Specialty Prism Poles 17-18
Prism Poles and Accessories 19-24
Prism Pole Bipods & Tripods 25

Section Three

Prisms, Assemblies and Pin Pole Kits 27-30
Sliding Prisms and Surveyor Kits 31
Mini Prisms 32
Mining, Tunneling, Monitoring and Rail 32-34

Section Four

Tribrachs and Adapters 34
GeoDesy Products 35-36
Traverse Kits 37
Instrument Tripod and Accessories 38-42

Section Five

Leveling Rods and Accessories 43-46
Magnetic Locators 47
Measuring Rulers and Tapes 48-49
Laser Distance Meters 49
Stream Gauges and Supplies 50-51

Section Six

Hand Levels 51
Optical Instruments 52-53
Construction Lasers and Detectors 54-56
Gopher Pole Wire Installation Tool 56

Section Seven

Column Clamps 57
ANSI/ISEA Class Safety Utility Vests 58-63
Bags and Cases 64-68
Magnetic Nails and Hand Tools 69

Section Eight

Stake Flagging, Tape, Field Markers and Whiskers 70
Miscellaneous Field Supplies 71
Rite in the Rain 72

Notes 73
Index by Part Number 74-75
Index by Category 76-79

SECO Manufacturing – 40 Years of Innovation – 72 Years of Inspiration

SECO Manufacturing Co., today enjoys a worldwide reputation for being on the cutting edge of manufacturing accessories for surveying, construction, utilities and other industries using GPS/GNSS technology. It started as a father-son retail enterprise, more than 70 years ago.

Early beginnings: 1944-1977

The SECO story began in 1944 when Ivan Ogden, a civil engineer for the State of California Division of Highways, developed polio. Prior to his illness, he worked in the San Francisco Bay Area, including a stint as a surveyor on the Bay Bridge. After his illness, Ivan was confined to a wheelchair and unable to return to traditional work, so he began repairing survey transits in his home.

Soon, thereafter, Ivan and his wife, Viola, opened a retail surveying business called Ogden Surveying Equipment Company (OSECO) on Elvas Avenue in Sacramento. It offered instruments, equipment, supplies and services for land surveyors. Following his dad into the business, Paul Ogden opened his first retail store, Surveying Equipment Company (SECO), in Redding, CA in 1965. Over the next 12 years the company opened retail branches in Medford and Bend, Oregon as well as Boise, Idaho.

Manufacturing and Innovation: 1977-2017

In 1977, Paul Ogden established a new corporation, SECO Manufacturing Company, Inc., to focus on manufacturing rather than retail.

This came about through the invention of a new survey technology: the electronic distance measuring (EDM) instrument, which quickly replaced the traditional method of using a steel measuring tape. A survey that once took days or weeks with conventional equipment would now take seconds with the electronic mechanisms. The Ogden retail business sold this new instrument, which was housed in a box-like case that mounted on the telescope of the survey transit (theodolite). The mount was awkward and damaging to the instrument, but there was nothing else available.

Paul started experimenting with adapters and a yoke that would allow the surveyor to mount the distance meter to the standards (sides) of the instrument, thus freeing the telescope to move freely. The production of yoke adapters, as they were then called, would lead the Ogdens into the manufacturing industry.

In 1978, shortly after incorporation as SECO Manufacturing, Paul rented a small exhibit space at a national surveyors trade show and displayed several of his aluminum adapters. By then there were scores of competing EDM instruments on the market and each one had a different contour and configuration where the mount attached. SECO offered adapters for any instrument. The response allowed SECO to drop its retail business and concentrate on manufacturing products for the survey industry, starting with the yoke adapters.

Many things have changed since 1977. The electronic distance measuring box has been replaced with the "total station" which integrates the distance device with the theodolite. This created a need for numerous other accessories such as poles that would hold the glass prism for the distance meter, carrying cases, tripods, etc. The pioneering yoke adapter was officially discontinued in 1995.

The company has continued its tradition of innovation. SECO product managers are known for coming up with solutions for any kind of field requirement for survey, construction, mining and energy industries. It's also become a world-wide supplier of these products, with dealers in almost every continent.

SECO, with corporate headquarters based in Redding, CA, controls all facets of its manufacturing business. The company is vertically integrated, managing the entire process in-house, using its multiple manufacturing facilities. With sites in North America and Europe, SECO controls the process from design to the manufacturing of goods. The multiple sites also assist in the distribution and service for the products.

In 2013, SECO acquired GeoDesy, a company based in Hungary that is well-known for supplying high-end tribrachs to the survey and construction industries.

Precision manufacturing, quality focus, and skilled workmanship provide consistency to always meet and exceed customers' expectations. SECO's continued goal is to be the best accessories supplier for surveying and construction markets. This ongoing mission will ensure that investing in SECO brand products will remain the smartest investment for productivity and longevity in the field.

SECO 2017 40 YEARS OF INNOVATION 1977 GeoDesy by SECO

In the Field with SECO

Standard and Heavy-Duty GNSS/MC Tripods

Large telescoping legs

FEATURES & BENEFITS

- 5119-00 version offers dual graduations, collapsible center staff with a screw clamp 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

Part No. 5119-10-FLY

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

Adjustable-Tilt Stainless Steel Adapters

Professional Stainless Steel CORS monument adapters

FEATURES & BENEFITS

- Adapters in the 2072-Series have 3.20-in (8.19-cm) diameters and overall heights of 3.036-in (7.71-cm)
- Adapters are leveled by three screws with a tilt range +/- 7°
- Includes a removable brass 5/8 x 11 male stud that is adjustable in azimuth and held in location by two set screws
- The axis height is engraved on the outside of the monuments
- Height above the pivot point to stud shoulder is 1.37-in (3.50-cm)
- Height below the brass 5/8 stud to shoulder is 0.463-in (1.18-cm
- 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 2072-20 brass rotating adapters are 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

Part No. 2072-30

PART NO.	DESCRIPTION	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)

Ball and Socket Tablet Combos

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

5200-35

FEATURES & BENEFITS

- Pole Clamp locks securely to the pole, no slipping!
- All ports, connections, and camera are accessible and usable with the bracket attached
- Easy "snap in/out" design holds the tablet securely
- Compatible with add-on keyboard and extended battery
- Made from a single, solid 0.080 inch (2.03 mm) aluminum sheet metal
- Features ram ball links which allow many positions

Part No. 5200-35

PART NO.	WORKS WITH
5200-30	Panasonic FZ-G1/Leica CS35
5200-31	Getac T800
5200-35	Mesa 2, FC 5000, RT3

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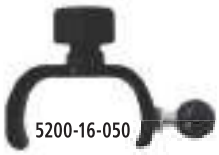
Ball and Socket Cradles

Design your own custom solution with one bracket and one cradle


5200-16-050

5200-29-050

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 the data collector to be in more positions
- Use with 5200-201 Ball and Socket Link on page 9

Part No. 5200-16-050

PART NO.	WORKS WITH	TYPE
5200-16-050	*TSC3, Ranger 3 Series*	*Claw*
5200-17-050	*Mesa/Tesla*	*Snap in/out*
5200-29-050	*Panasonic FZ-M1, B2*	*Snap in/out*

Quick-Release Tablet Combos

Secure connection to your survey pole and tablet during field use

5200-33

FEATURES & BENEFITS

- Pole Clamp locks securely to the pole, no slipping!
- Tilting Feature with three positions, +10, +30 or +50 degrees
- Quick Release from Pole Clamp
- for taking photos, etc. and also allows Landscape or Portrait orientation of the Display
- All ports, connections, and camera are accessible and usable with the bracket attached
- Easy "snap in/out" design holds the tablet securely
- Compatible with add-on keyboard and extended battery
- Made from a single, solid 0.080 inch (2.03 mm) aluminum sheet metal, powder-coated black

Part No. 5200-33

PART NO.	MODEL	TABLET SIZE
5200-32	*Panasonic FZ-M1*	*7 inch (17.78 cm) tablet*
5200-33	*Panasonic FZ-G1/Leica CS35*	*10 inch (25.4 cm) tablet*

Over the Shoulder Tablet Harnesses

Provide Secure Hands-free Operation During Field Use

5200-95

5200-96

Note: Tablet not included. Brackets sold separately.

FEATURES & BENEFITS

- When purchased with the correct tablet bracket, each of these harnesses provide reliable hands-free operation
- Over one shoulder model allows for easy on/off operation (5200-95)
- Two-shoulder model allows for tighter movement and helps reduce fatigue for day-long operation (5200-96)
- Ball-and-Socket designs allows a tablet to be in multiple positions and very easy to adjust
- Mounts to tablet bracket using standard 1-½ inch ram ball connection
- Mount is made from a 0.080-inch (2.03-mm) black powder-coated aluminum sheet metal
- Weights: 5200-95 1.95 lbs, 5200-96 1.9 lbs
- Tablet brackets allow all ports, connections, and antenna to be accessible with the bracket attached

APPLICATIONS

- GNSS/Robotic surveying
- Construction Layout
- Road and highway surveys
- GIS Surveys

Part No. 5200-95

BRACKET PART NO.	FITS
5200-29-051	*Panasonic FZ-M1*
5200-30-051	*Panasonic FZ-G1*
5200-31-051	*Getac T800*
5200-35-051	*Juniper Mesa 2/FC 5000/RT3*
5200-37-051	*Trimble Yuma 2, 7" Rugged Tablet*
5200-38-051	*Trimble Kenai, 10" Rugged Tablet*

Pole Clamps and Cradles

Design your own custom solution with clamp and cradle

5198-056

5198-153

5200-160

5198-073

FEATURES & BENEFITS

- Original Open-Style Pole Clamp technology for a complete solution
- Use a Claw Quick-Release cradle or clamp for a complete solution
- Made of black anodized aluminum
- Depressing the quick-release button will allow the Claw Quick-Release cradle or clamp to rotate in to a comfortable position for reading the data collector or controller
- Features a quick-release button and a stainless steel clamp screw that attaches to the pole
- Designed for standard poles or rods with a 0.75 to 1.25-inch OD

Part No. 5198-052

PART NO.	OPEN-STYLE CLAMPS
5198-052	Plain
5198-054	40-minute Vial
5198-055	Compass
5198-056	Compass and 40-minute Vial
5198-059	0.15 x 0.92-inch Slot
5198-152	For 1.5-inch OD Pole
5198-153	Battery Slot and Quick Release
PART NO.	**BALL-AND-SOCKET CLAMPS (FOR 1.25-INCH OD POLE)**
5200-160	Plain
5200-164	With Compass
5200-165	With 40-minute Vial and Compass
PART NO.	**CLAW QUICK RELEASE CLAMPS (FOR 1.25-INCH OD POLE)**
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
PART NO.	**QUICK RELEASE CRADLES**
5198-073	Nautiz N7, DAP 9800, SDR33, Titan
5198-081	PDA
5198-086	Leica RX and Viva CS10/CS15 /CS20

Quick Release Claw Cradles

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

Part No. 5200-062

PART NO.	WORKS WITH
5200-050	TSC2, Ranger 300X, 500X, FC 2500
5200-058	FC-200, FC-250
5200-059	Nomad 800-900 Series
5200-062	Carlson Surveyor, Surveyor +, GIS-1
5200-064	Geo 6000 Series
5200-065	TSC3, Ranger 3 Series
5200-069	FC236, X7, PS236, PS336
5200-070	Juno 5 / Juno T41 Series
5200-072	Mesa Tesla
5200-073	Archer 2, Mini2, FC 500
5200-074	Allegro 2, Surveyor 2
5200-075	Nautiz X8
5200-076	Panasonic Toughpads FZ-M1, B2 (Not Claw – "Snap in")
5200-077	Mesa 2, FC 5000, RT3 (Not Claw – "Snap in")

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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

- 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 (32 mm) Ram Ball
- Fits poles with an outside diameter of 0.75-inches to 1.5-inches

5199-052 — Ram Ball Clamp Mount

Two-Piece GNSS Rover Rods

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

Cable Slot on 5125-06 and 5128-08 | *5128-00* | *40-minute vial*

FEATURES & BENEFITS

- Lightweight 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
- Outer graduations options are 10ths/100ths (GT), metric (GM) or Quick Release (QR)
- 5125-06-YEL and 5128-08 feature a cable management slot measuring 0.625 x 1.6-in to hide cables
- Aluminum models are available in flo yellow or standard yellow
- Order 8162-00-ORG for carrying case

Part No. 5125-01-YEL

PART NO.	POLE	TIP	CABLE SLOT	OUTER GRADS	LENGTH	WEIGHS	
5125-00-YEL	*Aluminum*	*5/8 x 11*	*No*	*10ths/100ths (GT)*	*2 meters*	*3.00 lb (1.36 kg)*	
5125-01-YEL	*Aluminum*	*Quick Release*	*No*	*None*	*2 meters*	*3.00 lb (1.36 kg)*	
5125-06-YEL	*Aluminum*	*5/8 x 11*	*Yes*	*10ths/100ths (QR)*	*2 meters*	*3.00 lb (1.36 kg)*	
5128-00	*Carbon Fiber*	*5/8 x 11*	*No*	*10ths/100ths (GT) or Metric (GM)*	*2 meters*	*1.42 lb (0.64 kg)*	
5128-08	*Carbon Fiber*	*5/8 x 11*	*Yes*	*10ths/100ths (GT, QR)*	*2 meters*	*1.42 lb (0.64 kg)*	

Telescopic Carbon Fiber Rover Rods

Carbon fiber rover rods are 30% lighter

5129-50 | 5129-70

FEATURES & BENEFITS

- Designed so the GNSS surveyor has all the features needed in a single rod
- 0 H.T
- The included pin can lock the length of the rod at set points
- TLV™ locking mechanism comes standard
- Carbon fiber makes these rods 30% lighter
- Order 8160-00-ORG for carrying case

Part No. 5129-50

PART NO.	GRADS	LENGTH	OUTER GRADS	PIN LOCKING	WEIGHS	
5129-50	*Dual (10ths/2 mm)*	*4.48 ft (1.4 m) - 8.14 ft (2.45 m)*	*10ths/100ths (GT)*	*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 (2.45 m)*	*None*	*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)*	*None*	*Every 20 cm*	*3.30 lb (1.50 kg)*	
5129-71	*Metric*	*4.69 ft (1.43 m) - 11.7 ft (3.57 m)*	*None*	*Every 20 cm*	*3.30 lb (1.50 kg)*	

Snap-Lock Rover Rods

Easy set up

FEATURES & BENEFITS

- Includes 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 standard locking lengths and also have **OPTIONAL** outer graduations in metric (GM), 10ths/100ths (GT) or Quick Release (QR)
- Your choice of either aluminum or carbon fiber rod includes a 40-minute vial
- Order 8160-00-FLY for standard case
- Order 8151-02-FLY system bag (tripod or bipod)

Part No.
5125-20-FLY

PART NO.	POLE	OPTIONAL OUTER GRADS	LOCKING LENGTHS	WEIGHS	
5125-20-FLY	*Aluminum*	*10ths/100ths (GT) or Metric (GM)*	*2 m*	*2.30 lb (1.05 kg)*	
5125-20-YEL	*Aluminum*	*10ths/100ths (GT) or Metric (GM)*	*2 m*	*2.30 lb (1.05 kg)*	
5125-22-FLY	*Aluminum*	*10ths/100ths (GT)*	*2, 1.8, 1.6 m*	*2.30 lb (1.05 kg)*	
5128-20	*Carbon Fiber*	*10ths/100ths (GT), Metric (GM) or (QR)*	*2 m*	*1.60 lb (0.73 kg)*	
5128-22	*Carbon Fiber*	*10ths/100ths (GT) or Metric (GM)*	*2, 1.8, 1.6 m*	*1.60 lb (0.73 kg)*	
5128-24	*Carbon Fiber*	*Standard only*	*1.8, 1.6 m*	*1.60 lb (0.73 kg)*	

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
- Hardwood/Fiberglass tripod is SECO's 5302-13-ORG
- Aluminum tripod is SECO's 5301-21-ORG
- The antenna mast can be purchased separately to convert your own heavy-duty tripod as well
- Weighs 19.00 lb (8.62 kg)

5561-20 — Radio Antenna Mast Assembly
5300-11 — Hardwood/Fiberglass
5300-12 — Aluminum (shown)

- Used to elevate a radio antenna to 6 feet plus the height of the tripod setup
- Snap locks into a fixed length of 6-feet (1.8-m)
- Collapses to 41.5-inches (1-meter)
- Includes 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 of fluorescent yellow
- Weighs 1.40 lb (0.62 kg)

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

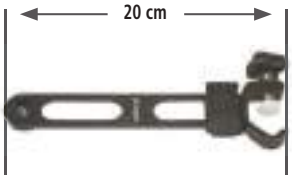
- SECO's Tripod Radio Antenna Kit attaches easily to instrument tripods
- Tripod leg clamp will attach to any tripod leg and ram ball and socket section of clamp quickly sets the antenna pole up vertically
- A large washer is included to allow a straight connection to a tripod for a separate setup
-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

2133-06 — Tripod Radio Antenna Kit

- 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, this page) 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

- 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

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GNSS Accessories and Adapters

- GNSS Compass for 1.25 inch (3.18 cm) diameter poles

5125-050 — GNSS Compass

- The Satellite Stick™ XL is composed of six, 1-in (25.4-mm) OD carbon fiber sections
- Collapses to 1.23-ft (37.5-cm)
- Weighs 2.40 lb (1.09 kg)

5126-10 — Satellite Stick XL

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

5113-012 — GNSS Quick-Release Tip

- The 5114-series allows quicker attachment of the GNSS antenna

5114-01

5114-01 — Quick-Release Triple Mag Mount
5114-02 — 5/8 x 11 Triple Mag Mount

- The 5114-10 is an extra-tall mag mount for use when attaching GNSS receivers with downward antennas

5114-10 — Triple Mag Mount for Trimble R10

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

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

- Converts any GNSS receiver or prism with 5/8 x 11 threads to a quick release
- Anti-rotation quick-release assembly
- Heavy-duty construction, will hold up to 20 lb (9.00 kg)
- Short height, only 60 mm
- Constructed of quality stainless steel and aluminum
- Easy to operate, push button release
- Weighs 0.35 lb (0.16 kg)

5111-04 — 60 mm Anti-Rotation Quick Release

- Use with GNSS Quick-Release Adapter (5187-00)
- Made of anodized aluminum or optional Stainless Steel version
- Adapter adds 76.22-mm to the pole length
- Weighs 0.14 lb (0.06 kg)

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

- Adapter features a female 5/8 x 11 with quick release tip
- Made of anodized aluminum or optional Stainless Steel version
- Adds 23.8-mm to length of rod
- Weighs 0.05 lb (0.02 kg)

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

- All-Terrain Rover Rod "Big Wheel"
- Measures 19 x 1-5/8-inch
- Rod and Bipod are 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

GNSS Bracket for Truck Door

Expands vertically from 47 to 61 inches

5114-20-050
Topo Shoe Adapter

5114-20-051
3-inch Extension Kit

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
- 5114-20 fits most trucks and SUVs
- The door opens and closes with the bracket attached to the door
- Bracket holds all GNSS- and RTKtype poles
- Utilizes a safety strap under tension to keep it on the door
- Brackets are available to hold controller inside the cab (#5199)
- Designed for off-road use
- Both products available in colors FLY, FOR, YEL
- Weighs 6.20 lb (2.80 kg)

Part No.
5114-20-FOR

5114-20 — GNSS Bracket for Truck
5114-21 — NEW Ford F-150 2015 & 2016 models

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
- 5114-40-01 fits UTVs with tubular roll cages up to 2-inches (5.08-cm)
- 5114-40-02 fits UTVs with rectangular roll cages up to 4"
- 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
- 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
- The UTV bracket can stay permanently attached to the UTV
- Includes 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

Part No.
5114-40-01

PART NO.	DESIGNED FOR	FITS	WEIGHS
5114-40-01	*Short Truck Bed*	*Tubular Roll Cage up to 2-inches (5.08 cm)*	*15.00 lb (6.80 kg)*
5114-40-02	*Medium / Standard Truck Bed*	*Rectangular Roll Cage up to 2 x 4-inch (5.8 x 10-cm)*	*15.00 lb (6.80 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 included 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
- 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)

Part No.
5198-50

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

product shipped from the US warehouse only

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
- Weighs 0.95 lb (0.43 kg)

Part No. 8046-10-BLU

8046-10-BLU — Plan Holder

Vials

Vial for TLV™ Locks

5500-064-40 - Vial Assembly (Complete with 40-min vial)

40-Minute Vial D11232 Includes screws

20-Minute Vial D11233 Includes screws

8-Minute Vial D11234 Includes screws

Vial for QLV™ Locks

5801-052-40 - Vial Assembly (Complete with 40-min vial)

8-Minute Vial D11241 Includes screws

20-Minute Vial D11242 Includes screws

40-Minute Vial D11243 Includes screws

Vial for 1.25-inch OD Pole Levels

5081-052-40 - Vial Assembly (Complete with 40-min vial)

40-Minute Vial D11232 Includes screws

20-Minute Vial D11233 Includes screws

8-Minute Vial D11234 Includes screws

Vial for 1.50-inch OD Pole Levels

5070-051-40 - Vial Assembly (Complete with 40-min vial)

40-Minute Vial D11232 Includes screws

20-Minute Vial D11233 Includes screws

8-Minute Vial D11234 Includes screws

Levels

- 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
- Fits 1- to- 1.25-inch
- (25.4- to- 31.75-mm) OD poles
- Weighs 0.40 lb (0.18 kg)

5001-20 — Heads-Up Level - 40-minute Vial

- Features a die-cast aluminum body and adjustable vial
- Use with track light, robotic instruments, or conventional leveling
- Fits round or rectangular rods
- Feature a 40-minute sensitivity
- Weighs 0.50 lb (0.22 kg)

5001-10 — Standard Rod Level

- Features a die-cast aluminum body and adjustable vial
- Suitable for use with track light, robotic instruments, or conventional leveling
- Fits round or rectangular rods
- Fits poles with a 1- to- 1.25-inch
- (25.4- to- 31.75-mm) OD
- Feature a 40 minute
- sensitivity vial
- Weighs 0.10 lb (0.04 kg)

5001-12 — Snap-On Rod Level

Scanner Spheres

FEATURES & BENEFITS

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

Part No. 6703-001

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
- Weighs 2.70 lb (1.22 kg)

6703-001 — 100 mm Scanner Sphere
6704-001 — 230 mm Scanner Sphere

230 mm Sphere Adapters, Accessories and Case

- 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

- 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

- 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

- 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
- Anodized aluminum and stainless steel materials
- Base has a setscrew to lock base to tripod head
- Built-in 100-minute level vial on base
- Weighs 0.70 lb (0.32 kg)

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

product shipped from the US warehouse only

100 mm Sphere Prisms, Adapters, Magnets and Kits

- Lightweight aluminum sphere and ceramic 8 magnet
- Steel cup OD 2.03 inches
- Stainless steel ¼ x 20 stud
- Magnet is chrome coated steel cup and offers 40 pull pounds
- 100 mm OD roundness <1 mm
- ¼ x 20 threaded mounting
- Painted non-glare white
- Weighs 0.80 lb (0.36 kg)

6703-10 — 100 mm Scanner Sphere with Magnet

- ¼ 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

- ¼ 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

- ¼ x 20 stainless steel male stud
- 5/8 x 11 female connection
- Height is 113 mm
- Height to target with 100 mm sphere (6703001) 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

- 6703-20 includes six 100 mm scanner spheres and six magnets with ¼ x 20 studs
- 6703-20 weighs 6.60 lb (3.00 kg)

6703-20 — 6 piece 100 mm Sphere Kit includes Soft Case

- 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

- Stainless steel ¼ 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

- 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

- 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

- 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)
- 8082-01-ORG weighs 2.00 lb (0.91 kg)

8082-01-ORG — Soft Case for 100 mm Scanner Spheres

- 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 ¼ 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)

product can also be shipped from our European warehouse

360° Robotic Prism Assembly

Copper-coated 35 mm prisms

FEATURES & BENEFITS

- Includes six 35 mm prisms
- 0 offset
- Copper-coated for moisture prevention
- Protective urethane bumper in yellow

Part No. 6401-00-YEL

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

Carbon Fiber Robotics Poles

Features carbon fiber and TLV locking mechanism

FEATURES & BENEFITS

- Graduated to read direct for a 135 mm prism height
- Adapters will achieve other prism heights
- Carbon fiber pole offers a stainless steel pin which locks the inner pole
- Features TLV™ lock mechanism with 40-minute vial built-in
- Optional outer graduations in metric (GM) or 10ths/100ths (GT)
- Order 8160-00-ORG for carrying case

Part No. 5129-52

PART NO.	GRADS	SECTIONS	PIN LOCKING	OUTER GRADS	LENGTH	WEIGHS
5129-52	Dual	1	Every 0.5 ft	10ths/100ths (GT)	4.97 ft - 8.53 ft	2.30 lb (1.04 kg)
5129-53	Metric	1	Every 20 cm	Metric (GM)	1.53 m - 2.6 m	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	1.58 m - 3.6 m	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)
2090-07 — For Topcon ATP1/2 with 50 mm Prism

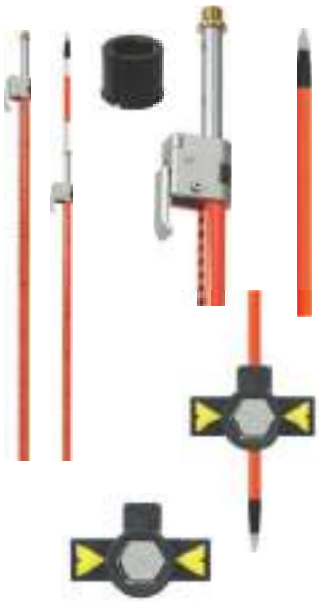
- This lightweight bipod is used to keep a GNSS or robotic pole off the ground when not in use
- Weighs 0.90 lb (0.41 kg)

5217-15-ABK — 12 inch Open Clamp Bipod

product shipped from the US warehouse only

Geodimeter Style Poles and Prism

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
- Poles are constructed of durable fluorescent orange aluminum and has a hardened steel removable point
- 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)
- Expands to 8.60 ft (2.62 m)
- The site rod comes with the QLV™ locking mechanism with a 40-min circular, adjustable vial
- 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)
- Use Sliding Prism with Tilting Reflector to complete your system

Part No.
5120-00-FOR-GT

PART NO.	HEIGHT	GRADS	VIAL	DESCRIPTION	WEIGHS
5120-00-FOR-GT	8.60 ft (2.62 m)	10ths	40-min	Pole Only	2.05 lb (0.92 kg)
5120-01-FOR-GM	2.62 m (8.60 ft)	Metric	40-min	Pole Only	2.05 lb (0.92 kg)
5120-02-FOR-GT	8.60 ft (2.62 m)	10ths	40-min	Pole w/ Site Rod	2.75 lb (1.24 kg)
5120-03-FOR-GM	2.62 m (8.60 ft)	Metric	40-min	Pole w/ Site Rod	2.75 lb (1.24 kg)
5120-024-FOR	N/A	Metric	N/A	Site Rod w/ Point	0.70 lb (0.31 kg)
5120-025-FOR	N/A	10ths	N/A	Site Rod w/ Point	0.70 lb (0.31 kg)
6455-00	N/A	N/A	N/A	Sliding Prism with Tilting Reflector	0.81 lb (0.37 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)
- Collapses to 4.97 ft (1.51 m) Weighs 2.30 lb (1.05 kg)

Part No.
5129-54

5129-54 — Adjustable Tip Carbon Fiber Pole

Mini Poles

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

FEATURES & BENEFITS

- Mini poles are easy to use
- Adjustable or fixed-tip poles
- Light weight and convenient to transport and store
- 40-minute bubble vials
- Powder-coated and silk screened aluminum

Part No.
5500-23

PART NO.	HEIGHT	GRADS	LOCK TYPE	PRISM HEIGHT	WEIGHS
5500-23	5.10 ft - 2.70 ft (1.55 - 0.82 m)	Dual	TLV	50 mm	2.30 lb (1.04 kg)
5010-00-RED	1.28 ft (0.39 m)	N/A	N/A	N/A	1.50 lb (0.68 kg)
5010-00-FLY	1.28 ft (0.39 m)	N/A	N/A	N/A	1.50 lb (0.68 kg)
5010-01	4.7 inches (120 mm)	N/A	N/A	25 mm	0.40 lb (0.02 kg)
5700-21	4.8 ft - 2.26 ft (1.5 - 0.7 m)	Dual	Quick-Release	115 mm	2.33 lb (1.80 kg)

Swiss-Style QLV Prism Poles

Features European-style quick release stud

FEATURES & BENEFITS

- 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
- QLV™ locking mechanisms
- Powder-coated and silk screened aluminum
- Lower lock features an adjustable 40-minute adjustable vial

Part No. 5802-10

PART NO.	LENGTH	TIP	TYPE	GRADS	WEIGHS
5802-10	8 ft	Swiss-Style	Aluminum	Dual	2.50 lb (1.13 kg)
5802-20	12 ft	Swiss-Style	Aluminum	Dual	3.55 lb (1.61 kg)

Swiss-Style Quick-Release Prism Poles

Made for speciality prism height of 86 mm

FEATURES & BENEFITS

- Quick-Release locking mechanism features adjustable tension via a set screw in the handle and another set screw to assist in keeping the spring in position
- Swiss-style tip (for 86 mm prism heights) for GPH1-type prisms
- Powder-coated and silk screened aluminum

Part No. 5711-10

PART NO.	OD	LENGTH	TYPE	GRADS	WEIGHS
5711-10	1 inch (25.4 mm)	8.30 ft - 4.76 ft (2.53 m - 1.45 m)	Aluminum	Dual	2.10 lb (0.95 kg)
5721-10	1 inch (25.4 mm)	2.60 m - 1.52 m (8.53 ft - 4.97 ft)	Aluminum	Metric	3.30 lb (1.50 kg)

Swiss-Style TLV and Twist-Lock Prism Poles

The popular TLV locking system provides simple but secure locking

FEATURES & BENEFITS

- Swiss-style tip (for 86 mm prism heights) for GPH1-type prisms
- 1.25- or 1.50-inch (31.75- or 38.1-mm) outside diameter
- Comes in 1 or 3 sections
- Dual or metric graduations
- TLV™ or Twist-Lock mechanisms

Part No. 5501-11

PART NO.	SECTIONS	LOCK STYLE	LENGTH	OD	GRADS	WEIGHS
5501-11	1	TLV	8.53 ft - 4.97 ft (2.60 m - 1.51 m)	1.25 inch (31.75 mm)	Dual	3.30 lb (1.50 kg)
5521-11	1	TLV	2.60 m - 1.51 m	31.75 mm	Metric	3.30 lb (1.50 kg)
5503-30	3	Twist-Lock	15.25 ft - 5.41 ft (4.65 m -1.65 m)	1.50 inch (38.1 mm)	Dual	7.60 lb (3.45 kg)
5523-30	3	Twist-Lock	4.65 m - 1.65 m	38.1 mm	Metric	7.60 lb (3.45 kg)

product shipped from the US warehouse only

Quick Change Prism Poles

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

FEATURES & BENEFITS

- 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
- Includes adapter 2090-12
- Quick conversion to another application by changing adapters (sold separately, see below)
- TLV™ (Twist-Lock with Vial) locking mechanism includes a 40-minute vial
- Available with locking pin & holes (the locking system guarantees no slipping of the sections)
- Carbon fiber and aluminum models offered

Part No. 5507-10

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

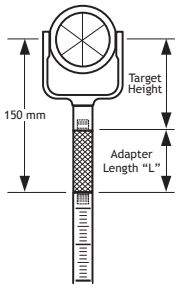
Quick Change Pole Adapters

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

Part No. 2090-10



PART NO.	TARGET	TARGET HEIGHT	LENGTH "L"	
2090-10	Leica GPH1	86 mm	50 mm	EU
2090-11	SECO 6400 Series	100 mm	50 mm	EU
2090-12	SECO 6400 Series	115 mm	35 mm	EU
2090-13	Trimble RMT	135 mm	15 mm	EU
2090-14	Adjustable 5/8 x 11	50 mm to 135 mm	N/A	US
2090-15	GNSS Antenna	0 mm	150 mm	EU
2090-17	Leica Adjustable	86 mm to 125 mm	N/A	EU
2090-19	SECO Mini Prisms	70 mm	80 mm	EU
2090-21	Topcon 360 Prism	77 mm	73 mm	EU
2090-26	Topcon APT1/2	50 mm	100 mm	US
5079-066	Laser Detector Adapter	0 mm	150 mm	US

2 mm Metric Telescoping Prism Poles

Fine metric graduation survey poles

5527-18-13 5527-18-15

FEATURES & BENEFITS

- 2 millimeter metric graduations
- Two models available; 135 mm HT, and 0 mm HT
- Extends to 8.53 ft (2.60 m)
- Collapses to 4.98 ft (1.52 m)
- 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
- TLV™ is the most dependable locking mechanism on the market place

Part No.
5527-18-13

PART NO.	TIP	GRADS	WEIGHS
5527-18-13	Fixed, 135 mm HT	cm/2 mm	4.14 lb (1.88 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

- Features the Quick-Release locking mechanism with 40-minute vial
- 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
- Constructed of powder-coated and silk screened aluminum

Part No.
5700 Series

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)
5720-10	Metric	1	Adjustable	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)

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
- The soft rubber knob is easy to tighten or loosen, even when wearing gloves
- TLV locks feature a convenient 40-minute vial built into the lock
- Made of quality aluminum tubing
- Powder-coated red and white

Part No.
5500-11

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

product shipped from the US warehouse only

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
- Adjustable Tip
- Single (1) section pole
- Extends 8.53 ft (2.60 m)
- Collapses 4.97 ft (1.516 m)
- Dual graduations
- Finished with electrostatic powder paint coating on the outer pole and permanent silk-screened grads on the inner pole
- Weighs 3.30 lb (1.50 kg)

Part No. 5600-10

5600-10 — Compression Prism Pole

QLV Locking Prism Poles

Simple to adjust bubble and lever tension

QLV lock body

Fixed Tip

Adjustable Tip

FEATURES & BENEFITS

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

Part No. 5801-10

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	2.60 m (8.53 ft)	4.97 ft (1.516 m)	Metric	2.95 lb (1.50 kg)
5813-20	2	Fixed	12 ft (3.65 m)	5.30 ft (1.65 m)	Dual	4.05 lb (1.83 kg)

Ultralite Prism Poles

Non-conductive fiberglass

FEATURES & BENEFITS

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

Part No. 5540-10

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	2.62 m (8.58 ft)	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	3.60 m (11.81 ft)	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	4.65 m (15.27 ft)	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

Part No. 5530-10

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	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	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	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
- Your choice of metric (cm) or dual (cm/10ths) graduations
- Aluminum outer and inner pole
- 40-minute level vials
- Adjustable tip
- Hardened steel points
- Red and white color with Crain logo

Part No. 5631-10

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

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
- Weighs 1.79 lb (0.81 kg)

5198-157 — Offset Pole Holder Kit

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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-SS — Wild Prism Adapter
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 (85.6-mm) steel body
- Weighs 0.30 lb (0.14 kg)

5190-00 — Prism Pole Point

- 3.37-inch (85.6-mm) aluminum body
- Weighs 0.34 lb (0.15 kg)

5191-00 — Prism Pole Topo Shoe

- 3.37-inch (85.6-mm) aluminum with steel tip (91605)
- Weighs 0.01 lb (0.004 kg)
- The Topo-Boot® (91605) screws over the precision point made of black nylon and increases the area of the point for the use on soft surfaces in topo shots
- Weighs 0.05 lb (0.02 kg)

91605 — Aluminum Prism Pole Point and Steel Tip
91601 — Topo-Boot

- 3.37-inch (85.6-mm) 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

- 3.37-inch (85.6-mm) steel body, removable point
- Weighs 0.30 lb (0.14 kg)

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

- 3.37-inch (85.6-mm) 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 5194-series
- Weighs 0.06 lb (0.03 kg)

5194-003 — Prism Pole Sharp Point

- 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

- 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

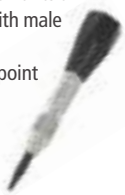
- This prism allows for easy determination of right angle points or perpendicular points between two targets

4900-00 — Double Right-Angle Prism

- 3.37-inch (85.6-mm) aluminum body
- Removable point
- Weighs 0.10 lb (0.05 kg)

5194-01 — Aluminum Replaceable 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

- Stedi-Rest® fits any 1.25 to 1.5 inch (31.75 to 38.1-mm) pole and can take the place of three separate products
- Weighs 0.15 lb (0.07 kg)

91641 — Stedi-Rest

- Use this adapter if you have a 1 inch OD pole and want to use a Claw™ pole clamp
- Weighs 0.03 lb (0.01 kg)

D11145 —1 inch OD Pole Adapter

- 2-inch (50.8-mm) diameter chrome-plated steel housing with grade-8 ceramic magnet ring
- Standard topo shoe length, 3.375-inch (85.7-mm)
- Magnet has 40 pounds of pull force on 3/8-inch (9.5-mm) clean steel plate
- Female 5/8 x 11 threads are machined brass
- Black anodized machined 6061 aluminum body
- Tilting pivot allows measurement on sloped or flat pipe surfaces
- Weighs 0.55 lb (0.25 kg)

5193-04 — Tilting Magnetic Topo Shoe

- 5/8 x 11 Double Female Adapter
- Weighs 0.08 lb (0.04 kg)

5181-00 — Double Female Adapter

- 5/8 x 11 Female to ¼ x 20 Female Adapter
- Weighs 0.20 lb (0.09 kg)

2131-00 — Prism Pole Adapter - Male
2131-01 — Prism Pole Adapter - Female

Range Pole Accessories

- 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

- Quickly connect this new accessory to your Rover Rod
- Holds the Rod upright when you need to "park"
- Makes moving from point to point easy, fast and tireless
- Six inch diameter solid wheels, travels over hard and rough surfaces
- Folds for easy storage when not in use
- Legs made of anodized aluminum bar
- Weight 3.1 lbs (1.4 kg)
- Reduce your daily effort with this new product designed to save energy and effort in the field

Pole and Bipod not included.

Shown parked and balanced

5125-058 — Pole Transporter

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

Part No. 5182-001

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 (19.69 in)	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 (39.37 in)	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 (9.84 in)	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 (19.69 in)	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 (39.37 in)	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 (7.87 in)	Carbon Fiber	0.30 lb (0.14 kg)
5145-03	1 in (25 mm)	25 cm (9.84 in)	Carbon Fiber	0.35 lb (0.16 kg)
5143-03	1 in (25 mm)	1 meter (39.37 in)	Carbon Fiber	0.70 lb (0.32 kg)
5145-02	1.25 in (32 mm)	25 cm (9.84 in)	Carbon Fiber	0.35 lb (0.16 kg)
5144-02	1.25 in (32 mm)	50 cm (19.69 in)	Carbon Fiber	0.50 lb (0.23 kg)
5143-02	1.25 in (32 mm)	1 meter (39.37 in)	Carbon Fiber	0.70 lb (0.32 kg)
5130-10	1.25 in (32 mm)	0.20 meter (7.87 in)	Fiberglass	0.34 lb (0.15 kg)

Range Poles

- Single 4-foot (1.22-m) section range pole
- 1.13-in (29-mm) outside diameter
- Includes bag (no point included)
- Weighs 1.50 lb (0.68 kg)

5160-02-WOR — Contractor Series 4-ft Range Pole

- Two 4-ft (1.22 m) sections creating 8-ft (2.44-m) range pole
- 1.13-in (29-mm) outside diameter
- 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) outside diameter
- Includes point and bag
- Weighs 5.00 lb (2.27 kg)

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

product shipped from the US warehouse only

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 (25.6- to 32-mm) diameter poles attach easily through the open clamp
- 1.5-inch (38.1-mm) OD poles can be loaded through the top
- Collapses to 43-inches (109-cm)
- Legs (independently) extend to 6-feet (1.8-m)
- Weighs 4.10 lb (1.86 kg)

5219-03 — Carbon Fiber Thumb Release Bipod

- 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 collapses to 43-inches (109-cm)
- Legs extend to 6-ft (1.8-m)
- Weighs 4.10 lb (1.86 kg)

5219-05 — Carbon Fiber Thumb Release Tripod

- This tripod is ideal for use with poles under 24-inches (61-cm) long 1- to 1.5inch (25.4- to 38.1-mm) diameter poles thread easily through the open clamp on top
- Legs are fixed at 12-inches (30.5-cm) each
- Includes stainless steel clamp screw and rubber tips
- Rod not included
- Weighs 1.30 lb (0.60 kg)

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

- 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

- The tripod features a ball-and-socket head, which makes leveling a bubble easy
- Legs extend from 2.62- to 4.17-ft (80-cm to 1.3-m)
- The rubberized jaws hold a pole (up to 2-inch (51-mm) OD) firmly in place
- Weighs 2.65 lb (1.20 kg)

Alligator clamp with rubberized jaws!

5214-00 — Alligator Clamp Prism Pole Tripod

- The Mini Bipod utilizes the same design concepts as the popular 5217-04 bipod, just shorter (see below)
- Poles 1- to 1.25-inch (25.6- to 32-mm) diameter attach easily through the open clamp
- Poles 1.5-inch (38.1-mm) OD can load through the top
- Collapses to 25 inches (63.5 cm)
- Extends to 35 inches (88.9 cm)
- Leg clip is included (5217-30)
- Available colors: yellow, flo yellow, and flo orange
- Order 8180-20-ORG for carrying case
- Weighs 3.50 lb (1.60 kg)

5217-05-YEL — Thumb Release Mini Bipod

- The bipod leg clip easily attaches to the base of any 1.25-inch (32-mm) 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

- A surveyor can set up a free-standing GNSS antenna pole or prism pole
- Poles 1- to 1.25-inch (25.6- to 32-mm) OD attach through the open clamp
- 1.5-inch (38.1 mm) OD poles can be loaded through the top
- Legs (independently) extend to 6 feet (1.8 m)
- Collapses to 43 inches (109 cm)
- Available colors: flo yellow, flo orange, red and yellow
- Order 8180-20-ORG for carrying case
- Weighs 4.25 lb (1.93 kg)

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

- Thumb-Release™ Tripods creates free-standing GNSS antenna poles or prism poles
- The thumb lock design allows adjustment of tension without disassembly of the leg
- Universal head accommodates poles from 1- to 1.25-inch (25.6- to 32-mm) OD
- Legs extend (independently) to 6-ft (1.8-m)
- Feature large, smooth, thumb release buttons
- Constructed of powder-coated aluminum
- Weighs 6.00 lb (2.60 kg)

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

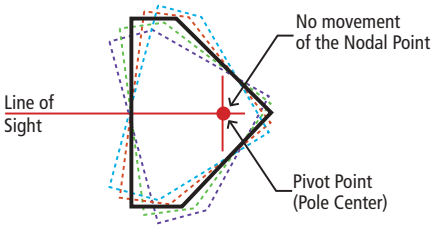
PRISM basics

Prism Offsets

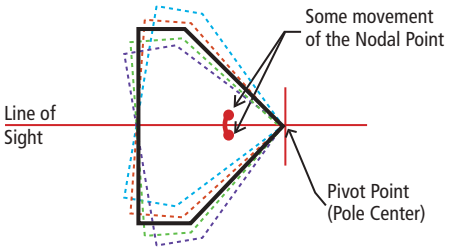
- Corner cube prisms (or retroreflectors) used with electronic distance measuring (EDM) instruments have an offset due to the fact that the transmitted light beam from the EDM takes longer to enter and exit the prism. This longer time translates to a longer distance measured. This distance is corrected 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

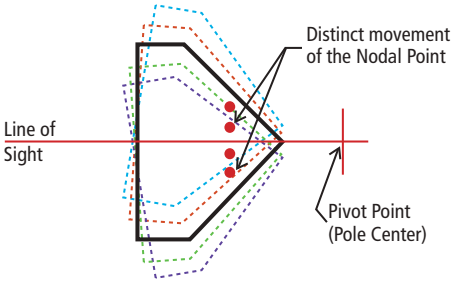
- A nodal offset is defined by the relationship of the prism holder and prism that places the optical center of the prism on the plumb line of the holder. This offset is the most advantageous at close range work when the apex or center of the prism is used as a pointing target for vertical and horizontal angle measurement. Every prism has a nodal offset. 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.

product shipped from the US warehouse only

62 mm Rear Screw Lock Premier Prism Assembly

Rear locking brass thumb screw

FEATURES & BENEFITS

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

Part No.
6402-02-FLB

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 Rear Lever Lock Premier Prism Assembly

Rear locking stainless steel lever

FEATURES & BENEFITS

- 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
- 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
- 115 mm tilting axis height
- Two target sizes and three color combinations are available

Part No.
6402-20-FLB

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)

62 mm Strobe Prism Premier Assembly

62 mm strobe prism assembly

FEATURES & BENEFITS

- Combines the premier target and holder with a strobe prism
- Features a strobing LED light which flashes every 0.5-second (6416-00)
- Perfect for low light conditions
- Tilting axis height is 115 mm
- Weighs 1.35 lb (0.62 kg)

Part No.
6402-03-FLB

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

Part No. 6402-05-FLB

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

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

Part No. 6402-06-YLB

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 prisms

FEATURES & BENEFITS

- Features a 62 mm copper-coated canister type prism
- Water-resistant 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)

Part No. 6402-10-FOB

6402-10-FOB — Construction Series Prism Assembly in Flo Orange with Black
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

6341-11

6341-00

FEATURES & BENEFITS

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

Part No. 6341-00

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

product shipped from the US warehouse only

Adjustable Dual Prism

Allows accurate measurements from two or more directions or stations

FEATURES & BENEFITS

- The Adjustable Dual Prism is the newest addition to our 6603-Series for mining, tunneling, monitoring and rail
- Minimal horizontal angle is 84° (Hex tool included)
- Compatible with standard surveying 5/8 x 11 accessories
- Holders can be stacked for more than two prisms or an GNSS Receiver can be connected on the top 5/8 x 11 stud so an GNSS measurement can also be made
- Includes two 62 mm silver coated, water-resistant prisms, accuracy < 2 arc seconds
- Prism holder is machined from 303 stainless-steel
- Zero (0) prism offset, ±1 mm
- Weighs 2.60 lb (1.18 kg)

6603-03 — Adjustable Dual Prism

Part No. 6603-03

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
- Tilts in 15° increments, spring locked
- Large easy-to-use clamping knob
- Targets made of fluorescent-yellow translucent polycarbonate
- Weighs 0.81 lb (0.37 kg)

6455-00 — Sliding Prism with Tilting Reflector

Part No. 6455-00

Backlight Prism Assembly

Ideal for night surveys, forensics, tunneling, mining, or any low-light situations

FEATURES & BENEFITS

- Back Lighted Target, three phases, solid, slow, and fast flashing
- Powered by 2 x 1600 mAh Lithium Ion Batteries
- 10 hours continual use, 500+ Charge cycles
- Micro USB charge cable included
- 5 X 7 inch replaceable target plate
- Water and Dust resistant
- 62MM Prism, 0/-30 offset
- All metal tilting holder, front locking
- Tilting Axis Height 115mm or 100mm, both adapter included (80mm w/o adapters)
- Warranty, one year from date of purchase
- Weight, 1.5lbs (0.68kg)

6400-12-FOR — Backlight Prism Assembly

Part No. 6400-12-FOR

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
- Can be set at a -40 mm, which offers optimal angle measurements, even when tilting in either the horizontal or the vertical axis
- Height to center of glass: 0.38 ft (115 mm)
- -30 mm adapter is included
- Weighs 1.15 lb (0.52 kg)

6400-00 — Eclipse 62 mm Nodal Point Prism Assembly
6410-00 — -30, -40 Offset Eclipse Prism Holder
6410-018 — 0 Offset Adapter for Eclipse Prism Assembly

Part No. 6400-00

62 mm Nodal Point Prism Assembly

Can be offset to -40 mm

FEATURES & BENEFITS

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

6400-10 — Nodal Point 62 mm Prism Assembly

Part No. 6400-10

product can also be shipped from our European warehouse

Prism Assemblies

- Includes copper-coated 62 mm prism (6411-02)
- -30 mm offset aluminum prism holder, sealed with a rugged corrosion-proof electrostatic powder paint coating
- Target Size: 4.75"x 4.75"
- Weighs 1.50 lb (0.68 kg)

6440-00-FOR — Single Prism Tilting Assembly

- This high-quality GPH1 Swiss-style prism assembly features a coppercoated prism for consistent results and a removable target
- Metal prism holder
- Reversible target (long and short range, long range shown)
- Coating: Copper High Reflex coating and anti-reflex on front
- Offset: -34 mm, Nodal
- Diameter: 64,9 mm
- Centring accuracy: 1 mm
- Carrying case included
- Height: 86 mm
- Weighs 1.32 lb (0.60 kg)

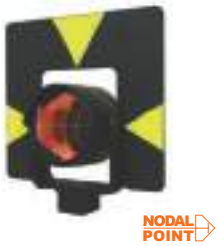
Long Range Target

GEOPRISM — Surveying Prism with Metal Housing

- 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

- -34 mm offset prism
- 86 mm H.T
- Weighs 0.92 lb (0.42 kg)



6406-00 — Nodal Point 62 mm Prism Assembly

Mini and Stakeout Prisms

- 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
- 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
- Includes a 40-minute adjustable circular center or side mounted vial
- Also included a point for stake-out work, and a system bag with belt loop
- Powder painted flo orange
- 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)

- The 25 mm Stakeout Prism Assembly 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)

PART NO.	OFFSET	COLOR
6405-10-FLY	*0 / -30 offset*	*Flo Yellow*
6405-10-FOR	*0 / -30 offset*	*Flo Orange*
6405-12-FLY	*-17.5 offset (Nodal)*	*Flo Yellow*
6405-12-FOR	*-17.5 offset (Nodal)*	*Flo Orange*

- The Mini Stakeout Prism with Site Cones features a 25 mm, copper-coated prism, 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

- 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
- Used in four height configurations: 50 mm, 100 mm, 115 mm and 150 mm, top or bottom of the pole, handheld, or tribrach mounted
- Choose between 0/-30 mm or -17.5 mm (nodal) offsets
- 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 - Flo Orange
6405-11-FLY — Stakeout Mini Prism Kit - 0 / -30 mm offset - Flo Yellow
6405-13-FOR — Stakeout Mini Prism Kit - Nodal -17.5 mm offset

- The Mini Prism Mono Pod Kit forms a stable base with your 6000-Series Mini Prism (sold separately, 6405-10-FOR)
- 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

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Sliding Prisms and Pin Pole Kits

Site cones double as locks

- 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)

5910-05 — Feet, 0 Offset (shown)
5910-06 — Metric, 0 offset

- This 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 nonconductive design
- Weighs 1.45 lb (0.66 kg)

5910-10 — Reflector Pin Pole Kit

The sliding 360° Prism Kit allows for quick shots in confined line-of-sight situations and allows for more precise height measurements. Easily find the right shot at the right height!

The included adapter allows for easy connection to controllers, making it great for handheld use. Use one or all four pin pole sections for the height/portability you need.

- The prism assembly slides on 9-mm-diameter solid steel pin poles, graduated in cm
- The four solid yellow pole sections have cm grooves that the ball-detent in the prism assembly will automatically center on
- Replaceable stainless steel point
- The assembly is composed of seven 12.7- mm diameter silver-coated mini-prisms in a 360° configuration
- Prism offset is +2mm
- Adjustable circular vial is 40-minute
- Clamp screw locks the prism assembly anywhere on the pole
- Data collector adapter and carrying case are included
- Weighs 1.70 lbs (0.77 kg)

5910-24 — Sliding 360° Prism Kit

- 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
- 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
- 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)

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

- This Euro-Style Pole System 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 30 cm sections are anodized aluminum
- A carrying case is also included
- Weighs 1.60 lb (0.73 kg)

PART NO.	OFFSET
5910-01-ARD	*0 / -30 offset*
5910-02-ARD	*-17.5 offset (Nodal)*

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
- Sanyo CR 1/3N Battery

6416-00

- 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

Mini Prisms

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

- Features a 60 mm diamond pattern sheeting and a 2 mm offset
- Use for distances up to 492 ft (15 m)
- Feature an 86 mm height
- Fit Swiss-style male tips or Quick Release adapters
- Weighs 0.17 lb (0.08 kg)

6600-01 — Small Tilting Mini Prism - Diamond Pattern

- Features a 60 mm diamond pattern with Crosshairs sheeting and a 2 mm offset
- Use for distances up to 492 ft (15 m)
- Features an 86 mm height
- Fits Swiss-style male tips or Quick Release adapters
- Weighs 0.15 lb (0.07 kg)

6600-03 — Diamond Pattern with Crosshairs

- Use for distances up to 492 ft (15 m)
- Features a 25 mm mini prism for longer distances up to 2,000 ft (600 m)
- Features an 86 mm height
- Fits Swiss-style male tips or Quick Release adapters
- Offset 17.5 mm
- Weighs 0.23 lb (0.10 kg)

6600-04 — Small Tilting 25 mm Mini Prism

- This Prism Series is ideal for deformation and mining surveys or wherever permanent mounting is needed
- This design makes mounting and pointing easy on uneven surfaces
- Mounting Arm allows tilt up to 240 degrees and Prism mount allows 360 degrees rotation
- Rechargeable battery
- The two Mounting holes are spaced 1.75" (44.4mm) apart
- Mounting holes are 0.328" (8.3mm) diameter
- Two Prism mounting holes, spaced 1.75" (44.4mm) apart
- Pivot and Prism mounting bolts are 8MM stainless steel with lock washers
- 6mm Hex wrench included
- Rain Hood included with 6603-05

PART NO.	PRISM SIZE	COATED	WEIGHT
6603-05	*62 mm*	*Silver*	*1.15 lbs (0.52 kg)*
6603-06	*25 mm*	*Copper*	*0.50 lbs (0.23 kg)*

- The 25 mm copper-coated prism is permanently bonded to the holder making it water and dust proof
- Features a black anodized aluminum holder
- Tilting screw uses an 8 mm hex wrench to loosen and tighten it
- Mounting hole is 10.3 mm (0.406 inch) in diameter
- Design makes mounting and pointing simple
- -25 mm offset
- Weighs 0.45 lb (0.20 kg)

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

- The 25 mm silver-coated prism is permanently bonded to the holder making it water and dust proof
- Features a black anodized aluminum holder
- Tilting screw uses an 8 mm hex wrench to loosen and tighten it
- Mounting hole is 10.3 mm (0.406 inch) in diameter
- Design makes mounting and pointing simple
- -25 mm offset
- Weighs 0.45 lb (0.20 kg)

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

Quick Release Adapters and Rebar Bolts

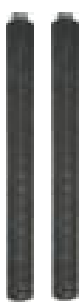
Lightweight and inexpensive, made to be set up and left for extended periods

- 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)

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

- Measures ¾ 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)

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



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Monitoring Accessories

- Prism center is located in center of the ball
- Prism Ball
- 50 mm diameter
- 25 mm prism
- Weighs 0.75 lb (0.34 kg)
- Prism constant -17mm

5 312 001 — 50 mm Diameter Prism Ball

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

1 510 011 — Screw Mounting Column Plate

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

1 510 001 — Column Plate

- 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

- 5/8 x 11 thread extensions
- Rod is constructed of aluminum and threads are made of stainless steel
- Choose between 30, 50 or 100 cm extension lengths
- 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

- For concreting a measuring
- Prisms and reflective target boards without any special adapter can be attached to the swiss-style system
- 20 mm diameter, made with ribbed steel with a galvanized stud
- Can be ordered with convergence steel protection ring (e.g. 5 114 150-PR)

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

- 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

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

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

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
- The system is compatible with all M20 screw-in type prism canisters
- 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
- System weighs 1.55 lb (0.70 kg)

Part No. 6603-00

PART NO.	DESCRIPTION
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 Screws and Washer*
6603-01-051	*M8 Adapter with Screws and Washer*

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)
- Height 34.5 mm

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)
- 2152-04 available in yellow, grey or black
- Weighs 1.85 lb (0.84 kg)

2152-04-BLK — Tribrach with Optical Plummet
2153-04-BLK — Tribrach w/o 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)
- 50-75 mm

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)
- Laser class 2

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)
- Height 32 mm

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)
- Height 24.5 mm

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)
- Height 48.5 mm

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

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GeoDesy by SECO

- Tribrach Adapter
- Height: 136.2 mm
- Weighs 0.88 lb (0.40 kg)

FPT144-BLK — Traverse Tribrach Adapter & GPS Carrier w/ Swiss-Style Locking Pin

- Fixed Tribrach Adapter
- Height: 145.5 mm
- Weighs 1.10 lb (0.50 kg)

FPT146-BLK — Fixed Tribrach Adapter with 5/8 x 11 Stud

- Tribrach Adapter
- Height: 40 mm
- Weighs 0.62 lb (0.28 kg)

FPT247-BLK — Fixed Tribrach Adapter & GPS Carrier with 5/8 Stud

- Tribrach Adapter
- Includes rotating lock screw
- Height: 32 mm
- Weighs 1.10 lb (0.50 kg)

A455 — Tribrach Adapter with Rotating Lock Screw

- Tribrach Adapter
- Non-Rotatable
- Height: 22.5 mm
- Weighs 0.66 lb (0.30 kg)

A452 — Non-Rotatable 5/8 x 11 Tribrach Adapter

- Tribrach Adapter
- Height: 23 mm (slim)
- Rotating, Friction
- Weighs 0.79 lb (0.36 kg)

A458 — Rotatable Tribrach Adapter

- Tribrach Adapter
- Height: 32 mm
- Rotating, Friction
- Weighs 1.06 lb (0.48 kg)

A456 — Tribrach Adapter

- Rotatable prism holder
- With optical plummet
- Shortest focal distance: 0.35 mm
- Operating Temperature: -20°C to +50°C
- Magnification: 2x
- Image: Erect
- Height: 136.2 mm
- Accuracy: 0.5 mm/1.5 m
- Vial Sensitivity: 45"/2 mm
- Swiss-Style quick lock pin
- Weighs 1.41 lb (0.64 kg)

RT481WON-BLK — Rotatable Prism Holder with Optical Plummet and Swiss-Style Locking Pin

- Rotatable prism holder
- With optical plummet
- Shortest focal distance: 0.35 mm
- Operating Temperature: -20°C to +50°C
- Magnification: 2x
- Image: Erect
- Accuracy: 0.5 mm/1.5 m
- Height 100 mm
- Vial Sensitivity: 45"/2 mm
- Bayonet style tip
- Weighs 1.41 lb (0.64 kg)

RT482WON-BLK — Rotatable Prism Holder with Optical Plummet and Bayonet Tip

- Rotatable prism holder
- With optical plummet
- Shortest focal distance: 0.35 mm
- Operating Temperature: -20°C to +50°C
- Vial Sensitivity: 45"/2 mm
- Magnification: 2x
- Image: Erect
- Height 70 mm
- Accuracy: 0.5 mm/1.5 m
- 5/8 x 11 threaded stud
- Weighs 1.23 lb (0.56 kg)

RT484WON-BLK — Rotatable Prism Holder with Optical Plummet and 5/8 x 11 Threaded Stud

- Rotatable prism holder
- Without optical plummet
- Swiss-Style quick lock pin
- Height: 136.2 mm
- Vial: 45"/2 mm
- Weighs 1.21 lb (0.55 kg)

RT481W-BLK — Rotatable Prism Holder without Optical Plummet with Swiss-Style Locking Pin

- Rotatable prism holder
- Without optical plummet
- Bayonet tip
- Height: 100 mm
- Vial: 45"/2 mm
- Weighs 1.21 lb (0.55 kg)

RT482W-BLK — Rotatable Prism Holder without Optical Plummet with Bayonet Tip

- Rotatable prism holder
- Without optical plummet
- 5/8 x 11 threaded stud
- Height: 70 mm
- Weighs 1.06 lb (0.48 kg)

RT484W-BLK — Rotatable Prism Holder without Optical Plummet with 5/8 x 11 Threaded Stud

product can also be shipped from our European warehouse

GeoDesy by SECO

Quality European-made tribrachs allows your equipment to stay steady

FEATURES & BENEFITS

- SECO now offers Geodesy-MOM tribrachs 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 accessory connection
- A center line on each of the leveling screws allows the user to balance the lengths of the leveling screws
- All tribrachs feature 5/8 x 11 threaded base plates and 8-minute circular vials
- High-precision tribrachs 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)

Part No. 2152-06-BLK

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

European Style Tribrach

Choose with or without Optical Plummet

FEATURES & BENEFITS

- This tribrach features 2X magnification and a twist focus
- Its reticule is composed of two small concentric circles
- With a sighting distance of 0.3 m to 15 m, the tribrach has an accuracy of 0.5 mm per 1.5 m
- Locking forced-centering knob and a 5/8 x 11 base and an 8-minute circular vial
- Choose between with an optical plummet or without an optical plummet
- Weighs 1.55 lb (0.70 kg)

Part No. 2152-05-BLK

2152-05-BLK — European-Style Tribrach with Optical Plummet
2153-05-BLK — European-Style Tribrach Non-Optical Plummet Tribrach

Traverse Tribrach Adapter

Compatible with all 24.9 mm bayonet base prisms

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

2153-10-051 Quick Release Adapter

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
- Weighs 1.70 lb (0.77 kg)

Part No. 2153-10-BLK

2153-10-BLK — Traverse Tribrach Adapter

product shipped from the US warehouse only

Single Prism 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) 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 <5 arc seconds angle deviation
- The adapter has a precision machined axis that rotates 360°
- The height is 180 to 200 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)

Part No. 2159-01-BLK

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

Precision Traverse Kits for 196 mm Heights

Perfect companion for Trimble or Spectra Precision Total Stations

FEATURES & BENEFITS

- These new Traverse Kits are a high quality, high precision European made product.
- Prism holder is all metal with a standard Swiss type push button quick release that will also work with all Swiss type poles.
- Target is reversible for short or long range applications
- Rotating Adapter has a 2X magnification optical plummet with a plumbing accuracy of 0.5mm/1.5M with a 45" sensitivity adjustable plate vial.
- Tribrach is a high precision model with torsional rigidity <1". Circular vial is 8 minutes per 2 mm of movement.
- Height of the assembly is 196mm, +,-0.5mm from tribrach dish to prism center.
- Carrying case is a bright orange hard shell with high density foam inserts and backpack straps.
- Weight 9.95 Lbs

Part No. 2159-06

PART NO.	PRISM SIZE	COATED	OFFSET
2159-06	*62 mm*	*Copper*	*-34*
2159-07	*62 mm*	*Silver*	*-35*

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
- 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)

Part No. 2159-03-BLK

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

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
- Prism has<5 arc seconds angle deviation and a silver-coated prism to resist fogging
- Includes rotating tribrach adapter with a 2.5X pull focus optical plummet and a 45-second adjustable plate vial
- Adapter has a precision machined axis that rotates 360°
- Tilt target has 0 or -30 offsets
- 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)

Part No. 2159-04-BLK

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

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)

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

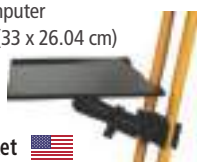
- Provides non-slip support for tripods
- Works on all ferrous metal surfaces
- Includes three 5-inch round ceramic magnets
- Each magnet has a tripod point connection with a bungee strap
- Handle to remove magnet from surface included
- Each magnet has 210 pull pounds
- Kit bag is included

5610-12 — Tripod Anchor Kit

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

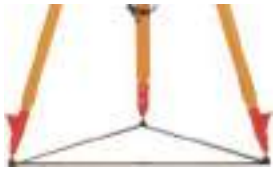
5196-07 — Tilted Bracket

- 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
5196-17 — Nomad
5196-18 — TSC3 or Ranger 3
5196-19 — Mesa Tesla
5196-20 — Archer 2

Tripod Dollies

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

- 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)

Note: Tripod not included with dolly.

90555 — Tri-Max Tri-Dolly
90557-050 — Tri-Max Wheel Kit

- Tripod Dolly for all surveying tripods
- Easily maneuvered through doorways
- Folds for portability, 25.5" folded
- Convenient carrying handle
- Locking 5" diameter, hard rubber wheels; ball bearing casters with cable guards
- Adjustable Velcro straps to keep tripod secure
- Load capacity 132 lbs
- Weight 17 lbs

Note: Tripod not included with dolly.

5610-15 — Tripod Dolly

Cross Reference Table

Bags and Cases For Instrument Tripods

BAGS	PAGE NUMBER	TRIPODS WILL FIT
8150-20-ORG	Pg. 65	Every Tripod Except for; 90558, 90560, 5321-17-ORG
8153-10-ORG	Pg. 65	5321-17-ORG and 5115-00
8154-00-ORG	Pg. 65	5119-00
8154-10-ORG	Pg. 65	5300-11 and 5300-12
8154-11-ORG	Pg. 65	Every Tripod Except for; 90558, 90560, 5321-17-ORG
8154-12-ORG	Pg. 65	5119-10
8160-31	Pg. 65	Every Tripod Except for; 5321-17-ORG

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 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
- The large 'footbed' is there to facilitate solid planting for stability
- 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
- Tri-Max tripods can handle equipment up to 30 kg (65 lb)
- Collapsed: 113 cm (44.5 in) except 90560: 54 in (1.37 m)

APPLICATIONS

- Robotics
- Scanning
- Leveling

Part No. 90550

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	Dual Clamp	Fiberglass	20.00 lb (9.00 kg)	91 in (2.3 m)	Flat	Black

Premier Fiberglass Tripods

Improved quality and stability for more accurate measurements

FEATURES & BENEFITS

- 6-5/8 inch (16.83 cm) flat head with large center hole (2-5/8 inch, 6.67 cm) 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
- Extends to 70.75 inches (179 cm)
- Collapses to 43.75 inches (111 cm)
- Made in North America under strict quality controls
- Includes a comfortable shoulder strap for carrying over longer distances

APPLICATIONS

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

Part No. 90582

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

product can also be shipped from our European warehouse

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

APPLICATIONS

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

Part No.
5321-17-ORG

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

Universal Tri-Max Elevator Tripod

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

90557-050

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
- Center column independently lifts 1 meter (90558-050)
- A gear box controls lift and descent so the center column cannot free fall
- The 5/8 x 11 mounting head is removable and adjustable in azimuth direction
- 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)
- Sections can move up or down
- Machined-aluminum elevator column and fiberglass legs makes for a robust and easy-to-use laser instrument tripod
- Fiberglass Legs
- Stable for instruments up to 25 lb (11.33 kg) under most conditions
- Weighs 29.00 lb (13.20 kg)
- Collapsed length 53 in

APPLICATIONS

- Robotics
- Scanning
- Leveling

Part No.
90558

90558 — Universal Tri-Max Elevator Tripod
90558-050 — 1 Meter Extension for Universal Tri-Max Elevator Tripod
90557-050 — Tri-Max Wheel Kit
90558-052 — Adaptor Plate, 3/8-16

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 (84 cm)
- 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.
5321-16-BLK

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)*

product shipped from the US warehouse only

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)
- Highly recommended for all servo-driven and robotic total stations and 3-D laser scanners
- Fiberglass legs
- Weighs 15.40 lb (7.00 kg)

APPLICATIONS

- Robotics
- Scanning
- Leveling

Part No. 90550-S

90550-S — Short Tri-Max

Birch Wood / Fiberglass Hybrid Tripod

Improved kiln dried birch wood / fiberglass hybrid tripod models

Disclaimer: the full-view tripod is a composite photograph for illustrative purposes

FEATURES & BENEFITS

- Combination of hardwood legs with fiberglass dowels provides stability and weather resistance
- Large aluminum head and leg hinges provide stable mounting base
- Double banded extension legs and large positive locking quick clamp with large quick release clamps for extra stability
- Powder coated wear-resistant metal hardware
- Aluminum shoe with hardened steel replaceable shoe points
- Includes: plastic head cap for protection, heavy-duty poly-webbing shoulder strap for ease of carrying to the job site (not shown)

PART NO.	MATERIAL	EXTENDED	COLLAPSES	CLAMPING	HEAD	WEIGHT	COLOR
5302-13-BLK	Wood / Fiberglass	69" (175.26 cm)	43" (109 cm)	Quick Clamp	Triangle	16.5 lb (7.48 kg)	Black
5302-13-ORG	Wood / Fiberglass	69" (175.26 cm)	43" (109 cm)	Quick Clamp	Triangle	16.5 lb (7.48 kg)	Orange
5402-13-BLK	Wood / Fiberglass	72" (183 cm)	43" (109 cm)	Twist Locks	Triangle	15.7 lb (7.14 kg)	Black
5402-13-ORG	Wood / Fiberglass	72" (183 cm)	43" (109 cm)	Twist Locks	Triangle	15.7 lb (7.14 kg)	Orange

Heavy-Duty Birch Wood Tripods

Improved kiln dried birch wood tripod models

Disclaimer: the full-view tripod is a composite photograph for illustrative purposes

FEATURES & BENEFITS

- Made of high quality birch hardwood with wide-frame extension legs and 123mm (0.91") dowels
- Large 6.5" (165mm) aluminum head
- Twist locks with die cast leg bands for maximum locking
- Quick clamps, adjustable, for quick sets ups
- Powder Coated metal ttings
- Aluminum shoe with hardened steel replaceable shoe points
- Instrument Fastener brass 5/8-11
- Includes heavy-duty poly-webbing shoulder strap for ease of carrying to the job site (not shown)

PART NO.	MATERIAL	EXTENDED	COLLAPSES	CLAMPING	HEAD	WEIGHT	COLOR
5220-13-BLK	Wood	68" (173 cm)	43" (109 cm)	Dual Locks	Round	16.5 lb (7.48 kg)	Black
5220-13-ORG	Wood	68" (173 cm)	43" (109 cm)	Dual Locks	Round	16.5 lb (7.48 kg)	Orange
5420-13-BLK	Wood	72" (183 cm)	43" (109 cm)	Twist Locks	Round	15.0 lb (6.82 kg)	Black
5420-13-ORG	Wood	72" (183 cm)	43" (109 cm)	Twist Locks	Round	15.0 lb (6.82 kg)	Orange

Square Leg Aluminum Tripods

Heavy-duty aluminum square leg tripods offer stability and accuracy

FEATURES & BENEFITS

- Equipped with square outer dowels for a more secure lock
- These tripods are equipped with a 5/8 x 11 threaded adapter for convenient mounting of instruments
- They're built to last—with heavy construction throughout— and are designed to withstand rigorous field conditions

APPLICATIONS

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

Part No. 5301-31-BLK

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE	
5301-31-BLK	Quick Clamp	Aluminum (Square)	9.70 lb (4.40 kg)	64 in (1.60 m)	Triangle / Flat	Black	EU
5301-31-ORG	Quick Clamp	Aluminum (Square)	9.70 lb (4.40 kg)	64 in (1.60 m)	Triangle / Flat	Orange	EU

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. 5301-21-ORG

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE	
5301-21-ORG	Quick Clamp	Aluminum (Round)	9.35 lb (4.24 kg)	65 in (1.65 m)	Triangle / Flat	Orange	US
5301-21-BLK	Quick Clamp	Aluminum (Round)	9.35 lb (4.24 kg)	65 in (1.65 m)	Triangle / Flat	Black	US
5301-25-BLK	Quick Clamp	Aluminum (Round)	7.45 lb (3.38 kg)	63.5 in (1.60 m)	Triangle / Flat	Black	US
5301-24-BLK	Quick Clamp	Aluminum (Round)	6.75 lb (3.06 kg)	27 in (68.65 cm)	Triangle / Flat	Black	US
5311-21-ORG	Quick Clamp	Aluminum (Round)	7.60 lb (3.45 kg)	63.5 in (1.60 m)	Dome	Orange	US
5401-21-BLK	Screw Clamp	Aluminum (Round)	9.35 lb (4.24 kg)	65 in (1.65 m)	Triangle / Flat	Black	EU

product shipped from the US warehouse only

Leveling Rod Accessories

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

7321-050 — Leveling Rod Vial

- These replacement rod button kits fit on SECO aluminum leveling rods

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

- 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 Level

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
- Other quality features include chrome plating on the dome, carrying handle and ground points
- Use to improve the accuracy of level runs in soft terrain
- Diameter 5.51 in (14 cm)
- Diameter of half ball 1.81 in (3 cm)
- Height of half ball 0.79 in (2 cm)
- Height of foot to top half ball 2.60 in (6.6 cm)
- Weighs 4.41 lb (2.00 kg)

7304-01 — Leveling Plate (Turtle)

- 5/8 x 11 Prism Mounting Adapter Kit

91258 — 5/8 x 11 Prism Mounting Adapter Kit

- 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

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 3.8 inches
- Depth: 1.75 inches

5217-20-FLY — Invar Rod Thumb Release Bipod

Laser Receiver Cut & Fill Rod

Perfect Rod for Curb and Gutter and Grade Setting jobs

FEATURES & BENEFITS

- Crain's Laser Receiver Cut & Fill Rod is perfect for Curb & Gutter and Grade Setting jobs
- Red graduations is a "Cut" value from grade with a range of 1.40 ft (0.43 m)
- Blue graduations are a "Fill" value with a range of 1.84 ft (0.562 m)
- Dual 0.01 ft and 2 mm graduations
- Rod collapsed to 4.5 ft (1.37 m) and extends to 8.0 ft (2.4 m)
- The Quick Release sliding bracket works with all standard Laser Receiver rod clamps
- Leveling vial built into the sliding bracket for easy viewing
- Telescoping bottom section reads direct height to the "zero" mark on the rod
- Manufactured in Fiberglass and Delrin to resist concrete adhesion
- Weighs 2.25 lb (1.02 kg)

APPLICATIONS

- Construction grading

Part No. 7310-13

7310-13 — Laser Receiver Cut & Fill Rod

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

*Replacement buttons PN: 70014-6 and 70014-7 (see page 43)

APPLICATIONS

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

Part No. 7321-30

PART NO.	SECTIONS	LENGTH	GRADS	WEIGHS
7321-30	3	9 ft, 9.5 in	8ths	2.40 lb (1.10 kg)
7301-30	3	9.8 ft	10ths	2.40 lb (1.10 kg)
7321-40	4	13 ft, 1.38 in	8ths	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	8ths	3.50 lb (1.60 kg)
7301-50	5	16.4 ft	10ths	3.50 lb (1.60 kg)

'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. 7341-31

PART NO.	LENGTH	GRADS	WEIGHS
7341-31	3 m	cm	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)
7341-56	5 m	UK cm / mm	3.80 lb (1.73 kg)

Grade/Trenching Rod

Fast, highly-visible, cut measurements without moving the laser receiver

FEATURES & BENEFITS

- SECO's 92090 is two rods in one, a grade/trenching rod and a standard leveling rod
- The direct reading "cut" measurement is displayed at three convenient locations including the, highly visible, top of the rod
- The unique internal bungee cord allows for fast cut measurements once the rod is set on the desired grade without having to move the laser receiver
- Graduated in feet, tenths, and 0.5 ft
- Extend the 6-foot-long rod to 9 feet with three 1-foot telescoping boots
- A large 2.5-inch-round foot provides stability when working in dirt and gravel
- The rectangular fiberglass body fits all laser rod clamps
- Both sides can be used with laser receivers or optical levels
- Order 91402 for carrying case
- Weighs 4.20 lb (1.90 kg)

APPLICATIONS

- Foundation walls and trenching
- Grading

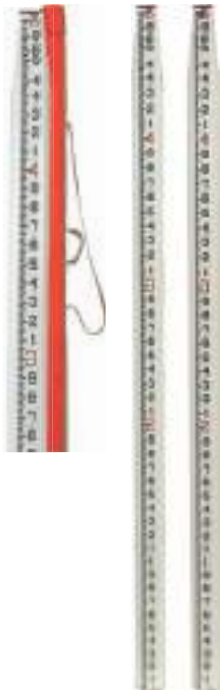
Part No. 92090

92090 — Grade/Trenching Rod - Tenths

product shipped from the US warehouse only

Surveyor's Series (SVR) Leveling Rods

Waterproof and wear-resistant



Rectangular-oval shape allows for wide, glare resistant and wear-resistant scales.

FEATURES & BENEFITS

- Features a new shorter collapsed length (58.5 inches on 25 ft versions) and a lighter weight
- Constructed of strong, rigid fiberglass with reinforcing ribs for added stability
- Water-resistant and non-conductive
- A tight locking mechanism features round buttons that resist jamming from sand and dirt
- Includes a ¼ x 20 female adapter in top section
- Includes carrying case
- Order 91411 for replacement carrying case

APPLICATIONS

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

Part No. 98010

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

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

APPLICATIONS

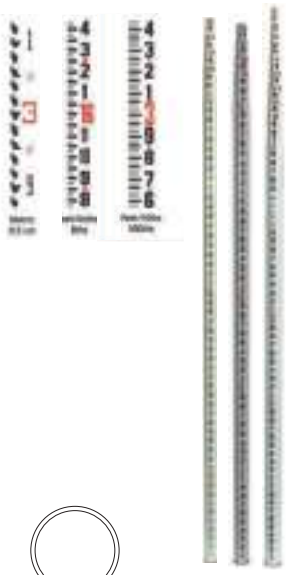
- Use with an SVR rod to mount your laser receiver

Part No. 91100

PART NO.	MOUNT TYPE	DESIGNED FOR
91100	Top	Universal
91162	Top	Storm® HL700/750/450
91163	Side	Storm HL700/750/450

Standard/Pro Series (LR) Leveling Rods

Round rod is wind resistant



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 available in 25 ft, 35 ft and 45 ft lengths in feet/10ths/100ths
- Carrying case is included or purchase replacement 91402

APPLICATIONS

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

Part No. 90004

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	8ths	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)

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

- Features 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
- For laser detector mounting with no special brackets required
- Made with strong fiberglass which is waterproof, corrosion-resistant and non-conductive
- Features ¼ x 20 female adapter in the top section
- Carrying case is included
- Order 91410 for 8 ft or 91411 for 13 - 20 ft for replacement carrying case

APPLICATIONS

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

Part No. 92001

PART NO.	LENGTH	GRADS	WEIGHS
92001	8 ft	10ths	3.00 lb (1.36 kg)
92002	8 ft	8ths	3.00 lb (1.36 kg)
92021	13 ft	10ths	5.00 lb (2.26 kg)
92022	13 ft	8ths	5.00 lb (2.26 kg)
92041	16 ft	10ths	6.00 lb (2.72 kg)
92042	16 ft	8ths	6.00 lb (2.72 kg)
92031	20 ft	10ths	7.00 lb (3.17 kg)
92032	20 ft	8ths	7.00 lb (3.17 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)
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)

product shipped from the US warehouse only

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

Part No.
ML-1

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 Locator

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

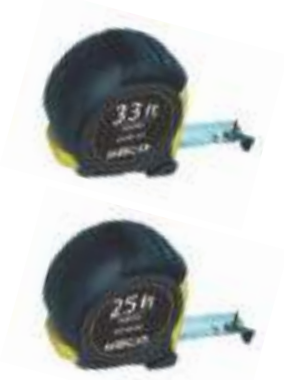
- Perfect for locating survey corner markers, PK and Mag Nails, valve and covers, steel and iron pipes, well casings, steel tanks, lost tools or even downed and buried fence lines

Part No.
ML-35Y

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

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

APPLICATIONS

- General construction

Part No.
4769-00

PART NO.	LENGTH	WIDTH	GRADS
4769-00	*25 ft*	*1 inch (32 mm)*	*10ths*
4769-01	*25 ft*	*1 inch (32 mm)*	*10ths / Metric*
4769-02	*25 ft*	*1 inch (32 mm)*	*10ths / 8ths*
4769-03	*33 ft*	*1 inch (32 mm)*	*10ths*
4769-04	*33 ft*	*1 inch (32 mm)*	*10ths / 8ths*
4769-06	*33 ft (10 m)*	*1 inch (32 mm)*	*10ths / Metric*
4769-14	*5 m*	*3/4 inch (19 mm)*	*m/cm/mm*
4769-15	*10 m*	*3/4 inch (19 mm)*	*m/cm/mm*

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 ½, 1, ½, ¼,1/8, ¾, 3/8, 3/16, 3/32, and 1/16

APPLICATIONS

- Engineering and Architectural construction

Part No. 9006-00

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. 3003-06

PART NO.	TYPE	LENGTH	GRADS
3003-06	*PVC-Coated Fiberglass*	*100 ft*	*10ths*
3003-07	*PVC-Coated Fiberglass*	*200 ft*	*10ths*
3003-10	*PVC-Coated Fiberglass*	*30 m*	*m/cm/mm*
3003-14	*PVC-Coated Fiberglass*	*90 m*	*m/cm/mm*
3006-06	*Nylon-Coated Steel*	*100 ft*	*10ths*
3006-07	*Nylon-Coated Steel*	*200 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*	*8ths / 10ths (Dual Grad)*
3006-18	*Nylon-Coated Steel*	*200 ft/60 m*	*10ths / Metric (Dual Grad)*
3006-08	*Nylon-Coated Steel*	*300 ft*	*10ths*
3003-08	*PVC-Coated Fiberglass*	*300 ft*	*10ths*

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

APPLICATIONS

- General construction

Part No. 4770-00

4770-00 — Rhino Ruler Waterproof Fiberglass Engineer's Folding Ruler - 10ths / 8ths
4770-01 — Rhino Ruler Waterproof Fiberglass Engineer's Folding Ruler - 10ths / Metric

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CMR Series Measuring Rulers and Cases

Designed for one-person measuring

FEATURES & BENEFITS

- 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 ¼ x 20 adapter in the top section
- Made of rugged, non-conductive fiberglass and includes a carrying case and calliper tip
- Carrying cases are made from the highest quality 1000-denier nylon

Part No. 90180

PART NO.	LENGTH	WEIGHT	OD	REPLACEMENT CARRY CASE	OD CASE MEASUREMENTS
90180	25 ft (7.6 m)	5.00 lb (2.27 kg)	1-13/16 inch	91415	3.5 x 65 in (8.89 x 165.1 cm)
90181	36 ft (11 m)	9.00 lb (4.08 kg)	2-7/32 inch	91416	4.5 x 68 in (11.43 x 172.72 cm)
90182	50 ft (15.2 m)	12.00 lb (5.44 kg)	2-13/32 inch	91417	4.5 x 76 in (11.43 x 193.04 cm)

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

APPLICATIONS

- Highly accurate distance measurement

Part No. QM55

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

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	√		√

Stream Gauges

Allows you to instantly see water levels

7-inch-wide
Feet/10ths

7-inch-wide
Un-Numbered

4-inch-wide
Un-Numbered

4-inch-wide
Metric/Decimeters/Centimeters

4-inch-wide
Feet/10ths/100ths

FEATURES & BENEFITS

- Stream Gauges allow you to instantly see water levels
- Graduations are specified in table
- Gauges are available in successive increments to form ranges and elevations for 7 inch is 0.5 to 5.5 feet and 4 inch is 0 to 4 ft
- 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 ¼ 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 Stream Gauges feature 2-¼ inch (5.72 cm) tall numbers
- 4-inch Stream Gauges features 1-¼-inch (3.175 cm) tall numbers
- Use unnumbered gauges for height beyond 15.5 ft, 16 ft, or 3.66 m as needed

APPLICATIONS

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

Part No.
99000

PART NO.	DESCRIPTION	LENGTH	WIDTH	GRADS	WEIGHS
99000	Un-Numbered	4 ft	4 inch (10.2 cm)	feet / 10ths / 100ths	2.00 lb (0.91 kg)
99001	4 ft	0 - 4 ft	4 inch (10.2 cm)	feet / 10ths / 100ths	2.00 lb (0.91 kg)
99002	4 ft	4 - 8 ft	4 inch (10.2 cm)	feet / 10ths / 100ths	2.00 lb (0.91 kg)
99003	4 ft	8 - 12 ft	4 inch (10.2 cm)	feet / 10ths / 100ths	2.00 lb (0.91 kg)
99004	4 ft	12 - 16 ft	4 inch (10.2 cm)	feet / 10ths / 100ths	2.00 lb (0.91 kg)
99023	Un-Numbered	4 ft	4 inch (10.2 cm)	feet / 10ths	2.00 lb (0.91 kg)
99051	1.22 m	0 - 1.22 m	10.2 cm (4 inch)	m / dm / cm	2.00 lb (0.91 kg)
99052	1.22 m	1.22 - 2.44 m	10.2 cm (4 inch)	m / dm / cm	2.00 lb (0.91 kg)
99053	1.22 m	2.44 - 3.66 m	10.2 cm (4 inch)	m / dm / cm	2.00 lb (0.91 kg)
99071	Un-Numbered	5 ft	7 inch (17.78 cm)	feet / 10ths / 100ths	4.00 lb (1.81 kg)
99072	Un-Numbered	5 ft	7 inch (17.78 cm)	feet / 10ths	4.00 lb (1.81 kg)
99079	5 ft	0.5 - 5.5 ft	7 inch (17.78 cm)	feet / 10ths	4.00 lb (1.81 kg)
99080	5 ft	5.5 ft - 10.5 ft	7 inch (17.78 cm)	feet / 10ths	4.00 lb (1.81 kg)
99081	5 ft	10.5 - 15.5 ft	7 inch (17.78 cm)	feet / 10ths	4.00 lb (1.81 kg)

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.

Part No.
99043

99043 — Mounting Hardware for Stream Gauges

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Stream Gauges Plate Numbers

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

FEATURES & BENEFITS

- Number plates may be used to customize elevations for a particular application
- Gauges may be ordered in successive increments to form ranges and elevations
- All stream gauges are 1/8-inch thick and the pre-drilled holes for mounting have a diameter of ¼-inch
- Numbers on 7-inch stream gauges are 2-¼-inch tall
- Numbers on 4-inch stream gauges are 1-¼-inch tall
- 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
- Unnumbered gauges also available

APPLICATIONS

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

PART NO.	NUMBER PLATE	MEASURES
99060	0 (zero)	2-1/4 x 4 inches
99061	1 (one)	2-1/4 x 4 inches
99062	2 (two)	2-1/4 x 4 inches
99063	3 (three)	2-1/4 x 4 inches
99064	4 (four)	2-1/4 x 4 inches
99065	5 (five)	2-1/4 x 4 inches
99066	6 (six)	2-1/4 x 4 inches
99067	7 (seven)	2-1/4 x 4 inches
99068	8 (eight)	2-1/4 x 4 inches
99069	9 (nine)	2-1/4 x 4 inches
99070	- (Minus)	2-1/4 x 4 inches

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 (133 mm) 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 External 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

Magnetic Dampened Auto Level and Packages

Easy-to-use 24X and 32X auto-levels

FEATURES & BENEFITS

- The 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
- 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
- Kit comes with 5301-25-BLK tripod; rod in kit may be inches or mm

APPLICATIONS

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

Part No. 4811-24

PART NO.	POWER/DAMPENING	TRIPOD	ROD
4811-24	24X / Magnetic Dampened	No	None
4811-24P1	24X / Magnetic Dampened	Yes	9 ft, 8ths / 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, 8ths / 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, 8ths / feet
4811-24P8	24X / Magnetic Dampened	Yes	16 ft, 10ths / feet
4811-32	32X / Magnetic Dampened	No	None
4811-32P1	32X / Magnetic Dampened	Yes	9 ft, 8ths / 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

SPECIFICATIONS	4811-24	4811-32	AL24A	AL24M	AL32A
Magnification	24X	32X	24X	24X	32X
Objective Diameter	36 mm	42 mm	30 mm	30 mm	36 mm
Field of View Angle	1° 20'	1° 20'	1° 20'	1° 20'	1° 20'
Shortest Focusing Distance	0.3 m	0.3 m	0.6 m	0.6 m	0.6 m
Stadia Constant	100	100	100	100	100
Additive Constant	0	0	0	0	0
Compensator Dampening	Magnetic	Magnetic	Air	Magnetic	Air
Compensator Range	±15'	±15'	±15'	±15'	±15'
Compensator Setting Accuracy	<0.5"	<0.5"	<0.5"	<0.5"	<0.3"
Double Run Leveling per 1 km	2 mm	1 mm	2 mm	2 mm	1 mm
Circular Vial Accuracy	8/2 mm	8/2 mm	8/2 mm	8/2 mm	8/2 mm
Horizontal Circle	1°	1°	1°	1°	1°
Base Plate	5/8 x 11	5/8 x 11	5/8 x 11	5/8 x 11	5/8 x 11
Color	Red	Red	Yellow	Yellow	Yellow
Weight	3.97 lb (1.80 kg)	3.97 lb (1.80 kg)	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)

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
AL32A	32X / Air Dampened	No	None

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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
- For Specifications see website

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

Part No.
DET-2

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

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)

APPLICATIONS

- Perfect for a laser for vertical applications or Theodolites

Part No.
4852-14

4852-14 — Batter Board Clamp

Storm Laserometer Receiver

Highly-visable 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)

APPLICATIONS

- Highly accurate distance measurement

Part No. ATI994000-02

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

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)

APPLICATIONS

- Highly accurate distance measurement

Part No. ATI993600-02

ATI993600-02 — Lightning 2 Laser Detector - Red
ATI993600-09 — Lightning 2 Laser Detector - Yellow

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) with batteries

APPLICATIONS

- Highly accurate distance measurement

Part No. ATI993640-02

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

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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

APPLICATIONS

- Highly accurate distance measurement

Part No.
ATI991320-02

PART NO.	POWER SOURCE	COLOR
ATI991320-02	Alkaline	Red
ATI991320-09	Alkaline	Yellow
ATI991326-02	Rechargeable NIMH	Red
ATI991326-09	Rechargeable NIMH	Yellow

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
- For grading and excavating machinery
- 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

APPLICATIONS

- Highly accurate distance measurement

Part No.
ATI991370-02

PART NO.	POWER SOURCE	COLOR
ATI991370-02	Alkaline	Red
ATI991370-09	Alkaline	Yellow
ATI991376-02	Rechargeable NIMH	Red
ATI991376-09	Rechargeable NIMH	Yellow

Bullseye 3+ Laser Receiver

Use on dozers, graders, scrapers, and box blades

FEATURES & BENEFITS

- Adapts to grading and excavating machinery
- Easy to move from one machine to another 3 selectable accuracies - work from rough grading to final finishing
- Bright LED's with green on-grade
- 5 channels of grade information plus directional out of beam indicators

APPLICATIONS

- Highly accurate distance measurement

Part No.
ATI991340-02

PART NO.	POWER SOURCE	COLOR
ATI991340-02	Alkaline	Red
ATI991340-09	Alkaline	Yellow
ATI991346-02	Rechargeable NIMH	Red
ATI991346-09	Rechargeable NIMH	Yellow

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

APPLICATIONS

- Highly accurate distance measurement

Part No.
ATI991360-02

ATI991360-02 — Bullseye Magnetic Mount - For Backhoe and Excavator
ATI991364-02 — Bullseye Magnetic Mount - For Flat Back Dozer Blades

Bullseye Receiver Accessories

PART NO.	BULLSEYE RECEIVER ACCESSORIES
ATI010972-15	*Receiver cable, straight, 15 ft*
ATI010972-20	*Receiver cable, straight, 20 ft*
ATI010972-25	*Receiver cable, straight, 25 ft*
ATI010972-35	*Receiver cable, straight, 35 ft*
ATI010972-50	*Receiver cable, straight, 50 ft*
ATI010983	*Machine power cable, lighter adapter, 2-8 ft*
ATI010987-25	*Machine power cable, ring terminals, 25 ft*
ATI991604	*Universal battery charger with wall plugs*
ATI010536-02S	*Bullseye carrying case (Red)*
ATI010976-02	*Swivel mount (shown in ATI991570)*

Gopher Pole Wire Installation Tool

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

FEATURES & BENEFITS

- With its long, adjustable span of up to 22 feet, the Gopher Pole makes wiring easy in hard-to-reach areas such as suspended ceilings, sub-oors, crawl spaces and attics
- Ideal for pushing/pulling wire over long spans and acoustic ceiling tiles
- Telescopes from 4 to 22 feet (1.22 to 6.70 meters) in seconds
- Features a positive-locking system that won't accidentally collapse
- Features a strong but malleable metal tip that allows for easy shaping of the hook
- Sturdy and lightweight with no loose parts; constructed of durable non-conductive berglass
- Includes a carrying case

APPLICATIONS

- Utility Companies
- Electrical Contractors
- Electrical Supply Distributors
- Communications
- Data Network Solutions
- Commercial And Industrial Lighting
- Security Equipment Firms
- General Interior Construction

Part No.
90520

90520 — Gopher Pole Wire Installation Tool
91415 — Carrying Case

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Wall/Column Bracket for Lasers and Total Stations

Dual mounting options enable flexibility on the construction job site

FEATURES & BENEFITS

- SECO's 4852-17 is a dual-use bracket for lasers and total stations
- Mounts easily to columns (or corners) and flat walls
- The unique design allows quick and easy separation for dual usage
- 5/8 x 11 platform holds the instrument 5 inches from the wall/column surface
- A ratchet and strap secures the bracket to columns up to 20 inches (use Extension Strap #D12328 for larger columns, offering 37 to 69 inches of extra length)
- Multiple nail/screw holes enable wall mounting
- Features a powder coated steel frame
- Weighs 5.00 lb (2.30 kg)

APPLICATIONS

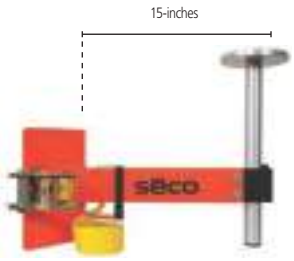
- For use with Lasers and Total Stations on large construction sites

Part No. 4852-17

4852-17 — Wall/Column Bracket for Lasers and Total Stations

Heavy-Duty Instrument 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)

APPLICATIONS

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

Part No. 4852-16

4852-16 — Heavy-Duty Column Clamp

Wall Mount Bracket

Simple and secure set-up for any ferrous metal surfaces

FEATURES & BENEFITS

- Strong one-piece construction
- Designed to hold U-Bolts for 2- or 3-inch (50.8- or 7.62-cm) diameter pipe

**Installation hardware not included*

- 4 x 0.69-inch (10.16 x 1.75-cm) wall mounting holes on 6-inch (15.24 cm) centers*
- 8-inch (203-mm) stand off from flat wall surface
- Welded /-inch (6.35-mm) steel
- Powder painted wrinkle black
- Weighs 9.15 lb (4.20 kg)

2072-60 — Wall Mount Bracket

Rotating Laser 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
- 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)

APPLICATIONS

- Perfect for a laser for vertical applications or Theodolites

Part No. 4852-15

4852-15 — Column Clamp

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
- Features include YKK zippers, 4 inch (10.16 cm) wide reflective tape with 2 inch (50.8 mm) wide silver stripes made with 3M Scotchlite Reflective Material
- Padded collar is made with Outlast fabric on the inside
- Developed in conjunction with surveyors from the California Department of Transportation
- 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. 8365

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 (50.8 mm) 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. 8368

PART NO.	COLOR	SIZE
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)

product shipped from the US warehouse only

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 (76.2 mm) wide reflective tape with 2 inch (50.8 mm) 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. 8390

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
- Features include bright fluorescent material, 4 inch (101.6 mm) wide contrasting reflective material with 2 inch (50.8 mm) 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. 8265

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 (XXL)
8265-58-FOR	Fluorescent Orange	58 (XXL)
8265-62-FLY	Fluorescent Yellow	62 (XXXL)
8265-62-FOR	Fluorescent Orange	62 (XXXL)
8265-66-FLY	Fluorescent Yellow	66 (J)
8265-66-FOR	Fluorescent Orange	66 (J)

8260-Series U.S./Canada Dual Safety Utility Vest

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

FEATURES & BENEFITS

- Manufactured to meet ANSI/ISEA 107-2010 Class 2 and CSA-Z96 standards
- Vest compartments include a field notebook pocket, pencil slots, flagging tape pocket with grommets, and an internal cell phone pocket
- Includes a special padded collar made of Outlast® material for added comfort
- 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
- Also including two exterior radio mic clips and a front closing zipper
- Made of 100% polyester

APPLICATIONS

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

Part No. 8260

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)

8261-Series Safety Utility Vest

Designed to meet EN 20471:2014 Class 2 Standards

FEATURES & BENEFITS

- Features durable ISO 20471 compliant polyester and polyester mesh. This vest has heavy-duty YKK® zippers
- Features zipper openings on the side to allow for ventilation
- The padded collar is made with Outlast® fabric on the inside to help regulate body temperature
- 10.16 cm wide reflective tape with 5.08 cm wide silver stripes
- Vest is third-party CE certified
- Comes with an easy-to-access mic clip
- This vest has multiple pockets that are secure and easily accessible
- Chest sizes range from 96.52-167.64 cm (38"- 66")
- Sizes available: XS, S, M, L, XL, 2X, 3X, J
- Available in fluorescent orange or fluorescent yellow

Part No. 8261

PART NO.	COLOR	SIZE
8261-XS-FLY	Fluorescent Yellow	96.52 cm (XS)
8261-XS-FOR	Fluorescent Orange	96.52 cm (XS)
8261-S-FLY	Fluorescent Yellow	106.68 cm (S)
8261-S-FOR	Fluorescent Orange	106.68 cm (S)
8261-M-FLY	Fluorescent Yellow	116.84 cm (M)
8261-M-FOR	Fluorescent Orange	116.84 cm (M)
8261-L-FLY	Fluorescent Yellow	127 cm (L)
8261-L-FOR	Fluorescent Orange	127 cm (L)
8261-XL-FLY	Fluorescent Yellow	137.16 cm (XL)
8261-XL-FOR	Fluorescent Orange	137.16 cm (XL)
8261-XXL-FLY	Fluorescent Yellow	147.32 cm (XXL)
8261-XXL-FOR	Fluorescent Orange	147.32 cm (XXL)
8261-XXXL-FLY	Fluorescent Yellow	157.48 cm (XXXL)
8261-XXXL-FOR	Fluorescent Orange	157.48 cm (XXXL)
8261-J-FLY	Fluorescent Yellow	167.64 cm (J)
8261-J-FOR	Fluorescent Orange	167.64 cm (J)

product shipped from the US warehouse only

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 access mic clip
- Has 2.5 inch (63.5 mm) wide reflective tape with 2-inch (50.8 mm) 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. 8292

PART NO.	COLOR	SIZE
8292-46-FLY	Fluorescent Yellow	46 (M)
8292-46-FOR	Fluorescent Orange	46 (M)
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 (XXL)
8292-58-FOR	Fluorescent Orange	58 (XXL)
8292-62-FLY	Fluorescent Yellow	62 (XXXL)
8292-62-FOR	Fluorescent Orange	62 (XXXL)

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. 8290

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)

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

APPLICATIONS

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

Part No. 8068

PART NO.	COLOR	SIZE
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)

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)

product shipped from the US warehouse only

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. 8067

PART NO.	COLOR	SIZE
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)

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

APPLICATIONS

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

Part No. 8069

PART NO.	COLOR	SIZE
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)

Hydration Backpack

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 (101.6 mm) wide fabric with 2-inch (50.8 mm) wide reflective tape (same as safety vest)
- 1-inch (25.4 mm) wide polypropylene webbing allows shoulder straps to adjust
- 1000D Cordura Nylon is bonded to the ¼-inch (6.35 mm) back padding
- Neoprene sleeve surrounds the hydration tube
- Bladder size 2.5 liters (84.5 fl oz)
- When bladder is completely full the hydration pack is 5 inches (127 mm) 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)

APPLICATIONS

- Workplace Safety
- Construction environment

Part No. 8125-60-FOR

8125-60-FOR — Hydration Backpack

Utility Bags and Miscellaneous Cases

Designed to keep your field equipment and supplies safe and secure

- Features four exterior deep-zippered 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 (76.2 x 35.6 x 50.8 cm)
- 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)

8106-20-ORG — Surveyor's Gear Bag with Rhinotek Bottom

- Fits most large controllers like the Ranger™ series, Allegro, TSC2™
- 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)
- Padded with 0.25 in (6.35 mm) 1000D Cordura material with khaki trim
- 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

- 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 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

- 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

- The MiFi Hotspot Case secures any MiFi unit to any GNSS survey pole or prism pole
- 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)
- Constructed of heavy-duty Cordura®
- Comes in fluorescent yellow
- Weighs 0.35 lb (0.16 kg)

8143-40-FLY — MiFi Hotspot Case

product shipped from the US warehouse only

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 (22.9 x 5.08 x 27.9 cm) 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

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)
- 7"x 50"

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

- Designed to protect the rods during transportation or storage
- 5.5 ID x 41 inches long with a 10" flap
- Weighs 0.45 lb (0.20 kg)

8162-00-ORG — GPS Rover Rod Carrying Case

- This bag holds a 2 meter Snap-Lock pole and bipod or tripod (connected)
- Constructed of tough Cordura material and Rhinotek ends
- Measures 56 inches long (1.42 m)
- Weighs 1.50 lb (0.68 kg)

8151-02-FLY — Heavy-Duty Snap-Lock 2-Meter Pole System 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)
- 8150-00 weighs 0.26 lb (0.57 kg)
- 8150-20 weighs 1.85 lb (0.84 kg)

8150-20-ORG — Heavy-Duty Tripod Bag with Rhinotek Bottom

- Fits all tripods, 47-inches (1.2-m) or less collapsed
- Full-length aluminum hinge with four fold-down latches
- Two carry handles: one on the side, one on the end
- Internal #2 EPE foam tripod cutout, two securing straps
- Hard 0.125 ABS bracket pad to prevent tripod points from penetrating the foam
- Area for business card and shipping labels
- Replaceable wheels
- Hard durable black ABS plastic
- Size: 49.125 x 12.12 x 11.27 inches (125 x 30.78 x 28.63 cm)
- Weighs 24.75 lb (11.25 kg)

8160-31 — Hard Tripod Case with Wheels

- Heavy-duty bag for carrying 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

Rover Rods 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

- 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 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

- 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

- 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

Assorted Rod Carrying Cases

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

- 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 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

- 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)
- Weighs 0.30 lb (0.14 kg)

91410 — CR-8 ft/2.4m Carrying Case

BACK BY POPULAR DEMAND!

This DE Rod Bag, previously discontinued, has been brought back through customer requests

- Extremely durable Cordura(R) bag with reinforced bottom
- Pocket for a sensor bracket
- Shoulder strap included
- 4 x 71 inch (10.16 x 180.34 cm)
- Weighs 0.5 lb (0.23 kg)

8166-01-ORG — Direct Elevation Rod Bag

- CMR Measuring Ruler Cases
- Made from the highest-quality 1000-denier nylon.
- For use with our rugged fiberglass CMR Series Measuring Rulers 90180, 90181 and 90182 on page 49, and for gopher pole 90520 on page 56.

PART NO.	SIZE
91415	*3.5 x 65 in (8.89 x 165.1 cm)*
91416	*4.5 x 68 in (11.43 x 172.72 cm)*
91417	*4.5 x 76 in (11.43 x 193.04 cm)*

product shipped from the US warehouse only

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 fits 36 or 48-inch lath 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)

8103-20-ORG — 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
- Both weighs approximately. 1.00 lb (0.45 kg)

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

Front and Top Loading Total Station Cases

Heavy-duty cases for your Total Station

FEATURES & BENEFITS

- Features a Rhinotek™ bottom and durable backpack straps

*Measured between the pads

- Measures: 14 x 9 x 7 in (35.6 x 22.9 x 17.8 cm)*

APPLICATIONS

- Keeps your total station safe and secure during transport

Part No.
8120-00-ORG

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)*
8123-00-ORG	*Top Loading*	*Aluminum Frame*	*7.50 lb (3.40 kg)*

product can also be shipped from our European warehouse

Total Station, GIS and GNSS Backpacks

Designed to keep your Total Station, GIS and GNSS equipment safe and secure

- 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*
- 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)

*Measured between the pads

8125-50-ORG — Small GIS Backpack

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

8120-30-ORG — 400 mm Total Station Backpack (shown)
8120-40-ORG — 500 mm Total Station Backpack

- Features a double-zipped, top-loading station compartment lined with rigid foam padding, two side pockets for cables, and one front battery pocket
- Comfortable padded belt with lumbar back support system, shoulder straps with all-point adjustment features, and a rubberized carrying handle
- The free-standing aluminum frame keeps the pack upright even when fully loaded
- Has a top rain flap with closure and rain flaps on the side pockets
- 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)

*Measured between the pads

8134-00-ORG — Robotics Backpack

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

8125-11-ORG — Large GIS Backpack with Cam-Lock Antenna Pole

Prism and Tribrach 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

product shipped from the US warehouse only

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 (25.4 mm) 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

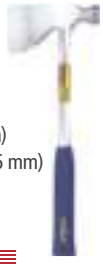
23MAGHUB4 — 3/16 x 4 inch (Approx. 885)
23MAGHUB6 — 1/4 x 6 inch (Approx. 362)
23MAGHUB8 — 1/4 x 8 inch (Approx. 272)

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 Nylon Sheath for Pointed Tip and Chisel Edge Picks
- Weighs 0.20 lb (0.09 kg)

9070-04 — Nylon 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
9035-01	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Orange Glo
9035-02	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Pink Glo
9035-03	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Yellow
9035-04	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	White
9035-05	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Blue
9035-06	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Red
9035-07	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Blue Glo
9035-08	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Green
9035-09	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Green Glo
9035-10	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Lime Glo
9035-11	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Orange
9035-12	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Red Glo
9035-13	4 x 5 inch (102 x 127 mm)	21 inch (533 mm)	Yellow Glo
9036-01	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Orange Glo
9036-02	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Pink Glo
9036-03	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Yellow
9036-04	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	White
9036-05	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Blue
9036-06	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Red
9036-07	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Blue Glo
9036-08	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Green
9036-09	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Green Glo
9036-10	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Lime Glo
9036-11	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Orange
9036-12	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Red Glo
9036-13	4 x 5 inch (102 x 127 mm)	30 inch (762 m)	Yellow Glo
9037-01	4 x 5 inch (102 x 127 mm)	36 inch (914 mm)	Orange Glo
9037-02	4 x 5 inch (102 x 127 mm)	36 inch (914 mm)	Pink Glo
9037-03	4 x 5 inch (102 x 127 mm)	36 inch (914 mm)	Yellow
9037-05	4 x 5 inch (102 x 127 mm)	36 inch (914 mm)	Blue
9037-06	4 x 5 inch (102 x 127 mm)	36 inch (914 mm)	Red

- 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

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

PART NO.	SIZE	WEIGHS
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)

- Presco long-lasting outdoor flagging
- Roll Width: 1 inch (25.4 mm)
- 5 lb boxes of 12 rolls

PART NO.	COLOR	LENGTH
9040-01	Orange Glo	150 ft (45.7 m)
9040-02	Pink Glo	150 ft (45.7 m)
9040-03	Yellow	300 ft (91.4 m)
9040-04	White	300 ft (91.4 m)
9040-05	Blue	300 ft (91.4 m)
9040-06	Red	300 ft (91.4 m)
9040-07	Blue Glo	150 ft (45.7 m)
9040-08	Green	300 ft (91.4 m)
9040-09	Green Glo	150 ft (45.7 m)
9040-10	Lime Glo	150 ft (45.7 m)
9040-11	Orange	300 ft (91.4 m)
9040-12	Red Glo	150 ft (45.7 m)
9040-13	Yellow Glo	150 ft (45.7 m)
9040-14	Black	300 ft (91.4 m)
9040-15	Pink	300 ft (91.4 m)
9040-16	Purple	300 ft (91.4 m)

- 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)

8025-00-ORG

9040-20

9040-20 — Flagging Tape Dispenser
8025-00-ORG — Padded Flagging 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	WEIGHS
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)

- 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

product shipped from the US warehouse only

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 for knife and scissor sharpening
- 9500-02 for Axes or other edged tool sharpening
- 9500-01 weighs 0.05 lb (0.02 kg)
- 9500-02 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)

8010-10-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

- 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

25456855 — Stake Tacks 1 LB
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

- The Gammon Reel® is almost a given on any job site
- The 24 yard (22 m) 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

- Each solid brass bob features a hardened steel point and a storage area for a spare point

6000-012	12 oz	340 g
6000-014	14 oz	397 g
6000-016	16 oz	454 g
6000-018	18 oz	510 g
6000-024	24 oz	680 g
6000-032	32 oz	907 g

- 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 bag included
- 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 (49.3 mm) 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 (57.2 mm) OD
- Featuring punched centers with crimped edges
- Weighs 2.60 lb (1.18 kg)

2181-00 — Flat Shiners, 250 count

Brass Survey Marker

Permanent monument markers for survey control points.

- Both at and dome top
- Pressure cast from solid brass
- Can be hand stamped in the field
- 1 3/8" (34.925 mm) - 2 ½" (63.5 mm) diameter head
- Features a 2" (50.8 mm) ribbed cross section shank for staying power and prevents marker from turning or loosening
- 1/8" (3.5 mm) head thickness thick top with a matte finish
- Install in fresh concrete or insert into drilled hole and secure with epoxy

- ALSO AVAILABLE: 2183-10 Metal Stamp Kit: available to hand stamp your markers with necessary RCE (Registered Civil Engineer) #; LS (Land Surveyor) #; or other data information. ¼ inch, customizable

PART NO.	DIAMETER	TOP	WEIGHT(g)	WEIGHT(oz)
2183-01	1 375 in	Flat	49.3 g	1.74 oz
2183-02	2 in	Flat	83.0 g	2.93 oz
2183-03	2.5 in	Flat	111.5 g	3.93 oz
2183-05	2 in	Dome	110.2 g	3.89 oz
2183-06	2.5 in	Dome	157.8 g	5.57 oz

Rite in the Rain

- 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 4-¾ x 7-½ 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

300F — Transit Pattern Bound Books
310F — Level Pattern Bound Books

- 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)

200 — Field Ring Binder
302 — Transit Pattern Loose Leaf Sheets (100 Sheets)
312 — Level Pattern Loose Leaf Sheets (100 Sheet)

- Overall Size: 4.625 x 7 inches (11.75 x 17.78 cm)
- Cover Material: field flex
- Binding: side stapled
- Number of Pages: 48 (numbered)
- Number of Sheets: 24
- Sold in Packs of 3
- Weighs 0.56 lb (0.25 kg) (3-pack)

351FX — Field pattern Side-stapled Notebook for Tough Conditions
311FX — Level pattern Side-stapled Notebook for Tough Conditions
301FX — Transit pattern Side-stapled Notebook for Tough Conditions

- Page Size: 4.625 x 7-inch (11.75 x 17.78 cm)
- Fits Yellow Binder (Part No. 200)
- Pattern: Field
- Sold in Packs of 100 sheets
- Weighs 0.55 lb (0.25 kg)

352 — Field pattern Standard Loose Leaf Sheets

- Overall Size: 4.75 x 7.5 inches (12.07 x 19.05 cm)
- Super Tough Cover Material: fabrikoid
- Binding: sewn bound
- Number of Pages: 160
- Weighs 0.65 lb (0.29 kg)

350F — Field pattern sewn-bound book surviving any weather conditions

- Overall Size: 4.625 x 7 inches (11.75 x 17.78 cm)
- Soft Cover Material: Polydura (recycled material)
- Binding: side-spiral
- Number of Pages: 64 (32 sheets)
- Weighs 0.20 lb (0.09 kg)

303 — Transit pattern Recyclable Side-spiral Notebook
313 — Level pattern Recyclable Side-spiral Notebook
353 — Field pattern Recyclable Side-spiral Notebook

- Overall Size: 5.25 inches (13.34 cm)
- Writes on wet paper and upside-down
- Works from -30F to 250F (pressurized cartridge)
- Plastic Barrel: chrome/black
- Ink Color: Black
- Refills: 37R, see below (fits any All-Weather pen)
- Weighs 0.04 lb (0.02 kg)

37 — All-Weather Clicker Pen with Black Ink

- Overall Size: 5.75 inches (14.61 cm)
- Included Refills: 7 (1.1 mm/HB No. 2) leads and 2 extra erasers
- Fits comfortably in the hand
- Tip expands so lead will not break, wobble, twist or fall out in the field
- Keeps you writing in any conditions
- Strong Resin Barrel
- Additional refills available, see below
- Weighs 0.05 lb (0.02 kg)

YE99 — All-Weather Yellow Mechanical Pencil

- 135 Overall Size: 3 x 5 inches (7.62 x 12.7 cm)
- 146 Overall Size: 4 x 6 inches (10.16 x 15.24 cm)
- Soft Cover Material: Polydura (recycled material)
- Binding: Top spiral
- Number of Pages: 100 (50 sheets)
- Pattern: Universal
- Part No. 135 weighs 0.13 lb (0.06 kg)
- Part No. 146 weighs 0.20 lb (0.09 kg)

135

146

135 — Universal pattern Pocket Top-Spiral Book Perfect for any Situation
146 — Universal pattern Pocket Top-Spiral Book Perfect for any Situation

- Overall Size: 3.5 inches (8.89 cm)
- Fits in any All-Weather Pen
- Ink Color: Black
- Weighs 0.02 lb (0.01 kg)

37R — All-Weather Black Ink Pen Refill

- Fits any All Weather Mechanical Pencil
- Sold in Packs of 3
- Weighs 0.02 lb (0.01 kg)

99ER — Handy Eraser Refill

- Fits any All-Weather Mechanical Pencil
- Package includes: 12 (1.1 mm) HB (No.2) Leads
- Weighs 0.01 lb (0.005 kg)

99BR — Black Lead Refills

product shipped from the US warehouse only

PART NUMBER	PAGE
37	72
135	72
146	72
200	72
302	72
303	72
312	72
313	72
352	72
353	72
24750	69
90004	46
90009	46
90014	46
90022	46
90024	46
90026	46
90180	49
90181	49
90182	49
90520	56
90550	39
90551	39
90553	39
90555	38
90558	40
90560	39
90582	39
91014	43
91100	45
91133	43
91162	45
91163	45
91255	43
91258	43
91259	43
91275	43
91402	66
91410	66
91411	66
91415	56
91415	66
91416	66
91417	66
91535	43
91601	23
91605	23
91641	23
92001	46
92002	46
92021	46
92022	46
92026	46
92027	46
92031	46
92032	46
92041	46
92042	46
92043	46
92046	46
92047	46
92048	46
92090	44
98010	45
98011	45
98012	45
98013	45
98014	45
98015	45
98016	45
98017	45
98020	45
98021	45
98023	45
98024	45
98025	45
98026	45
99000	50
99001	50
99002	50
99003	50
99004	50
99023	50
99043	50
99051	50
99052	50
99053	50
99060	51
99061	51
99062	51
99063	51
99064	51
99065	51
99066	51
99067	51
99068	51
99069	51
99070	51
99071	50
99072	50
99079	50
99080	50
99081	50
241000	69
241250	69
241500	69
242000	69
242500	69
25456855	71
1 510 001	33
1 510 011	33
2001-00	34
2002-00	34
2010-00	34
2020-00	34
2021-00	34
2070-00	34
2070-02	15
2071-00	34
2072-050	6
2072-30	6
2072-31	6
2072-32	6
2072-33	6
2072-60	57
2080-00	23
2080-SS	23
2090-00	23
2090-01	16
2090-02	16
2090-04	16
2090-06	16
2090-07	16
2090-10	19
2090-11	19
2090-12	19
2090-13	19
2090-14	19
2090-15	19
2090-17	19
2090-19	19
2090-21	19
2090-26	19
2120-00	38
2130-00	38
2131-00	23
2131-01	23
2132-01	38
2133-03	10
2133-05	10
2133-06	10
2152-04-BLK	34
2152-05-BLK	36
2152-06-BLK	36
2152-07-BLK	36
2153-02-BLK	34
2153-04-BLK	34
2153-05-BLK	36
2153-06-BLK	36
2153-07-BLK	36
2153-10-BLK	36
2159-01-BLK	37
2159-03-BLK	37
2159-04-BLK	37
2159-050	37
2159-06	37
2159-07	37
2180-00	71
2180-01	71
2181-00	71
2181-10	71
2182-00	71
2182-10	71
2183-00	71
2183-01	71
2183-02	71
2183-03	71
2183-05	71
2183-06	71
23MAGHUB4	69
23MAGHUB6	69
23MAGHUB8	69
253MAGSPIKE	69
254MAGSPIKE	69
256MAGSPIKE	69
258MAGSPIKE	69
3003-06	48
3003-07	48
3003-08	48
3003-10	48
3003-14	48
3006-06	48
3006-07	48
3006-08	48
3006-10	48
3006-11	48
3006-17	48
3006-18	48
300F	72
301FX	72
310F	72
311FX	72
350F	72
351FX	72
37R	72
4 520 120	33
4 520 121-5/8"	33
4 520 122	33
4 520 800	33
4040-05	51
4040-30	51
4040-60	51
4050-01	51
4200-00	51
4300-00	51
4769-00	47
4769-01	47
4769-02	47
4769-03	47
4769-04	47
4769-06	47
4769-14	47
4769-15	47
4770-00	48
4770-01	48
4811-24	52
4811-24P1	52
4811-24P2	52
4811-24P3	52
4811-24P4	52
4811-24P5	52
4811-24P6	52
4811-24P7	52
4811-24P8	52
4811-32	52
4811-32P1	52
4811-32P2	52
4811-32P3	52
4811-32P6	52
4852-14	53
4852-15	57
4852-16	57
4852-17	57
4900-00	23
5 113 100	33
5 114 150	33
5 114 200	33
5 114 270	33
5 114 350	33
5 115 150	33
5 115 200	33
5 115 270	33
5 115 350	33
5 263 000	33
5 263 001	33
5 263 002	33
5 312 001	33
5001-10	13
5001-12	13
5001-20	13
5010-00-FLY	17
5010-00-RED	17
5010-01	17
5070-051-40	13
5079-066	19
5081-052-40	13
5110-00-FLY	24
5110-01-FLY	24
5111-00	11
5111-00-SS	11
5111-04	11
5113-012	11
5114-01	11
5114-02	11
5114-050	11
5114-051	11
5114-10	11
5114-20	12
5114-21	12
5114-40-01	12
5114-40-02	12
5119-00-FLY	6
5119-00-FOR	6
5119-00-YEL	6
5119-10-FLY	6
5119-10-YEL	6
5120-00-FOR-GT	17
5120-01-FOR-GM	17
5120-02-FOR-GT	17
5120-024-FOR	17
5120-025-FOR	17
5120-03-FOR-GM	17
5125-00-YEL	9
5125-01-YEL	9
5125-050	11
5125-056	11
5125-057-FLY	11
5125-058	24
5125-06-YEL	9
5125-20-FLY	10
5125-20-YEL	10
5125-22-FLY	10
5126-10	11
5128-00	9
5128-052	11
5128-08	9
5128-20	10
5128-22	10
5128-24	10
5129-50	9
5129-51	9
5129-52	16
5129-53	16
5129-54	17
5129-70	9
5129-71	9
5129-72	16
5129-73	16
5130-00-FLY	24
5130-01-FLY	24
5130-10	24
5131-00-YEL	24
5131-01-FLY	24
5132-00-ACL	24
5139-02-FLY	10
5140-02-WOR	24
5143-00-FLY	24
5143-02	24
5143-03	24
5144-00-FLY	24
5144-02	24
5145-00-FLY	24
5145-02	24
5145-03	24
5145-04	24
5150-02-WOR	24
5160-02-WOR	24
5180-00	23
5181-00	23
5182-001	24
5187-00	11
5187-00-SS	11
5190-00	23
5191-00	23
5192-00	23
5192-02	23
5193-04	23
5194-00	23
5194-003	23
5194-01	23
5194-03	23
5194-04	23
5194-05	23
5194-10	23
5195-01	23
5196-02	38
5196-07	38
5196-13	38
5196-13-005	38
5198-052	8
5198-054	8
5198-055	8
5198-056	8
5198-059	8
5198-073	8
5198-081	8
5198-086	8
5198-152	8
5198-153	8
5198-157	22
5198-163	22
5198-50	12
5198-51	12
5199-050	9
5199-051	9
5199-052	9
5199-054	9
5200-050	8
5200-058	8
5200-059	8
5200-062	8
5200-064	8
5200-065	8
5200-069	8
5200-070	8
5200-072	8
5200-073	8
5200-074	8
5200-075	8
5200-076	8
5200-077	8
5200-150	8
5200-151	8
5200-152	8
5200-154	8
5200-155	8
5200-16-050	7
5200-160	8
5200-164	8
5200-165	8
5200-17-050	7
5200-201	9
5200-29-050	7
5200-29-051	7
5200-30	6
5200-30-051	7
5200-31	6
5200-31-051	7
5200-32	7
5200-33	7
5200-35	6
5200-35-051	7
5200-37-051	7
5200-38-051	7
5214-00	25
5214-01	24
5216-00	30
5217-04-YEL	25
5217-05-YEL	25
5217-15-ABK	16
5217-20-FLY	43
5217-21-FOR	43
5217-30	25
5217-40-FLY	25
5217-50-FOR	25
5218-02-FLY	25
5218-15-ABK	25
5218-40-YEL	25
5219-03	25
5219-05	25
5220-13-BLK	41
5220-13-ORG	41
5300-11	10
5300-12	10
5301-21-BLK	42
5301-21-ORG	42
5301-24-BLK	42
5301-25-BLK	42
5301-31-BLK	42
5301-31-ORG	42
5302-13-BLK	41
5302-13-ORG	41
5311-21-ORG	42
5321-16-BLK	40
5321-17-ORG	40
5321-18-BLK	40
5401-21-BLK	42
5402-13-BLK	41
5402-13-ORG	41
5420-13-BLK	41
5420-13-ORG	41
5500-064-40	13
5500-11	20
5500-21	20
5500-23	17
5500-30	20
5501-11	18
5503-30	18
5507-10	19
5507-11	19
5507-13	19
5507-15	19
5507-16	19
5507-17	19
5507-20	19
5507-22	19
5507-30	19
5512-11	20
5520-11	20
5520-21	20
5520-30	20
5521-11	18
5523-30	18
5527-10	19
5527-11	19
5527-13	19
5527-15	19
5527-16	19
5527-17	19
5527-18-13	20
5527-18-15	20
5527-20	19
5527-22	19
5527-30	19
5530-10	22
5530-20	22
5530-30	22
5531-10	22
5531-20	22
5531-30	22
5540-10	21
5540-20	21
5540-30	21
5541-10	21
5541-20	21
5541-30	21
5561-20	10
5600-10	21
5610-00	38
5610-11	38
5610-12	38
5610-15	38
5631-10	22
5631-20	22
5631-30	22
5700-10	20
5700-20	20
5700-21	17
5711-10	18
5720-10	20
5721-10	18
5801-052-40	13
5801-10	21
5802-10	18
5802-20	18
5813-10	21
5813-20	21
5821-10	21
5821-20	21
5901-00-FLY	24
5902-00-FLY	24
5910-01-ARD	31

product shipped from the US warehouse only

PART NUMBER	PAGE
5910-02-ARD	31
5910-05	31
5910-06	31
5910-10	31
5910-24	31
6000-001	71
6000-002	71
6000-012	71
6000-014	71
6000-016	71
6000-018	71
6000-024	71
6000-032	71
6000-120	71
6000-160	71
6000-240	71
6001-06	71
6001-12	71
6001-FR	71
6001-FY	71
6001-OR	71
6020-01	32
6020-02	32
6200-10-FOR	30
6200-11-FOR	30
6341-00	28
6341-11	28
6400-00	29
6400-10	29
6400-12-FOR	29
6401-00-YEL	16
6401-03-YEL	16
6402-02-FLB	27
6402-02-FOB	27
6402-02-YLB	27
6402-03-FLB	27
6402-03-FOB	27
6402-03-YLB	27
6402-05-FLB	28
6402-05-FOB	28
6402-05-YLB	28
6402-06-FLB	28
6402-06-FOB	28
6402-06-YLB	28
6402-10-FLB	28
6402-10-FOB	28
6402-10-YLB	28
6402-20-FLB	27
6402-20-FOB	27
6402-20-YLB	27
6405-01-FLY	30
6405-01-FOR	30
6405-10-FLY	30
6405-10-FOR	30
6405-11-FLY	30
6405-11-FOR	30
6405-12-FLY	30
6405-12-FOR	30
6405-13-FOR	30
6406-00	30
6410-00	29
6410-018	29
6411-00	32
6411-02-BLK	32
6411-03-BLK	32
6411-04-BLK	32
6416-00	32
6422-02-FLB	27
6422-02-FOB	27
6422-02-YLB	27
6422-20-FLB	27
6422-20-FOB	27
6422-20-YLB	27
6440-00-FOR	30
6450-00-BLK	30
6455-00	17
6455-00	29
6600-01	32
6600-02	32
6600-03	32
6600-04	32
6600-05	32
6600-10	31
6601-01	32
6601-02	32
6601-03	32
6601-04	32

PART NUMBER	PAGE
6602-01	32
6602-02	32
6602-03	32
6603-00	34
6603-00-005-TMB	34
6603-00-050	34
6603-00-051	34
6603-01	34
6603-01-051	34
6603-03	29
6603-05	32
6603-06	32
6703-001	14
6703-002	15
6703-003	15
6703-005	15
6703-006	15
6703-007	15
6703-008	15
6703-011	14
6703-012	15
6703-013	15
6703-014	15
6703-015	14
6703-10	15
6703-11	15
6703-20	15
6704-001	14
6704-002	14
6704-003	14
6704-004	14
6704-10	14
70014-6	43
70014-7	43
7301-00	43
7301-30	44
7301-40	44
7301-50	44
7304-01	43
7310-13	43
7321-00	43
7321-050	43
7321-30	44
7321-40	44
7321-50	44
7341-31	44
7341-40	44
7341-41	44
7341-45	44
7341-51	44
7341-52	44
7341-55	44
7341-56	44
8010-10-BLU	71
8025-00-ORG	70
8030-00-CABLU	51
8046-10-BLU	13
8046-20-ORG	65
8046-30-ORG	65
8063-38-FOR	62
8063-42-FLY	62
8063-42-FOR	62
8063-46-FLY	62
8063-46-FOR	62
8063-50-FLY	62
8063-50-FOR	62
8063-54-FLY	62
8063-54-FOR	62
8063-58-FLY	62
8063-58-FOR	62
8063-62-FLY	62
8063-62-FOR	62
8063-66-FLY	62
8063-66-FOR	62
8067-38-FOR	63
8067-42-FLY	63
8067-42-FOR	63
8067-46-FLY	63
8067-46-FOR	63
8067-50-FLY	63
8067-50-FOR	63
8067-54-FLY	63
8067-54-FOR	63
8067-58-FLY	63
8067-58-FOR	63
8067-62-FLY	63
8067-62-FOR	63

PART NUMBER	PAGE
8067-66-FLY	63
8067-66-FOR	63
8068-42-FLY	62
8068-42-FOR	62
8068-46-FLY	62
8068-46-FOR	62
8068-50-FLY	62
8068-50-FOR	62
8068-54-FLY	62
8068-54-FOR	62
8068-58-FLY	62
8068-58-FOR	62
8068-62-FLY	62
8068-62-FOR	62
8068-66-FLY	62
8068-66-FOR	62
8069-38-FOR	63
8069-42-FLY	63
8069-42-FOR	63
8069-46-FLY	63
8069-46-FOR	63
8069-50-FLY	63
8069-50-FOR	63
8069-54-FLY	63
8069-54-FOR	63
8069-58-FLY	63
8069-58-FOR	63
8069-62-FLY	63
8069-62-FOR	63
8069-66-FLY	63
8069-66-FOR	63
8070-00-ORG	68
8071-00-ORG	68
8080-00-ORG	68
8081-00-ORG	68
8082-00-ORG	68
8082-01-ORG	15
8090-20-ORG	67
8091-20-ORG	67
8092-20-ORG	67
8093-00-ORG	67
8094-00-ORG	67
8095-20-ORG	64
8096-20-ORG	67
8098-00-ORG	67
8098-10-ORG	67
8100-00-ORG	67
8100-20-ORG	67
8101-00-ORG	67
8101-20-ORG	67
8102-00-ORG	67
8102-01-ORG	67
8103-20-ORG	67
8104-20-ORG	67
8106-10-ORG	64
8106-20-ORG	64
8120-00-ORG	67
8120-30-ORG	68
8120-40-ORG	68
8121-00-ORG	67
8123-00-ORG	67
8125-11-ORG	68
8125-50-ORG	68
8125-60-FOR	64
8130-00-ORG	68
8134-00-ORG	68
8142-01-ORG	64
8143-21-YEL	64
8143-22-FLY	64
8143-40-FLY	64
8150-20-ORG	65
8151-02-FLY	65
8153-10-ORG	65
8154-00-ORG	65
8154-10-ORG	65
8154-11-ORG	65
8154-12-ORG	65
8157-01-ORG	66
8160-00-ORG	66
8160-20-BLK	66
8160-31	65
8162-00-ORG	65
8162-20-BLK	66
8166-01-ORG	66
8170-00-ORG	66
8180-20-ORG	66
8260-46-FLY	60

PART NUMBER	PAGE
8260-46-FOR	60
8260-50-FLY	60
8260-50-FOR	60
8260-54-FLY	60
8260-54-FOR	60
8260-58-FLY	60
8260-58-FOR	60
8260-62-FLY	60
8260-62-FOR	60
8260-66-FLY	60
8260-66-FOR	60
8261-XS-FLY	60
8261-XS-FOR	60
8261-S-FLY	60
8261-S-FOR	60
8261-M-FLY	60
8261-M-FOR	60
8261-L-FLY	60
8261-L-FOR	60
8261-XL-FLY	60
8261-XL-FOR	60
8261-XXL-FLY	60
8261-XXL-FOR	60
8261-XXXL-FLY	60
8261-XXXL-FOR	60
8261-J-FLY	60
8261-J-FOR	60
8265-42-FLY	59
8265-42-FOR	59
8265-46-FLY	59
8265-46-FOR	59
8265-50-FLY	59
8265-50-FOR	59
8265-54-FLY	59
8265-54-FOR	59
8265-58-FLY	59
8265-58-FOR	59
8265-62-FLY	59
8265-62-FOR	59
8265-66-FLY	59
8265-66-FOR	59
8290-50-FLY	61
8290-50-FOR	61
8290-54-FLY	61
8290-54-FOR	61
8290-58-FLY	61
8290-58-FOR	61
8290-62-FLY	61
8290-62-FOR	61
8292-46-FLY	61
8292-46-FOR	61
8292-50-FLY	61
8292-50-FOR	61
8292-54-FLY	61
8292-54-FOR	61
8292-58-FLY	61
8292-58-FOR	61
8292-62-FLY	61
8292-62-FOR	61
8365-42-FLY	58
8365-42-FOR	58
8365-46-FLY	58
8365-46-FOR	58
8365-50-FLY	58
8365-50-FOR	58
8365-54-FLY	58
8365-54-FOR	58
8365-58-FLY	58
8365-58-FOR	58
8365-62-FLY	58
8365-62-FOR	58
8365-66-FLY	58
8365-66-FOR	58
8368-42-FLY	58
8368-42-FOR	58
8368-46-FLY	58
8368-46-FOR	58
8368-50-FLY	58
8368-50-FOR	58
8368-54-FLY	58
8368-54-FOR	58
8368-58-FLY	58
8368-58-FOR	58
8368-62-FLY	58
8368-62-FOR	58
8368-66-FLY	58
8368-66-FOR	58

PART NUMBER	PAGE
8390-50-FLY	59
8390-50-FOR	59
8390-54-FLY	59
8390-54-FOR	59
8390-58-FLY	59
8390-58-FOR	59
8390-62-FLY	59
8390-62-FOR	59
9000-01	71
9000-02	71
9006-00	48
9006-01	48
9035-01	70
9035-02	70
9035-03	70
9035-04	70
9035-05	70
9035-06	70
9035-07	70
9035-08	70
9035-09	70
9035-10	70
9035-11	70
9035-12	70
9035-13	70
9036-01	70
9036-02	70
9036-03	70
9036-04	70
9036-05	70
9036-06	70
9036-07	70
9036-08	70
9036-09	70
9036-10	70
9036-11	70
9036-12	70
9036-13	70
9037-01	70
9037-02	70
9037-03	70
9037-05	70
9037-06	70
9040-01	70
9040-02	70
9040-03	70
9040-04	70
9040-05	70
9040-06	70
9040-07	70
9040-08	70
9040-09	70
9040-10	70
9040-11	70
9040-12	70
9040-13	70
9040-14	70
9040-15	70
9040-16	70
9040-20	70
9045-01	70
9045-02	70
9045-03	70
9045-04	70
9050-01	70
9050-02	70
9050-03	70
9050-04	70
9050-05	70
9050-06	70
9050-08	70
90550-S	41
90557-050	38
90557-050	40
90558-050	40
90558-052	40
9060-06	70
9060-14	70
9061-02	70
9061-03	70
9061-04	70
9061-05	70
9061-06	70
9061-14	70
9062-00	70
9063-06	70
9063-14	70

PART NUMBER	PAGE
9064-01	70
9064-02	70
9068-02	71
9068-03	71
9070-00	69
9070-01	69
9070-02	69
9070-03	69
9070-04	69
9070-05	69
9070-06	69
9070-07	69
9070-08	69
9500-01	71
9500-02	71
9500-13	71
9500-17	71
99BR	72
99ER	72
A452	35
A455	35
A456	35
A458	35
AL24A	52
AL24A-1	52
AL24A-2	52
AL24A-3	52
AL24M	52
AL24M-1	52
AL24M-2	52
AL24M-3	52
AL32A	52
ATI010536-02S	56
ATI010972-15	56
ATI010972-20	56
ATI010972-25	56
ATI010972-35	56
ATI010972-50	56
ATI010976-02	56
ATI010983	56
ATI010987-25	56
ATI991320-02	55
ATI991320-09	55
ATI991326-02	55
ATI991326-09	55
ATI991340-02	55
ATI991340-09	55
ATI991346-02	55
ATI991346-09	55
ATI991360-02	56
ATI991364-02	56
ATI991370-02	55
ATI991370-09	55
ATI991376-02	55
ATI991376-09	55
ATI991604	56
ATI993600-02	54
ATI993600-09	54
ATI993640-02	54
ATI993640-09	54
ATI994000-02	54
ATI994000-09	54
D11145	9
D11145	23
DE-50	53
DET-2	53
FPT144-BLK	35
FPT146-BLK	35
FPT247-BLK	35
ML-1	47
ML-1-050	47
ML-1M	47
ML-3SY	47
QM55	49
QM75	49
QM95	49
RT481W-BLK	35
RT481WON-BLK	35
RT482W-BLK	35
RT482WON-BLK	35
RT484W-BLK	35
RT484WON-BLK	35
YE99	72

PRODUCT CATEGORY/NUMBER PAGE

SECTION ONE

GNSS Accessories
- **Standard and Heavy-Duty GNSS/MC Tripods** 6
  - 5119-00-FLY
  - 5119-00-FOR
  - 5119-00-YEL
  - 5119-10-FLY
  - 5119-10-YEL
- **Adjustable-Tilt Stainless Steel Adapters** 6
  - 2072-050
  - 2072-30
  - 2072-31
  - 2072-32
  - 2072-33
- **Ball and Socket Tablet Combos** 6
  - 5200-30
  - 5200-31
  - 5200-35
- **Ball and Socket Cradles** 7
  - 5200-16-050
  - 5200-17-050
  - 5200-29-050
- **Quick-Release Tablet Combos** 7
  - 5200-32
  - 5200-33
- **Over the Shoulder Tablet Harnesses** 7
  - 5200-29-051
  - 5200-30-051
  - 5200-31-051
  - 5200-35-051
  - 5200-37-051
  - 5200-38-051
- **Pole Clamps and Cradles** 8
  - Open-Style Clamps
  - 5198-052
  - 5198-054
  - 5198-055
  - 5198-056
  - 5198-059
  - 5198-152
  - 5198-153
  - Ball-and-Socket Clamps
  - 5200-160
  - 5200-164
  - 5200-165
  - Claw Quick Release Clamps
  - 5200-150
  - 5200-151
  - 5200-152
  - 5200-154
  - 5200-155
  - Quick Release Cradles
  - 5198-073
  - 5198-081
  - 5198-086
- **Quick Release Claw Cradles** 8
  - 5200-050
  - 5200-058
  - 5200-059
  - 5200-062
  - 5200-064
  - 5200-065
  - 5200-069
  - 5200-070
  - 5200-072
  - 5200-073
  - 5200-074
  - 5200-075
  - 5200-076
  - 5200-077
- **Ball-and-Socket and Claw Accessories** 9
  - 5199-050
  - 5199-051
  - 5199-052
  - 5199-054
  - 5200-201
  - D11145
- **Two-Piece GNSS Rover Rods** 9
  - 5125-00-YEL
  - 5125-01-YEL
  - 5125-06-YEL
  - 5128-00
  - 5128-08
- **Telescopic Carbon Fiber Rover Rods** 9
  - 5129-50
  - 5129-51
  - 5129-70
  - 5129-71
- **Snap-Lock Rover Rods** 10
  - 5125-20-FLY
  - 5125-20-YEL
  - 5125-22-FLY
  - 5128-20
  - 5128-22
  - 5128-24
- **GNSS Accessories and Adapters** 10
  - 2133-03
  - 2133-05
  - 2133-06
  - 5139-02-FLY
  - 5300-11
  - 5300-12
  - 5561-20
- **GNSS Accessories and Adapters** 11
  - 5111-00
  - 5111-00-SS
  - 5111-04
  - 5113-012
  - 5114-01
  - 5114-02
  - 5114-050
  - 5114-051
  - 5114-10
  - 5125-050
  - 5125-056
  - 5125-057-FLY
  - 5126-10
  - 5128-052
  - 5187-00
  - 5187-00-SS

Vehicle Accessories
- **GNSS Bracket for Truck Door** 12
  - 5114-20
  - 5114-21
- **UTV Roll Cage Transporter for GNSS Rods** 12
  - 5114-40-01
  - 5114-40-02
- **ATV Pole Bracket System** 12
  - 5198-50
  - 5198-51
- **Plan Holder** 13
  - 8046-10-BLU

Vials and Levels
- **Vials** 13
  - 5070-051-40
  - 5081-052-40
  - 5500-064-40
  - 5801-052-40
- **Levels** 13
  - 5001-10
  - 5001-12
  - 5001-20

SECTION TWO

Laser Scanner Accessories
- **Scanner Spheres** 14
  - 6703-001
  - 6704-001
- **230 mm Sphere Adapters, Accessories and Case** 14
  - 6703-011
  - 6703-015
  - 6704-002
  - 6704-003
  - 6704-004
  - 6704-10
- **100 mm Sphere Prisms, Adapters, Magnets and Kits** 15
  - 2070-02
  - 6703-002
  - 6703-003
  - 6703-005
  - 6703-006
  - 6703-007
  - 6703-008
  - 6703-012
  - 6703-013
  - 6703-014
  - 6703-10
  - 6703-11
  - 6703-20
  - 8082-01-ORG

Robotics Applications Accessories
- **360° Robotic Prism Assembly** 16
  - 6401-00-YEL
  - 6401-03-YEL
- **Carbon Fiber Robotics Poles** 16
  - 5129-52
  - 5129-53
  - 5129-72
  - 5129-73
- **Accessories for Robotics Gear** 16
  - 2090-01
  - 2090-02
  - 2090-04
  - 2090-06
  - 2090-07
  - 5217-15-ABK

Specialty Prism Poles
- **Geodimeter Style Poles and Prism** 17
  - 5120-00-FOR-GT
  - 5120-01-FOR-GM
  - 5120-02-FOR-GT
  - 5120-03-FOR-GM
  - 5120-024-FOR
  - 5120-025-FOR
  - 6455-00
- **Telescopic Carbon Fiber Prism Pole** 17
  - 5129-54
- **Mini Poles** 17
  - 5010-00-FLY
  - 5010-00-RED
  - 5010-01
  - 5500-23
  - 5700-21
- **Swiss-Style QLV Prism Poles** 18
  - 5802-10
  - 5802-20
- **Swiss-Style Quick-Release Prism Poles** 18
  - 5711-10
  - 5721-10
- **Swiss-Style TLV and Twist-Lock Prism Poles** 18
  - 5501-11
  - 5503-30
  - 5521-11
  - 5523-30

Prism Poles and Accessories
- **Quick Change Prism Poles** 19
  - 5507-10
  - 5507-11
  - 5507-13
  - 5507-15
  - 5507-16
  - 5507-17
  - 5507-20
  - 5507-22
  - 5507-30
  - 5527-10
  - 5527-11
  - 5527-13
  - 5527-15
  - 5527-16
  - 5527-17
  - 5527-20
  - 5527-22
  - 5527-30
- **Quick Change Pole Adapters** 19
  - 2090-10
  - 2090-11
  - 2090-12
  - 2090-13
  - 2090-14
  - 2090-15
  - 2090-17
  - 2090-19
  - 2090-21
  - 2090-26
  - 5079-066
- **2 mm Metric Telescoping Prism Poles** 20
  - 5527-18-13
  - 5527-18-15
- **Quick-Release Telescopic Prism Poles** 20
  - 5700-10
  - 5700-20
  - 5720-10
- **TLV and Twist-Locking Telescopic Prism Poles** 20
  - 5500-11
  - 5500-21
  - 5500-30
  - 5512-11
  - 5520-11
  - 5520-21
  - 5520-30
- **Compression Lock Telescopic Prism Poles** 21
  - 5600-10
- **QLV Locking Prism Poles** 21
  - 5801-10
  - 5813-10
  - 5813-20
  - 5821-10
  - 5821-20
- **Ultralite Prism Poles** 21
  - 5540-10
  - 5540-20
  - 5540-30
  - 5541-10
  - 5541-20
  - 5541-30
- **Contractor Series TLV Prism Poles** 22
  - 5530-10
  - 5530-20
  - 5530-30
  - 5531-10
  - 5531-20
  - 5531-30
- **Contractor Series Compression Lock Poles** 22
  - 5631-10
  - 5631-20
  - 5631-30
- **Offset Tools** 22
  - 5198-157
  - 5198-163
- **Prism Adapters, Tips and Topo Shoes** 23
  - 91601
  - 91605
  - 91641
  - 2080-00
  - 2080-SS
  - 2090-00
  - 2131-00
  - 2131-01
  - 4900-00
  - 5180-00
  - 5181-00
  - 5190-00
  - 5191-00
  - 5192-00
  - 5192-02
  - 5193-04
  - 5194-00

PRODUCT CATEGORY/NUMBER — PAGE

5194-003
5194-01
5194-03
5194-04
5194-05
5194-10
5195-01
D11145
Range Pole Accessories 24
5214-01
5125-058
Pole Extensions 24
5110-00-FLY
5110-01-FLY
5130-00-FLY
5130-01-FLY
5130-10
5131-00-YEL
5131-01-FLY
5132-00-ACL
5143-00-FLY
5143-02
5143-03
5144-00-FLY
5144-02
5145-00-FLY
5145-02
5145-03
5145-04
5182-001
5901-00-FLY
5902-00-FLY
Range Poles 24
5140-02-WOR
5150-02-WOR
5160-02-WOR
Prism Pole Bipods & Tripods
Bipods & Tripods 25
5214-00
5217-04-YEL
5217-05-YEL
5217-30
5217-40-FLY
5217-50-FOR
5218-02-FLY
5218-15-ABK
5218-40-YEL
5219-03
5219-05

SECTION THREE

Prisms, Assemblies and Pin Pole Kits
62 mm Rear Screw Lock Premier Prism Assembly 27
6402-02-FLB
6402-02-FOB
6402-02-YLB
6422-02-FLB
6422-02-FOB
6422-02-YLB
62 mm Rear Lever Lock Premier Prism Assembly 27
6402-20-FLB
6402-20-FOB
6402-20-YLB
6422-20-FLB
6422-20-FOB
6422-20-YLB
62 mm Strobe Prism Premier Assembly 27
6402-03-FLB
6402-03-FOB
6402-03-YLB
-35 mm Premier Prism Assembly 28
6402-05-FLB
6402-05-FOB
6402-05-YLB
-30 and 0 mm Premier Prism Assembly 28
6402-06-FLB
6402-06-FOB

PRODUCT CATEGORY/NUMBER — PAGE

6402-06-YLB
Contractor Series 62 mm Prism Assembly 28
6402-10-FOB
6402-10-FLB
6402-10-YLB
Tilting Triple Prism Assembly 28
6341-00
6341-11
Adjustable Dual Prism 29
6603-03
Sliding Prism with Tilting Reflector 29
6455-00
Backlight Prism Assembly 29
6400-12-FOR
Eclipse 62 mm Nodal Point Prism Assembly 29
6400-00
6410-00
6410-018
62 mm Nodal Point Prism Assembly 29
6400-10
Prism Assemblies 30
6406-00
6440-00-FOR
6450-00-BLK
GEOPRISM
Mini and Stakeout Prisms 30
5216-00
6200-10-FOR
6200-11-FOR
6405-01-FLY
6405-01-FOR
6405-10-FLY
6405-10-FOR
6405-11-FLY
6405-11-FOR
6405-12-FLY
6405-12-FOR
6405-13-FOR
Sliding Prisms and Surveyor Kits
Sliding Prisms and Pin Pole Kits 31
5910-01-ARD
5910-02-ARD
5910-05
5910-06
5910-10
5910-24
6600-10
Prism Assembly Components 32
6411-00
6411-02-BLK
6411-03-BLK
6411-04-BLK
6416-00
6020-01
6020-02
Mini Prisms
Mini Prisms 32
6600-01
6600-02
6600-03
6600-04
6600-05
6603-05
6603-06
Mining, Tunneling, Monitoring and Rail
Quick Release Adapters and Rebar Bolts 32
6601-01
6601-02
6601-03
6601-04
6602-01
6602-02
6602-03
Monitoring Accessories 33
1 510 001
1 510 011
4 520 120

PRODUCT CATEGORY/NUMBER — PAGE

4 520 121-5/8"
4 520 122
4 520 800
5 113 100
5 114 150
5 114 200
5 114 270
5 114 350
5 115 150
5 115 200
5 115 270
5 115 350
5 263 000
5 263 001
5 263 002
5 312 001
Walleye Prism System 34
6603-00
6603-00-005-TMB
6603-00-050
6603-00-051
6603-01
6603-01-051

SECTION FOUR

Tribrachs and Adapters
Tribrachs & Adapters 34
2001-00
2002-00
2010-00
2020-00
2021-00
2070-00
2071-00
2152-04-BLK
2153-02-BLK
2153-04-BLK
GeoDesy Products
GeoDesy by SECO 35
A452
A455
A456
A458
FPT144-BLK
FPT146-BLK
FPT247-BLK
RT481W-BLK
RT481WON-BLK
RT482W-BLK
RT482WON-BLK
RT484W-BLK
RT484WON-BLK
GeoDesy by SECO 36
2152-06-BLK
2152-07-BLK
2153-06-BLK
2153-07-BLK
European Style Tribrach 36
2152-05-BLK
2153-05-BLK
Traverse Tribrach Adapter 36
2153-10-BLK
Traverse Kits
Single Prism Traverse Kit 37
2159-01-BLK
2159-050
Precision Traverse Kits for 196 mm Heights 37
2159-06
2159-07
Traverse Kit for 196 mm Heights 37
2159-03-BLK
Traverse Kit for 155 mm Heights 37
2159-04-BLK
Instrument Tripod and Accessories
Instrument Tripod Accessories 38
2120-00
2130-00
2132-01
5196-02
5196-07

PRODUCT CATEGORY/NUMBER — PAGE

5196-13
5196-13-005
5610-00
5610-11
5610-12
Tripod Dollies 38
90555
5610-15
90557-050
Tri-Max Tripods 39
90550
90551
90553
90560
Premier Fiberglass Tripods 39
90582
Extra-Tall Fiberglass Elevator Tripod 40
5321-17-ORG
Universal Tri-Max Elevator Tripod 40
90558
90557-050
90558-050
90558-052
Aluminum Elevator Tripods 40
5321-16-BLK
5321-18-BLK
Short Tri-Max 41
90550-S
Birch Wood / Fiberglass Hybrid Tripod 41
5302-13-BLK
5302-13-ORG
5402-13-BLK
5402-13-ORG
Heavy-Duty Birch Wood Tripods 41
5220-13-BLK
5220-13-ORG
5420-13-BLK
5420-13-ORG
Square Leg Aluminum Tripods 42
5301-31-BLK
5301-31-ORG
Round Leg Aluminum Tripods 42
5301-21-BLK
5301-21-ORG
5301-24-BLK
5301-25-BLK
5311-21-ORG
5401-21-BLK

SECTION FIVE

Leveling Rods and Accessories
Leveling Rod Accessories 43
91014
91133
91255
91258
91259
91275
91535
5217-20-FLY
5217-21-FOR
70014-6
70014-7
7301-00
7304-01
7321-00
7321-050
Laser Receiver Cut & Fill Rod 43
7310-13
Aluminum Builder's Rods 44
7301-30
7301-40
7301-50
7321-30
7321-40
7321-50
7341-40
'E' Pattern Builder's Rods 44
7341-31

PRODUCT CATEGORY/NUMBER — PAGE

7341-41
7341-45
7341-51
7341-52
7341-55
7341-56
Grade/Trenching Rod — 44
92090
Surveyor's Series (SVR) — 45
Leveling Rods
98010
98011
98012
98013
98014
98015
98016
98017
98020
98021
98023
98024
98025
98026
SVR Brackets for Laser Receivers — 45
91100
91162
91163
Standard/Pro Series (LR) — 46
Leveling Rods
90004
90009
90014
90022
90024
90026
Rectangular Series (CR) — 46
Leveling Rods
92001
92002
92021
92022
92026
92027
92031
92032
92041
92042
92043
92046
92047
92048
Magnetic Locators
SubSurface Handheld — 47
Magnetic Locators
ML-1
ML-1M
ML-1-050
SubSurface Waterproof — 47
Magnetic Locator
ML-3SY
Measuring Rulers and Tapes
Heavy-Duty Pocket Tape — 47
4769-00
4769-01
4769-02
4769-03
4769-04
4769-06
4769-14
4769-15
Triangular Scale Tapes — 48
9006-00
9006-01
Coated Fiberglass and — 48
Steel Measuring Tapes
3003-06
3003-07
3003-08
3003-10

PRODUCT CATEGORY/NUMBER — PAGE

3003-14
3006-06
3006-07
3006-08
3006-10
3006-11
3006-17
3006-18
Rhino Ruler Engineer's Folding Ruler — 48
4770-00
4770-01
CMR Series Measuring Rulers — 49
and Cases
90180
90181
90182
Laser Distance Meters
Laser Distance Meters — 49
QM55
QM75
QM95
Stream Gauges and Supplies
Stream Gauges — 50
99000
99001
99002
99003
99004
99023
99051
99052
99053
99071
99072
99079
99080
99081
Mounting Hardware For — 50
Stream Gauges
99043
Stream Gauges Plate Numbers — 51
99060
99061
99062
99063
99064
99065
99066
99067
99068
99069
99070

SECTION SIX

Hand Levels
1X and 2X Magnification — 51
Hand Levels
4040-05
4040-30
4040-60
4050-01
4200-00
4300-00
8030-00-CABLU
Optical Instruments
Magnetic Dampened — 52
Auto Level and Packages
4811-24
4811-24P1
4811-24P2
4811-24P3
4811-24P4
4811-24P5
4811-24P6
4811-24P7
4811-24P8
4811-32
4811-32P1
4811-32P2
4811-32P3
4811-32P6

PRODUCT CATEGORY/NUMBER — PAGE

AL24A
AL24A-1
AL24A-2
AL24A-3
AL24M
AL24M-1
AL24M-2
AL24M-3
AL32A
Construction Theodolite — 53
DET-2
DE-50
Batter Board Clamp — 53
4852-14
Construction Lasers and Detectors
Storm Laserometer Receiver — 54
ATI994000-02
ATI994000-09
Lightning 2 Laser Detector — 54
ATI993600-02
ATI993600-09
Twister Laser Receiver — 54
ATI993640-02
ATI993640-09
Bullseye 6 Laser Receiver — 55
ATI991320-02
ATI991320-09
ATI991326-02
ATI991326-09
Bullseye 5+ Laser Receiver — 55
ATI991370-02
ATI991370-09
ATI991376-02
ATI991376-09
Bullseye 3+ Laser Receiver — 55
ATI991340-02
ATI991340-09
ATI991346-02
ATI991346-09
Bullseye Magnetic Mounts — 56
ATI991360-02
ATI991364-02
Bullseye Receiver Accessories — 56
ATI010536-02S
ATI010972-15
ATI010972-20
ATI010972-25
ATI010972-35
ATI010972-50
ATI010976-02
ATI010983
ATI010987-25
ATI991604
Gopher Pole Wire Installation Tool
Gopher Pole Wire Installation Tool — 56
90520
91415

SECTION SEVEN

Column Clamps
Wall/Column Bracket for Lasers — 57
and Total Stations
4852-17
Heavy-Duty Instrument — 57
Column Clamp
4852-16
Wall Mount Bracket — 57
2072-60
Rotating Laser Column Clamp — 57
4852-15
ANSI/ISEA Class Safety Utility Vests
8365-Series Safety Utility Vest — 58
8365-42-FLY
8365-42-FOR
8365-46-FLY
8365-46-FOR
8365-50-FLY
8365-50-FOR
8365-54-FLY
8365-54-FOR
8365-58-FLY

PRODUCT CATEGORY/NUMBER — PAGE

8365-58-FOR
8365-62-FLY
8365-62-FOR
8365-66-FLY
8365-66-FOR
8368-Series Safety Utility Vest — 58
8368-42-FLY
8368-42-FOR
8368-46-FLY
8368-46-FOR
8368-50-FLY
8368-50-FOR
8368-54-FLY
8368-54-FOR
8368-58-FLY
8368-58-FOR
8368-62-FLY
8368-62-FOR
8368-66-FLY
8368-66-FOR
8390-Series Mesh Safety Vest — 59
8390-50-FLY
8390-50-FOR
8390-54-FLY
8390-54-FOR
8390-58-FLY
8390-58-FOR
8390-62-FLY
8390-62-FOR
8265-Series Safety Utility Vest — 59
8265-42-FLY
8265-42-FOR
8265-46-FLY
8265-46-FOR
8265-50-FLY
8265-50-FOR
8265-54-FLY
8265-54-FOR
8265-58-FLY
8265-58-FOR
8265-62-FLY
8265-62-FOR
8265-66-FLY
8265-66-FOR
8260-Series U.S./Canada — 60
Dual Safety Utility Vest
8260-46-FLY
8260-46-FOR
8260-50-FLY
8260-50-FOR
8260-54-FLY
8260-54-FOR
8260-58-FLY
8260-58-FOR
8260-62-FLY
8260-62-FOR
8260-66-FLY
8260-66-FOR
8261-Series Safety Utility Vest — 60
8261-XS-FLY
8261-XS-FOR
8261-S-FLY
8261-S-FOR
8261-M-FLY
8261-M-FOR
8261-L-FLY
8261-L-FOR
8261-XL-FLY
8261-XL-FOR
8261-XXL-FLY
8261-XXL-FOR
8261-XXXL-FLY
8261-XXXL-FOR
8261-J-FLY
8261-J-FOR
8292-Series Safety Utility Vest — 61
8292-46-FLY
8292-46-FOR
8292-50-FLY
8292-50-FOR
8292-54-FLY

product shipped from the US warehouse only

PRODUCT CATEGORY/NUMBER PAGE

8292-54-FOR
8292-58-FLY
8292-58-FOR
8292-62-FLY
8292-62-FOR
8290-Series Economy Safety Vest 61
8290-50-FLY
8290-50-FOR
8290-54-FLY
8290-54-FOR
8290-58-FLY
8290-58-FOR
8290-62-FLY
8290-62-FOR
8068-Series Safety Utility Vest 62
8068-42-FLY
8068-42-FOR
8068-46-FLY
8068-46-FOR
8068-50-FLY
8068-50-FOR
8068-54-FLY
8068-54-FOR
8068-58-FLY
8068-58-FOR
8068-62-FLY
8068-62-FOR
8068-66-FLY
8068-66-FOR
8063-Series Surveyors Utility Vest 62
8063-38-FOR
8063-42-FLY
8063-42-FOR
8063-46-FLY
8063-46-FOR
8063-50-FLY
8063-50-FOR
8063-54-FLY
8063-54-FOR
8063-58-FLY
8063-58-FOR
8063-62-FLY
8063-62-FOR
8063-66-FLY
8063-66-FOR
8067-Series Heavy-Duty Safety Utility Vest 63
8067-38-FOR
8067-42-FLY
8067-42-FOR
8067-46-FLY
8067-46-FOR
8067-50-FLY
8067-50-FOR
8067-54-FLY
8067-54-FOR
8067-58-FLY
8067-58-FOR
8067-62-FLY
8067-62-FOR
8067-66-FLY
8067-66-FOR
8069-Series Safety Utility Vest 63
8069-38-FOR
8069-42-FLY
8069-42-FOR
8069-46-FLY
8069-46-FOR
8069-50-FLY
8069-50-FOR
8069-54-FLY
8069-54-FOR
8069-58-FLY
8069-58-FOR
8069-62-FLY
8069-62-FOR
8069-66-FLY
8069-66-FOR
Hydration Backpack 64
8125-60-FOR

PRODUCT CATEGORY/NUMBER PAGE

Bags and Cases
Utility Bags & Miscellaneous Cases 64
8095-20-ORG
8106-10-ORG
8106-20-ORG
8142-01-ORG
8143-21-YEL
8143-22-FLY
8143-40-FLY
Tool Pouches 65
8046-20-ORG
8046-30-ORG
GNSS Pole and Tripod Bags 65
8151-02-FLY
8153-10-ORG
8154-00-ORG
8154-10-ORG
8154-12-ORG
8162-00-ORG
Instrument Tripod Bags and Cases 65
8150-20-ORG
8154-11-ORG
8160-31
Rover Rods and Prism Pole Tripod Cases 66
8157-01-ORG
8160-00-ORG
8160-20-BLK
8162-20-BLK
8180-20-ORG
Assorted Rod Carrying Cases 66
91402
91410
91411
91415
91416
91417
8166-01-ORG
8170-00-ORG
Lath and Stake Bags 67
8090-20-ORG
8091-20-ORG
8092-20-ORG
8093-00-ORG
8094-00-ORG
8096-20-ORG
8098-00-ORG
8098-10-ORG
8100-00-ORG
8100-20-ORG
8101-00-ORG
8101-20-ORG
8102-00-ORG
8102-01-ORG
8103-20-ORG
8104-20-ORG
Front and Top Loading Total Station Cases 67
8120-00-ORG
8121-00-ORG
8123-00-ORG
Total Station, GIS & GNSS Backpacks 68
8120-30-ORG
8120-40-ORG
8125-11-ORG
8125-50-ORG
8134-00-ORG
Prism and Tribrach Bags 68
8070-00-ORG
8071-00-ORG
8080-00-ORG
8081-00-ORG
8082-00-ORG
8130-00-ORG
Magnetic Nails and Hand Tools
ChrisNik MagNails, MagSpikes and MagHubs 69
24750
241000
241250
241500

PRODUCT CATEGORY/NUMBER PAGE

242000
242500
23MAGHUB4
23MAGHUB6
23MAGHUB8
253MAGSPIKE
254MAGSPIKE
256MAGSPIKE
258MAGSPIKE
Estwing Hand Tools 69
9070-00
9070-01
9070-02
9070-03
9070-04
9070-05
9070-06
9070-07
9070-08

SECTION EIGHT

Stake Flagging, Tape, Field Markers and Whiskers
Stake Flags, Flagging Tape, Field Marking and Whiskers 70
8025-00-ORG
9035-01
9035-02
9035-03
9035-04
9035-05
9035-06
9035-07
9035-08
9035-09
9035-10
9035-11
9035-12
9035-13
9036-01
9036-02
9036-03
9036-04
9036-05
9036-06
9036-07
9036-08
9036-09
9036-10
9036-11
9036-12
9036-13
9037-01
9037-02
9037-03
9037-05
9037-06
9040-01
9040-02
9040-03
9040-04
9040-05
9040-06
9040-07
9040-08
9040-09
9040-10
9040-11
9040-12
9040-13
9040-14
9040-15
9040-16
9040-20
9045-01
9045-02
9045-03
9045-04
9050-01
9050-02
9050-03

PRODUCT CATEGORY/NUMBER PAGE

9050-04
9050-05
9050-06
9050-08
9060-06
9060-14
9061-02
9061-03
9061-04
9061-05
9061-06
9061-14
9062-00
9063-06
9063-14
9064-01
9064-02
Miscellaneous Field Supplies
Field Marking and Miscellaneous Accessories 71
25456855
2180-00
2180-01
2181-00
2181-10
2182-00
2182-10
2183-00
6000-001
6000-002
6000-012
6000-014
6000-016
6000-018
6000-024
6000-032
6000-120
6000-160
6000-240
6001-06
6001-12
6001-FR
6001-FY
6001-OR
8010-10-BLU
9000-01
9000-02
9068-02
9068-03
9500-01
9500-02
9500-13
9500-17
Brass Survey Marker 71
2183-01
2183-02
2183-03
2183-05
2183-06
Rite in the Rain
Rite in the Rain 72
37
37R
99BR
99ER
135
146
200
300F
301FX
302
303
310F
311FX
312
313
350F
351FX
352
353
YE99

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