# SECO Invest In The Best.



seco

# ACCESSORIES CATALOG



Why SECO

# SECO MANUFACTURING

For decades, SECO Manufacturing Co., has stayed on the cutting edge of designing and manufacturing tools and accessories for surveying, construction, utilities and other industries that use GPS/GNSS technology.

From instrument tripods, and prism assemblies, to survey poles and leveling rods, SECO products are made to last no matter the field conditions. SECO also makes brackets and cradles for all the current handhelds on the market.

SECO enjoys a global reputation for innovation and quality because we control each phase of product manufacture. We maintain an on-site manufacturing facility featuring state-of-the-art equipment to make certain that all products are made to meet SECO's strict quality standards. SECO quality is so well recognized worldwide that many key surveying and construction manufacturers ask SECO to produce their own branded accessories. This has developed an important high-end OEM market, respected above the low cost / low quality manufacturers established in Asia. For years, the "Manufacturing by Seco" label has been recognized for quality that has never been surpassed.



The SECO facilities at Redding, CA.

SECO product managers are known for coming up with solutions for any

kind of field requirement to meet customer needs. SECO products are available through dealers in almost every continent.

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

SECO, based in California, USA, with facilities in Redding, Tecate, CA and Mexico, controls all facets of its manufacturing business. SECO's 82,500 square-foot manufacturing plant in Redding houses our company headquarters, customer service team, engineering, research and development, and a complete manufacturing facility. The facilities include anodizing, electrostatic powder-painting, and silk-screening departments, as well as a state-of-the-art machine shop.

Rounding out the SECO inventory, we also offer entry-level third-party manufactured accessory products for those customers who do not have the budget or need for long-lasting SECO manufactured products.

Check out Surveying.com, follow us on Twitter, Facebook and LinkedIn, and contact SECO for all your field accessory needs!





# CHECK OUT OUR NEW PRODUCTS

Scan the QR code below to see all the new and exciting product offerings from SECO Manufacturing



Note: Inventory subject to change without notice. Refer to SECO's website at Surveying.com for the latest product information.



# SECO ACCESSORIES CATALOG













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# Tripods: GNSS/MC

Standard and Heavy Duty, with telescoping legs

#### FEATURES & BENEFITS

- 5119-00 version offers dual graduations, collapsible center staff with a quick clamp and/or screw clamp (see table) and includes removable 5/8 x 11 adapter, and an onboard compass
- Both the 5115-00-XXX series and the 5119 series

have a fixed-height, 2-meter center staff that rotates 360° for calibrating the included 8-minute vial

- All aluminum hardware is anodized black for long life
- 5119-10 features large telescoping legs (1.25 to 1.5 inch diameters) feature adjustable handle levers on the leg pivots and a large

6-inch diameter round head which easily holds lasers or robots

 All three tripods feature extendable electrostatically powder painted legs and include replaceable points

PART NO.	LOCKING	HEIGHT	COLLAPSES	COLOR	WEIGHS	
5115-00-FLY	Quick Clamp	2 m	2 m	Flo Yellow	15.00 lb (6.80 kg)	
5115-00-YEL	Quick Clamp	2 m	2 m	Yellow	15.00 lb (6.80 kg)	
5119-10-FLY	Screw Clamp	1.5, 1.8, 2 m	55 inches (1.4 m)	Flo Yellow	20.00 lb (9.07 kg)	
5119-10-YEL	Screw Clamp	1.5, 1.8, 2 m	55 inches (1.4 m)	Yellow	20.00 lb (9.07 kg)	
5119-00-FLY	Quick Clamp/Screw Clamp	1.5, 1.8, 2 m	50 inches (1.27 m)	Flo Yellow	15.00 lb (6.80 kg)	
5119-00-FOR	Quick Clamp/Screw Clamp	1.5, 1.8, 2 m	50 inches (1.27 m)	Flo Orange	15.00 lb (6.80 kg)	
5119-00-YEL	Quick Clamp/Screw Clamp	1.5, 1.8, 2 m	50 inches (1.27 m)	Yellow	15.00 lb (6.80 kg)	

#### Network Adapters

#### Professional Stainless Steel 303 CORS monument adapters

#### **FEATURES & BENEFITS**

- Adapters in the 2072-Series have 3.20-in (8.19-cm) diameters and overall heights of 3.036-in (7.71-cm)
- Adapters are leveled by three screws with a tilt range +/- 7°
- Made of 303 SS and brass
- Includes a removable brass 5/8 x 11 male stud that is adjustable in azimuth and held in location by two set screws
- The axis height is engraved on the outside of the monuments
- Height above the pivot point to stud shoulder is 1.37-in (3.50-cm)
- Height below the brass 5/8 stud to shoulder is 0.463-in (1.18-cm)

0	
0	
	0

PART NO.	FITS	COMPATIBLE WITH	WEIGHS	
2072-30	MPT 1-1/2 x 11-1/2 TPI	1.5-inch pipe	5.50 lb (2.50 kg)	
2072-31	MPT 2 x 11-1/2 TPI	2-inch pipe	6.60 lb (3.00 kg)	
2072-32	MPT 3-1/2 x 8 TPI	3-inch pipe	6.90 lb (3.10 kg)	
2072-33	MPT 5/8 x 11 TPI	any female 5/8x11	6.20 lb (2.80 kg)	
2072-050	40-minute leveling vial	any female 5/8x11	0.30 lb (0.14 kg)	









5200-96 — Two Shoulder Tablet Harness

5200-39-052 — Quick Release Bracket Adapter

.

7

5200-39-052



#### Pole Clamp: Ball and Socket Tablet



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

#### FEATURES & BENEFITS

- Pole Clamp locks securely to the pole, no slipping!
- All ports, connections, and camera are accessible and usable with the bracket attached

**FEATURES & BENEFITS** 

made of durable anodized

 The Claw technology allows maximum tightening without

▶ These Claw<sup>™</sup> clamps are

aluminum

crushing

PART NO.

5200-16-050

5200-17-050

5200-29-050

- Easy "snap in/out" design holds the tablet securely
   Compatible with add-on keyboard and extended
  - battery
    Made from a single, solid
    0.080 inch (2.03 mm)
    aluminum sheet metal
- Features ram ball links which allow many positions
- The 5200-35 features a 1-inch ram ball – the Balland-Socket versions allow the data collector to be in more positions

▶ Use with 5200-201 Ball and

5199-052 Pole Clamp

Socket Link, and 5200-160 or

TYPE

Claw

Snap In/Out

Snap In/Out

PART NO.	WORKS WITH	
5200-30	Panasonic FZ-G1/Leica CS35 (Not for Radio Models)	
5200-31	Getac T800	
5200-35	Tesla , Mesa 2/3, FC 5000, RT3/4	
5200-41	FZ-G1/CS35 with Radio, Ram	

Cradles: Claw Ball and Socket

#### Design your own custom solution with one bracket and one cradle

Features a 1-inch ram ball -

the Ball-and-Socket versions

allow the data collector to be

WORKS WITH

TSC3, Ranger 3 Series

Mesa/Tesla

Panasonic FZ-M1, B2

in more positions

5200-16-050

#### -----

5200-29-050

#### Pole Clamp: Tablet Quick Release

Secure connection to your survey pole and tablet during field use

#### FEATURES & BENEFITS

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



PART NO.	MODEL	TABLET SIZE	
5200-32	Panasonic FZ-M1	7 inch (17.78 cm) tablet	
5200-33	Panasonic FZ-G1/Leica CS35	10 inch (25.4 cm) tablet	
5200-41	FZ-G1 with Radio	10 inch (25.4 cm) tablet	
5200-42	Panasonic FZ-G1/Leica CS35 with Radio	10 inch (25.4 cm) tablet	
5200-43	T-10 with Radio Quick Release	10 inch (25.4 cm) tablet	



Claw Cradles:
Quick Release



#### Quick Release Cradle

# 5198-086

#### Design your own custom solution with one bracket and one cradle

- **FEATURES & BENEFITS** The Claw<sup>™</sup> is a clamping
- system featuring an innovative clamping device that keeps your expensive data collecting hardware snug

on the pole where it belongs without crushing it

- The Claw cradles and clamps are made of durable anodized aluminum for years of troublefree use in the field
- Quick-Release cradles plug directly in to Quick Release Pole Clamps

PART NO.	WORKS WITH	
5200-050	FC 2500	
5200-058	FC-200, FC-250	
5200-059	Nomad 800-900 Series	
5200-062	Carlson Surveyor, Surveyor +, GIS-1	
5200-064	Geo 6000 Series, Geo 7X	
5200-065	TSC3, TSC7, Ranger 3 Series	
5200-070	Juno 5 / Juno T41 Series, Slate	
5200-072	Mesa Tesla	
5200-073	Archer 2, Mini2, FC 500	
5200-074	Allegro 2, Allegro 3, Surveyor 2	
5200-075	Nautiz X8, Nautiz X9	
5200-076	Panasonic Toughpads FZ-M1, B2 (Not Claw – "Snap in")	
5200-077	Mesa 2/3, FC 5000, RT3/4 (Not Claw - "Snap in")	
5200-082	Ram Ball to Quick Release Adapter	

model. This modifies the Leica pole bracket to work

▶ Requires a SECO quickrelease pole bracket (See Page 9)

5198-086 — Quick Release Cradle for Leica Pole Bracket

with SECO poles.

**FEATURES & BENEFITS** 

▶ 5198-086 cradle requires

Leica pole bracket, any

#### Ball-and-Socket and Perfect for creating a custom solution **Claw Accessories** Fits any standard instrument tripod Fits any standard This adapter lets you make the most out of Seco's two Use with a 5200-201 Ball-andinstrument tripod bracket styles. Socket Link and a Ball-and-Use with a 5200-201 The 1" RAM ball-and-socket combination gives you Socket Cradle (designed for Ball-and-Socket Link nearly unlimited possibilities for positioning your your data collector) for a and a Ball-and-Socket controller. Cradle (designed for your complete system The Quick-Release connector is the fastest way to go when you have to frequently move your controller. data collector) for a complete system 5199-054 — Suction Cup (temporary mount) 5200-082 — 1" Ram Ball to Quick Release Adapter 5199-051 — Tripod Mount Use the Ball-and-Mount your data collector or ▶ Pole Clamp with 1-inch (32 controller to this ball clamp and mm) Ram Ball Socket Link for your Fits poles with an outside the handle bars of your ATV custom solution diameter of 0.75-inches to Fits the 1-inch ram 1.5-inches ball on cradles and clamps 5200-201 — Ball-and-Socket Link 5199-050 — ATV Ball Clamp 5199-052 — Ram Ball Clamp Mount



#### Pole Clamps and Cradles



5198-056



5198-153



5200-160



5198-073

Design your own custom solution with clamp and cradle

## FEATURES & BENEFITS

- Original Open-Style Pole Clamp technology for a complete solution
- Use a Claw Quick-Release cradle or clamp for a complete solution
- Made of black anodized aluminum
- Depressing the quickrelease button will allow the Claw Quick-Release cradle or clamp to rotate in to a comfortable position for reading the data collector or

#### controller

- Features a quick-release button and a stainless steel clamp screw that attaches to the pole
- Designed for standard poles or rods with a 0.75 to 1.25inch OD

PART NO.	Quick Release Open-Style Clamps (for 1.25-inch OD pole)	
5198-052	Plain	
5198-054	40-minute Vial	
5198-055	Compass	
5198-056	Compass and 40-minute Vial	
5198-059	0.15 x 0.92-inch Slot	
5198-152	For 1.5-inch OD Pole	
5198-153	Battery Slot with Quick Release	
PART NO.	Claw Ball-and-Socket Clamps (for 1.25-inch OD pole)	
5200-160	Plain with 1" Ball	
5200-164	With Compass	
5200-165	With 40-minute Vial and Compass	
5200-166	Plain with 1.5" Ball	
PART NO.	Claw Quick Release Clamps (for 1.25-inch OD pole)	
5200-150	Plain	
5200-151	With 40-minute Vial	
5200-152	With 20-minute Vial	
5200-154	With Compass	
5200-155	With 40-minute Vial and Compass	
PART NO.	Quick Release Cradles	
5198-073	Nautiz N7, DAP 9800, SDR33, Titan	
5198-081	PDA	

#### Claw Cradle Assembly for TSC7/Ranger7





5200-167

5200-079

#### FEATURES & BENEFITS

- New Claw design for the TSC7/ RANGER7 Controller
- ▶ 5200-079 with 5200-167 is a complete assembly 5200-45
- The 5200-45 is also compatible with the TSC3/Ranger3 handheld, for those wanting a more heavy-duty claw-clamp solution with more tilt positions on the pole
- Includes replaceable silicone pads that hold the controller

#### securely

- This new design utilizes our stronger quick release that we use on heavy tablet pole brackets.
- All machined anodized aluminum and stainless steel construction
- Pole Clamp fits all standard 1.25" diameter poles
- Pole clamp has six tilt positions from vertical to horizontal of the display

1













Cable Slot 5128-08

5129-50

5128-00

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

#### FEATURES & BENEFITS

 Lightweight two-piece rover rods come in aluminum or carbon fiber and feature 5/8 x 11 tips (5125-01-YEL features a quick-release adapter) and 40-minute vials

- Outer graduations options are 10ths/100ths (GT), metric (GM) or Quick Release (QR)
- ► 5125-06-YEL and 5128-08

feature a cable management slot measuring 0.625 x 1.6-in to hide cables

 Order 8162-00-ORG for carrying case

	PART NO.	POLE	TIP	CABLE SLOT	OUTER GRADS	LENGTH	WEIGHS	
0	5125-00-FLY	Aluminum	5/8 x 11	No	10ths/100ths (GT)	2 meters	3.00 lb (1.36 kg)	
	5125-00-YEL	Aluminum	5/8 x 11	No	10ths/100ths	2 meters	3.00 lb (1.36 kg)	
	5125-01-YEL	Aluminum	Quick Release	No	None	2 meters	3.00 lb (1.36 kg)	
	5125-06-YEL	Aluminum	5/8 x 11	Yes	10ths/100ths (QR)	2 meters	3.00 lb (1.36 kg)	
	5128-00	Carbon Fiber	5/8 x 11	No	10ths/100ths (GT) or Metric (GM)	2 meters	1.90 lb (0.86 kg)	
/ial	5128-08	Carbon Fiber	5/8 x 11	Yes	10ths/100ths (QR)	2 meters	1.42 lb (0.64 kg)	
)54-40								

Prism Adapters, Tips and Topo Shoes						
<ul> <li>Adapts Swiss-style snap-on prisms to 5/8 x 11 tribrach adapter or prism pole</li> <li>Weighs 0.06 lb (0.03 kg)</li> <li>2080-00 — Wild Prism Adapter 2080-SS — Wild Prism Adapter (Stainless Steel)</li> </ul>	Female Ada 5/8 x 11 Mal Male Adapte 1/4 x 20 Mal Male Adapte Weighs 0.20 2131-00 — Pr	e to 1/4 x 20 er e to 5/8 x 11 er l b (0.09 kg) ism Pole Adapter - Male ism Pole Adapter - Female	be us to inc diame 1-inch you h and w pole o Crant Crant	Delrin <sup>®</sup> Adapter ca ed when you war rease the outside eter (OD) of a pole n to 1.25-inches o ave a 1 inch OD p vant to use a Claw clamp be used with Quic es and Clamps on	ht e from r if pole v™ k-Release Claw	
► 5/8 x 11 Double Male Adapter	2131-02 — Pi	ism Pole Adapter - Male	Claw	Combo hs 0.03 lb (0.01 k	g)	
<ul> <li>Weighs 0.06 lb (0.03 kg)</li> <li>E180, 00 Double Mole Adoptor</li> </ul>	Weighs 0.08	s lb (0.04 kg)	Clamp	— Delrin 1-inch Adapter	Pole Claw	
5180-00 — Double Male Adapter	5181-00 — D	ouble Female Adapter				
Telescopic Carbon Fiber Rover Rods	Carbon fiber rover roo	ls are 30% lighter				
	<ul> <li>FEATURES &amp; BENEFIT</li> <li>Designed so the GNSS surveyor has all the featur needed in a single rod</li> <li>Zero height, reads direct</li> </ul>	length of the rod at set p	ooints Orde carry	30% lighter r 8160-00-ORG fo ing case	or	
	PART NO. GRADS	LENGTH	Outer Grads	PIN LOCKING	WEIGHS	
	5129-50 Dual (10ths/2 m	um) 4.48 ft (1.4 m) - 8.14 ft (2.4 m)	10ths/100ths (GT)	1.8 m, 2 m, 2.2 m	2.30 lb (1.05 kg)	
	5129-51 Metric/2 mm	4.48 ft (1.4 m) - 8.14 ft (2.4 m)	None	1.8 m, 2 m, 2.2 m	2.30 lb (1.05 kg)	
	5129-70 Dual (0.05 ft/c	n) 4.69 ft (1.43 m) - 11.7 ft (3.57 m)	None	Every 20 cm	3.30 lb (1.50 kg)	

4.69 ft (1.43 m) - 11.7 ft (3.57 m)

5129-71

5129-70

Metric

3.30 lb (1.50 kg)

Every 20 cm

None





PART NO.	GRADUATED LENGTH	OUTER POLE	LOCKING PIN	ADAPTER INCLUDED	
5527-10	1.33 to 2.20 m	Aluminum		2090-12	
5527-13	1.33 to 2.20 m	Carbon Fiber	@ 1.4, 1.6, 1.8, 2.0, 2.2M	2090-12	
5527-15	1.51 to 2.60 m	Aluminum		2090-12	
5527-16	1.51 to 2.60 m	Carbon Fiber	@ 1.8, 2.0, 2.2, 2.4, 2.6M	2090-12	
5527-17	1.58 to 3.60 m	Carbon Fiber	@ 1.8, 2.0M	2090-12	
5527-20	1.58 to 3.60 m	Aluminum		2090-12	
5527-22	1.58 to 3.60 m	Carbon Fiber	@ 1.8 to 3.6M every .2M	2090-12	
5527-30	1.65 to 4.65 m	Aluminum		2090-12	



Use with SECO Quick Change Prism Poles to achieve desired height

adapters

Target

Leica GPH1

Precisional RMT

Adjustable 5/8 x 11

**GNSS** Antenna

Leica Adjustable

SECO Mini Prisms

Topcon 360 Prism

Topcon APT1/2

Laser Detector Adapter

total station surveys

Quick conversions to another

Target Height

86 mm

135 mm

50 mm to 135 mm

0 mm

86 mm to 125 mm

70 mm

77 mm

50 mm

0 mm

5217-15-ABK — 12 inch Open Clamp Bipod

ground when not in use

Weighs 0.90 lb (0.41 kg)

application by changing



Simple adapter determinations:

Length "L"

64 mm

15 mm

N/A

150 mm

N/A

80 mm

73 mm

100 mm

150 mm

150 mm minus your target

height = length of adapter

needed

#### Quick Change Pole Adapters



#### Accessories for Robotics Gear

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

**FEATURES & BENEFITS** 

Part No.

2090-10

2090-13

2090-14

2090-15

2090-17

2090-19

2090-21

2090-26

5079-066

Using adapters, any of the poles

in the Quick Change series can

be used for GNSS, robotics or



- 2090-02 For Leica Users w/86 mm Prism
- 2090-04 Users w/115 mm Prism
- 2090-06 Convert Robotics to GNSS Pole (not shown)
- 2090-07 For Topcon ATP1/2 with 50 mm Prism



#### Copper-coated 35 mm prisms

- FEATURES & BENEFITS
- Includes six 35 mm prisms
- ▶ 0 offset
- 77 mm prism height
   Copper-coated for moisture prevention
- Protective urethane bumper in yellow
- Designed for Topcon<sup>®</sup>

This lightweight bipod is used to keep a GNSS or robotic pole off the

Converts any GNSS receiver or prism with 5/8 x 11 threads to a Quick Release

 Adapter features a female 5/8 x 11 quick release tip

**GNSS** Accessories

and Adapters

- Made of anodized aluminum or optional Stainless Steel version
- Adds 23.8-mm (.937 inches) to length of rod
- Weighs 0.05 lb (0.02 kg)

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



6401-00-YEL — 360° Robotic Prism Assembly

- Use with GNSS Quick-Release Adapter (5187-00)
- Made of anodized aluminum or optional Stainless Steel version
- Adapter adds 76.22-mm (.937 inches) to the pole length
- Weighs 0.14 lb (0.06 kg)

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







# **GROUND CONTROL**



# Drone Ground Control Targets



#### FEATURES & BENEFITS

- Drone, GCP, Ground Control Points set
- Target size 18X18X1/8"Compatible with any drone
- software that recognizes GCP targets

This product does not qualify for Free Freight.

Numbered 1-10

No Minimum Order Quantity.

- Orange/Black color
   Made from rigid weather resistant ACM Panel.
- (Aluminum Composite Material) ▶ Center hole, 1/4", to center
- over existing control point
  - Carrying bag made of

tough Rhinotech and Polyester materials, #10 YKK zipper

- Weight ea. 1.65 lbs.
- Weight in the included carrying bag 18.5 lbs.



6705-30 — Drone Ground Control Targets



#### Propeller AeroPoints Generation 2



#### FEATURES & BENEFITS

- Generation 2 Propeller AeroPoints offers significant upgrades.
   More Capability Without
- Complexity. A new wifi chip adds fast and reliable connectivity.

Minimum Order Quantity 1 Set of 10.

 Dual-frequency delivers shorter flight times and more robust positioning.

- An upgrade to battery performance and plug-in charging gives customers better battery life and flexibility out in the field.
- And there's a brand new AeroPoints app that doubles down on diagnostic issues and makes configuration setup a breeze.
- Free Freight does not apply.



Charge up your AeroPoints in just three hours using the charging port.

#### AP-10PK — Propeller AeroPoints Generation 2

2

In-built GPS

Records positioning data every 5 seconds.

#### Lightweight

1.5kg (3.3lb). Each set includes a carry bag for easy transport.

#### Large memory

Store data from 100-plus flights before upload is required.

#### Strategic design

Optimized for recognition by processing software.



Seco

# **VEHICLE ACCESSORIES**

#### **GNSS Bracket** for Truck Door

#### Expands vertically from 47 to 61 inches

## **FEATURES & BENEFITS**

- This bracket holds a GNSS pole to the door of your survey truck
- Easy to put on and take off and features a non-damaging mount
- ▶ 5114-20 fits most trucks

# and SUVs

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





5114-20-051 3-inch Extension Kit for Dodge and other truck models



5114-20-050 Topo Shoe Adapter

#### **DOOR FIT DIMENSIONS**

DIMENSION	5114-20-050	5114-20-051 W/ 5114-20-051 EXTENSION KIT	5114-21-054
А	4'-11" (59")	5'-3" (63")	4'-11" (59")
В	3'-10" (46")	4'-2" (50")	3'-10" (46")
С	6-3/8"	8-3/4"	7"
D	4-1/2"	6-1/2"	5"

DIMENSION TOLERANCE +/- 1/4"

5114-20-051 — GNSS Bracket for Truck 5114-21-054 — Ford F-150 2015 & 2016 models



# VEHICLE ACCESSORIES



#### UTV Roll Cage Transporter for GNSS Rods



#### Easy set-up or disassembly in 10 minutes or less

#### FEATURES & BENEFITS

- The RUXWORKS GNSS Rod Transporter™ fits all popular UTVs
  - Mounts easily to either side and installs in 10 minutes or less
- The UTV bracket has up to 30° of tilt to set your rover rod plumb
- The pole clamp section is 63-in (160-cm) long and disassembles quickly from the UTV bracket with two quick release pins or two bolts
- The UTV bracket can stay

# permanently attached to the UTV

 Includes a rod clamp that fits all popular rover rods and poles with points and/or topo shoes up to a 2-1/2-inch (6.35-cm) diameter

PART NO.	FITS	WEIGHS	
5114-40-01	Tubular Roll Cage up to 2-inches (5.08 cm)	15.00 lb (6.80 kg)	
5114-40-02	Rectangular Roll Cage up to 2 x 4-inch (5.8 x 10-cm)	15.00 lb (6.80 kg)	

#### ATV Bracket for TSC7 / Ranger 7



#### **FEATURES & BENEFITS**

- Works with ATVs, Snowmobiles, and Motorcycles
   Fits handlebars from 0.5 to
- 1.25 inches in diameter
- Also fits TSC3 / Ranger3
- Two links included for different height location. Long Link 5.625", Short Link 3.5"
- Uses 1.5" balls for stable positioning holding
- Weighs only 1.4lbs 0.64kg



5198-52 – Bracket ATV, TSC7 / Ranger 7

#### Plan Holder

Conveniently organize and store job site materials in your vehicle

#### **FEATURES & BENEFITS**

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

pencils, markers, and other necessary tools

Weighs 0.95 lb (0.43 kg)



8046-10-BLU — Plan Holder





Triangle Vials come with its respective vial and three M3 socket cap screws, 12mm long. The vial holder body and screws are not available as a service part.



# LASER SCANNER ACCESSORIES







# LASER SCANNER ACCESSORIES



# LASER SCANNER ACCESSORIES, ROBOTICS AND SPECIALITY PRISM POLES







# SPECIALITY PRISM POLES

#### Mini Poles

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

▶ Light weight and convenient

to transport and store

▶ 40-minute bubble vials



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

#### Swiss-Style QLV Prism Poles

#### **QLV Locking Mechanisms**

 FEATURES & BENEFITS
 Swiss-style quick release stud Reads direct for any 86 mm height prisms

**FEATURES & BENEFITS** 

Adjustable or fixed-tip poles

Mini poles are easy to use

- The small-diameter, 25 mm bottom section fits Leica slideon controller brackets
   QLV™ locking mechanisms
- Powder-coated and silk screened aluminum

Powder-coated and silk

screened aluminum

- Lower lock features a
- 40-minute vial



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

#### Swiss-Style TLV and Twist-Lock Prism Poles

# Twist Lock with Vial (TLV)

- FEATURES & BENEFITS
- Swiss-style tip (for 86 mm prism heights) for GPH1-type prisms
- 1.25- or 1.50-inch (31.75- or 38.1-mm) outside diameter
   Dual or metric graduations TLV™ or Twist-Lock

mechanisms

- Comes in 1 or 3 sections
- The popular TLV locking system provides simple but secure locking

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



# SPECIALITY PRISM POLES



#### Quick-Release Telescopic Prism Poles

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

 FEATURES & BENEFITS
 Quick-Release locking mechanism with 40-minute

vial

- Adjustable tension via set screw in the handle and another set screw to assist in keeping the spring in position
- Quick-Release handle lock allows for a simple and fast setup
- Constructed of powdercoated and silk screened aluminum

WEIGHS

3.30 lb (1.50 kg)

3.30 lb (1.50 kg)

5.10 lb (2.30 kg)

COLLAPSED

4.97 ft (1.52 m)

4.97 ft (1.52 m)

5.18 ft (1.58 m)

PART NO.	GRADS	SECTIONS	TIP	EXTENDED
5700-10	Dual	1	Adjustable	8.53 ft (2.60 m)
0-10	Metric	1	Adjustable	8.53 ft (2.60 m)
	Dual	2	Adjustable	11.81 ft (3.60 m)

#### TLV and Twist-Locking Telescopic Prism Poles

RCO

seco

The popular TLV<sup>™</sup> locking system provides simple but secure locking



- FEATURES & BENEFITSThe aluminum twisting lock
- with vial (TLV) pole is wearresistant for long life
- The soft rubber knob is easy to tighten or loosen, even
- when wearing gloves
  TLV locks feature a convenient 40-minute vial built into the lock
- Made of quality aluminum tubing
- Powder-coated red and white
- Vials may be switched out see page 18 for options

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



#### Compression Lock Constructed of brass and aluminum Telescopic Prism Poles **FEATURES & BENEFITS** Adjustable Tip ▶ Finished with electrostatic Single (1) section pole powder paint coating on the Compression locking Extends 8.53 ft (2.60 m) outer pole and permanent mechanism Collapses 4.97 ft (1.516 m) silkscreened grads on the Constructed of sturdy Dual graduations inner pole aluminum tubing and a two-▶ Weighs 3.30 lb (1.50 kg) stage adjustable top-threaded tip

5600-10 — Compression Prism Pole

**PRISM POLES** 

# QLV Locking Prism Poles



QLV lock body Fixed Tip Adjustable Tip

#### Simple to adjust bubble and lever tension

#### FEATURES & BENEFITS

- ► The QLV<sup>™</sup> (Quick Lever with Vial) lock allows fast, simple setups
- Simple to adjust bubble and lever tension
- Includes a lock with 40-minute level vial, adjustable, or fixed tip and your choice of dual (10ths) or metric graduations (cm)

#### Easy locking

- Finished with electrostatic
- powder paint coating on the outer pole and permanent silkscreened grads on the inner pole

PART NO.	SECTIONS	TIP	Extends	Collapses	GRADS	WEIGHS	
5801-10	1	Adjustable	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Dual	2.95 lb (1.50 kg)	
5813-10	1	Fixed	8.53 ft (2.60 m)	4.97 ft (1.516 m)	Dual	2.95 lb (1.50 kg)	

#### **Ultralite Prism Poles**

#### Non-conductive fiberglass

- **FEATURES & BENEFITS** The lightest pole offered by
  - SECO Included in this package is
- - Seco's patented Topo Boot®
- ▶ Reduced weight SECO TLV™ lock
- Features a 40-minute adjustable vial, a soft touch knob, and an adjustable 5/8 x 11 tip
- > The inner and outer poles are constructed of lightweight nonconductive fiberglass
- ▶ Vials may be switched out see page 18 for options

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

# PRISM POLES AND OFFSET TOOLS





#### Import TLV<sup>™</sup> prism poles

#### **FEATURES & BENEFITS**

Dual-section Twist lock Prism

service in the field at a lower

purchase price

- Pole Hardened steel points
- Aluminum outer and inner

- Includes 40-minute level vial ▶ 5/8 Adjustable Tip
- Metric Grad (cm)
- ▶ Color: Red and White

----

- ▶ Length 3.60 m (11.81 ft),
- ▶ Weighs 3.65 lb (1.66 kg)

pole		► TL\	/ locking mechan	ism	
PART NO.	SECTIONS	TIP	LENGTH	POLE TYPE	
5530-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	
5531-10	1	Adjustable	2.60 m	Aluminum	
5530-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	

PARTNU.	SECTIONS	HP III		POLETYPE	GRADS	VVEIGHS	
5530-10	1	Adjustable	8.53 ft (2.60 m)	Aluminum	Dual	2.67 lb (1.21 kg)	
5531-10	1	Adjustable	2.60 m	Aluminum	Metric	2.67 lb (1.21 kg)	
5530-20	2	Adjustable	11.81 ft (3.60 m)	Aluminum	Dual	3.65 lb (1.66 kg)	
5531-20	2	Adjustable	3.60 m	Aluminum	Metric	3.65 lb (1.66 kg)	
5530-30	3	Adjustable	15.25 ft (4.65 m)	Aluminum	Dual	5.38 lb (2.44 kg)	
5531-30	3	Adjustable	4.65 m	Aluminum	Metric	5.38 lb (2.44 kg)	

#### **Contractor Series** Compression Lock Poles



#### Traditional Compression lock import prism poles

- FEATURES & BENEFITS Aluminum outer and inner pole These 'no-frills' imported poles are designed to give

  - 40-minute level vials
  - Adjustable tip
- Hardened steel points
- Red and white color

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

#### Offset Tools

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



- > 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 (PN 5001-20, page 18) for a safe and sturdy setup
- A padded case, hex wrench, and an adapter plate for instrument tripods is included
- ▶ Weighs 1.79 lb (0.81 kg)

5198-157 — Offset Pole Holder Kit



# PRISM AND ROD ACCESSORIES



# PRISM AND ROD ACCESSORIES AND EXTENSIONS





#### Imported Range Poles

Contractor Series of Extendible Section Poles (Replacement Points 5194-03-Kit)

- Single 4-foot (1.22-m) section range pole
- 1.13-in (29-mm) outside diameter
- With brass male/female fittings on all range poles

- Includes bag (no point included)
- Weighs 1.50 lb (0.68 kg)
- 5160-02-WOR Contractor Series 4-ft Range Pole

- Two 4-ft (1.22 m) sections creating 8-ft (2.44-m) range pole
- 1.13-in (29-mm) outside diameter
- With brass male/female fittings on all range poles
- Includes point and bag
- Weighs 3.40 lb (1.54 kg)

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

- Three 4-foot (1.22-m) sections creating 12-ft (3.66-m) range pole
- ▶ 1.13-in (29-mm) outside diameter
- ▶ With brass male/female fittings on all range poles
- Includes point and bag
- Weighs 5.00 lb (2.27 kg)

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

# PRISM POLE BIPODS AND TRIPODS



# PRISM POLE BIPODS AND TRIPODS









PRISMS

# **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).



Non-Aligned at -30 mm Offset



No movement

Non-Aligned at 0 mm Offset

#### Prism Range

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

#### Prism Holder Accuracy

Prism accuracy is determined by the physical location of the prism in its canister and then to its holder. SECO prism accuracy is 1 mm or less.



#### Premier Prism Assemblies Copper

#### 62 mm Rear Screw Lock

# FEATURES & BENEFITS

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

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

#### Premier Prism Assemblies Silver



#### 62 mm Rear Lever Lock

 FEATURES & BENEFITS
 The heavy-duty 62 mm silvercoated prism is sealed in a strong canister with an o-ring to prevent water and dust from getting inside  Incorporates a simple rearlocking stainless steel lever mechanism that is easy to set while adjusting the prism and target tilt either 0 or -30 mm offset positions

- 115 mm tilting axis height
- Two target sizes and three color combinations are available
- Prism can be mounted in

PART NO.	TARGET COLOR	TARGET SIZE	Weighs	
6402-20-FLB	Flo Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)	
6402-20-FOB	Flo Orange with Black	6 x 9 in	1.75 lb (0.79 kg)	
6402-20-YLB	Yellow with Black	6 x 9 in	1.75 lb (0.79 kg)	
6422-20-YLB	Yellow with Black	5.56 x 7.13 in	1.59 lb (0.72 kg)	

#### Prism Premier Assemblies Strobe

#### 62 mm blinking strobe prism assembly

#### FEATURES & BENEFITS

- Combines the premier target and holder with a strobe prism
- Features a blinking strobe prism with an LED light that flashes every 0.5-second
   This prism can be purchased

separately (6416-00, page

#### 39)

- Perfect for low light conditions
- Tilting axis height is 115 mm
- Weighs 1.35 lb (0.62 kg)

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



# PRISMS AND ASSEMBLIES

#### Premier Prism Assemblies



#### -35 mm to work with Precisional and Spectra Geospatial Total Stations

#### **FEATURES & BENEFITS** Features a -35 mm offset

standard female 5/8 x 11

seconds

threads

- and a prism accuracy of <5 Mounting base features
- anodized aluminum • Height of the prism in the holder is 135 mm

Tilting holder is constructed of

- ▶ 62 mm silver-coated prism is encased in a heavy-duty canister with M20 threads
- ▶ Weighs 1.75 lb (0.80 kg)
- Nodal

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

#### **Premier Prism Assemblies**

# -30 and 0 mm to work with Nikon, Topcon & Sokkia Total Stations



## **FEATURES & BENEFITS**

- ▶ 62 mm copper-coated prism is encased in a heavy-duty canister with M20 threads
- Features a -30 and 0 mm offset
- Height of the prism in the holder is 100 mm
- Tilting holder is constructed of anodized aluminum
- Prism accuracy of <5 seconds</p> Mounting base features

#### threads

- ▶ Weighs 1.75 lb (0.80 kg)
- standard female 5/8 x 11

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

#### Standard Prism Assembly

#### Contractor Series 62 mm prism assembly



# **FEATURES & BENEFITS**

- Features a 62 mm coppercoated canister type prism Water-resistant and has a
- M20 universal mounting thread
- Tilting holder is powderpainted die cast aluminum • Uses a simple but proven
- locking system Target size 5.5" x 7"
- Mounted in either 0 or -30 mm offset positions
- ▶ Tilting axis height is 115 mm
- ▶ Weighs 1.35 lb (0.62 kg)

6402-10-FOB — Prism Assembly in Flo Orange with Black 6402-10-FLB — Prism Assembly in Flo Yellow with Black 6402-10-YLB — Prism Assembly in Yellow with Black



# PRISMS AND ASSEMBLIES







# PRISMS AND ASSEMBLIES



# PRISMS SYSTEMS



# Prisms: Mini and Stakeout

- Here's a versatile prism system in a small package
- Assembly features a 25 mm copper-coated prism, for fog prevention, a tilting holder, with friction axis. 0 or -30 mm offset
- Can be mounted on a prism pole or tribrach at three heights: 70 mm, 100 mm, 115 mm, or can be hand-held using the plumb bob bracket or with S-hook for quick attachment to plumb bob



- Includes a 40-minute
- adjustable circular center or side mounted vial
- Also included a point for stake-out work, and a system bag with belt loop
- Powder painted flo orange
- Weighs 0.34 lb (0.15 kg)

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

- The Mini Stakeout Prism features a 25 mm, copper-coated prism, aluminum double yoke construction with tilting coaxial target
- One 40-minute vial on top
- Includes replaceable plumb
- bob point
- 0 and -30 mm offset
- Includes carrying case
- Weighs 0.62 lb (0.28 kg)



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

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



6405-11-FOR — Stakeout Mini Prism Kit - 0 / -30 mm offset – Flo Orange 6405-11-FLY — Stakeout Mini Prism Kit - 0 / -30 mm offset – Flo Yellow 6405-13-FLY — Stakeout Mini Prism Kit – Nodal -17.5 mm offset

- The Mini Prism Mono Pod Kit forms a stable base with your 6000-Series Mini Prism
- Prism not included sold separately, 6405-10-FOR
- Kit is easy to set up and can be used by just one person
- Ideal for: construction surveys, inspections, as builts, and many other applications
- Add a standard 5/8 x 11 extension to the kit to achieve heights to four feet
- ▶ Weighs 2.25 lb (1.02 kg)



#### 5216-00 — Mini Prism Mono Pod Kit

- ► The 25 mm Stakeout Prism Assembly features 'site cones' that improve vertical angle pointing — the site cones double as tilting-axis lock knobs
- Adjustable 40-min vial is mounted on the front side and is easy to see and simple to adjust
- > This mini prism is a zero-offset if you reverse the prism
- Assembly features a 25 mm copper-coated prism, for fog prevention, a tilting holder, with friction axis, 0 or -30 mm offset Can be 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

- Prism height 50 mm to female 5/8
- Prism height 100mm to Point
- Includes carrying case
- Weighs 0.30 lb (0.14 kg)



#### 6405-10-FOR — 25 mm Stakeout Prism Assembly

- The 25 mm Stakeout Prism Assembly features 'site cones' that improve vertical angle pointing — the site cones double as tilting-axis lock knobs
- Adjustable 40-min vial is mounted on the front side and is easy to see and simple to adjust
- ► -17.5 mm (nodal) offset
- Includes carrying case
- ▶ Weighs 0.30 lb (0.14 kg)



6405-12-FOR — 25 mm Stakeout Prism Assembly



# PRISM SYSTEMS, TILTING MINI, SLIDING AND PIN POLE KITS


# MONITORING PRISMS AND ACCESSORIES



# Walleye Prism System



# FEATURES & BENEFITS

- Lightweight and inexpensive, made to be set up and left for extended periods
- Features & Benefits
- The Walleye<sup>™</sup> Prism System accommodates a full size 62 mm prism (6411-03-BLK) for long range applications or when a larger prism is needed
- Rain hood helps keep the prism clean to ensure continual measurements over a long measuring cycle
- The flat bottom of the L-Bracket is a large 2.3 x 3.4 inch (58.24 x 86.36 mm) with five holes for mounting to a
- variety of surfaces
  Components available
- individually so you can configure your specific needs
- The system is compatible with

all M20 screw-in type prism canisters

- Center pivot hole is 3/8 inch (9.5 mm), the four screw holes are 4.5 mm OD
- Features include a -40 mm offset, ± 2 mm, ability to pivot in two axes, stainless-steel locking
- System weighs 1.55 lb (0.70 kg)



#### 6603-00-050 — L Bracket Assembly

Part No.	Description	
6603-00	Complete Walleye Prism System with Prism and 5/8 x 11 Adapter	
6603-01	Complete Walleye Prism System with Prism and M8 Adapter	
6603-00-050	L-Bracket Assembly Only	
6603-00-005-TMB	Rain Hood Only	
6603-01-051	M8 Adapter with Screws and Washer	

### Monitoring Survey Targets



#### 6606 series - Retro Reflective Survey Targets

- Ideal for back sights, check shots, elevation references and monitoring situations.
- > Very affordable solution to save crew time, improve data, and feel more secure about construction layout.
- Prism Constant: 0mm
- Survey targets range:
- Target reflectors w/ cross hair 30 x 30 mm: range approx. 80 m (262 ft)
- Target reflectors w/ cross hair 40 x 40 mm: range approx. 100 m (328 ft)
- Target reflectors w/ cross hair 60 x 60 mm: range approx. 120 m (393 ft)

Part No.	M2M description	PRISM BACKING	
6606-04-30	30X30 mm reflective target	N/A	
6606-04-40	40X40 mm reflective target	N/A	
6606-04-60	60X60 mm reflective target	N/A	



# MONITORING PRISMS AND ACCESSORIES



# MONITORING PRISM AND ACCESSORIES







# MONITORING PRISM AND ACCESSORIES AND TRAVERSE TRIBRACH KITS





# TRIBRACH AND ADAPTERS







# TRI-MAX<sup>®</sup> TRIPODS

The Tri-Max<sup>®</sup> is the only surveying-grade tripod with certified accuracy – highly recommended for all servo-driven and robotic total stations, 3-D laser scanners or construction lasers.



20.00 lb (9.00 kg)

91 in (2.3 m)

Flat

Black

90560

Dual Clamp

Fiberglass

# **TRI-MAX®** TRIPODS



# Universal Tri-Max Elevator Tripod

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

#### **FEATURES & BENEFITS**

- SECO's Universal Tri-Max<sup>®</sup> Elevator Tripod features a working height range of 4.10 ft (1.20 m) collapsed to 8.60 ft (2.62 m) extended with the center column at full height
- Center column independently lifts 1 meter (90558-050)
- A gear box controls lift and descent so the center column cannot free fall
- The 5/8 x 11 mounting head is removable and adjustable in azimuth direction
- Fiberglass Legs

- Additional 1 meter section may be added for a total recommended height of 10 ft (3 m) for instruments under 15 lb (6.80 kg)
- Sections can move up or down
- column and fiberglass legs makes for a robust and easy-
- 25 lb (11.33 kg) under most conditions
- Weighs 29.00 lb (13.20 kg)
- Collapsed length 53 in

# Machined-aluminum elevator

- to-use laser instrument tripod Stable for instruments up to

APPLICATIONS

Robotics

Scanning

▶ Leveling

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

# Short Tri-Max

Tri-Ma

90557-050

# Standard Tri-Max quality in a smaller size

#### **FEATURES & BENEFITS**

- ▶ The Tri-Max<sup>®</sup> Short Quick Clamp Tripod features the exact same design and construction as the full-size (90550) Tri-Max but it is more portable
- Extends to 5.67 ft (1.73 m)
- Collapses to 3.44 ft (1.05 m) Highly recommended for all servo-driven and robotic total stations and 3-D laser

Fiberglass legs

scanners

▶ Weighs 15.40 lb (7.00 kg)

#### **APPLICATIONS**

- Robotics
- Scanning
- ▶ Leveling



# **INSTRUMENT TRIPODS**



# INSTRUMENT TRIPODS



Heavy-Duty Birch Wood Tripods	Improved kiln dried birch wood tripod models
Birch Wood Tripods	<ul> <li>FEATURES &amp; BENEFITS</li> <li>Made of high quality birch hardwood with wide-frame extension legs and 123mm (0.91") dowels</li> <li>Large 6.5" (165mm) aluminum head</li> <li>Dual Lock</li> <li>Twist locks with die cast leg bands for maximum locking</li> <li>Quick clamps, adjustable, for quick sets ups</li> <li>Powder Coated metal fittings</li> <li>Aluminum shoe with hardened steel replaceable</li> <li>Shoe points</li> <li>Instrument Fastener brass 5/8-11</li> <li>Includes heavy-duty polywebbing shoulder strap for ease of carrying to the job site (not shown)</li> </ul>
Disclaimer: the full-view tripod is a composite photograph for illustrative purposes	PART ND.       MATERIAL       EXTENDED       COLLAPSES       CLAMPING       HEAD       WeiGHT       COLOR         5220-13-BLK       Wood       68" (173 cm)       43" (109 cm)       Dual Locks       Round       16.5 lb (7.48 kg)       Black       Image: Color and C
Aluminum Elevator Tripods	Locking leg stabilizers provide greater stability
	<ul> <li>FEATURES &amp; BENEFITS</li> <li>Aluminum elevator tripods have smooth operating adjustable center columns</li> <li>Black hardware</li> <li>Tough kick-in cleats and points</li> <li>Features a built-in circular vial in the instrument head and safety chains on the legs to prevent slipping on hard surfaces</li> <li>Will fit in tripod carrying bag 8154-12 (page 67)</li> <li>APPLICATIONS</li> <li>Ideal for lasers, scanners, machine control or other instruments</li> </ul>
	PART ND.     LOCK TYPE     HEAD     EXTENDS     COLLAPSES     WEIGHS       5321-16-BLK     Quick Clamp     Elevator / Round     7.60 ft (2.3 m)     4.26 ft (1.26 m)     16.30 lb (7.39 kg)
Square Leg Aluminum Tripods	5321-16-BLK Quick Clamp Elevator / Round 7.60 ft (2.3 m) 4.26 ft (1.26 m) 16.30 lb (7.39 kg)
	<ul> <li>FEATURES &amp; BENEFITS</li> <li>Equipped with square outer dowels for a more secure lock</li> <li>These tripods are equipped with a 5/8 x 11 threaded adapter for convenient mounting of instruments</li> <li>They're built to last—with heavy construction throughout— and are designed to withstand rigorous field conditions</li> <li>APPLICATIONS</li> <li>Ideal for mounting theodolites, lasers, auto levels, or total stations</li> </ul>
	PART NO.         LOCK TYPE         LEGS         WEIGHS         EXTENSION         HEAD         HARDWARE         COLLAPSES           5301-31-BLK         Quick Clamp         Aluminum (Square)         9.70 lb (4.40 kg)         64 in (1.60 m)         Triangle / Flat         Black         40.55" (1.03 m)
	S301-31-ORG         Quick Clamp         Aluminum (Square)         9.70 lb (4.40 kg)         64 in (1.60 m)         Triangle / Flat         Orange         40.55" (1.03           5301-31-ORG         Quick Clamp         Aluminum (Square)         9.70 lb (4.40 kg)         64 in (1.60 m)         Triangle / Flat         Orange         40.55" (1.03



# INSTRUMENT TRIPODS AND ACCESSORIES

# Round Leg Aluminum Tripods

# Sturdy and lightweight tripods for many applications

# FEATURES & BENEFITS

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

#### APPLICATIONS

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

PART NO.	LOCK TYPE	WEIGHS	EXTENSION	COLLAPSED HEIGHT	HEAD	HARDWARE	
5301-21-ORG	Quick Clamp	9.35 lb (4.24 kg)	65 in (1.65 m)	40.35 in (1.025 m)	Triangle / Flat	Orange	
5301-21-BLK	Quick Clamp	9.35 lb (4.24 kg)	65 in (1.65 m)	40.35 in (1.025 m)	Triangle / Flat	Black	
5301-25-BLK	Quick Clamp	7.45 lb (3.38 kg)	63.5 in (1.60 m)	38.58 in (0.98 m)	Triangle / Flat	Black	
5301-24-BLK	Quick Clamp	6.75 lb (3.06 kg)	27 in (68.65 cm)	20.47 in (0.52 m)	Triangle / Flat	Black	
5311-21-ORG	Quick Clamp	7.60 lb (3.45 kg)	63.5 in (1.60 m)	40.35 in (1.025 m)	Dome	Orange	

# Tripod Dolly

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

# FEATURES & BENEFITS

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





5610-15 — Tripod Dolly

# INSTRUMENT TRIPODS ACCESSORIES



**Cross Reference Table** 

Bags and Cases For Instrument Tripods

BAGS	PAGE NUMBER	TRIPODS WILL FIT	
8150-20-ORG	Pg. 66	Every Tripod Except for; 90558, 90560, 5321-17-ORG	
8153-10-ORG	Pg. 66	5321-17-ORG and 5115-00	
8154-00-ORG	Pg. 66	5119-00	
8154-10-ORG	Pg. 66	5300-11 and 5300-12	
8154-11-ORG	Pg. 66	Every Tripod Except for; 90558, 90560, 5321-17-ORG	
8154-12-ORG	Pg. 66	5119-10	

#### Instrument Tripod Accessories









# **SVR Brackets** for Laser Receivers



#### Easily attaches to SVR rods

#### **FEATURES & BENEFITS**

- Brackets are needed to attach laser sensors to the SVR rod
- Top or side brackets are
- available for all popular laser receiver models
- Use with an SVR rod to mount your laser receiver

#### APPLICATIONS

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

# 'E' Pattern Builder's Rods

#### Dual-sided lightweight rod

- **FEATURES & BENEFITS**
- Features a standard 'E' pattern
- Lightweight aluminum sections are in contrasting white, red and black colors and have round spring-loaded locking buttons
- Graduations are cm on the front Back Side Scale is either a
- Height Scale or a Standard Scale
- Includes a level vial and case
- Foundations

Forms

Grading

Masonry

Site work

Landscaping

- Sewers
- Slab work

APPLICATIONS

Grading

Masonry

Site work

▶ Landscaping

Foundations Sewers

Slab work

▶ Forms

APPLICATIONS

PART NO.	LENGTH	GRADS	BACK SIDE SCALE	WEIGHS	
7341-41	4 m	cm	Height Scale MM	3.10 lb (1.40 kg)	
7341-45	4 m	mm	Standard Scale MM	3.10 lb (1.40 kg)	
7341-51	5 m	cm / mm	Standard Scale MM	3.80 lb (1.73 kg)	
7341-52	5 m	cm / inches	Standard Scale MM	3.80 lb (1.73 kg)	
7341-55	5 m	cm / mm	Height Scale MM	3.80 lb (1.73 kg)	
7341-56	5 m	UK cm / mm	Standard Scale MM	3.80 lb (1.73 kg)	

# Aluminum Builder's Rods

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# 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
- level and protective bag

\*Replacement buttons PN: 70014-6 or 70014-7 (see page 47)

- Each rod includes a special
- LENGTH GRADS PART NO. SECTIONS WEIGHS 7321-30 3 9 ft, 9.5 in 8ths 2.40 lb (1.10 kg) 7301-30 9.8 ft 10ths 2.40 lb (1.10 kg) 3 13 ft, 1.38 in 7321-40 4 8ths 3.10 lb (1.40 kg) 7301-40 13.12 ft 4 10ths 3.10 lb (1.40 kg) 7341-40 3.10 lb (1.40 kg) 4 4 m 5 mm 7321-50 5 16 ft, 4.75 in 8ths 3.50 lb (1.60 kg) 7301-50 16.4 ft 10ths 3.50 lb (1.60 kg) 5





ġ

44-321488765

Surveyor's Series (SVR)

Leveling Rods

# LEVELING RODS

#### Waterproof and wear-resistant

## **FEATURES & BENEFITS**

- ▶ Features a new shorter collapsed length (58.5 inches on 25 ft versions) and a lighter weight
- Constructed of strong, rigid fiberglass with reinforcing ribs for added stability
- Water-resistant and nonconductive
- 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

Includes carrying case. Order 91411 for replacement carrying case - see page 67

- - Grading Masonry
    - Site work ▶ Forms

      - ▶ Landscaping Foundations

APPLICATIONS

- Sewers
- Slab work

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wear-resistant scales.

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

# Standard/Pro Series (LR) Leveling Rods

# Round rod is wind resistant

#### FEATURES & BENEFITS

- ▶ The LR Series leveling rods are round and easy to handle The LR-STD is available in a
- 25 ft model in 10ths, inches, and 0.5 cm metric scales
- The LR-PRO is larger in diameter so sturdier and easier to read
- > The LR-PRO is available in 25 ft, 35 ft and 45 ft lengths in feet/10ths/100ths

#### **APPLICATIONS**

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

Includes carrying case. Order 91402 for replacement carrying case - see page 67

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



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







mounted directly to the rod - no bracket required!

Rounded	hack	corners	f∩r	hetter	arinnina
1 COULIGOU	DUDIN	00111010	101	DOLLOI	gripping

#### FEATURES & BENEFITS

- ▶ Features a rectangular shape with rounded back corners for better gripping Scale width is graduated to fill the entire face of the rod and
- measuring scale on the back side that allows for overall height readings
- For laser detector mounting with no special brackets required
- Made with strong fiberglass which is waterproof, corrosion-resistant and nonconductive
- Features 1/4 x 20 female adapter in the top section
- APPLICATIONS
- Grading
- Masonry
- Site work
- ▶ Forms
- ▶ Landscaping
- Foundations
- Sewers
- Slab work

red and white)

prism attachment

Includes carrying bag

▶ 5/8 x 11 female thread for

Includes carrying case. Order 91410 for 8 ft or 91411 for 13 - 20 ft replacement carrying case - see page 68

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

# **SK Leveling Rods**



# **FEATURES & BENEFITS**

- ► Non-conductive lightweight fiberglass leveling rods
- Waterproof and corrosionproof even against seawater
- Unique patented oval shape permits equal size graduations full-length, prevents rod from rolling and is easier to hold

Numerals and graduations are epoxy-protected for maximum wear-resistance and sized for maximum readability.

- The Level Rod Sections are cushioned with glides to prevent wear.
- Height measuring gauge on the back side (see illustration

7400-10 — SK Leveling Rod Feet / in 10ths 7400-20 — SK Leveling Rod Feet / in 8ths 7400-30 — SK Leveling Rod Metric (E-Type)





# LASERLINE MFG.

LaserLine Mfg., Inc. is the world's largest manufacturer of direct reading (Lenker style) grade rods. We are proud to offer the highest in quality, selection and service.



# LASERLINE RODS



# LaserLine Detector Brackets

GR1000 & GR1450 Rods Match Guide

DETECTOR BRAND & MODEL	B-1	BI-LA	BI-T	B-550	B1-L570-80	B-STORM	B-CR700	B-LCA-C	UB-1
ADIR PRO LD-8	X								
AGATEC SR2000, RCR500									X
AGL LS-100		X							X
APACHE CYCLONE		X							
APACHE 33, 34 LIGHTENING	X								X
APACHE LIGHTENING 2, TWISTER									X
APACHE STORM						X			
BOSCH LR-1									х
CST BERGER LD100N, LD120, LD400	X								X
CST BERGER RD1, RD5, LD90, LD440, LD440G									X
DAVID WHITE LD18									X
FUTTURA CR1									X
FUTTURA CR2+									X
FUTTURA CR3					X				X
FUTTURA C4						X			<b>^</b>
GEOMAX ZRD105, ZRD105B, ZRP105								X	
GEOMAX ZRB35									X
HILTI PRA 31, 35									X
LASER REFERENCE R4, R5, R7 (R8 OLD STYLE, THREADED HOLE)	X								X
LASER REFERENCE R8 NEWER, SLIDE BACK									X
LASER REFERENCE R9	X								
LEICA ROD EYE RVL 80									X
LEICA ROD EYE DIGITAL (OLDER)						X			
LEICA ROD EYE PRO/CLASSIC (OLDER)		X							X
LEICA ROD EYE PLUS (OLDER)									X
LEICA ROD EYE 120, 120G, 140, 160, 180								X	
LEICA COMBO								X	
PLS HVD 505R, HLD 1000									X
SITE PRO RD200	X								
SITE PRO RD202									X
SOKKIA LR100	X								X
SPECTRA PRECISION 1077, 1274, 1275	X								X
SPECTRA PRECISION 1175, 1177, 3075									X
SPECTRA HR200	X								X
SPECTRA HR150 (U), HR220, HR300									X
SPECTRA HR250, 320, 350									X
SPECTRA HR400, 500, CR 600			X						
SPECTRA HR550				X					X
SPECTRA HL450, 700, 750, 760						X			
SPECTRA CR700 COMBO							X		
TOPCON LS30, LS50, LS80, LS80A, LS1					X				X
					^				~
TOPCON LS100D		X							



# INTERIOR ALUMINUM POLE AND MEASURING TAPES



- designed to be used in the field for many years Single sided tape
- - PART NO. TYPE LENGTH GRADS 3003-06 PVC-Coated Fiberglass 100 ft 10ths 3003-07 **PVC-Coated Fiberglass** 200 ft 10ths 3003-10 **PVC-Coated Fiberglass** 30 m m/cm/mm 3006-06 Nylon-Coated Steel 100 ft 10ths 3006-07 Nylon-Coated Steel 200 ft 10ths 3006-10 Nylon-Coated Steel 30 m m/cm/mm Nylon-Coated Steel 3006-11 60 m m/cm/mm

winding crank







- Both models come with an industry exclusive 7 year warrantv
- Choose the standard model or the LCD meter model
- The ML-1M has visual indication in addition to audio Tube-through construction
- ensures strength and

to the handle

- Overall length: 38.75 in (98.4 cm)
- The system comes with a padded carrying bag and four alkaline 9-volt batteries - two to use and two spares
- Waterproof from bottom tip to LCD box
- Weighs 2.00 lb (0.91 kg)
- Perfect for locating survey corner markers, PK and Mag Nails, valve and covers, steel and iron pipes, well casings, steel tanks. lost tools or even downed and buried fence lines

Hard-shell case is impact resistant ABS plastic construction (ML-1-050, sold separately)

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





# GOPHER POLE AND STREAM GAUGES

## Gopher Pole Wire Installation Tool





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

## FEATURES & BENEFITS

- With its long, adjustable span of up to 22 feet, the Gopher Pole makes wiring easy in hard-to-reach areas such as suspended ceilings, sub-oors, crawl spaces and attics
- Ideal for pushing/pulling wire over long spans and acoustic ceiling tiles
- Telescopes from 4 to 22 feet (1.22 to 6.70 meters) in seconds

Q.

- Features a positive-locking system that won't accidentally collapse
- Features a strong but malleable metal tip that allows for easy shaping of the hook
- Sturdy and lightweight with no loose parts; constructed of durable non-conductive fiberglass

TEOPHER POL

#### APPLICATIONS

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

Stream Gauges



**FEATURES & BENEFITS** Stream Gauges allow you to

90520 — Gopher Pole Wire Installation Tool 91415 — Carrying Case (not included)

Allows you to instantly see water levels

- instantly see water levels Fiberglass stream gauges are the best permanent marker in
- a variety of applications and environments Sturdy fiberglass assures a long life, it does not rot, rust
- or corrode Stream gauges are provided in separate units that can be used separately or combined

for convenient measuring

Easy to read at long distances, gauges are protected with a non-glare coating and are easy to mount

- Stainless steel fasteners are provided which will attach to most surfaces including metal, masonry, wood, and many other surface types
- ▶ 1/8 inch thick and the predrilled holes for mounting have a diameter of 1/4 inch • Gauges may be ordered in successive increments to

form ranges and elevations

Number plates (sold separately) may be used to customize elevations for a particular application

#### **APPLICATIONS**

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

7-inch Stream Gauges feature 2-1/4 inch (5.72 cm) tall numbers 4-inch Stream Gauges features 1-1/4-inch (3.175 cm) tall numbers Use unnumbered gauges for height beyond 15.5 ft, 16 ft, or 3.66 m as needed

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





4-inch-wide

# STREAM GAUGE HARDWARE, NUMBER PLATES AND HAND LEVELS





# Hand Levels

2 power stadia hand level with very sharp field of view and a stadia ratio 1:32



- ▶ Hand-finished for smooth and accurate operation
- Etched glass prisms and precision ground lenses
- There are no exposed screws to cause adjustment failure
- When taken apart for cleaning, they can be completely assembled and adjusted in the field
- The interiors are non-glare
- The exterior has a highly visible powder coating finish
- Five inches long when closed; seven inches long opened
- All hand levels include a leather carrying case with belt loop and snap flap, parts list and instructions

Manufactured by Kuker-Ranken

4300KR — 2-Power Stadia Hand Level



# Magnetic Dampened Auto Level







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

# FEATURES & BENEFITS The 32X auto level features

a sturdy metal Japanese-

dampened compensator

Fits 5/8 x 11 flat or domed

The top cover plate is easily

100 feet (with good weather

removed for adjustment

Accurate to 1/16 inch per

tripods

conditions)

style body with a magnetic

- Includes carrying case
   Air dampened auto compensator
  - Double-sided, continuous horizontal tangent drives
  - Stadia lines for simple distance measurement
  - Water resistant constructionConvenient horizontal angle
  - measurementBuilt in bubble mirror and
  - optical sighting alignment

 Metal housing for increased durability

#### APPLICATIONS

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

PART NO.	POWER/DAMPENING	٦	ripod	ROD	
4811-24	24X / Magnetic Dampened		No	None	
4811-32	32X / Magnetic Dampened		No	None	
AL24A	24X / Air Dampened		No	None	
AL24M	24X / Magnetic Dampened		No	None	
AL32A	32X / Air Dampened		No	None	
SPECIFICATIONS	4811-24	4811-32	AL24A	AL24M	AL32A
Magnification	24X	32X	24X	24X	32X
Objective Diameter	36 mm	42 mm	30 mm	30 mm	36 mm
Field of View Angle	1° 20'	1° 20'	1° 20'	1° 20'	1° 20'
Shortest Focusing Distance	0.3 m	0.3 m	0.6 m	0.6 m	0.6 m
Stadia Constant	100	100	100	100	100
Additive Constant	0	0	0	0	0
Compensator Dampening	Magnetic	Magnetic	Air	Magnetic	Air
Compensator Range	±15'	±15'	±15'	±15'	±15'
Compensator Setting Accuracy	<0.5"	<0.5"	<0.5"	<0.5"	<0.3"
Double Run Leveling per 1 km	2 mm	1 mm	2 mm	2 mm	1 mm
Circular Vial Accuracy	8/2 mm	8/2 mm	8/2 mm	8/2 mm	8/2 mm
Horizontal Circle	1°	1°	1°	1°	1°
Base Plate	5/8 x 11	5/8 x 11	5/8 x 11	5/8 x 11	5/8 x 11
Color	Red	Red	Yellow	Yellow	Yellow
Weight	3.97 lb (1.80 kg)	3.97 lb (1.80 kg)	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)	3.50 lb (1.60 kg)



# OPTICAL INSTRUMENTS



# **Construction Theodolite**

Full-featured digital theodolite for construction



DE-50 Optional eye piece sold separately

- FEATURES & BENEFITSDesigned for general
- construction applications
   The Spectra Precision
   DET-2 digital electronic theodolite gives you accurate measurements in an affordable, versatile, easy to use platform
- Offers dual displays and controls for easy accessibility and operation, very large backlit LCD characters for easy reading (also, reduces eye strain and chance for errors), and a host of features and parameters normally found on much higher priced instruments
- Fast investment payback is the goal of the Spectra Precision DET-2
- With its 2-second accuracy (1- or 5-second selectable display readings) and vertical axis compensation, it can handle any construction job
- Operating costs are kept low with the included rechargeable battery pack and charger

Able to be fully customized for your preferred operating style or job, with programmable settings for the horizontal angle resolution and beep, vertical degrees or %, automatic shutoff (to save battery life), and zenith angle

- A backup alkaline pack holding four standard AA batteries is also included
   Includes a built-in reticle illuminator that allows you
- illuminator that allows you to work inside buildings and other environments with little or no light, such as near dawn or dusk
- You can count on working in difficult conditions with an environmental rating of IP-54 making it water and dustproof
- Comes equipped with a plumb bob, NiMH rechargeable battery pack and charger, alkaline battery pack, adjustment tools, rain hood, multi-language user guide, and hard-shell carrying case
- Accurate enough for any job,

yet the display resolution can be tailored to any operator's preferences for fast readings

- Vertical axis compensation can be turned on or off depending on the operator or job
- Programmable settings for the horizontal angle resolution and beep, vertical degrees or percent are easy to configure
   The recharge kit reduces
- Fine recharge kit reduces operating costs and downtime
   For Specifications see
- website

#### APPLICATIONS

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

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



# Batter Board Clamp Accessories and components for rotating lasers

#### FEATURES & BENEFITS

- Attaches to boards with thicknesses up to 2.17 in (55 mm)
- Mounting plate with its 5/8 x 11 screw can easily be removed when connecting it to a laser or theodolite
- Nail hole ensures that a theodolite's axis is positioned

exactly over the reference point

- Soft-touch locking knobs prove comfortable when using in cold and wet weather
- 3-point contact for secure, sturdy grip
- Quick release clamp for quick instrument attachment
- Weighs 2.43 lb (1.10 kg)

# APPLICATIONS

 Perfect for a laser for vertical applications or Theodolites

4852-14 — Batter Board Clamp





# Rebar Bolts



# FEATURES & BENEFITS Measures 3/4 x 9.9 inches (19.05 x 251.46 mm) long

- Includes a hex bolt used to hammer the bolt in to the surface
- Once installed, remove the hex bolt and install the 6601-Series adapter of your choice (see page 37)
- Weighs 1.25 lb (0.57 kg)

6602-03 — Rebar Bolt M8 Threads

# Wall/Column Bracket for Lasers and Total Stations

# Dual mounting options enable flexibility on the construction job site

# FEATURES & BENEFITS

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

#### APPLICATIONS

 For use with Lasers and Total Stations on large construction sites



sēco

# COLUMN CLAMPS AND BRACKETS







ISEA compliant polyester and

zippers, 4-inch (10.16 cm)

(5.08 cm) wide silver stripes

wide reflective tape with

made with 3M Scotchlite

Padded collar is made with

Tested for electromagnetic

Functional vest including many quality features (multiple pockets for cell phone, tapes, radio, pencils, maps. sprav cans. inside pockets and mic clips) ▶ Soft reflective materials

Outlast® Adaptive Comfort®

**Reflective Material** 

# Safety Lighted Utility Vest 8265-LED-Series









Retroreflective and Active Lightning Features minimize injury risk by making workers visible in dark or poorly lit environments

THE VEST

2-inch

material

compliance Safe working in wet conditions

conditions

eflection

polyester mesh

Features include YKK

#### **FEATURES & BENEFITS**

- Developed in conjunction with surveyors from the California Department of Transportation to improve safety without sacrificing functionality
- ANSI/ISEA Class 2 compliant
- Longer visibility range than standard reflective safety vest.
- Enhanced visibility without the need for incident / external light source



The vest will light up as soon as the USB is inserted into the charged battery. Press the button at the shoulder to toggle from pulse to continuous lighting. Turn off by holding the button down for 1-2 seconds.

Available in Fluorescent Yellow or Fluorescent Orange

**Improving Safety** 

Polyester mesh with cooling

properties for hot and humid

#### THE ACTIVE Made from durable ANSI/

# ILLUMINATION

- ▶ Flexible light and homogenous illumination
- Suitable for washing and drying process in apparels
- Guaranteed for at least 20 wash cycles (15 more than the standard requires)
- ▶ 8-hour battery life thanks to long-lasting batteries
- Low 5-volt voltage to ensure safetv in wet working



Power capacity 5000 mAh

Note: Item can be purchased separately

D13038 — SECO Power Bank 5000 mAh



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

Ask Us About Our Class 3 LED Vests

# ANSI/ISEA CLASS 3 & 2 SAFETY UTILITY VESTS



# Safety Utility Vest 8365-Series

### Designed to meet ANSI/ISEA Class 3 Standards

# FEATURES & BENEFITS

- Made from durable ANSI/ ISEA compliant polyester and polyester mesh
- Features include YKK™ zippers, 4 inch (10.16 cm) wide reflective tape with 2 inch (50.8 mm) wide silver stripes made with 3M Scotchlite<sup>®</sup> reflective material
- Adaptive Comfort<sup>®</sup> material by Outlast<sup>®</sup>, a Certified Space

Technology™, designed to balance body temperature ► Developed in conjunction with surveyors from the California Department of Transportation

- Includes many quality features; multiple pockets for cell phone, tapes, radio, pencils, maps, spray cans and etc
- Plus, two inside pockets and comes with dual mic clips

#### APPLICATIONS

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

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

#### Safety Utility Vest 8265-Series

# Designed to meet ANSI/ISEA Class 2 Standards

# FEATURES & BENEFITS

- Developed in conjunction with surveyors from the California DOT
- Features include bright fluorescent material, 4 inch (101.6 mm) wide contrasting reflective material with 2 inch (50.8 mm) wide silver stripes made of 3M<sup>™</sup>
- Scotchlite™ reflective material Made of durable polyester, brass

grommets, heavy-duty webbing and trim, and a genuine YKK™ zipper

- Adaptive Comfort<sup>®</sup> material by Outlast<sup>®</sup>, a Certified Space Technology<sup>™</sup>, designed to balance body temperature
   Features four large pockets on the
- outside and two generous pockets on the outside and two generous pockets on the inside – great for field books, tapes, pencils, flagging,

cell phones, etc

Includes two spray can holders

## APPLICATIONS

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

	2001, apos, ponono, nagging,		
PART NO.	COLOR	SIZE	
8265-42-FLY	Fluorescent Yellow	42 (S)	
8265-42-FOR	Fluorescent Orange	42 (S)	
8265-46-FLY	Fluorescent Yellow	46 (M)	
8265-46-FOR	Fluorescent Orange	46 (M)	
8265-50-FLY	Fluorescent Yellow	50 (L)	
8265-50-FOR	Fluorescent Orange	50 (L)	
8265-54-FLY	Fluorescent Yellow	54 (XL)	
8265-54-FOR	Fluorescent Orange	54 (XL)	
8265-58-FLY	Fluorescent Yellow	58 (XXL)	
8265-58-FOR	Fluorescent Orange	58 (XXL)	
8265-62-FLY	Fluorescent Yellow	62 (XXXL)	
8265-62-FOR	Fluorescent Orange	62 (XXXL)	
8265-66-FLY	Fluorescent Yellow	66 (J)	
8265-66-FOR	Fluorescent Orange	66 (J)	





# ANSI/ISEA CLASS 2 SAFETY UTILITY VESTS

# Safety Utility Vest 8068-Series



# Designed to meet ANSI/ISEA Class 2 Standards and are ANSI 2020 Compliant

# FEATURES & BENEFITS

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

#### APPLICATIONS

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

PART NO.	COLOR	SIZE	
8068-42-FLY	Fluorescent Yellow	42 (S)	
8068-42-FOR	Fluorescent Orange	42 (2)	
8068-46-FLY	Fluorescent Yellow	46 (M)	
8068-46-FOR	Fluorescent Orange	46 (M)	
8068-50-FLY	Fluorescent Yellow	50 (L)	
8068-50-FOR	Fluorescent Orange	50 (L)	
8068-54-FLY	Fluorescent Yellow	54 (XL)	
8068-54-FOR	Fluorescent Orange	54 (XL)	
8068-58-FLY	Fluorescent Yellow	58 (XXL)	
8068-58-FOR	Fluorescent Orange	58 (XXL)	
8068-62-FLY	Fluorescent Yellow	62 (XXXL)	
8068-62-FOR	Fluorescent Orange	62 (XXXL)	
8068-66-FLY	Fluorescent Yellow	66 (J)	
8068-66-FOR	Fluorescent Orange	66 (J)	

## Safety Utility Vest 8069-Series

# Designed to meet ANSI/ISEA Class 2 Standards and are ANSI 2020 Compliant

#### **FEATURES & BENEFITS**

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

# APPLICATIONS

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





to close vest	clip	visibility is desired	
PART NO.	COLOR	SIZE	
8069-42-FLY	Fluorescent Yellow	42 (S)	
8069-42-FOR	Fluorescent Orange	42 (S)	
8069-46-FLY	Fluorescent Yellow	46 (M)	
8069-46-FOR	Fluorescent Orange	46 (M)	
8069-50-FLY	Fluorescent Yellow	50 (L)	
8069-50-FOR	Fluorescent Orange	50 (L)	
8069-54-FLY	Fluorescent Yellow	54 (XL)	
8069-54-FOR	Fluorescent Orange	54 (XL)	
8069-58-FLY	Fluorescent Yellow	58 (XXL)	
8069-58-FOR	Fluorescent Orange	58 (XXL)	
8069-62-FLY	Fluorescent Yellow	62 (XXXL)	
8069-62-FOR	Fluorescent Orange	62 (XXXL)	
8069-66-FLY	Fluorescent Yellow	66 (J)	
8069-66-FOR	Fluorescent Orange	66 (J)	



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



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

#### FEATURES & BENEFITS

- Manufactured to meet ANSI/ ISEA 107-2015 Class 2 and CSA-Z96 standards
   Vest compartments include
- a field notebook pocket, pencil slots, flagging tape pocket with grommets, and an internal cell phone pocket
- Includes a special padded collar made of Outlast<sup>®</sup>

 material for added comfort
 Four-inch-wide reflective tape that includes a two-inch-wide silver stripe and high-vis material makes this vest highly visible in any weather condition — day or night

- Also including two exterior radio mic clips and a front closing zipper
- Made of 100% polyester

#### APPLICATIONS

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

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

# Hydration Backpack

#### Stay hydrated on the job while maintaining workplace safety



# FEATURES & BENEFITS

Chest strap, side release

buckle

safety vest)

20 x 8 inches (50.8 x 20.32 cm)

▶ 4-inch (101.6 mm) wide fabric

polypropylene webbing allows

8125-60-FOR — Hydration Backpack BLADDER-L-BLU-T — Replacement Bladder

with 2-inch (50.8 mm) wide

reflective tape (same as

shoulder straps to adjust

1000D Cordura Nylon is

1-inch (25.4 mm) wide

- bonded to the 1/4-inch (6.35 mm) back padding
- Neoprene sleeve surrounds the hydration tube
- Bladder size 2.5 liters (84.5 fl oz)
- When bladder is completely full the hydration pack is 5 inches (127 mm) thick
- Mod-U-Lox<sup>®</sup> keeps hydration tube secure on either strap, allowing access to the bite valve for either right- or left-

handed use (one on each side)

- Weighs (with water) 6.70 lb (3.03 kg)
- Weighs (without water) 1.20 lb (0.54 kg)

Applications

- Workplace Safety
- Construction environment



Backpack Carrying System



# Easy to mount backpack system for carrying all large instrument containers

- FEATURES & BENEFITS
  Easy to mount carrying
- System backpack
   Compatible with all large total
- Station models
   Comfortable padded straps
- and padded back
- Ideal solution to carry total station and accessories from one job site to another

- Weight: 4 lbs
  Measures: 24 x 12 x 5 inches
  - (folded)

#### Applications

- Keeps your total station safe and secure during transportation
- Workplace safety
- Construction environment

PART NO.	COLOR	LED LIGHT	
D13035-BLK	Black	No	
D13035-KHA	Khaki	No	



# Utility Bags and Miscellaneous Cases

- Features four exterior deepzippered pockets — two front and two side
- ➤ Two interior pockets 14 x 12 x 2 inches with hook-and-loop closures
- Heavy-duty nylon webbing carrying straps
- Measures 30 x 14 x 20 inches (76.2 x 35.6 x 50.8 cm)
- Weighs 3.78 lb (1.72 kg)



8106-10-ORG — Monster Gear Bag

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



8143-22-FLY — GNSS Rod Cell Phone Case

# Tool Pouches

Designed to keep your tools safe and organized

Features include an 11 x 7 inch (28 x 18 cm) and 6 x 4 inch (15 x 10 cm) pouches
Has slots for markers, a loop for axes or hammers
Weighs 0.40 lb (0.18 kg)
Features a 9 x 2 x 11 inch (22.9 x 5.08 x 27.9 cm) pocket
Large pocket is lined with two layers of 1000D Cordura
Webbed belt adjusts to a 50 inch (127 cm) waist
Includes a hammer loop and marker storage
Weighs 1.05 lb (0.48 kg)
8046-20-ORG — Construction-Style Tool Pouch

Designed to keep your field equipment and supplies safe and secure

 Excellent for carrying surveying accessories, clothing, and other miscellaneous gear

**BAGS AND CASES** 

- Made of heavy-duty water resistant polyester
- Measures 27 x 11 x 11 inches (69 x 28 x 28 cm)
- Weighs 1.56 lb (0.71 kg)



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

- Fits most large controllers like the Ranger<sup>™</sup> series, Allegro, TSC3<sup>™</sup>
- Features a Velcro<sup>®</sup> flap closure, belt loop and shoulder strap
- Main compartment measures 10.25 x 5.25 x 2 inches (26 x 13.3 x 5 cm)
- Padded with 0.25 in (6.35 mm) 1000D Cordura material with khaki trim
- Outside pocket is 6 x 5 in (15 x 12.7 cm)
- Weighs 0.35 lb (0.16 kg)

8142-01-ORG — Large Controllers Case

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



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

▶ The MiFi Hotspot Case secures any MiFi unit to any GNSS survey pole or prism pole

- Easily attaches to a GNSS or prism pole with the metal clamp on case
- This pouch stays in place; it will not slip down the pole
- Features a window to clearly view the installed unit activity
- Works with all MiFi Hotspots and most smart phones on the market today
- A Velcro strap keeps unit safely inside clear pouch
- Inside dimensions 6 x 4.25 inches (15.24 x 10.8 cm)
- Constructed of heavy-duty Cordura<sup>®</sup>

8143-40-FLY — MiFi Hotspot Case

- Comes in fluorescent yellow
- Weighs 0.35 lb (0.16 kg)













# BAGS AND CASES



91417

4.5 x 76 in (11.43 x 193.04 cm)

# **BAGS AND CASES**







# BAGS AND CASES

## Total Station, GIS and GNSS Backpacks

- This pack includes a cam-lock antenna pole, adjustable straps, several interior pockets, belt loop straps, rain flap and much more
- Interior dimensions (measured between the pads): 15 x 9 x 4 in
- Pole extends from 15 7/8 to 32 inches (40.3 to 81.3 cm)
- Has 5/8 x 11 tip on antenna pole
- ▶ Weighs 2.00 lb (0.91 kg)



#### 8125-50-ORG — Small GIS Backpack D10694-T — Replacement Range Pole, Twist Lock

- Features a double-zipped, top-loading station compartment lined with rigid foam padding, two side pockets for cables, and one front battery pocket
- Comfortable padded belt with lumbar back support system, shoulder straps with all-point adjustment features, and a rubberized carrying handle
- The free-standing aluminum frame keeps the pack upright even when fully loaded
- Has a top rain flap with closure and rain flaps on the side pockets
- Features a Rhinotek bottom
- Interior dimensions (measured between the pads): 17 x 10 x 10 in

- Exterior dimensions: 24.5 x 15 x 16 in
- ▶ Weighs 8.00 lb (3.62 kg)
- Holds 40 lb (18.14 kg)

# 8134-00-ORG — Robotics Backpack

Heavily padded for single prisms

Interior dimensions (measured)

between the pads): 5 x 7 x 2 inches

Weighs 0.48 lb (0.22 kg)

Easily holds a tribrach

Weighs 0.40 lb (0.18 kg)

(measured between the pads):

8071-00-0RG — Tribrach Case

Interior dimensions

6 x 6 x 2 inches

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

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

- ▶ 8120-40: Height 18" (46 cm), Bottom - 9" X 10" (23 cm x 25 cm)
- ▶ 8120-30: Height 15" (38 cm), Bottom - 7" X 9" (18 cm x 23 cm)
- Weighs 2.40 lb (1.10 kg)

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

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

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



Holds target with tribrach and adapter

¥.

- Interior dimensions (measured) between the pads): 15 x 8 x 2 inches
- Available in Orange
- Weighs 1.45 lb (0.66 kg)





.....

(measured between the

pads): 12 x 12 x 3 inches

8082-00-ORG — Super Jumbo

Weighs 1.85 lb (0.84 kg)

Padded Bag

# MAGNETIC NAILS AND HAND TOOLS



# ChrisNik MagNails®, MagSpikes® and MagHubs®

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

Corrosion resistant and magnetized for easy detection

- most durable survey marker in the industryLike the Mag Nail the Mag Spike is magnetized for easy detection
- Featuring a large center point and 1-inch (25.4 mm) diameter head makes it great for control points and property corners
- Made in the USA
- The Mag Hub is magnetized for easy detection and zinc plated to resist corrosion
- Featuring a large center point and looks like a standard survey marker
- Not made to be driven into asphalt or concrete
- Easy to carry and less expensive than stakes
- Mag Hubs come in a 30 lb (13.61 kg) box approximate quantities are below
- Free Freight does not apply.







PART NO.	SIZE	QUANTITY	WEIGHTS					
	Chrisnik MagNails							
24750-CS	3/4 x 1/8 inch	100 per box, 12 box per case	7 lb/case					
241000-CS	1 x 5/32 inch	100 per box, 12 box per case	11 lb/case					
241250-CS	1 1/4 x 3/16 inch	100 per box, 12 box per case	18 lb/case					
241500-CS	1 1/2 x 1/4 inch	100 per box, 12 box per case	33 lb/case					
242000-CS	2 x 1/4 inch	100 per box, 12 box per case	41 lb/case					
242500-CS	2 1/2 x 1/4 inch	100 per box, 12 box per case	48 lb/case					
		Chrisnik MagSpikes						
253MAGSPIKE	3/8 x 3 inch	25 per box	2.5 lb (1.13 kg)					
256MAGSPIKE	3/8 x 6 inch	20 per box	4.00 lb (1.18 kg)					
258MAGSPIKE	3/8 x 8 inch	20 per box	5.00 lb (2.27 kg)					
		Chrisnik MagHubs						
23MAGHUB6	1/4 x 6 inch	Approx367	30.00 lb (13.61 kg)					
23MAGHUB8	1/4 x 8 inch	Approx272	30.00 lb (13.61 kg)					

# Flagging Dispenser



The steel Presco Roll Flagging Belt Dispenser is a convenient time-

......

Weighs 1.30 lb (0.59 kg)

saver

#### 8025-00-ORG — Padded Flagging Dispenser



# MISCELLANEOUS FIELD ACCESSORIES



# **RITE IN THE RAIN**



# Rite in the Rain

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





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

- ▶ Rite in the Rain bound books ensure that your valuable data won't be lost
- Overall Size: 4.625 x 7 inches (11.75 x 17.78 cm)
- Soft Cover Material: Polydura (recycled material)
- Binding: side-spiral
- Number of Pages: 64 (32 sheets)
- Books sold individually
- Weighs 0.20 lb (0.09 kg)





303 — Transit pattern Recyclable Side-spiral Notebook 353 — Field pattern Recyclable Sidespiral Notebook





# ROTHBUCHER SYSTEMS

Rothbucher Systems offers Smart Solutions in the syrvey field and for Monitoring. They are also very successful for BIM and the Digital Construction Site



RS Surveying Accessory System

SECO offers the full range of Rothbucher Systems products

# CONSTRUCTION

# Solutions for

- → Finished Floor Level
- → BIM
- → Digital Construction
- → Setting Out

# MONITORING

# Exceptional solutions for

- → Façades
- → Historic Buildings
- → Track Monitoring
- → Bridges
- $\rightarrow$  Etc.

# **ONE POINT FITS ALL**

One Reference Point for all instruments!

Create fixed points quickly, easily and permanently – a unique system with multiple options







Explaining video on YouTube

# **HIGH QUALITY SCANNER & DRONE TARGETS**

- $\rightarrow$  Also for hights even above 100 meters
- $\rightarrow$  Waterproofed
- → UV resistant
- → Targets also unfoldable available





Contact your SECO dealer for more information

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