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SURVEYING AND SITE PREP EQUIPMENT



2013 CATALOG

5203-10-BLK Fiberglass Tripod

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ Fiberglass Tripods are stable and accurate — perfect for mechanically-driven total stations and survey-grade theodolites and levels, these tripods stand up to demanding field conditions
- ▶ The 5/8 x 11 threaded post accommodates standard instruments — an ideal tripod for many different applications
- ▶ Dual clamp configuration: twist lock and lever lock
- ▶ Round, flat head
- ▶ Black hardware
- ▶ Weighs 8.4 kg

APPLICATIONS

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

5203-20-ORG — 3.35 Meters Fiberglass Tripod

Features 3.35 m height and Quick-Clamp positive locking systems



FEATURES & BENEFITS

- ▶ This tripod is very portable; it breaks down in two, 1.22 m sections
- ▶ It's easy to set up and take apart and comes with two carrying cases
- ▶ Add the three additional legs and this tripod goes from 2.13 m (collapsed) to 3.35 m extended
- ▶ This tripod features a unique telescoping strut system to stabilize the fiberglass legs, dual clamps on each leg, and a flat head with standard 5/8 x 11 instrument fastener
- ▶ Two sturdy carry/storage bags are included
- ▶ Weighs 16.3 kg

APPLICATIONS

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

Heavy-Duty Dual Lock Wood Tripods

Dual-Lock tripod provides 183 centimeters of height and stability



FEATURES & BENEFITS

- ▶ A 16.5-centimeter round head and standard 5/8 x 11-threaded stud is ideal for mounting a variety of instruments
- ▶ Quick Clamp and Twist-Locks provide extra security at height
- ▶ Leg stabilizer straps ensure tripod stays stable and in place
- ▶ The legs extend to 183 cm and collapse to 118 cm
- ▶ A tool kit, which attaches to any leg, includes an open-end wrench and an allen wrench for making any adjustments to the tripod
- ▶ The wood legs have a hand hole for easy carrying
- ▶ A shoulder strap is also included for comfortable carrying over longer distances
- ▶ Choose orange or black hardware

APPLICATIONS

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

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5220-10-ORG	Dual Locks	Wood	8.5 kg	183 cm	Round / Flat	Orange
5220-10-BLK	Dual Locks	Wood	8.5 kg	183 cm	Round / Flat	Black (shown)

5300-11-ORG Tripod with Antenna Mast

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ This setup gets your radio antenna to the desired height easily
- ▶ The mast telescopes to 2.3 m and the tripod itself can be set to 1.7 m for a total elevation of 4 m
- ▶ The fitted mast is aluminum with a 5/8 x 11 threaded tip
- ▶ The tripod is the SECO #5302-10-ORG
- ▶ The antenna mast can be purchased separately (#5561-20) to convert your existing heavy-duty tripod
- ▶ Weighs 1.13 kg

APPLICATIONS

- ▶ Designed for radio antennas

**5302-10-ORG Hybrid
Fiberglass & Wood Tripod**

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ Wood/Fiberglass Tripods are perfect for mechanically-driven total stations and survey-grade theodolites and levels, these tripods stand up to demanding field conditions
- ▶ The 5/8 x 11 threaded post accommodates standard instruments — an ideal tripod for many different applications
- ▶ Extends to 183 cm
- ▶ Quick Clamp locking configuration
- ▶ Triangle flat head
- ▶ Orange hardware
- ▶ Weighs 8.16 kg

APPLICATIONS

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

**Heavy-Duty Quick Clamp
Wood Tripods**

Quick-Clamp tripod provides 183 cm of height and stability



FEATURES & BENEFITS

- ▶ Features a round/flat head and 5/8 x 11-threaded stud
- ▶ Quick Clamp locking and leg straps provide stability at height
- ▶ The tripod extends to 183 cm and collapses to 118 cm
- ▶ A tool kit, includes open-end and allen wrenches
- ▶ The all-wood legs have a hand hole built-in for easy carrying
- ▶ A shoulder strap is also included for comfortable carrying over longer distances
- ▶ Black or orange hardware

APPLICATIONS

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

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5320-10-ORG	Quick Clamp	Wood	7.5 kg	183 cm	Round / Flat	Orange
5320-10-BLK	Quick Clamp	Wood	7.5 kg	183 cm	Round / Flat	Black (shown)

**5321-17-ORG — 3.35 Meters
Fiberglass Elevator Tripod**

Locking leg stabilizers provide greater stability



FEATURES & BENEFITS

- ▶ This tripod has a fully-extended leg height of 3.80 m and a collapsed height of 1.82 m
- ▶ The legs and dowels are constructed of fiberglass for durability, strength and resistance to weathering
- ▶ It features an adjustable center column that gives you 1.82 m of lift
- ▶ A detachable round head plate, with a 5/8 x 11 stud, gives your instrument a sturdy platform
- ▶ Lockable leg stabilizer struts, dual clamps, twist locks and quick clamps, along with dual metal and rubber leg points and handy leg strap create greater stability
- ▶ Weighs 15.0 kg

APPLICATIONS

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

**5402-10-ORG Wood/
Fiberglass Hybrid Tripod**

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ Wood/Fiberglass Tripods are stable, accurate and will stand up to demanding field conditions
- ▶ The 5/8 x 11 threaded post accommodates standard instruments — an ideal tripod for many different applications
- ▶ Twist-Lock clamp configuration
- ▶ Triangle flat head
- ▶ Orange hardware
- ▶ Weighs approximately 7.50 kg

APPLICATIONS

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

Heavy-Duty Wood Tripods

Twist-Lock tripod provides 183 centimeters of height and stability



FEATURES & BENEFITS

- ▶ This heavy-duty tripod features a round head and 5/8 x 11-threaded stud for a variety of instruments
- ▶ Twist Locks and leg straps provide stability at height
- ▶ A tool kit, which attaches to any leg, includes an open-end wrench and an allen wrench for making any adjustments to the tripod
- ▶ The all-wood legs have a hand hole built-in for easy carrying
- ▶ A shoulder strap is also included for comfortable carrying over longer distances
- ▶ Weighs 7.48 kg

APPLICATIONS

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

PART NO.	LOCKING	LEGS	EXTENDS	COLLAPSES	WEIGHS	COLOR
5420-10-BLK	Twist Lock	Wood	183 cm	118 cm	7.48 kg	Black
5420-10-ORG	Twist Lock	Wood	183 cm	118 cm	7.48 kg	Orange

Tri-Max® Tripods

Features Quick-Clamp 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 Tri-Max® features a round head with large center hole to facilitate an easy set-up over a point
- ▶ A retaining system—which prevents leg kick out and accidental falls on slick surfaces—is stored on the inside of the leg and can be left in place when the tripod is not in use
- ▶ The large 'footbed' is there to facilitate solid planting for stability
- ▶ The shape and size of the foot are designed to allow for a solid placement on any terrain
- ▶ The foot is equipped with a replaceable point and a retention loop for use with a safety strap
- ▶ The Tri-Max® can handle equipment up to 30 kg

APPLICATIONS

- ▶ Robotics
- ▶ Scanning
- ▶ Leveling

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
90550	Quick Clamp	Fiberglass	7.3 kg	1.8 m	Round / Flat	Black
90551	Screw Clamp	Fiberglass	7.3 kg	1.8 m	Round / Flat	Black
90553	Dual Clamp	Fiberglass	7.3 kg	1.8 m	Round / Flat	Black

90550-S 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 a height of 1.73 m
- ▶ Collapses to 1.05 m
- ▶ Weighs 7.0 kg

APPLICATIONS

- ▶ Robotics
- ▶ Scanning
- ▶ Leveling

90556 Tri-Max® Fiberglass Elevator Tripod

Stout yet light weight tripod with dual locks and struts



FEATURES & BENEFITS

- ▶ Features sturdy fiberglass legs with dual locks — a quick lever style at the top and a twist lock on the bottom
- ▶ Built-in stabilizing struts connect the legs and aluminum center column to help maintain the tripod's stability at working height
- ▶ The round 5/8 x 11 mounting head is removable and adjustable in azimuth direction
- ▶ Other features include a stout gear box which controls lift and descent — the column can not fall freely
- ▶ The working height range (legs in tripod form as shown) is 1.5 m collapsed to 3.5 m extended with the center column at full height
- ▶ The center column independently lifts 1.12 meters (graduated in millimeters)
- ▶ Completely collapsed for storage or transport, the tripod measures 1.63 m and will fit in the Extra Large Tripod Bag
- ▶ Weighs 13.2 kg

APPLICATIONS

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

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
- ▶ Extension choices include: standard or mini tripod size
- ▶ The telescopic legs allow for setup at various heights and are available with orange or black hardware (on some models)

APPLICATIONS

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

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENSION	HEAD	HARDWARE
5301-20-ORG	Quick Clamp	Aluminum (Round)	4.63 kg	1.70 m	Triangle/Flat	Orange
5301-20-BLK	Quick Clamp	Aluminum (Round)	4.63 kg	1.70 m	Triangle/Flat	Black
5301-27-BLK	Quick Clamp	Aluminum (Round)	3.18 kg	1.60 m	Triangle/Flat	Black
5401-20-ORG	Twist-Lock	Aluminum (Round)	4.63 kg	1.70 m	Triangle/Flat	Orange
5401-20-BLK	Twist-Lock	Aluminum (Round)	4.63 kg	1.70 m	Triangle/Flat	Black
5401-23-BLK	Twist Lock	Aluminum (Round)	3.03 kg	0.65 m	Triangle/Flat	Black

Square Leg Aluminum Tripods

Heavy-duty aluminum square leg tripods offer stability and accuracy



FEATURES & BENEFITS

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

APPLICATIONS

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

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

Aluminum Elevator Tripods

Locking leg stabilizers provide greater stability



FEATURES & BENEFITS

- ▶ SECO aluminum elevator tripods have smooth operating adjustable center columns
- ▶ Both models feature tough kick-in cleats and points
- ▶ The #5321-16-BLK (shown) features a built-in circular vial in the instrument head, quick clamp leg locks, and black hardware
- ▶ Safety chains on the legs prevent slipping on hard surfaces
- ▶ The #5321-18-BLK is a lighter weight Elevator Tripod version that features quick clamp leg locks, a flat 36 mm head and black hardware
- ▶ This model extends to 170 cm (Tripod extends 130 cm and Elevator extends 40 cm)

APPLICATIONS

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

PART NO.	LOCK TYPE	LEGS	WEIGHS	EXTENDS	COLLAPSES	HEAD	HARDWARE
5321-16-BLK	Quick Clamp	Aluminum (Round)	7.39 kg	2.32 m	1.26 m	Elevator/Round	Black
5321-18-BLK	Quick Clamp	Aluminum (Round)	3.30 kg	1.70 m	0.86 m	Elevator/Flat 36 mm	Black

5214-00 Alligator Clamp Tripod

Easy to setup, great for lightweight pin pole systems



FEATURES & BENEFITS

- ▶ The tripod features a ball-and-socket head which makes leveling a bubble easy
- ▶ The rubberized jaws hold a pole or rod (up to 5.1 cm OD) firmly in place
- ▶ Telescopic legs extend from 80 cm to 127 cm
- ▶ Weighs 1.2 kg



Alligator clamp with rubberized jaws!

APPLICATIONS

- ▶ General survey or construction applications

5300-12 Aluminum Tripod with Antenna Mast

Stable and accurate for many different applications



FEATURES & BENEFITS

- ▶ This radio antenna tripod with antenna mast gets your radio antenna to the desired height
- ▶ The mast telescopes to 2.3 m and the tripod can be set to 1.7 m for a total elevation of 4 m
- ▶ The mast is aluminum with a male 5/8 x 11 tip — the tripod is the #5302-10-ORG
- ▶ The antenna mast can be purchased separately to convert your own heavy-duty tripod as well (#5561-20)
- ▶ Weighs 8.62 kg

APPLICATIONS

- ▶ Designed for radio antennas

Small Light Weight Aluminum Tripods

Easy to use, simple to set up



FEATURES & BENEFITS

- ▶ Use this collapsible aluminum tripod to steady the crossline level and give it the height you need
- ▶ Comes equipped with a 5/8 x 11 stud and a 22.86 cm elevator lift
- ▶ Hardware is Black

APPLICATIONS

- ▶ Interior construction applications with spot or leveling lasers

PART NO.	COLLAPSED HEIGHT	EXTENDED HEIGHT	BUBBLE VIAL	WEIGHS
7210-01	40.64 cm	111.76 cm	No	0.61 kg
7210-02	63.5 cm	167.64 cm	Yes	1.74 kg

90555 Tri-Max Tri-Dolly™

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



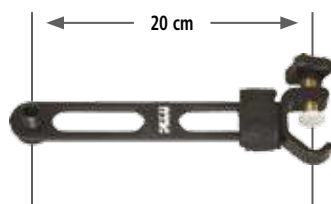
FEATURES & BENEFITS

- ▶ The Tri-Max Tri-Dolly™ speeds up data collection
- ▶ Moving your instrument setup is quick, no need to break down to get to your next measuring location
- ▶ Features include sturdy fiberglass legs, stability locks, foot straps, and rubberized 7.6-cm-tall castor wheels that swivel 360 degrees and quick-lever style steel risers

APPLICATIONS

- ▶ Interior applications on hard surfaces

Tripod Accessories



- ▶ The open clamp attachment allows quick and easy connection to the pole; it connects to 25.4-to-31.8 mm OD poles
- ▶ The brass male 5/8 x 11 captive stud is easily removed for direct attachment of the radio antenna to the bar
- ▶ The bracket comes with a non-slip Velcro® cable strap (8124-012) to help manage the radio cable
- ▶ The 2133-03 can be used with the SECO Radio Antenna Adapter (2133-00) which adapts 1-1/8 x 18 radio antennas to any 5/8 x 11 threaded tip
- ▶ Weighs 0.10 kg

2133-03 — Antenna Bracket

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



5196-07 — Tilted Bracket

- ▶ This bracket rotates for easier access to your collector



5196-13 — Rotating Bracket

- ▶ Snap locks into a fixed length of 1.83 meters
- ▶ It collapses to 105.41 centimeters
- ▶ It's used to elevate a radio antenna to 1.83 meters plus the height of the tripod setup
- ▶ Comes with a 8.89 cm diameter Plate Adapter (#5182-002) to attach to any 5/8 x 11 tripod
- ▶ Weighs 0.62 kg

5139-02-FLY — 1.83 meter Snap-Lock Radio Antenna Pole

- ▶ The Antenna Mast Assembly will fit most heavy-duty-type tripods (like the 5203-10) after the bolt assembly has been removed
- ▶ The mast telescopes to 2.3 m - plus your tripod height for maximum height
- ▶ It's easy to install and a hex tool is included
- ▶ Convert your extra tripod to a radio base set-up
- ▶ Weighs 1.13 kg



5561-20 — Radio Antenna Mast Assembly

- ▶ Made of strong stainless steel, it is designed to fit precisely on the back of the controller with or without the unit's hand strap in place
- ▶ Install or remove the clip easily with a #1 Phillips screwdriver
- ▶ Works with most heavy-duty total station grade tripods that feature a connecting bar on the hinge area
- ▶ Weighs 0.02 kg



5196-18 — Tripod Hook for Trimble® TSC3 or Spectra Precision Ranger 3 Controller

Carbon Fiber Robotics Poles

Features carbon fiber and TLV™ locking



FEATURES & BENEFITS

- ▶ These carbon fiber telescoping poles are graduated to read direct for a 135 mm prism height
- ▶ Adapters will achieve other prism heights
- ▶ Features include a stainless steel pin which locks the inner pole
- ▶ Holes are spaced every 20 cm
- ▶ These poles include the popular TLV™ lock which has a 40-minute vial built-in
- ▶ The inner poles have centimeter graduations

APPLICATIONS

- ▶ Robotics

PART NO.	GRADS	SECTIONS	PIN LOCKING	OUTER GRADS	LENGTH	WEIGHS
5129-53	Metric - cm	1	Every 20 cm	None	1.52 - 2.60 m	1.04 kg
5129-53-GM	Metric - cm	1	Every 20 cm	Metric - cm	1.52 - 2.60 m	1.04 kg
5129-73	Metric - cm	2	Every 20 cm	None	1.58 - 3.60 m	1.50 kg

Geodimeter® Style Prism Poles

Outer section grads allow direct reading of prism height



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 are metric (cm) graduated
- ▶ Graduations in cm are on the outer section for direct reading of prism height
- ▶ Collapses to 1.46 m and expands to 2.62 m
- ▶ The site rod comes with the QLV™ locking mechanism with a 40-min circular, adjustable vial
- ▶ Also comes with two 3.18-cm OD adapters (#5120-030) for bipods and data collector attachment
- ▶ Pole is constructed of durable fluorescent orange aluminum and has a hardened steel removable point

APPLICATIONS

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

PART NO.	COLOR	HEIGHT	GRADS	VIAL	DESCRIPTION	WEIGHS	TYPE
5120-01-FOR-GM	Flo Orange	2.2 m	Metric	40-min	Pole Only	0.92 kg	Aluminum
5120-03-FOR-GM	Flo Orange	2.2 m	Metric	40-min	Pole w/Site Rod	1.24 kg	Aluminum

Mini Poles

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



FEATURES & BENEFITS

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

APPLICATIONS

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

PART NO.	HEIGHT	VIAL	TYPE	WEIGHS
5500-23	1.55 m	40-minute	Aluminum	1.04 kg
5010-00-RED	0.39 m	40-minute	Aluminum	0.68 kg
5010-01	120 mm	40-minute	Aluminum	0.02 kg

TLV™ and Twist-Locking Telescopic Prism Poles

The popular TLV™ locking system provides simple but secure locking



FEATURES & BENEFITS

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

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	SECTIONS	TIP	EXTENDED	COLLAPSED	GRADS	WEIGHS
5520-11	1	Adjustable	2.60 m	1.516 m	Metric	1.50 kg
5520-21	2	Adjustable	3.60 m	1.58 m	Metric	2.32 kg
5520-30	3	Adjustable	4.65 m	1.65 m	Metric	3.45 kg

5521-11 Swiss Style TLV™ Prism Pole

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



FEATURES & BENEFITS

- ▶ This Swiss-style TLV™ prism pole features metric only for GPH1-type prisms, a Swiss-style tip (for 86 mm prism heights) and TLV™ locking
- ▶ It extends to 2.60 m and collapses to 1.51 m
- ▶ The pole has an outside diameter of 31.75 mm
- ▶ Weighs 1.5 kg

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

5523-30 — Three-Section TLV™ Prism Pole

Stable and versatile at heights



FEATURES & BENEFITS

- ▶ This pole is metric-graduated for GPH1-type prisms
- ▶ For 86 mm prism heights
- ▶ Features a Swiss-style tip and twist locking
- ▶ It extends to 4.65 m and collapses to 1.65 m
- ▶ The pole has an outside diameter of 38.1 mm
- ▶ Weighs 3.45 kg

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

Quick Change™ TLV™ Prism Poles

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



FEATURES & BENEFITS

- ▶ This pole system is designed to be compatible with all targets, prisms, and GPS antennas
- ▶ By using the adapters any of the poles in this series can be used for GPS, robotics or total station surveys
- ▶ Quick Conversions to another application by changing adapters (sold separately, see below)
- ▶ Simple adapter determinations: 150 mm minus your target height = length of adapter needed
- ▶ Our TLV (Twist-Lock with Vial) locking mechanism includes a 40-min Hi-Vis circular Vial
- ▶ Dampening of the telescoping section slows down the collapsing of the pole
- ▶ Available with or without locking pin & holes (The locking pin system guarantees no slipping of the sections)
- ▶ Includes #2090-12 adapter (adapter length 35 mm) for a target height of 115 mm
- ▶ Carbon Fiber or Aluminum models offered

APPLICATIONS

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

PART NO.	GRADS	GRADUATED LENGTH	OUTER POLE	LOCKING PIN	ADAPTER INCLUDED
5527-10	cm	1.33 to 2.20 m	Aluminum		2090-12
5527-11	cm	0.50 to 0.70 m	Aluminum		2090-12
5527-13	cm	1.51 to 2.60 m	Carbon Fiber	Yes	2090-12
5527-15	cm	1.51 to 2.60 m	Aluminum		2090-12
5527-17	cm	1.58 to 3.60 m	Carbon Fiber	Yes	2090-12
5527-20	cm	1.58 to 3.60 m	Aluminum		2090-12
5527-22	cm	1.58 to 3.60 m	Carbon Fiber	Yes	2090-12
5527-30	cm	1.65 to 4.65 m	Aluminum		2090-12

Quick Change™ Pole Adapters

Use with SECO Quick Change™ Prism Poles to achieve desired height



FEATURES & BENEFITS

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

APPLICATIONS

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

PART NO.	TARGET	TARGET HEIGHT	LENGTH "L"
2090-10	Leica GPH1	86 mm	64 mm
2090-11	Zeiss 360° Prism	100 mm	50 mm
2090-12	SECO 6400 Series	115 mm	35 mm
2090-13	Trimble® RMT	135 mm	15 mm
2090-14	Adjustable 5/8 x 11	50 mm to 135 mm	N/A
2090-15	GPS Antenna	0 mm	150 mm
2090-17	Leica Adjustable	86 mm to 125 mm	N/A
2090-18	Leica GPH1A,	125 mm	25 mm
2090-19	SECO Mini Prisms	70 mm	80 mm
2090-21	Topcon 360° Prism	77 mm	73 mm
2090-22	Sokkia Polycarbonate	79 mm	71 mm
2090-23	Sokkia AP	96 mm	54 mm

**5821-10
QLV™ Prism Poles**

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



QLV™ lock body



Adjusting Tip



Metric Grads cm



FEATURES & BENEFITS

- ▶ The Quick Lever with Vial (QLV™) allows fast, simple setups
- ▶ Easy locking
- ▶ Includes a Lock with 40-minute level vial, Adjustable tip and Metric Grads
- ▶ Simple to adjust bubble and lever tension
- ▶ Powder-coated and silk screened aluminum single-section pole
- ▶ Length 2.60 m extended, 1.52 m closed
- ▶ Weighs 1.50 kg

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	GRADS	WEIGHS
5821-10	1	Adjustable	2.60 m	Aluminum	Metric	1.50 kg

**5527-18-Series
Telescoping Prism Poles**

Fine graduation survey poles



FEATURES & BENEFITS

- ▶ SECO's Telescoping Prism Poles feature metric graduations (cm/2 mm)
- ▶ Features three models to choose from, 135 mm HT, 0 mm HT, and Adjustable Tip
- ▶ The TLV™ is the most dependable locking mechanism in the market place
- ▶ Its soft touch knob is easy to tighten and loosen
- ▶ A high-visibility vial features 40-minute sensitivity
- ▶ Easy access screws are located underneath for quick calibration
- ▶ Poles extends to 2.60 m and collapses to 1.52 m
- ▶ Each Weighs 1.50 kg

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	TIP	GRADUATIONS
5527-18-13	Fixed, 135 mm HT	cm/2 mm
5527-18-14	Adjustable	cm/2 mm
5527-18-15	Fixed, 0 mm HT	cm/2 mm

Ultralite™ Prism Poles

Non-conductive fiberglass



FEATURES & BENEFITS

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

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	SECTIONS	TIP	LENGTH	VIAL	GRADS	WEIGHS
5541-10	1	Adjustable	2.62 m	40-minute	Metric	0.88 kg
5541-20	2	Adjustable	3.60 m	40-minute	Metric	1.13 kg
5541-30	3	Adjustable	4.65 m	40-minute	Metric	1.43 kg

Basics Plus TLV™ Prism Poles

Quality TLV™ poles



FEATURES & BENEFITS

- ▶ These 'no-frills' poles are designed to give years of service in the field at a lower purchase price
- ▶ Aluminum outer and inner pole
- ▶ 40-minute level vials
- ▶ Hardened steel points
- ▶ TLV™ / Twist locks
- ▶ Traditional red and white color

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	GRADS	WEIGHS
5531-10	1	Adjustable	2.60 m	Aluminum	Metric	1.21 kg
5531-20	2	Adjustable	3.60 m	Aluminum	Metric	1.66 kg
5531-30	3	Adjustable	4.65 m	Aluminum	Metric	2.44 kg

Basics Plus Compression Lock Prism Poles

Traditional Compression Lock Prism Poles



FEATURES & BENEFITS

- ▶ These 'no-frills' imported poles are designed to give years of service in the field at a lower purchase price
- ▶ Aluminum outer and inner pole
- ▶ 40-minute level vials
- ▶ Adjustable tip
- ▶ Hardened steel points
- ▶ Compression locking
- ▶ Traditional red and white color

APPLICATIONS

- ▶ Traditional survey applications requiring a mounted prism

PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	GRADS	WEIGHS
5631-10	1	Adjustable	2.60 m	Aluminum	Metric	1.20 kg
5631-20	2	Adjustable	3.60 m	Aluminum	Metric	1.56 kg
5631-30	3	Adjustable	4.65 m	Aluminum	Metric	2.27 kg

Prism Adapters, Tips and Topo Shoes

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



2080-00 — Wild Prism Adapter

- ▶ 5/8 x 11 adapter
- ▶ Weighs 0.03 kg



5180-00 — Double Male Adapter

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



2090-00 — Wild Prism Pole Adapter

- ▶ 8.56 cm steel body
- ▶ Weighs 0.14 kg



5190-00 — Prism Pole Point

- ▶ 8.56 cm aluminum body
- ▶ Weighs 0.15 kg



5191-00 — Prism Pole Topo Shoe

- ▶ 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 GPS pole (not shown)

- ▶ 8.56 cm length, 64 mm OD with steel body
- ▶ Weighs 0.57 kg



5192-00 — Wide Base Topo Shoe

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



5192-02 — Topo Shoe and Point Combo

- ▶ Adapts 5/8 x 11 tripod to 3-1/2 x 8



2130-00 — Tripod Adapter

- ▶ 8.56 cm steel body, removable point
- ▶ Weighs 0.14 kg



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

- ▶ 8.56 cm anodized aluminum body, steel point
- ▶ Weighs 0.07 kg



5194-03 — Lightweight Prism Pole Point with Replaceable Tip

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



2131-01 — Prism Pole Adapter

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



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

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



5194-04 — Point Assembly

- ▶ This adapter is used to make your 2 meter rod quicker to assemble
- ▶ Adds 60 mm to the length of the rod
- ▶ Weighs 0.20 kg



5111-03 — Quick Release Adapter for Rover Rods

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



5194-05 — Prism Pole Point

- ▶ 8.56 cm titanium point
- ▶ Weighs 0.07 kg



5194-06 — Titanium Prism Pole Point

- ▶ This adapter has male 5/8 x 11 threads
- ▶ Weighs 0.04 kg



5113-012 — GPS Quick-Release Tip

- ▶ 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 0.09 kg



5194-10 — Center Punch Point

- ▶ Convenient for adjusting and calibrating pole vials in the office
- ▶ Features an 'L-bracket' to rest the prism pole point on and the adjustable top piece
- ▶ Weighs 0.45 kg



5195-01 — Pole Peg Adjusting Jig

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



4900-00 — Double Right-Angle Prism

- ▶ AGA Pole Point with Replaceable Tip



5120-022

- ▶ Use this adapter if you have a 2.54-cm OD pole and want to use a Claw™ pole clamp



D11145 — 2.54-cm OD Pole Adapter



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

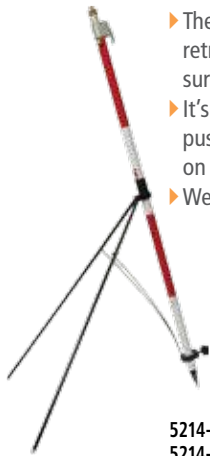


5070-051-40 - Vial Assembly (Complete with 40-min vial)



- 40-Minute Vial D11232 Includes screws
- 20-Minute Vial D11233 Includes screws
- 8-Minute Vial D11234 Includes screws

Bipod & Tripod Accessories



- ▶ The Rodrest is a self-retracting 'kickstand' for survey rods
- ▶ It's activated by simply pushing down a few inches on the handle
- ▶ Weighs 0.70 kg

5214-01 — 3.175-cm OD (shown)
5214-02 — 2.54-cm OD

- ▶ This lightweight bipod is used to keep a GPS or robotic pole off the ground when not in use
- ▶ Weighs 0.41 kg



5217-15-ABK — 30.48 cm Open Clamp Bipod

- ▶ This bipod features a special head that will hold a rectangular rod
- ▶ The head will fit rods with widths between 3.99 and 6.50 centimeters



5217-21-FOR — Barcode Leveling Rod 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 extend to 1.8 m for use in uneven terrain
- ▶ Collapses to 109 cm
- ▶ Weighs 1.81 kg



5219-05 — Carbon Fiber Thumb Release Tripod

- ▶ 'Direct Drive' Quick-Release handles put the power and action right where you need it
- ▶ Quick set up and break down
- ▶ Features a simple but positive mechanical design with easy-to-adjust locking tension
- ▶ Open clamp head with stainless steel clamp screw
- ▶ Fits 2.54, 3.18 and 3.81 cm diameter poles
- ▶ Weighs 1.86 kg



5211-01-FLY — Quick-Release Prism Pole Bipod

- ▶ A surveyor can set up a free-standing GPS antenna pole or prism pole
- ▶ 25.4-to-31.8-mm OD poles attach easily through the open clamp
- ▶ 3.81 cm OD poles can be loaded through the top
- ▶ The legs (independently) extend to 1.8 m and collapse to 109 cm
- ▶ Available colors: yellow and flo yellow
- ▶ Weighs 1.93 kg



5217-04-YEL — Original Thumb Release Bipod (Shown)
5217-40-FLY — Basic Plus Version - Flo Yellow (Shown)
5217-40-YEL — Basic Plus Version - Yellow

- ▶ The Mini Bipod utilizes the same design concepts as the popular 5217-04 bipod, it's just shorter
- ▶ 25.4-to-31.8-mm diameter poles attach easily through the open clamp. 3.81 cm OD poles can be loaded through the top
- ▶ It collapses to 63.5 cm and extends to 88.9 cm
- ▶ The 5217-30 leg clip is included
- ▶ Available colors: yellow, flo yellow, and flo orange
- ▶ Weighs 1.6 kg



5217-05-FOR — Thumb Release Mini Bipod
5217-05-FLY — Thumb Release Mini Bipod
5217-05-YEL — Thumb Release Mini Bipod (shown)

- ▶ The Thumb-Release™ Tripods create free-standing GPS antenna poles or prism poles
- ▶ The tripods feature large, smooth, thumb release buttons
- ▶ The thumb lock design allows adjustment of tension without disassembly of the leg
- ▶ The universal head will accommodate poles from 25-to-38-mm diameter
- ▶ The tripod is constructed of powder-coated aluminum
- ▶ The legs extend to 1.8 meters for use in rugged terrain
- ▶ Weighs 2.3 kg



5218-02-FLY — Thumb Release Tripod - Flo Yellow
5218-40-RED — Thumb Release Tripod

- ▶ Carbon fiber Thumb Release Bipod uses the same design concepts as the famous SECO aluminum Thumb Release Bipod, but weighs less
- ▶ 25.4-to-31.8 mm diameter poles attach easily through the open clamp
- ▶ 3.81 cm OD poles can be loaded through the top
- ▶ Legs (independently) extend to 1.8 m and collapse to 109 cm
- ▶ Weighs 1.86 kg



5219-03 — Carbon Fiber Thumb Release Bipod

- ▶ Perfect for setup on difficult terrain
- ▶ Dual leg hinges move in two directions
- ▶ Sets up fast on rocky steep slopes, construction sites or industrial sites
- ▶ The push button thumb release kegs are the same as original open clamp tripod
- ▶ Legs collapse to 109.22 cm and extend to 182.88 cm
- ▶ The Dual Hinge Bipod attaches to the pole with the original standard open clamp
- ▶ Yellow Hardware
- ▶ Weighs 1.90 kg



5217-57-YEL — Dual Hinge Bipod

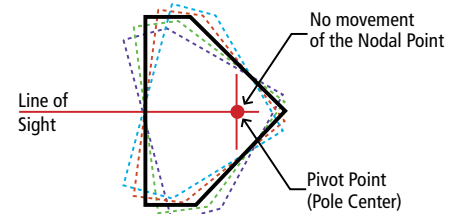
PRISM Basics

Prism Offsets

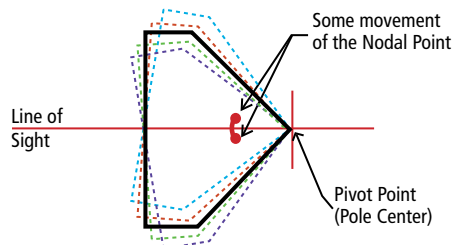
- ▶ Corner cube prisms (or retroreflectors) used with electronic distance measuring (EDM) instruments have an offset due to the fact that the transmitted light beam from the EDM takes longer to enter and exit the prism. This longer time translates to a longer distance measured. This distance is corrected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

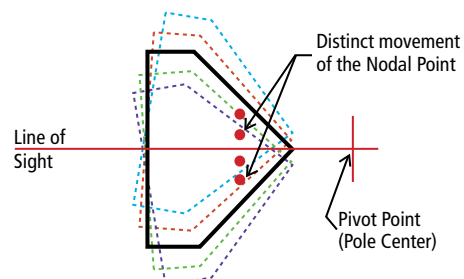
- ▶ A nodal offset is defined by the relationship of the prism holder and prism that places the optical center of the prism on the plumb line of the holder. This offset is the most advantageous at close range work when the apex or center of the prism is used as a pointing target for vertical and horizontal 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 <math>< 5</math> 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.



58-mm Prism Assembly

Polypropylene canister



FEATURES & BENEFITS

- ▶ The accuracy of the 58 mm prism is <5 arc seconds and is silver coated to protect against moisture, fogging and severe climatic conditions
- ▶ 11.43 x 11.43 cm tilting target
- ▶ The 2050 prism canister, holder, yoke and locking target assembly are manufactured in the United States and have a limited lifetime warranty
- ▶ Rugged polypropylene prism canister with brass M20 thread is highly impact resistant
- ▶ Dual-sided targets have -30 mm and 0 mm offsets, the height of the tilting axis is 115 mm
- ▶ High quality aluminum, stainless steel and brass target and yoke assembly
- ▶ Easy-to-use twist knob tilting target lock
- ▶ Fits standard 5/8 x 11 prism poles, adapters, etc
- ▶ Available in three high visibility powder coated colors: yellow, fluorescent orange, and fluorescent yellow
- ▶ Weighs 0.68 kg

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
2050-YLB	Yellow with Black	11.43 x 11.43 cm
2050-FLB	Flo Yellow with Black	11.43 x 11.43 cm
2050-FOB	Flo Orange with Black	11.43 x 11.43 cm

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)
- ▶ Prism has <5 arc seconds angle deviation
- ▶ The adjustable (and reversible) tilt target has a sighting collimator for precise pointing and has 0, -30, and -40 offsets
- ▶ The kit comes with a rotating tribrach adapter (#2153-10-GRY) that is compatible with all prisms with a 24.9-mm bayonet base
- ▶ Features a 2.5x twist focus optical plummet and a 60-second adjustable plate vial
- ▶ The adapter has a precision machined axis that rotates 360 degrees
- ▶ The height is 100-to-120 mm and over the point accuracy is 0.5 mm at 1.5 m
- ▶ Also included is a tribrach (#2153-04-GRY) which features three screw-leveling with center line, an 8-minute circular vial, and 5/8 x 11 base thread
- ▶ This kit is also available without a prism (#2159-00)
- ▶ Includes hard shell case
- ▶ Weighs 4.51 kg

APPLICATIONS

- ▶ Ideal for precise backsight surveying applications

2159-01-GRY — Traverse Kit Single Prism (shown)
 2159-02-GRY — Traverse Kit Triple Prism

2159-03-BLK Traverse Kit for 196 mm Heights

Perfect companion for Trimble® or Spectra Precision Total Stations



FEATURES & BENEFITS

- ▶ SECO's Traverse Kit is 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
- ▶ This traverse or precise back sight kit includes a 62 mm prism assembly (#6402-22-YLB) with a <math><5</math> arc seconds angle deviation and a silver-coated canister to resist fogging
- ▶ The adjustable tilt target has 0 or -30 offsets
- ▶ This kit comes with a rotating tribrach adapter (#2153-10-BLK) with a 2.5X twist focus optical plummet and a 60-second adjustable plate vial
- ▶ The adapter has a precision machined axis that rotates 360 degrees
- ▶ Over the point accuracy is 0.5 mm at 1.5 m
- ▶ Also included is European-made tribrach (#2153-06-BLK) which features three-screw-leveling with center line, an 8-minute circular vial, and 5/8 x 11 base thread
- ▶ This kit comes with a bright orange, hard shell carrying case (#2159-050) with high density foam inserts, nickel plated latches and backpack straps
- ▶ Weighs 4.51 kg

APPLICATIONS

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

2159-04-BLK Traverse Kit for 155 mm Heights

Perfect companion for Nikon Nivo Total Stations



FEATURES & BENEFITS

- ▶ Preset to a 155 mm height making it compatible with Nikon NIVO™ Series Total Stations
- ▶ Kit includes a 62 mm prism assembly (#6402-04-YLB) with a <math><5</math> arc seconds angle deviation and a silver-coated prism to resist fogging
- ▶ The adjustable tilt target has 0 or -30 offsets
- ▶ Comes with a rotating tribrach adapter (#2153-11-BLK) with a 2.5X pull focus optical plummet and a 60-second adjustable plate vial
- ▶ Adapter has a precision machined axis that rotates 360 degrees
- ▶ Over the point accuracy is 0.5 mm at 1.5 m
- ▶ Also included is a (#2153-04-BLK) 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)
- ▶ Case features high density foam inserts, nickel plated latches and backpack straps
- ▶ Weighs 4.51 kg

APPLICATIONS

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

Euro-Style Pole System

Lightweight and portable, pin pole kits are perfect for topos or layout work



FEATURES & BENEFITS

- ▶ This system is ideal for all handheld prism work, topos or precise layout work; it can be assembled in various configurations
- ▶ It's available with the most accurate offset position (0, -30 mm, -17.5 mm — nodal, or -34 mm)
- ▶ All anodized aluminum section lengths are known 30 cm
- ▶ 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)
- ▶ An orange Cordura® carrying case is also included
- ▶ Weighs 0.73 kg

5910-01-ARD — Euro-Style Pole System (0,-30 mm)

5910-02-ARD — Euro-Style Pole System (-17.5 mm - Nodal)

5910-03-ARD — Euro-Style Pole System (-34 mm)

APPLICATIONS

- ▶ All handheld prism work
- ▶ Topos or precise layout work
- ▶ Can be assembled in various configurations

5910-06 Sliding Prism and Sectional Pole Kit

Lightweight and portable, pin pole kits are perfect for topos or layout work



FEATURES & BENEFITS

- ▶ Prism assembly slides up and down the pin pole
- ▶ It features a 25 mm, 0 offset silver-coated prism and a high quality aluminum holder
- ▶ The site cones double as locks
- ▶ The prism has a 40-minute adjustable vial
- ▶ The kit includes four 30.5 cm pole sections each with a 15.24-cm mark
- ▶ 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 0.63 kg

APPLICATIONS

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

Sliding Mini Prism Kit

Lightweight and portable, pin pole kits are perfect for topos or layout work



FEATURES & BENEFITS

- ▶ The prism holders allow 'non-zero' prism offsets to 'slide' and are available in -17.5 mm or -30 mm offsets
- ▶ Equipped with a 25 mm silver-coated mini prism and height scales built into the holder frames
- ▶ Sliding range of 15 cm
- ▶ Mini prism assembly can be removed and used normally for other jobs
- ▶ Three 30 cm extensions and one 15 cm extension are included
- ▶ Features stainless steel points and 20-minute adjustable circular vials
- ▶ Precision machined from aluminum and stainless steel parts
- ▶ A 5/8 x 11 adapter for use with tribrachs or poles is included
- ▶ System Bag included
- ▶ Weighs 1.4 kg

5910-07M — Sliding Mini Prism Kit - Metric, -17.5 Offset (shown)

5910-08M — Sliding Mini Prism Kit - Metric, -30 Offset

APPLICATIONS

- ▶ Ideal for precision construction or industrial measurements

5910-20 Sliding 360° Prism Kit

Lightweight and portable, pin pole kits are perfect for topos or layout work



FEATURES & BENEFITS

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

APPLICATIONS

- ▶ Topos or precise layout work

6020-01 25 mm Prism

Perfect replacement for 25-mm assemblies



FEATURES & BENEFITS

- ▶ Copper-coated 25-mm prism in a canister
- ▶ Weighs 0.03 kg

APPLICATIONS

- ▶ Land surveying

Mini Prism System

Standard or nodal offset prisms



FEATURES & BENEFITS

- ▶ Here's a versatile prism system in a small package
- ▶ The assembly features a 25 mm copper-coated prism, for fog prevention, a tilting holder, with friction axis, zero or -30 mm offset
- ▶ It's powder painted Fluorescent Orange
- ▶ Includes a 40-min adjustable circular center or side mounted vial
- ▶ This assembly can mounted on a Prism pole or tribrach at three heights: 70 mm, 100 mm, 115 mm, or can be hand-held using the plumb bob bracket or with S-hook for quick attachment to plumb bob
- ▶ Also included a point for stake-out work, and a system bag with belt loop
- ▶ Weighs 0.15 kg

APPLICATIONS

- ▶ Land surveying

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

6375-00-FLY Tilting Single Prism Holder

Build your own custom prism system



FEATURES & BENEFITS

- ▶ The prism holder is constructed from durable aluminum with a rugged, corrosion-proof electrostatic powder paint coating
- ▶ The holder will accept screw-in prisms and has zero and -30 mm offsets
- ▶ Height from base of prism to center of glass: 115 mm
- ▶ Color: Flo Yellow
- ▶ Weighs 0.49 kg

APPLICATIONS

- ▶ Land surveying

6341-00 Tilting Triple Prism Assembly

Complete system is perfect for longer distances



FEATURES & BENEFITS

- ▶ This unit is made from orange polycarbonate with metal inserts and an aluminum yoke
- ▶ It holds one to three prisms, is compatible with most screw-in prisms, and has a 0 and -30-mm prism offset
- ▶ It has a peep sight for pointing the holder, perfect for longer distances
- ▶ The H.T. is 97 mm
- ▶ It comes with three sealed copper 62-mm prisms in black canisters (#6411-02-BLK)
- ▶ Weighs 1.23 kg

APPLICATIONS

- ▶ Land surveying

6400-00 Eclipse™ — 62-mm Nodal Point Prism Assembly

Can be offset to -40 mm



NODAL POINT

FEATURES & BENEFITS

- ▶ The Eclipse™ prism assembly features a water-resistant, nitrogen-charged, 62-mm prism canister and reversible target
- ▶ It can be set at a -40 mm, which offers optimal angle measurements, even when tilting in either the horizontal or the vertical axis

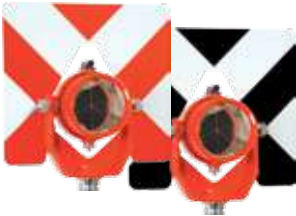
- ▶ A 30-mm adapter is included
- ▶ The height to center of glass: 115 mm
- ▶ Weighs 0.52 kg

APPLICATIONS

- ▶ Land surveying

6400-10 — 62-mm Nodal Point Prism Assembly

Can be offset to -40 mm



NODAL POINT

FEATURES & BENEFITS

- ▶ This assembly features three prism offset positions, 0, -30 and -40 (nodal)
- ▶ The 62-mm prism is silver coated and has a <5-second accuracy
- ▶ The reversible target comes in orange & white and black & white

- ▶ The height to center of glass: 100 mm
- ▶ Weighs 0.66 kg

APPLICATIONS

- ▶ Land surveying

Robotic Prism Assembly

Copper-coated 35 mm prisms



FEATURES & BENEFITS

- ▶ The SECO 360° Robotic Prism Assembly includes six 35-mm prisms, copper-coated for moisture prevention

- ▶ Protective urethane bumper in yellow
- ▶ 0 offset
- ▶ Weighs 0.8 kg

APPLICATIONS

- ▶ Robotics

PART NO.

PRISM HEIGHT

DESIGNED FOR

6401-00-YEL

77 mm

Topcon

6401-03-YEL

135 mm

Spectra Precision

6401-10 Prism Assembly

Light weight 360° robotics solution



FEATURES & BENEFITS

- ▶ SECO's Omnidirectional 360° Prism Assembly consists of six copper-coated prisms bonded together
- ▶ A strong metal core with rubber bumpers on top and bottom help keep the prisms safe
- ▶ The assembly features a quick-release push-button connection

- ▶ The height to center is 86 mm
- ▶ The offset is +23 mm for Leica users and -11 mm for non-Leica users
- ▶ Includes a carrying bag
- ▶ Weighs 0.61 kg

APPLICATIONS

- ▶ Robotics

Front Locking 62-mm Premier Prism Assembly

Durable, yet light, 18-gauge steel construction



FEATURES & BENEFITS

- ▶ Features a 62 mm copper-coated canister prism
- ▶ Waterproof
- ▶ M20 universal mounting thread
- ▶ Tilting holder is anodized aluminum and features an improved locking clamp screw design and an 18-gauge steel target
- ▶ Can be mounted in either 0 or -30-mm offset positions
- ▶ Tilting axis height is 115 mm
- ▶ The 6402-02 weighs 0.79 kg
- ▶ The 6422-02 weighs 0.72 kg

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
6402-02-FLB	Flo Yellow with Black	15.24 x 22.86 cm
6402-02-FOB	Flo Orange with Black	15.24 x 22.86 cm
6402-02-YLB	Yellow with Black	15.24 x 22.86 cm
6422-02-FLB	Flo Yellow with Black	13.97 x 17.78 cm
6422-02-YLB	Yellow with Black	13.97 x 17.78 cm

Silver-Coated 62 mm Premier Prism Assembly

Silver-coated canister, rear locking



FEATURES & BENEFITS

- ▶ The 62 mm silver-coated prism is encased in a heavy-duty canister with M20 threads
- ▶ Features a prism accuracy of <5 seconds and a -35 mm offset
- ▶ The mounting base features standard female 5/8 x 11 threads
- ▶ The tilting holder is constructed of anodized aluminum
- ▶ The height of the prism in the holder is 100 mm
- ▶ Weighs 0.80 kg

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
6402-05-FLB	Flo Yellow with Black	15.24 x 22.86 cm
6402-05-FOB	Flo Orange with Black	15.24 x 22.86 cm
6402-05-FOW	Flo Orange with White	15.24 x 22.86 cm
6402-05-YLB	Yellow with Black	15.24 x 22.86 cm

Rear Locking 62 mm Prism Assembly

Offsets for Nikon, Topcon and Sokkia users



FEATURES & BENEFITS

- ▶ The 0 and -30 mm offsets enable the Premier Prism Assembly to be used with Nikon, Topcon, Sokkia and other total stations
- ▶ The 62 mm copper-coated prism is encased in a heavy-duty canister with M20 threads
- ▶ Features a prism accuracy of <5 seconds
- ▶ The mounting base features standard female 5/8 x 11 threads
- ▶ The tilting holder is constructed of anodized aluminum
- ▶ The height of the prism in the holder is 100 mm
- ▶ Weighs 0.80 kg

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
6402-06-FLB	Flo Yellow with Black	15.24 x 22.86 cm
6402-06-FOB	Flo Orange with Black	15.24 x 22.86 cm
6402-06-FOW	Flo Orange with White	15.24 x 22.86 cm
6402-06-WOR	White with Orange	15.24 x 22.86 cm
6402-06-YLB	Yellow with Black	15.24 x 22.86 cm

Rear Locking 62 mm Premier Prism Holder and Target

Build your own assembly with this target and yoke



FEATURES & BENEFITS

- ▶ Features a M20 universal mounting thread and the tilting axis height is 115 mm
- ▶ A prism can be mounted in either 0 or -30-mm offset positions
- ▶ Weighs 0.62 kg

APPLICATIONS

- ▶ Land surveying

PART NO.	TARGET COLOR	TARGET SIZE
6402-10-050-FLB	Flo Yellow with Black	13.97 x 17.78 cm
6402-10-050-FOB	Flo Orange with Black	13.97 x 17.78 cm

6402-10 62-mm Prism Assembly

Standard or nodal offset prisms



FEATURES & BENEFITS

- ▶ The Standard Prism Assembly features a copper-coated, canister type 62-mm prism, simple but proven locking and 13.97 x 17.78 cm target
- ▶ It's waterproof, has a M20 universal mounting thread and the tilting axis height is 115 mm
- ▶ The prism can be mounted in either 0 or -30-mm offset positions
- ▶ Weighs 0.62 kg

APPLICATIONS

- ▶ Land surveying

6402-10-FOB — Flo Orange with Black (shown)
6402-10-YLB — Yellow with Black

25-mm Stakeout Prism Assembly

Standard or nodal offset prisms



FEATURES & BENEFITS

- ▶ This 25-mm, copper-coated prism features aluminum double yoke construction w/tilting coaxial target
- ▶ Two on-board 130-minute vials — top and bottom
- ▶ Includes replaceable plumb bob point
- ▶ 0 and -30 mm Offset
- ▶ Weighs 0.28 kg

APPLICATIONS

- ▶ Land surveying

6405-01-FOR — 25 mm Stakeout Prism Assembly (0 and -30 mm Offset) - Flo Orange
6405-01-FLY — 25 mm Stakeout Prism Assembly (0 and -30 mm Offset) - Flo Yellow

Mini Stakeout Prism w/ Site Cones

Standard or nodal offset prisms



FEATURES & BENEFITS

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

APPLICATIONS

- ▶ Land surveying

6405-10-FOR — 0 and -30 Offset (shown)
6405-12-FOR — 17.5 Nodal Offset

6405-11-FOR — Stakeout Mini Prism Kit

Standard or nodal offset prisms



FEATURES & BENEFITS

- ▶ The white site cones on X and Y axis of the assembly help improve centering of your instrument's crosshairs for vertical and horizontal pointing
- ▶ Can be used in four height configurations: 50 mm, 100 mm, 115 mm and 150 mm, top or bottom of the pole, handheld, or tribrach mounted
- ▶ Weighs 0.36 kg, 0.59 kg with heavy-duty point

APPLICATIONS

- ▶ Land surveying

6406-00 — 62-mm Nodal Point Prism Assembly

Works with GPH1 Swiss-style prism poles or adapters



FEATURES & BENEFITS

- ▶ This high-quality GPH1 Swiss-style prism assembly features a copper-coated prism for consistent results and a removable target
- ▶ It has a -34 mm-offset prism and an 86-mm 'HT'
- ▶ Weighs 0.42 kg

APPLICATIONS

- ▶ Land surveying

Prism Assembly Components

Customize your own prism solution



- ▶ Features <5-second accuracy

6411-00 — 62-mm Nitrogen Filled Prism with Hermetically Sealed Canister



- ▶ Features <5-second accuracy

6411-02-BLK — 62-mm Copper-Coated Prism with 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 Prism with Heavy-Duty Sealed Canister



- ▶ Features 0.5-second flash

6416-00 — 62-mm Silver-Coated Strobe Prism

6440-00-FOR — Single Prism Tilting Assembly

Simple and easy-to-use prism solution



FEATURES & BENEFITS

- ▶ This aluminum -30 mm offset prism holder (#6375-00-FOR) is sealed with a rugged corrosion-proof electrostatic fluorescent orange powder paint coating
- ▶ Includes copper-coated (#6411-02) prism
- ▶ Weighs 0.68 kg

APPLICATIONS

- ▶ Land surveying

6450-00-BLK — Tilting Mini Prism System

Standard or nodal offset prisms

**FEATURES & BENEFITS**

- ▶ The Eclipse™ mini system includes:
 - ▶ Mini Tilting Prism (#6451-00-BLK); plumb bob attachment; Mini Bob Prism Mount (#6453-00); Point (#6220-00), and Belt Case (#8022-00-CABLU)
- ▶ Hardware included is Black
- ▶ Case included is Blue
- ▶ Weighs 0.14 kg

APPLICATIONS

- ▶ Land surveying

6600-02 — 25-mm 'L-Bar' Mini Prism

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

**FEATURES & BENEFITS**

- ▶ deformation or mining surveys, or places where a permanent mounting is needed
- ▶ This assembly is constructed of anodized aluminum and the prism is water and dust proof
- ▶ It features a -25 mm offset and comes with 10.3-mm ID mounting hole
- ▶ Weighs 0.20 kg

APPLICATIONS

- ▶ Mining, tunneling and deformation

Small Tilting Mini Prism

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

**FEATURES & BENEFITS**

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

APPLICATIONS

- ▶ Mining, tunneling and deformation

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

6600-05 25 mm L-Bar Mini Prism

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

**FEATURES & BENEFITS**

- ▶ The simple design makes mounting and pointing simple
- ▶ This assembly features a black anodized aluminum holder
- ▶ The 25 mm silver-coated prism is permanently bonded to the holder making it water and dust proof
- ▶ The mounting hole is 10.3 mm in diameter
- ▶ The tilting screw uses an 8 mm hex wrench to loosen and tighten it
- ▶ -25 mm offset
- ▶ Weighs 0.20 kg

APPLICATIONS

- ▶ Mining, tunneling and deformation

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

Lightweight and portable, pin pole kits are perfect for topos or layout work



FEATURES & BENEFITS

- ▶ The 25-mm sliding prism system features a silver-coated prism and 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
- ▶ An adjustable 40-minute circular vial is built in to the prism holder
- ▶ The 12.2-mm OD pin pole features three sections - each 60-cm in length to achieve 1.8 m; each color section (red or white) is 10 cm in length
- ▶ 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 0.9 kg

APPLICATIONS

- ▶ Topos or layout work

The 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 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
- ▶ Components available individually so you can configure your specific needs
- ▶ The flat bottom of the L-Bracket is a large 5.84 x 8.64 cm with five holes for mounting to a variety of surfaces
- ▶ Center pivot hole is 9.5 mm, the four screw holes are 4.5 mm OD
- ▶ Features include a -40 mm offset, ± 2 mm, ability to pivot in two axes, stainless-steel locking
- ▶ The system is compatible with all M20 screw-in type prism canisters
- ▶ System weighs 0.7 kg

APPLICATIONS

- ▶ Mining, tunneling and deformation

6603-00 — Complete Walleye™ Prism System with 6411-03-BLK Prism and 5/8 x 11 Adapter

6603-01 — Complete Walleye™ Prism System with 6411-03-BLK Prism and M8 Adapter

6603-00-050 — L-Bracket Assembly Only

6603-00-050-TMB — Rain Hood Only

6603-00-051 — 5/8 x 11 Adapter with Screw and Washer

6603-01-051 — M8 Adapter with Screw and Washer

Tribrachs & Adapters

- ▶ Use for checking and adjusting optical plummet tribrachs in the office
- ▶ Precision-machined, black anodized aluminum
- ▶ Weighs 0.32 kg



2001-00 — Tribrach Adjusting Cylinder

- ▶ Use for adjusting optical plummet tribrachs and tribrach bubbles
- ▶ The machined black anodized aluminum features a 2-minute bubble
- ▶ Weighs 0.59 kg



2002-00 — Tribrach Adjuster

- ▶ Use this adapter for mounting retro prisms and tripod mounted target systems
- ▶ Fits all tribrachs
- ▶ Weighs 0.23 kg



2100-00 — Fixed Tribrach Adapter

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



2200-00 — Rotating Tribrach Adjuster

- ▶ This adapts retro prisms to Swiss style tribrachs and has a removable Zeiss plug and locking screw
- ▶ Fits all tribrachs
- ▶ Weighs 0.8 kg



2070-00 — Rotating Tribrach Adapter

- ▶ Allows instruments that have a 1/4 x 20 female thread pattern to attach to accessories (tripods) that have 5/8 x 11 studs



7230-02 — Rotating Adapter

- ▶ These high-quality tribrachs are available with or without an optical plummet
- ▶ The #2152-05-BLK and #2152-06-BLK with optical plummet, feature 2X magnification and a twist focus
- ▶ The #2153-05-BLK and #2153-06-BLK are high-precision tribrachs designed to work with all total stations including the Trimble® S6 Robotic Total Station
- ▶ The reticule is composed of two small concentric circles
- ▶ With a sighting distance of 0.3 m (0.35 m for #2152-06-BLK) to 15 m
- ▶ The tribrach have an accuracy of 0.5 mm per 1.5 m



- 2152-05-BLK — European-Style Tribrachs (With Optical Plummet)**
- 2152-06-BLK — European-Style Tribrachs (Plummet, High Precision <3 cc hysteresis)**
- 2153-05-BLK — European-Style Tribrachs (Without Optical Plummet)**
- 2153-06-BLK — European-Style Tribrachs (No Plummet, High Precision <3 cc hysteresis)**

- ▶ The removable 5/8 x 11 center fits Zeiss-Wild tribrachs
- ▶ Fits adapter 2070-00



2070-002 — Zeiss-Wild Rotating Removable Center Plug

- ▶ 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 Panasonic lithium battery
- ▶ Weighs 0.75 kg



2153-02-BLK — Laser Tribrach

- ▶ 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
- ▶ This tribrach has a focusing range of 0.5 to 15 m
- ▶ Hardware color is Black
- ▶ Weighs 0.84 kg



2152-04-BLK — Tribrach with Optical Plummet



- ▶ This Tribrach Adapter is for traversing or precise setups
- ▶ The optical plummet is twist-focus with 2.5X magnification
- ▶ It has a 60-second adjustable plate vial
- ▶ The precision-machined axis rotates 360 degrees
- ▶ This adapter is compatible with all prisms with a 24.9 mm bayonet base
- ▶ The adjustable height is 100 mm-to-120 mm — fits all standard three-prong tribrachs
- ▶ The over point accuracy is 0.5 mm at 1.5 m
- ▶ Available colors are black and grey
- ▶ Weighs 0.77 kg

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



2153-10-050 Male 5/8 x 11 Adapter **2153-10-051 Quick Release Adapter**

GPS Bracket for Truck Door

Expands vertically from 119.38 to 154.94 centimeters to fit most trucks or SUVs



FEATURES & BENEFITS

- ▶ This bracket holds a GPS pole to the door of your survey truck
- ▶ The bracket is easy to put on and take off and features a non-damaging mount
- ▶ It utilizes a safety strap under tension to keep it on the door
- ▶ The bracket fits most midsize to full-size trucks, and SUVs
- ▶ The door opens and closes with the bracket attached to the door
- ▶ The bracket holds all GPS- and RTK-type poles
- ▶ Brackets are available to hold controller inside the cab (#5199)
- ▶ The GPS Truck Door Bracket is not designed to be used at highway speeds
- ▶ Weighs 2.8 kg

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

APPLICATIONS

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

5199-76 Vehicle Bracket

Use with a TSC3™ controller/collector and the GPS Truck Door Bracket above



FEATURES & BENEFITS

- ▶ Designed for TSC3™ to hold your collector or controller inside the cab of your survey vehicle
- ▶ Use it in conjunction with the 5114-20-FLY from the comfort of the cab
- ▶ The suction cup mount will grip any clean glass or slick surface
- ▶ A two-hole base mount is also included for use as an option to the suction cup mount for a more permanent solution
- ▶ Uses the new Claw™ cradle system which prevents damage that may be caused by over-tightening
- ▶ Weighs 0.4 kg

APPLICATIONS

- ▶ Use with vehicle GPS applications

UTV Roll Cage Transporter for GPS Rods

Easy set-up or disassembly in 10 minutes or less



FEATURES & BENEFITS

- ▶ The RUXWORKS GPS Rod Transporter™ fits all popular UTVs
- ▶ Model #5114-40-01 fits UTVs with tubular roll cages up to 5.08 cm like the Kubota® RTV 900, Yamaha Rhino, Kawasaki Mule™ and the Polaris® Ranger™
- ▶ Model #5114-40-02 fits UTVs with rectangular roll cages up to 05.80 x 10.16 cm like the Arctic Cat® Prowler Series
- ▶ This GPS Rod Transporter™ mounts easily to either side and installs in 10 minutes or less
- ▶ The UTV bracket has up to 30° of tilt to set your rover rod plumb
- ▶ It has a rod clamp that fits all popular rover rods and poles with points and or topo shoes up to a 6.35-cm diameter and has a secure, non-marring quick release design
- ▶ The UTV bracket can stay permanently attached to the UTV
- ▶ The pole clamp section is 160.02 cm long and disassembles quickly from the UTV bracket with two quick release pins or two bolts
- ▶ Weighs 6.80 kg

APPLICATIONS

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

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

Standard GPS / MC Collapsible Tripods

Large telescoping legs



FEATURES & BENEFITS

- ▶ This tripod features a collapsible center staff with a twist-locking mechanism that rotates 360 degrees for calibrating the 8-minute vial
- ▶ Features also include quick release and twist-locking on the legs
- ▶ Collapses to 127 cm
- ▶ Other features include a removable 5/8 x 11 adapter, and an on-board compass
- ▶ The extendable tripod legs and the pole are electrostatically powder painted and include replaceable points
- ▶ The aluminum hardware is anodized black for long life
- ▶ Suitable for both GPS and machine control applications

APPLICATIONS

- ▶ GPS antenna platform
- ▶ Robotics

PART NO.	ROTATES	LOCKING	VIAL	CENTER LOCKING	COLOR	WEIGHS
5119-00-FLY	360 degrees	twist and QR locks	8-minute bubble	1.5, 1.8, 2 m	Flo Yellow	6.8 kg
5119-00-FOR	360 degrees	twist and QR locks	8-minute bubble	1.5, 1.8, 2 m	Flo Orange	6.8 kg

Heavy-Duty GPS / MC Adjustable Tripod

Large telescoping legs



FEATURES & BENEFITS

- ▶ This heavy-duty tripod features a 15.24-cm-OD round head which easily holds lasers or robots
- ▶ The large telescoping legs (3.18- to 3.8-cm diameters) feature adjustable handle bolts on the leg pivots creating greater stability
- ▶ No tools are needed to set the leg pivot tension
- ▶ Suitable for both GPS and machine control applications

APPLICATIONS

- ▶ GPS antenna platform
- ▶ Robotics

PART NO.	ROTATES	LOCKING	VIAL	HEIGHT	COLOR	WEIGHS
5119-10-FLY	360 degrees	twist lock	8-minute bubble	1.40 - 2 m	Flo Yellow	9.07 kg
5119-10-YEL	360 degrees	twist lock	8-minute bubble	1.40 - 2 m	Yellow	9.07 kg

2072-40 GPS Antenna Platform

Stable platform, perfect for temporary placement



FEATURES & BENEFITS

- ▶ The platform creates a very stable setup using standard cinder blocks (not included) as weights - sand bags may also be used
- ▶ It is ideal for network reference station installers who want to evaluate a site for multipath before committing to the installation
- ▶ The platform can be used for private network sites where the building owner does not want any permanent attachment to their building
- ▶ The mast is 91.44 cm long with standard pipe threads
- ▶ Sections can be added for more height
- ▶ It comes with removable 5/8 x 11 adapter

- ▶ This platform folds up for portability and includes tools and a system carrying bag
- ▶ Platform sections hold 20.32 x 40.64 cm cinder blocks
- ▶ Weighs (without blocks) 11.34 kg

APPLICATIONS

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

Two-Piece GPS Rover Rods

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



FEATURES & BENEFITS

- ▶ The two-piece rover rods come in aluminum and have 5/8 x 11 fixed tips
- ▶ Features include a 40-minute circular vial, vinyl hand-grip, and replaceable steel point

APPLICATIONS

- ▶ Kinematic surveys

PART NO.	GRADS	SECTIONS	CABLE SLOT	OUTER GRADS	LENGTH	COLOR	WEIGHS
5125-00-FLY	Metric	2	No	Optional	2 meters	Flo Yellow	1.36 kg
5125-00-YEL	Metric	2	No	Optional	2 meters	Yellow	1.36 kg

Snap-Lock Rover Rods

Easy set up



FEATURES & BENEFITS

- ▶ Many find these rover rods are faster to setup and more user-friendly than traditional rods
- ▶ Features include a one-piece design and two locking systems for stability
- ▶ The snap lock prevents slippage and the compression lock centers the telescopic inner pole and maintains straightness
- ▶ Your choice of either lightweight aluminum or carbon fiber rods come with a 40-minute vial
- ▶ Telescoping rods include locking lengths and also have optional metric outer grads

APPLICATIONS

- ▶ Kinematic surveys

PART NO.	POLE	OUTER GRADS	LOCKING LENGTHS	WEIGHS
5125-20-FLY	Aluminum	No	2 m	1.05 kg
5125-20-FLY-GM	Aluminum	Metric	2 m	1.05 kg
5125-20-YEL-GM	Aluminum	Metric	2 m	1.05 kg
5128-20	Carbon Fiber	Metric	2 m	0.73 kg
5128-20-GM	Carbon Fiber	Metric	2 m	0.73 kg
5128-22	Carbon Fiber	No	2, 1.8, 1.6 m	0.73 kg
5128-22-GM	Carbon Fiber	Metric	2, 1.8, 1.6 m	0.73 kg
5128-24	Carbon Fiber	No	1.8, 1.6 m	0.73 kg
5128-24-GM	Carbon Fiber	Metric	1.8, 1.6 m	0.73 kg

Two-Piece Rover Rods

Traditional or with cable management slot



FEATURES & BENEFITS

- ▶ These lightweight two-piece rover rods are perfect for all GPS applications
- ▶ The two-piece rover rods come in aluminum or carbon fiber and feature 5/8 x 11 tips and 40-minute vials
- ▶ Options include a cable management slot and outer pole graduations in metric

APPLICATIONS

- ▶ Kinematic surveys
- ▶ GPS applications

PART NO.	POLE	TIP	CABLE SLOT	OUTER GRADS	LENGTH	WEIGHS
5128-00	Carbon Fiber	5/8 x 11	No	No	2 meters	.64 kg
5128-08	Carbon Fiber	5/8 x 11	Yes	Optional	2 meters	.64 kg
5125-06-FLY	Aluminum	5/8 x 11	Yes	Optional	2 meters	1.36 kg
5125-06-YEL	Aluminum	5/8 x 11	Yes	Optional	2 meters	1.36 kg

Telescoping Carbon Fiber Rover Rods

Carbon fiber rover rods are 30% lighter



FEATURES & BENEFITS

- ▶ These are designed so the GPS surveyor has all the features needed in a single rod, they're ideal for kinematic surveys
- ▶ Zero height (0 H.T.)
- ▶ Carbon fiber makes these rods 30% lighter
- ▶ The included pin can lock the length of the rod at set points
- ▶ TLV™ locks with 40-minute vials are standard

APPLICATIONS

- ▶ Kinematic surveys

PART NO.	GRADUATIONS	LENGTH	PIN LOCKING	WEIGHS
5129-51	Metric - cm	1.4 - 2.5 m	1.8 m, 2 m, 2.2 m	1 kg
5129-71	Metric - cm	1.43 - 3.57 m	Every 20 cm	1.5 kg

Pole Extensions

Aluminum, carbon fiber or fiberglass extensions



FEATURES & BENEFITS

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

APPLICATIONS

- ▶ Extend prism or antenna poles

PART NO.	OUTSIDE DIAMETER	LENGTH	POLE TYPE	WEIGHS
5130-10	32 mm	0.20 meter	Fiberglass	0.15 kg
5143-00-FLY	32 mm	1 meter	Aluminum	0.59 kg
5143-02	32 mm	1 meter	Carbon Fiber	0.32 kg
5143-10	32 mm	1.23 m for Z-Max®	Carbon Fiber	0.48 kg
5144-02	32 mm	50 cm	Carbon Fiber	0.23 kg
5145-00-FLY	32 mm	25 cm	Aluminum	0.41 kg
5145-04	25 mm	20 cm	Carbon Fiber	0.14 kg

Ball-and-Socket Claw™ Combo

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



FEATURES & BENEFITS

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

APPLICATIONS

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

PART NO.	DESCRIPTION
5200-00	TSC2™, Ranger™ 300X, 500X
5200-03	Recon®
5200-09	Nomad™ 800 Series
5200-16	TSC3™ / Ranger3™

Open Clamp Pole Brackets and Cradles

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ This is the original Open Clamp Pole Bracket and Cradle technology designed by SECO
- ▶ These products offer a fast and efficient way to mount data collectors or controllers to antenna poles and rover rods
- ▶ Use a Claw™ Quick-Release cradle or a standard cradle and one of the popular open clamps for a complete solution
- ▶ The aluminum open clamp design features a quick-release button and a stainless steel clamp screw that attaches to the pole
- ▶ Depressing the quick-release button will allow the Claw™ Quick-Release Cradle or standard cradle to rotate in to a comfortable position for reading the data collector or controller
- ▶ Brackets #5198-052, -054, -055, and -056 are designed for standard poles or rods with a 1.91-to-3.18-cm OD
- ▶ These pole brackets and cradles are manufactured from black anodized aluminum

APPLICATIONS

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

PART NO.	DESCRIPTION
5198-052	Bracket: Plain
5198-054	Bracket: With 40-minute Vial
5198-055	Bracket: Compass
5198-056	Bracket: Compass and 40-minute Vial (shown)

5200-15 — Ball-and-Socket Claw™ Combo

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ Claw™ Combo for Leica Viva CS10/CS15 Controllers
- ▶ Designed to limit pressure so over-tightening cannot occur, the Claw™ Pole Clamp fits 3.18-cm poles
- ▶ The cradle is constructed with corrosion-resistant anodized aluminum
- ▶ Its stainless steel clamp screws feature non-jamming coarse threads for easy open and close use
- ▶ Weighs 0.32 kg

APPLICATIONS

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

Ball and Socket Cradle

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ These Claw™ clamps are made of durable anodized aluminum
- ▶ The Claw™ technology allows maximum tightening without crushing
- ▶ The Ball-and-Socket versions allow a collector to be in more positions
- ▶ Customize your own solution with these components
- ▶ Features a 2.54-cm ram ball
- ▶ Weighs 0.09 kg

APPLICATIONS

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

PART NO.	DESCRIPTION
5200-15-050	Leica Viva CS10/CS15
5200-16-050	Designed for: TSC3

Quick-Release Claw™ Components

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

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

APPLICATIONS

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

PART NO.	DESCRIPTION
<i>Quick-Release Cradle</i>	
5200-050	TSC2™, Ranger™ 300X, 500X
5200-052	Allegro, Jett®+ce, Explorer, Tracker, FC-2200
5200-053	Recon®
5200-054	FC-100, Mobile Mapper CE/CX, ProMark™ 3
5200-056	GMS-2, GMS-2 PRO
5200-057	Archer®, Leica DX10, Carlson Mini, Javad Victor
5200-058	FC-120, QR, FC-200
5200-059	Nomad™ 800 Series
5200-060	GeoCE™, XH™, XT™, XM™
5200-061	Workabout Pro
5200-062	Carlson Surveyor, Surveyor+
5200-063	FC-2500
5200-064	Geo 6000
5200-065	TSC3™ / Ranger3™
5200-069	FC236/X7, Q/R
<i>Quick-Release Pole Clamp (for 1.25-inch OD poles)</i>	
5200-150	Plain
5200-151	With 40-minute Vial
5200-152	With 20-minute Vial
5200-154	With Compass
5200-155	With 40-minute Vial and Compass (shown)

Claw™ Series — Ball and Socket Pole Clamps

Design your own custom solution with one bracket and one cradle



FEATURES & BENEFITS

- ▶ These Claw™ clamps are also made of durable anodized aluminum
- ▶ The Claw™ technology allows maximum tightening without crushing
- ▶ The Ball-and-Socket versions allow a collector to be in more positions
- ▶ Customize your own solution with these components
- ▶ The clamps are designed to fit a pole diameter of 32 mm
- ▶ Ball-and-Socket Cradle (2.54 cm ram ball, designed for 3.18 cm OD poles)

APPLICATIONS

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

PART NO.	DESCRIPTION
5200-160	Plain with 2.54 cm Ball
5200-161	Bracket: With 40-minute Vial
5200-165	Compass, 40-Minute with 2.54 cm Ball

**5200-17
RTK Pole Bracket**

Designed for Topcon Tesla data collector



FEATURES & BENEFITS

- ▶ SECO's 5200-17 is an RTK pole bracket for use with the new Topcon Tesla™ data collector
- ▶ The bracket connects securely to the Tesla using four easy-to-attach (or remove) thumbscrews
- ▶ The Tesla's battery and all ports are accessible when the 5200-17 is attached
- ▶ A ball-and-socket link allows for nearly unlimited screen positions on the pole
- ▶ The 5200-17 is constructed from anodized aluminum
- ▶ Weighs only 0.36 kg

APPLICATIONS

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

**ADDITIONAL
GPS ACCESSORIES**

- ▶ This adapter adds 76.22 mm to the pole length
- ▶ Use with #5187-00 GPS Quick-Release Adapter
- ▶ Weighs 0.06 kg



5111-00 — GPS Quick-Disconnect Adapter

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



5114-01 — Triple Mag Mount

- ▶ Features a 5/8 x 11 tip and have 8.89-cm diameters
- ▶ Weighs 0.42 kg



5114-050 — Single Mag Mount

- ▶ GPS Compass for 3.18 centimeter Diameter Poles



5125-050 — GPS Compass



- ▶ The Big Wheel is perfect for RTK profiling
- ▶ Weighs 1.72 kg



5125-056 — Rover Rod "Big Wheel"

- ▶ The Satellite Stick™ XL is composed of six, 2.54-cm OD carbon fiber sections
- ▶ Collapses to 37.5 cm
- ▶ Weighs 1.09 kg



5126-10 — Satellite Stick™ XL

- ▶ This kit consists of a kit bag which will hold three SECO Tie Rods with twist clamps on the ends
- ▶ Features three metal stakes up to 76.2 centimeters in length and a hammer (stakes and hammer not included)
- ▶ This kit will help secure a tripod in windy conditions
- ▶ Weighs 2.13 kg

5119-010-FLY — GPS Tripod Tie-Down Kit



5119-010-FLY — GPS Tripod Tie-Down Kit

- ▶ The Anodized aluminum adapter features a female 5/8 x 11 with quick release tip
- ▶ Adds 23.8 mm to length of rod
- ▶ Weighs 0.03 kg



5187-00 — GPS Quick-Release Adapter

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

5198-157 — Offset Pole Holder Kit

- ▶ The height pin, with its 1-mm accuracy and dual grads is ideal for measuring antenna heights
- ▶ Measures 201 cm long and only 43 cm when collapsed
- ▶ Weighs 0.14 kg



7751-50 — 2-Meter Height Pin

Receiver Brackets for Laser DE Rods

Metal laser receiver brackets for Laser DE Rods



FEATURES & BENEFITS

- ▶ The high-quality, all-metal bracket fit both the ash/aluminum and aluminum Laser DE Rods
- ▶ Constructed of anodized aluminum and brass, the bracket is designed for years of field service
- ▶ Use with a Laser DE Rod and your laser receiver for quick and accurate elevation readings

APPLICATIONS

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

PART NO.	FOR ROD TYPE	DESIGNED TO FIT
5079-054	All	Laser Alignment Rod-Eye 6
5079-055	All	Spectra Physics 1275 / Apache 34, 44 / Laser Reference R8
5079-056	All	Laser Reference R4, R5, R7
5079-057	All	Laser Alignment Rod-Eye 8, LD 400
5079-058	All	Apache 64 / Laser Alignment Rod-Eye Pro
5079-059	All	Spectra Precision HR500, CR600

7310-10 Lightweight Cut and Fill Rod

Lightweight and easy to use



FEATURES & BENEFITS

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

APPLICATIONS

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

'E' Pattern Builder's Rods

Dual-sided lightweight rod



FEATURES & BENEFITS

- ▶ This rod has a standard 'E' pattern
- ▶ The grads are in centimeters on the front and numbered every 10 cm
- ▶ The height scale is in millimeters on the back
- ▶ This rod comes with a level vial and a case
- ▶ The lightweight aluminum sections are in contrasting white, red and black colors and have round spring-loaded locking buttons

APPLICATIONS

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

PART NO.	LENGTH	GRADUATIONS	WEIGHS
7341-31	3 m	cm	1.1 kg
7341-41	4 m	cm	1.4 kg
7341-51	5 m	cm	1.6 kg

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

APPLICATIONS

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

PART NO.	SECTIONS	LENGTH	GRADUATIONS	WEIGHS
7341-40	4	4 m	5 mm	1.4 kg

Rectangular Series (CR) Leveling Rods

Waterproof and wear-resistant



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



FEATURES & BENEFITS

- ▶ The red section is a 'Cut' value from grade with a range of 0.48 m (1 ft 7 in)
- ▶ The clear lower section is a 'Fill' value from grade with a range of 0.66 m (2 ft 2 in)
- ▶ The rods collapse to 0.81 m (2 ft 8 in) and extend to 1.88 m (6 ft 2 in)
- ▶ End to end the collapsed length is 1.31 m (4 ft 3.50 in)
- ▶ These feature a graduated telescoping bottom section that locks in place with a durable metal clamp screw
- ▶ The sliding laser receiver bracket works with all laser receivers using standard rod clamps
- ▶ Includes carrying case (replacement can be purchased)

APPLICATIONS

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

PART NO.	LENGTH	GRADUATIONS	WEIGHS
92026	4.0 m	'E' metric	2.26 kg
92032	20 ft	inches	3.17 kg
92041	16 ft	10ths	2.72 kg

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 (148.59 centimeter on 7.6 m versions) and a lighter weight
- ▶ It's constructed of strong, rigid fiberglass with reinforcing ribs for added stability
- ▶ The SVR is waterproof and non-conductive
- ▶ A tight locking mechanism features round buttons that resist jamming from sand and dirt
- ▶ Includes a 1/4 x 20 female adapter in top section
- ▶ Also includes carrying case

APPLICATIONS

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

PART NO.	LENGTH	GRADUATIONS	WEIGHS
98013	7.6 m	'E' metric	2.72 kg

Economy Vest

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



FEATURES & BENEFITS

- ▶ Light weight cool mesh
- ▶ Elastic sides and a front Velcro® closure
- ▶ One size fits most
- ▶ 2.54-cm wide reflective stripes
- ▶ Mesh material is trimmed with 6.35-mm wide nylon binding
- ▶ Available in either fluorescent orange or yellow

APPLICATIONS

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

PART NO.	COLOR
8076-01-FLY	Fluorescent Yellow
8076-01-FOR	Fluorescent Orange

Total Station Rucksack

Heavy-duty case for your 400 mm Total Station



FEATURES & BENEFITS

- ▶ The Total Station Rucksack is similar in style to a commercially available lightweight day pack
- ▶ The main compartment features an innovative 'wrap' made of 0.95-cm high-density foam with hook and loop adjustment that securely cradles all total stations (400 mm height)
- ▶ Also features extra pockets and Rhinotek™ bottom
- ▶ Weighs 1.10 kg

APPLICATIONS

- ▶ Keeps your total station safe and secure during transport

8120-30-ORG — Total Station Rucksack - Holds 400 mm T. Station

8121-00-ORG — Top-Loading Total Station Field Case

Heavy-duty case for your Total Station



FEATURES & BENEFITS

- ▶ This case loads from the top
- ▶ Features a Rhinotek™ bottom and durable backpack straps
- ▶ Measures: 35.6 x 22.9 x 17.8 cm*
- ▶ Available in Orange
- ▶ Weighs 2.61 kg

*Measured between the pads

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport

8125-50-ORG Small GIS Backpack

Solutions for every situation



FEATURES & BENEFITS

- ▶ This pack includes a cam-lock antenna pole, adjustable straps, several interior pockets, belt loop straps, rain flap and much more
- ▶ Interior dimensions*: 38.1 x 22.86 x 10.16 cm
- ▶ The pole extends from 41.91 to 92.71-cm
- ▶ Available in Orange
- ▶ Weighs 0.91 kg

*Measured between the pads

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport

Large GIS Backpacks

Solutions for every situation

**FEATURES & BENEFITS**

- ▶ These packs are made of heavy-duty, high-vis polyester
- ▶ This pack, which includes cool mesh and foam back pad, offers a convenient and comfortable way to transport and manage GIS instrumentation
- ▶ Other features include a built-in pocket for CamelBak® or other hydration systems and a protective rain flap round out this pack
- ▶ The packs have adjustable internal pockets; padded, adjustable shoulder straps, and waist belt
- ▶ Interior dimensions: 50.8 x 24.2 x 10.2 cm
- ▶ Weighs 1.27 kg

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

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport

8134-00-ORG
Robotics Backpack

Solutions for every situation

**FEATURES & BENEFITS**

- ▶ This pack features a double-zipped, top-loading station compartment lined with rigid foam padding, two side pockets for cables, and one front battery pocket
- ▶ It has a top rain flap with closure and rain flaps on the side pockets
- ▶ The free-standing aluminum frame keeps the pack upright even when fully loaded
- ▶ It has a comfortable padded belt with lumbar back support system, shoulder straps with all-point adjustment features, and a rubberized carrying handle
- ▶ Also features a Rhinotek™ bottom
- ▶ Interior dimensions: 43.2 x 25.4 x 25.4 cm
- ▶ Exterior dimensions: 62.2 x 38.1 x 40.7 cm
- ▶ Weighs 3.62 kg
- ▶ Holds 18.14 kg

8134-00-ORG — Robotics Backpack, Fluorescent Orange

APPLICATIONS

- ▶ Keeps your equipment safe and secure during transport

BAGS AND CASES

- ▶ This bag is heavily padded for single prisms
- ▶ Measures: 12.7 x 17.8 x 5.1 cm
- ▶ Available in Orange
- ▶ Weighs 0.22 kg



8070-00-ORG — Single Prism Bag

- ▶ This bag is heavily padded for triple prisms
- ▶ Available in Orange
- ▶ Measures (interior*) 22.9 x 17.8 x 5.1 cm
- ▶ Weighs 0.34 kg



8080-00-ORG — Triple Prism Bag

- ▶ For triple prisms and prism targets or tribrachs
- ▶ Measures: 25.4 x 24.1 x 7.7 cm*
- ▶ Available in Orange
- ▶ Weighs 0.48 kg



8081-00-ORG — Jumbo Triple Prism Bag

*Measured between the pads

- ▶ Designed for vertical triple prism assemblies
- ▶ Holds target with tribrach and adapter
- ▶ Measures: 38.1 x 20.3 x 5.1 cm*
- ▶ Available in Orange
- ▶ Weighs 0.66 kg



8130-00-ORG — Tall Triple Prism Bag

*Measured between the pads



- ▶ The Traverse Kit is housed in a bright orange, hard shell carrying case
- ▶ Offered Separately or purchased with the Kit

2159-050 — Hard Shell Carrying Case

- ▶ Holds 84 or 122-cm wood lath
- ▶ Features a hand loop, shoulder strap, and outside pocket
- ▶ 20.3 ID x 86.4 cm
- ▶ Weighs 0.36 kg



8100-00-ORG — Lath Bag

- ▶ 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
- ▶ Available in Orange
- ▶ Weighs 0.57 kg



8150-00-ORG — Tripod Bag

- ▶ This heavy-duty bag holds all major brands of aluminum or wood tripods
- ▶ Made of heavy-duty nylon Cordura® and Rhinotek™
- ▶ Features pull string ties at the top
- ▶ Measures: 132.08 x 20.32 cm OD
- ▶ Available in Orange
- ▶ Weighs 0.84 kg



8150-20-ORG — Tripod Bag

- ▶ This bag holds a 2-meter Snap-Lock pole and bipod or tripod (connected)
- ▶ It's constructed of tough Cordura® material and Rhinotek™ ends
- ▶ Weighs 0.68 kg



8151-02-FLY — Tripod Bag

- ▶ This heavy-duty bag will carry many different brands of tripods, including SECO and Crain Tri-Max®
- ▶ Measures: 121.9 x 20.3 OD cm



8154-11-ORG — Tripod Bag

- ▶ This bag features heavy-duty Cordura® material and Rhinotek™
- ▶ A shoulder strap is included
- ▶ Use with 5119-10 Tripods
- ▶ Measures: 20.32 x 142.24 cm interior diameter
- ▶ Weighs 0.82 kg



8154-12-ORG — Tripod Bag

- ▶ Protect your prism or range pole from dirt and moisture
- ▶ This bag measures 156.21 x 15.24 cm
- ▶ Fits all SECO and Crain poles
- ▶ Available in Orange



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

- ▶ This case is made of durable rotational molded cross linked safety orange polyethylene and comes with a life-time warranty and is UV stable
- ▶ The inside measures: 22.86 x 119.38 cm



8160-30 — Hard Case

- ▶ Protect your range poles from dirt and moisture
- ▶ The bag measures 116.84 x 19.05 cm range pole bag



8170-00-ORG — Range Pole Protective Bag

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



8180-00-ORG — Prism Pole Tripod Bag

- ▶ This bag is designed to carry a prism pole with the tripod attached
- ▶ The bag has a fold-over flap and is made from nylon Cordura® and durable Rhinotek™
- ▶ 19.1 ID x 152 cm
- ▶ Weighs 0.70 kg



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

**4852-11
Laser Tilting Base**

Makes any laser a 'single axis slope laser'



FEATURES & BENEFITS

- ▶ It mounts securely to any 5/8 x 11 instrument or tripod
- ▶ Alignment mark aids in placement
- ▶ The large knobbed tilting drive is spring loaded
- ▶ Attaches in between any laser and tripod combination
- ▶ Features a built-in circular vial
- ▶ The large mounting surface measures 10.16 x 12.7 cm
- ▶ Includes a brass percent scale
- ▶ Constructed of brass and aluminum
- ▶ Weighs 0.89 kg

APPLICATIONS

- ▶ Use with 5/8 x 11 Instruments and Tripods

**4852-14
Batter Board Clamp**

Accessories and components for rotating lasers



FEATURES & BENEFITS

- ▶ It attaches to boards with thicknesses up to 55 mm
- ▶ The mounting plate with its 5/8 x 11 screw can easily be removed when connecting it to a laser or theodolite
- ▶ A nail hole ensures that a theodolite's axis is positioned exactly over the reference point
- ▶ The 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 1.10 kg

APPLICATIONS

- ▶ Perfect for a laser for vertical applications or Theodolites

**4852-15
Column Clamp**

Accessories and components for rotating lasers



FEATURES & BENEFITS

- ▶ The Column Clamp is lightweight but stable
- ▶ It works with all instruments with a 5/8 x 11 base, ideal for lasers and theodolites
- ▶ Column rotates to orientate the instrument when needed and features 30 cm of height adjustment
- ▶ The clamp is designed to fit both round and square column types
- ▶ The center-line of the 5/8 x 11 stud to column measures 16.5 cm
- ▶ A ratchet strap quickly tightens the column clamp into place to create a strong connection to columns with diameters up to 50.8 centimeter
- ▶ Nail holes in the clamp body allow for attaching to wood corners
- ▶ It is constructed of aluminum and stainless steel
- ▶ Weighs 2.32 kg

APPLICATIONS

- ▶ Perfect for a laser for vertical applications or Theodolites

**7210-03
Laser Micro Tripod**

Beneficial to many different trades



FEATURES & BENEFITS

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

APPLICATIONS

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

Heads-Up Level™

Add a level with vial to your rod or pole



FEATURES & BENEFITS

- ▶ No longer need to look down while traffic is flying by — simply look through the window
- ▶ You can keep your surveying partner in sight for faster surveying, too
- ▶ Features a soft rubber knob on an adjustable clamp that fit most survey poles and most vials
- ▶ The Heads-Up™ level is more comfortable to read; the bubble is direct reading
- ▶ Weighs 0.18 kg

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

APPLICATIONS

- ▶ Workplace Safety

Heads-Up Level™

Add a level with vial to your rod or pole



FEATURES & BENEFITS

- ▶ Here's an invaluable piece of equipment to add to your antenna tripod
- ▶ The 10 minute Heads-Up level is more comfortable to read; the bubble is direct reading
- ▶ Fits 3.81 cm OD pole
- ▶ Weighs 0.16 kg

5001-24 — GPS Tripod Heads-Up™ Level

APPLICATIONS

- ▶ Workplace Safety

Rod Levels

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



FEATURES & BENEFITS

- ▶ The standard rod level features a die-cast aluminum body and an adjustable vial
- ▶ It fits round or rectangular rods
- ▶ It is suitable for use with track light, robotic instruments, or conventional leveling
- ▶ The snap-on level fits all poles with a 2.54 to 3.18 cm diameter
- ▶ Feature 40-minute sensitivity
- ▶ Weighs 0.22 kg

5001-10 — Standard Rod Level
5001-12 — Snap-On Pole Level

APPLICATIONS

- ▶ Workplace Safety

Nylon Coated Steel Tapes

Great in all kinds of weather conditions



FEATURES & BENEFITS

- ▶ These coated tapes are designed to be used in the field for many years
- ▶ Features a hook end and fast-winding crank

APPLICATIONS

- ▶ General construction

PART NO.	TYPE	LENGTH	GRADUATIONS
3006-10	Nylon Coated Steel Tapes	30 m	m/cm/mm
3006-11	Nylon Coated Steel Tapes	60 m	m/cm/mm
3006-18	Nylon Coated Steel Tapes	60.96 m (200 ft)	10ths/metric (Dual Grad)

90520 Gopher Pole Wire Installation Tool

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



FEATURES & BENEFITS

- ▶ Telescopes to 6.71 m in seconds
- ▶ Compacts to 132.08 cm
- ▶ 5.08 cm diameter
- ▶ Safe non-conductive rigid fiberglass
- ▶ Sturdy and lightweight
- ▶ Easy to handle in tight spots
- ▶ No loose parts to assemble
- ▶ Push or pull wires over long spans
- ▶ Perfect for interior construction applications like suspended ceilings, sub-floors, crawl spaces, and attics
- ▶ Warranty against manufacturing defects for one year after date of purchase
- ▶ Weighs 1.81 kg

APPLICATIONS

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

ADDITIONAL ACCESSORIES

- ▶ Pin cushion for holding stake tacks



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

- ▶ Waterproof fiberglass construction prevents common problems that occur with wood rulers such as fading, splintering, and chipping
- ▶ Engraved (10ths/inches) 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
- ▶ The Rhino Ruler outlasts wood rulers four to one



4770-00 — Rhino Ruler Waterproof Folding Ruler 10ths/Inches

- ▶ The heavy-duty power tape features a rubberized black and high visibility yellow case with a positive thumb lock and release action



PART NO.	LENGTH	GRADUATIONS
4769-03	33 ft	10ths
4769-04	33 ft	10ths/in
4769-06	33 ft (10.06 m)	10ths/metric
4769-12	12 ft	10ths/in
4769-13	12 ft (3.66 m)	10ths/metric

- ▶ Flat shiners are 57-mm OD
- ▶ Featuring punched centers with crimped edges
- ▶ 250 per box
- ▶ Weighs 1.18 kg



2181-00 — Flat Shiners, 250 count, 1.18 kg

- ▶ Raised Shiners are 33-mm OD
- ▶ Features a raised 29-mm center
- ▶ 260 per box
- ▶ Weighs 0.45 kg



2182-00 — Raised Shiners, 260 count, 0.45 kg

- ▶ 13.34 cm quick-sighting horizontal level
- ▶ Ideal for laying bricks, pavement or used while building retaining walls or other construction as well
- ▶ Weighs 0.05 kg



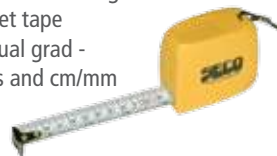
4050-00 — Hand Level

- ▶ The heavy-duty leather sheath is double stitched top grain leather with a belt loop.
- ▶ It's designed for 397-to-454 g plumb bobs



6000-160 — Leather Sheath

- ▶ This removable, free-standing tape measures GPS antenna height or is used as a pocket tape
- ▶ The tape is a dual grad - ft/10ths/100ths and cm/mm



7752-00 — HI 2-Meter GPS Pocket Rod

- ▶ Flat Shiners with 57-mm OD, punched in the center with crimped edges
- ▶ Includes 1000D Cordura® tote bag
- ▶ Approximate qty: 1,125
- ▶ Weighs 4.53 kg



2181-10 — Bulk Shiners - Flat

- ▶ The plumb bob point is a replacement part that fits any of the SECO plumb bobs, 6000-012 through 6000-032



6000-002 — Plumb Bob Point

- ▶ This SECO 0.45 kg plumb bob is precision-machined from solid brass
- ▶ Includes a hardened steel point
- ▶ Each bob contains storage area for a spare point
- ▶ Weighs 454 g



6000-016 — Plumb Bob

- ▶ Ceiling Pole adjusts 81-320 cm
- ▶ The laser platform adjusts vertically and locks tight at any location—perfect for interior construction applications



7220-01 — Ceiling Pole

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



8098-00-ORG — Standard Spray Can Holder
8090-10-ORG — With Accessory Pockets (shown)



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