



**THE OFFICIAL
ERGODYNE**



**DROP
COPS®
GUIDE**



THE
GUIDE
TO

DROPPED

THE
REASON
WE'RE HERE

MAKE WORKING





OBJECT PREVENTION

AT HEIGHTS SAFER AND MORE PRODUCTIVE

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DROPPED OBJECTS REPRESENT 5% OF DEATHS ON THE JOBSITE.

***BUREAU OF LABOR STATISTICS**



PREVENTION IS THE ANSWER.

//WARNINGS & SPECIAL NOTICES

The procedures outlined in this guide reference the best practices recognized by Ergodyne while using our safety solutions. Other manufacturers may have recommendations and rules specific to their equipment. Use of other manufacturer's equipment together with Ergodyne's equipment in a tool tethering system is not recognized as best practice and can also be considered a violation of our warranty. When in doubt, contact Ergodyne with any questions at www.ergodyne.com or +1 651 642 9889 // 800 225 8238.





THE SOLUTION

Aerial safety goes beyond your standard fall protection. In the past, objects at heights hazard-planning has been an afterthought – or not even a thought. Today, regulators and safety professionals acknowledge the serious, life-threatening risks of falling objects and are considering or promoting rules to ensure proper precautions are followed in the workplace. The key to

TOOL	TRAPPING	
	 TAIL  TRAP  SHACKLE	
		



A COMPLETE TETHERING SYSTEM

any hazard planning is prevention. PPE will help protect workers and minimize the damage in the event of a drop – but **preventing** that object from ever falling will eliminate the incident from occurring. This guide will help you and your crew identify the best system of solutions to protect you and your fellow workers from these dangerous at heights risks.

TETHERING

TOPPING





SECTION 1:

TOOL ANATOMY

THE GUIDE TO TOOL TETHERING

The first step in safe Objects at Heights management is analyzing what objects you are working with at height. In order to prevent dropped objects from occurring, it is important to know the characteristics of those objects. From there, you can choose the solution that works best.

// TOOL ANATOMY

Tool Type

Tool Weight and Size

Tool Type

To safely tether tools, start by identifying the type of tool it is, followed by its overall shape and body type (geometry). This will help determine:

- » Whether your tool can be directly tethered to a lanyard or if a trapped connection point needs to be applied.
- » Determine what type of retrofit connector is needed when your tool needs a connection point applied.

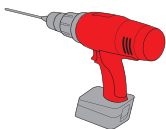
Step 1: Note which of these tool types best fits each tool being used and what type of geometry the tool has:

Primary Tool Types



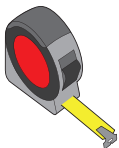
Hand Tools: Tools that have a natural, fully enclosed hole or handle built into the body of the tool.

Examples: Adjustable wrenches, hand saws, pipe wrenches



Power Tools: Tools that require a power source to operate. Most often a removable battery or cord.

Examples: Drills, impact drivers, grinders



Instruments: Tools with specific interfaces used for measuring, testing, communicating or lighting.

Examples: Tape measures, radios, cell phones, voltage meters



Other: Tools or equipment that don't fall into the other five categories.

Examples: PPE, clamps, canisters, water bottles



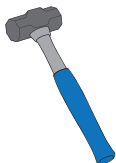
Geometry



Captive Hole or Handle: Tool has enclosed hole or handle engineered into the tool.



Captive Waist or Neck: Tool has inner midsection between two thicker ends.



Non-Captive: Tool has no captive geometry. Consists of an open ended handle or other design.

Tool Weight and Size

All Ergodyne Objects at Heights solutions, specifically dropped object prevention solutions, are built with a specified capacity marked on the product. You will need to compare the weight of the tool to the capacity of each solution you use.

Step 2: Measure the weight of each tool (do not guess!) and mark that weight on each tool, and/or note the weight in your equipment log.



Note: Add up the combined weight of the tool set being transported to an at-heights work location. This will be important when topped containers are discussed in a later section.



Step 3: Use a caliper, tape measure or ruler to measure the size of the tool to determine what type of attachments are needed to attach to it. For open ended and waisted tools, measure the diameter (thickness) of the area you would like a connection to be applied to. For captive tools, measure the size of the captive connection point to determine the appropriate lanyard connector to be used.



Step 4: Document the information in a tool inventory log.

Company A Tool Inventory Log									
Quantity	Serial	Tool Identification		Tool Description	Tool Dimensions		Tool Weight	Tool Material	Tool Location
		Tool Type	Tool Number		Length	Width			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

**FOR FURTHER OBJECTS AT HEIGHTS ENLIGHTENMENT,
BROWSE THE TENACIOUS U LIBRARY
UNDER THE “LEARN” TAB ON WWW.ERGODYNE.COM.**



SECTION 2:

THE THREE T'S

THE GUIDE TO TOOL TETHERING

The Dropped Object Prevention Best Practice involves using the Three T's of Aerial Safety:

- » Trapping – Creating connection points on tools**
- » Tethering – Connecting tools to an anchor**
- » Topping – Covering open containers**

TRAPPING

Trapping refers to retrofitting a connection point onto a tool for a safer attachment point. Most tools do not come with a secure attachment point built into the tool. In these situations, a secure attachment point must be created.

Step 1: Choose appropriate tool attachment based on determined tool anatomy. Refer to the documented tool anatomy from Section 1 (pg. 10).

Hand Tools:

- » Captive Hole/Handle: Consider Tool Tails™ (pg. 17) or continue to Step 2
- » Captive Waist/Neck: Continue to Shackles (pg. 19)
- » Non-Captive: Continue to Traps and Tails (pg. 17-23)

Power Tools:

- » Captive Hole/Handle: Consider Tool Tails™ (pg. 17) or continue to Step 2
- » Captive Waist/Neck: Continue Power Tool Traps (pg. 24)
- » Non-Captive: Continue to Brackets (pg. 25)

Instruments:

- » Captive Hole/Handle: Consider Tool Tails™ (pg. 17) or continue to Step 2
- » Captive Waist/Neck: Continue to Traps and Tails (pg. 17-23)
- » Non-Captive: Continue to Traps and Tails (pg. 17-27)

Other:

- » Determine appropriate solution (pg. 17-27)



Step 1B: Squids® Wire and Elastic Tool Tails™

Follow these simple steps to install the Squids® Wire Tool Tails™.

3704 WIRE LOOP TOOL TAIL™



INSERT TAIL THROUGH TOOL



CHOKE TOOL TAIL

3705 WIRE SCREWGATE TOOL TAIL™



INSERT TAIL THROUGH TOOL



CONNECT TOOL TAIL

3703/3713 ELASTIC TOOL TAIL™



WRAP TAIL AROUND TOOL



CHOKE TOOL TAIL

Step 1B: Squids® Hand Tool Traps™

Connection points can be tricky to find, especially on smaller hand tools like screw drivers and hex keys. Squids® Slips® are the perfect retrofit tool attachments for small hand tools.



CHOOSE SLIP SIZE FOR TOOL



CENTER THE SLIP ON THE TOOL



PUNCTURE INNER MEMBRANE



SLIDE THE SLIP INTO PLACE



Step 1B: Squids® Shackle Traps

Stainless steel U shaped shackles connect to waisted/necked tools (tapered mid-sections) or tools with captive holes, creating clean, secure attachment points for tethering.



UNSCREW THE CROSSBAR



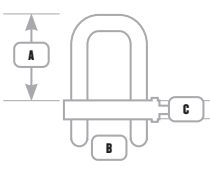
SLIDE U-SHACKLE AROUND TOOL



APPLY THREAD ADHESIVE



RECONNECT THE CROSSBAR

TOOL SHACKLES	A	B	C	
3790S	.75" / 19MM	.40" / 10MM	.20" / 5MM	
3790M	1" / 26MM	.50" / 12MM	.20" / 5MM	
3790L	1.25" / 32MM	.65" / 16MM	.30" / 8MM	
3790XL	1.5" / 38MM	.80" / 20MM	.40" / 10MM	

Step 1B: Squids® Tape Traps

Follow these simple steps to install the Squids® Tape Traps.

TAIL



TOOL



TRAP



How to Choose the Correct Trap and Tail:

Compare the weight of your tool and the tool's diameter to the Selection Grid to determine what combination of Tail and Trap works best for each tool. See selection grid in appendix, pg. 45.



3700 WEB TOOL TAIL + 3755 TAPE TRAP



PLACE TAIL ON TOOL



APPLY TAPE TRAP



WRAP TAPE AROUND TOOL & TAIL



LAY END DOWN

3713 ELASTIC TOOL TAIL + 3755 TAPE TRAP



CHOKE TOOL TAIL



CINCH BARREL LOCK



APPLY TAPE TRAP



LAY END DOWN

Step 1B: Squids® Cold Shrink Traps

Follow these simple steps to install the Squids® Cold Shrink Traps.



TOOL



TAIL



TRAP





WRAP TAIL AROUND TOOL



CHOKE TOOL TAIL



CINCH BARREL LOCK



BEGIN PULLING TRAP CORE



PLACE CORE AROUND TOOL



REMOVE ENTIRE CORE



EXAMINE PLACEMENT



ATTACH A LANYARD

How to Choose the Correct Trap and Tail:

Compare the weight of your tool and the tool's diameter to the Selection Grid to determine what combination of Tail and Trap works best for each tool. See selection grid in appendix, pg. 45.

Step 1B: Squids® Power Tool Traps

The power tool trap securely wraps around the battery portion of drills, impact drivers and other cordless power tools. D-ring connection point attaches to a lanyard to prevent drops.



UNDO ALL HOOK & LOOP STRAPS



PLACE POWER TOOL INTO TRAP



WRAP VERTICAL STRAP AROUND



SECURE VERTICAL STRAP



FEED STRAP THROUGH BUCKLE



PULL TIGHTLY AND SECURE



SECURE HOOK & LOOP STRAPS



ATTACH A LANYARD



Step 1B: Squids® Brackets

The Power Tool Bracket for Grinders creates a unique tool attachment point to tether corded and cordless grinder power tools with a tool lanyard.



ALIGN ALL COMPONENTS



THREAD INTO OPEN SCREWPORT



TIGHTEN ALL THE WAY



APPLY TORQUE TO FASTENER

Additional brackets also available



**3796 DRILL/IMPACT
DRIVER BRACKET**



3798 PNEUMATIC BRACKET

Step 1B: Squids® Tape Measure Trap

The tape measure trap securely wraps around most standard tape measures. The D-ring connection attaches to a lanyard to prevent a dropped object.



UNDO ALL HOOK & LOOP STRAPS



PLACE TAPE MEASURE INTO TRAP



SECURE HORIZONTAL STRAP



FOLD TOP FLAP DOWN



SECURE BOTTOM STRAP OVER TOP



ATTACH A LANYARD



Step 1B: Squids® Sleeves

Water resistant phone and tablet pouches and traps make it easy to carry and use your devices on the job while preventing dropped objects when working at-heights.



OPEN ZIPPER & INSERT PHONE



CLOSE ZIPPER

Additional sleeves also available



3765 TABLET TRAP



**3775 WATER BOTTLE/
CANISTER TRAP**

**QUIT RAINING
HEAVY METAL
THUNDER
ON YOUR
CO-WORKERS.**





Step 2: Tethering

Once all tools have a connection point, the appropriate tethering solution can be selected. Consider the following factors to select the appropriate solution:



Factor #1: Weight of Tool

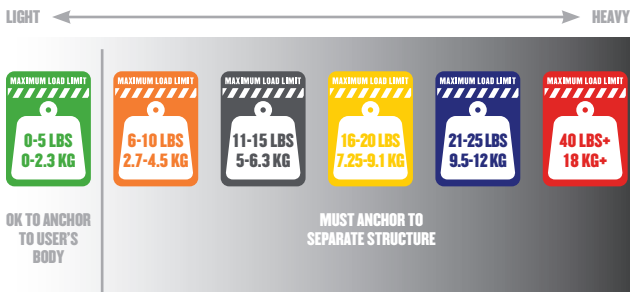
Factor #2: Type of connector(s) on lanyard

Factor #3: Clearance, Reach, and Snag Hazard

Factor #4: Additional Options

Factor #1: Weight of Tool

The first factor to consider is the weight of the tool and properly match that with the capacity of the tool lanyard. Review the individual weight of each tool, then move onto the next factor. Ergodyne Tool Lanyards are categorized in the following capacity ranges:





Factor #2: Type of connector(s) on lanyard

Review the connection location on the tool and on the intended anchor location. Also, consider the way the tool is used to determine the best type of connector to use. Consider the following elements:

A. Loop vs. Carabiner



Loop – Fits through a larger variety of connection points on tools/anchor points but does not connect or exchange quickly.



Carabiner – Allows for quicker connection and exchange but may not fit on as many tools/anchor points as a loop.

B. Security of Carabiner

Consider the elements of an automatic locking carabiner vs. a manual-locking screw-gate carabiner and choose how secure your carabiner should be.



Manual-Locking Screw Gate:
Secure when locked by worker



Double-Action Self Locking:
Secure, quick connection



Self Locking with Swivel Design:
Swivel point helps prevent lanyard from twisting



XL Self Locking:
Anchor heavy-duty tools to structure or beams

C. Connector Material

Heavily dependent on working environment. Some environments lend themselves to non-metal connections, some to corrosion-resistant options and others call for the lightest option available.



Non-Metal Connection:
Non-Conductive // Non-Marring //
Non-Sparking



Aluminum:
Lightweight connection



Stainless Steel:
Corrosion-resistant



Swiveling Design:
If you are using a rotating tool, a
swiveling design helps prevent the
pigtail effect (binding of lanyard
from twisting motion).



Factor #3: Clearance, Reach, and Snag Hazard

Length of your lanyard should be determined by these three factors. Determine how much clearance you need between the anchoring location of your lanyard and the nearest sensitive surface, object or person below. Also determine how long the user's reach is, so the lanyard expands far enough. If you are working in a confined space or other applications where lanyards with excess slack will become snag hazards, you may want a short or expandable lanyard.

Wrist -> 7.5" / 19cm

Coil -> 7.5" – 48" / 19cm - 123cm

Retractable -> 11" – 48" / 28cm - 123cm

Stretch -> 35" – 48" / 89cm - 123cm

Factor #4: Additional Options

Modular Quick Connect

Quick connecting buckle allows for exchange of multiple tools to a single lanyard. Tool Tails™ (additional accessory) are available for this system.



Twin Leg

Twin leg lanyards allow for two tools to be connected or 100% tie off for one tool when transferring tools from point 'A' to point 'B'. From a hoist bucket to a structure, for example.



Topping

There are different ways of transporting equipment to heights and a variety of containers used to store the equipment while in transit. Regardless of what container is used, there are three critical best practices:

Hands Free Climbing Container should allow for three points of contact at all times.

Closed Container The solution should have a secure top or closure that does not allow the contents to spill out if it tips over or becomes inverted in transit.

Weight Rating The container should be weight rated, stamped with that weight rating and include a safety factor to minimize the risk of misuse.





Whether you are carrying or hoisting equipment, the following factors will help you determine what containers to use:

Factor #1: Carrying vs. Hoisting

When bringing equipment to heights, there is often a desire to bring more equipment than is actually needed. No worker wants to leave a tool behind that they might need because climbing back down to grab it and climbing back up to finish the job results in both a loss of productivity and an increased safety risk of additional movement and time at height.

Factor #2: Type of Equipment

Small parts can be carried up by the worker, but they need a means of being controlled other than tethering. (i.e. nuts, bolts, nails, screws).

Hand tools can be carried up by the worker who may have a desire for organized holstering. (i.e. screwdrivers, hammers, wrenches, small power tools).

Large items do not lend themselves to be carried up safely by a worker. (i.e. 5 gallon pails, larger power tools).

Extra large loads usually need to be lifted by a crane (i.e. scaffolding, rebar, Joboxes, other structural material).

Factor #3: Weight of Equipment

≤ 33lb (22.7kg) – Maximum capacity of individual Ergodyne tool pouches and bolt bags.

≤ 150lb (68kg) – Maximum capacity of individual Ergodyne hoisting solutions.

≥ 151lbs (68.5kg) – Would require more than one container.

Factor #4: Container Material

Canvas – Heavy-duty cotton-based canvas provides traditional durability.

Synthetic (nylon or polyester) – Often more resistant to water, dirt and other substances.

Tarpaulin – Waterproof material helps keep contents dry and protected from the elements.



SECTION 4:

SOLUTIONS

TRAPPED // TETHERED // TOPPED

// TOOL TETHERING KITS

3180 2LB / 0.9KG TOOL TETHERING KIT

Tether:
up to six 2lb / 0.9kg tools



3181 5LB / 2.3KG TOOL TETHERING KIT

Tether:
up to four 5lb / 2.3kg tools



3182 10LB / 4.5KG TOOL TETHERING KIT

Tether:
up to three 10lb / 4.5kg tools



3190 TAPE MEASURE TETHERING KIT

Tether:
one standard tape measure



3191 POWER TOOL TETHERING KIT

Tether:
one standard cordless power tool





3192 3LB / 1.4KG TOOL TETHERING KIT

Tether:
up to four 3lb / 1.4kg tools



3193 TAPE MEASURE TETHERING KIT

Tether:
one standard tape measure



3194 HAND TOOL TETHERING KIT

Tether:
up to four screwdrivers/hex keys



3195 CELLPHONE TETHERING KIT

Tether: one standard
or plus size phone



3196 GRINDER TETHERING KIT

Tether:
one 8lb / 3.6kg grinder





3183 CARPENTERS/ LABORERS TETHERING KIT

Tether:
Hard Hats
Gloves
Tape Measures
Claw/Sledge Hammers
Cordless Drills/Drivers
Adjustable Wrenches
Speed Squares
Pry Bars
Cats Paws
Pliers
Utility Knives
Torpedo Levels
Multi-Tool Scrapers
Jab Saws



3184 FINISHERS/MASONS TETHERING KIT

Tether:
Hard Hats
Gloves
Tape Measures
Claw/Sledge Hammers
Grinders
Pliers
Utility Knives
Margin/Mason Trowels
Floats/Edgers/Mag





3185 GLAZIERS TETHERING KIT

Tether:
Hard Hats
Gloves
Tape Measures
Cordless Drills/Drivers
Pliers
Utility Knives
8" Flat Bars
Spray Bottles
Caulking Knives



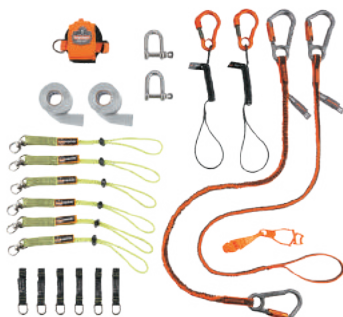
3186 IRON/STEEL WORKERS TETHERING KIT

Tether:
Hard Hats
Gloves
Tape Measures
Claw/Sledge Hammers
Cordless Drills/Drivers
Sleeper Bars
Pliers
Spud Wrenches
Folding Tape Measures
Bolt Cutters



3187 SCAFFOLDERS TETHERING KIT

Tether:
Hard Hats
Gloves
Tape Measures
Claw/Sledge Hammers
Mallets
Adjustable Wrenches
Scaffolders 3-In-1 Tool
Nips
Levels



Tool Attachment Options

3740 HAND TOOL TRAPS™ - SLIPS®



3704 / 3705 WIRE TOOL TAILS™



3700 WEB TAILS



3103 / 3703 / 3713 ELASTIC TAILS



3790 TOOL SHACKLES





3770 TAPE MEASURE TRAP

AVAILABLE IN TWO SIZES



ANSI/ISEA



3770XL

3770L

3780 POWER TOOL TRAP™

AVAILABLE IN TWO SIZES



3780S



3780L

ANSI/ISEA



3760 CELL PHONE TRAP - SLEEVE (AVAILABLE IN STANDARD AND PLUS SIZES)

3765 TABLET TRAP - SLEEVE

3775 WATER BOTTLE/CANISTER TRAP - SLEEVE (AVAILABLE IN SMALL AND LARGE)



ANSI/ISEA



3760



3765



ANSI/ISEA



ANSI/ISEA



3775L



3775S



ANSI/ISEA



POWER TOOL TRAP™

3796 DRILL/IMPACT DRIVER BRACKET

3797 GRINDER BRACKET

3798 PNEUMATIC BRACKET



3796



3797



3798



ANSI/ISEA



Self-Adhering Tape Trap
Orange or Gray



Cold Shrink Traps
Available in 3 sizes:
3723: 5lb / 2.3kg
3724: 10lb / 4.5kg
3726: 15lb / 6.8kg



		TRAP MODEL (TYPE: MODEL)				
TOOL WEIGHT	TAIL MODEL NUMBER	SHAFT DIAMETER: ≤ 0.75IN / 19MM	SHAFT DIAMETER: 0.76-1.25IN / 19-32MM	SHAFT DIAMETER: 1.26-1.75IN / 32-44MM	SHAFT DIAMETER: 1.76-2.25IN / 44-57MM	SHAFT DIAMETER: 2.26-2.50IN / 57-63MM
WEIGHT ≤ 2LBS / 0.9KG	Web Tail: 3700 (all sizes)	Tape Traps: 3755 Length = ≥ 12IN / 31CM	Tape Traps: 3755 Length = ≥ 12IN / 31CM	Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 24IN / 61CM
	Elastic Tail: 3703, 3703EXT, 3713	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A
		Tape Traps: 3755 Length = ≥ 12IN / 31CM	Tape Traps: 3755 Length = ≥ 12IN / 31CM	Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 24IN / 61CM
WEIGHT ≤ 5LBS / 2.3KG	Elastic Tail: 3703, 3703EXT, 3713	Cold Shrink Trap: N/A	Cold Shrink Trap: 3723	Cold Shrink Trap: 3723, 3724	Cold Shrink Trap: 3726	Cold Shrink Trap: 3726
		Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 18IN / 46CM	Tape Traps: 3755 Length = ≥ 24IN / 61CM	Tape Traps: 3755 Length = ≥ 24IN / 61CM	Tape Traps: 3755 Length = ≥ 30IN / 76CM
		Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: 3723, 3724	Cold Shrink Trap: 3726	Cold Shrink Trap: 3726
WEIGHT ≤ 10LBS / 4.5KG	Elastic Tail: 3703, 3703EXT, 3713	Tape Trap: 3755 Length = ≥ 24IN / 61CM	Tape Trap: 3755 Length = ≥ 24IN / 61CM	Tape Trap: 3755 Length = ≥ 30IN / 76CM	Tape Trap: 3755 Length = ≥ 30IN / 76CM	Tape Trap: 3755 Length = ≥ 36IN / 91CM
		Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: 3724	Cold Shrink Trap: 3726	Cold Shrink Trap: 3726
WEIGHT ≤ 15LBS / 6.8KG	Elastic Tail: 3703, 3703EXT	Tape Trap: 3755 Length = ≥ 36IN / 91CM	Tape Trap: 3755 Length = ≥ 36IN / 91CM	Tape Trap: 3755 Length = ≥ 36IN / 91CM	Tape Trap: 3755 Length = ≥ 48IN / 122CM	Tape Trap: 3755 Length = ≥ 48IN / 122CM
		Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: N/A	Cold Shrink Trap: 3726

Tool Lanyard Options



ANSI/ISEA



Retractable Tool Lanyards //
Double Action Carabiners
(Aluminum)

3010: 5lbs / 2.3kg (Belt Slot)

3011: 8lbs / 3.6kg (Dual Carabiner)



Lo-Profile Retractable Tool Lanyards //
Double Action Carabiners (Aluminum)



3002: 2lbs / 0.9kg (Belt Loop)

3003: 2lbs / 0.9kg (Dual Carabiner)



Retractable Tool Lanyards //
Manual Screw Gate
Carabiner (Stainless Steel)



3000 - Dual Carabiner

3001 - Single Carabiner w/ Loop End

3025 Accessory Tails

3026 Accessory Tails





≤2lbs / 0.9kg
3115 Wrist Lanyard -
Loop end only



≤3lbs / 1.4kg
3116 Wrist
Lanyard - Buckle



≤3lbs / 1.4kg
3114 Wrist
Lanyard - Carabiner



Coil Lanyards //
Dual Manual Screw Gate
Carabiners (Stainless Steel)

3130S: ≤2lbs / 0.9kg
3130M: ≤5lbs / 2.3kg



Shock Absorbing Lanyard //
Manual Screwgate Carabiner
(aluminum)

Single Carabiner with Loop End
Standard length 3102F(x)
(modular)



3103 Accessory Loops





Shock Absorbing Lanyard //
Manual Screwgate Carabiner (Aluminum)

Single Carabiner
Standard Length 3100F(x)

Shock Absorbing Lanyard //
Manual Screwgate Carabiner (Aluminum)

Dual Carabiner
Standard Length 3110F(x)





Shock Absorbing Lanyards //
Double Action Carabiner (Aluminum)

Single Carabiner
Standard Length 3108F(x)

Shock Absorbing Lanyards //
Double Action Carabiner (Aluminum)



Double Carabiner
Standard Length 3118F(x)



Stretch Lanyards //

Manual Screw Gate Carabiners
(Stainless Steel)

Dual Carabiner

Standard Length 3111

Extended Length 3111EXT

Single Carabiner with Loop End

Standard Length 3101

Extended Length 3101EXT

Triple Carabiner (Twin Leg)

Standard Length 3311



Shock Absorbing Lanyards //

Double Action Carabiner (Stainless)

Single Carabiner

Standard Length 3101F(x)

Double Carabiner

Standard Length 3111F(x)



ANSI/ISEA



Shock Absorbing Lanyards //

Swiveling Double Action
Carabiner (Aluminum)

Single Carabiner

Standard Length 3109F(x)

Double Carabiner

Standard Length 3119F(x)



3119F(x)



ANSI/ISEA





Heavy-Duty Lanyards //
Swiveling Double Action
Carabiner (Aluminum)

Single Carabiner
Standard Length 3129

Double Carabiner
Standard Length 3139



Heavy-Duty Lanyards //
Double Action Carabiner
(Aluminum)

Single Carabiner
Standard Length 3148

Double Carabiner
Standard Length 3149



Hard Hat Lanyard

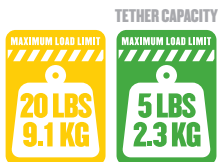
Elastic with buckle 3150
Elastic with clamp 3155

Coil with buckle 3157
Coil with clamp 3158

Coil with Single Carabiner 3156
Coil with Dual Carabiner 3166



Container Options // Carrying



5517 – Premium Topped Parts Pouch - Zipper

5527 – Premium Topped Parts Pouch - Hinge

5528 – Topped Parts Pouch - Canvas
5538 – Topped Parts Pouch - Tarpaulin



5725 – Canvas Bolt Bag Short
5728 – Canvas Bolt Bag Tall



- 5561 – Small Tool Holster
5562 – Hammer Holster



5561



ANSI/ISEA



5562



ANSI/ISEA



Carry or Hoist

5843 - Tool Backpack

Designed to be carried around the jobsite or used for hands free climbing when worn on back. For heavier loads up to 50 lbs., the top straps of the bag can be used for hoisting.



MAXIMUM LOAD LIMIT

50 LBS
22.6 KG

Hoisting Options

Canvas Bucket - Web Handle

5930T – Large

5935T – XLarge



Canvas Bucket -

Swiveling Carabiner

5940T – Large

5945T – XLarge



TETHER CAPACITY



Canvas Bucket with D-Rings

5960T





Polyester Bucket - Web Handle
or Swiveling Hook
5970T – Swiveling Hook
5975T – Web Handle



Polyester Bucket Safety Top

5938 – Large
5937 – XLarge





TENACIOUS SINCE 1983.

INTERGALACTIC HEADQUARTERS:

44° 58' 18.31" N 93° 09' 12.88" W ALT. 934 FT.

1021 BANDANA BOULEVARD EAST SUITE 220 SAINT PAUL, MN, USA 55108

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