

# CASCADE FIRE EQUIPMENT



CATALOG 34



## **WILDLAND FIREFIGHTERS DON'T GET A SUMMER VACATION.**

Instead they sign up to breathe smoke, hike without trails, pack 40-120 lbs. of food, water, and supplies, work 16+ hours a day, eat and sleep in the dirt, fell trees, dig trenches, conduct backfire operations, forecast fire behavior, operate hoses and pumps, jump out of airplanes, operate, inspect and maintain equipment, protect people, structures and resources. And a lot more.

It's a tough and dangerous job. We're here to help.

As wildfires rage across the West and other parts of the country, and as weather conditions and fire policies change, we are resourcing the latest technologies to develop the clothing, tools, and equipment needed to fight today's fires.

At Cascade Fire Equipment, we produce NFPA certified protective clothing using new fire resistant fabrics with improved comfort, durability, and protection. We manufacture tools and equipment with strong, lightweight materials using precision machines and protective processes, so you can fight the fire with quality, dependable gear. We design and build custom Slip-on units with premium materials and superior craftsmanship that deliver you to remote fires armed with an unmatched firefighting machine.

The customers we serve include small, rural volunteer fire departments, big city fire departments, state natural resource agencies, and the US Government. We are committed to meeting all new and demanding challenges in the firefighting industry with the highest quality, dependable products and exceptional customer support, and all of our products are proudly manufactured in the USA.



**Quality is our most important product.**

# CASCADE FIRE EQUIPMENT

Ordering is easy. For more information about any of our products or to place an order, call us toll free Monday-Friday (8AM - 5PM PST) or visit us at **CASCADEFIRE.COM**

## ORDERING INFORMATION

### MAILING ADDRESS

PO Box 4248, Medford, OR 97501

### PHONE

1-800-654-7049 • 541-779-0394

### E-MAIL

sales@cascafire.com

### WEBSITE

www.cascafire.com



## TERMS

- Credit card at time of purchase or Net 30 with approved account.
- Minimum order is \$50.
- Contact us before returning any items. If we have made an error, we will quickly replace the items in question. If it is the customer's error, a restocking charge may apply.
- Please contact our sales department for more information.
- Due to continuous price changes, pricing has been omitted from the catalog. For most up-to-date prices, please visit **CASCADEFIRE.COM** or call us at **1-800-654-7049**.

## GOVERNMENT ORDERING INFORMATION

SIZE OF BUSINESS \_\_\_\_\_ SMALL

FEDERAL TAX ID \_\_\_\_\_ 93-0883255

DUNS \_\_\_\_\_ 13-196-8901

CALIFORNIA CORPORATION NO. \_\_\_\_\_ 11627970 CF4EC

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# SLIP-ON FIREFIGHTING UNITS

Cascade Fire Equipment builds custom Slip-Ons in a class of their own, delivering units that are dependable, versatile and durable. From conception to completion, each unit is built on-site to customer's specifications and design requirements.

We manufacture our own tanks, pumps, control panels, boxes, valves, fuel tanks, stainless steel plumbing and aluminum frames, which gives us the flexibility to tailor our Slip-On Units to fit any truck—from standard pickup beds with utility boxes to flatbeds with customized boxes built around the unit.

Upon completion, each Slip-On Firefighting Unit is thoroughly inspected and tested to make sure the unit you receive delivers the highest performance possible for today's demanding firefighting.

With a Cascade Fire Equipment Slip-On, your pickup or flat-bed vehicle becomes a fast initial-attack firefighting unit. Because of their flexibility, capacity and convenience, these highly mobile units can easily mean the difference between a quick knockdown and a major fire.

Cascade's Slip-On Units are used by forestry departments, city fire departments, and private contractors, and are in use in most states and several foreign countries.

Please call us for a quote today. We will custom-design and build a Slip-On Firefighting Unit to meet your unique requirements.

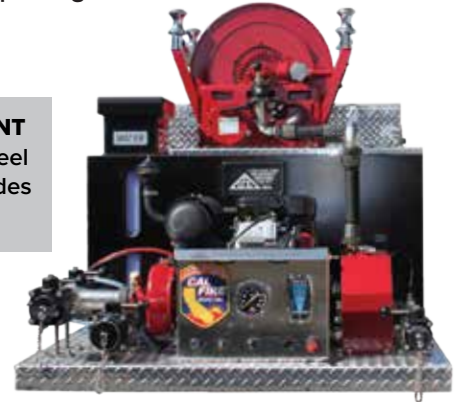




## END MOUNTS

**END MOUNT SLIP-ON UNITS** generally have a lower center of gravity than Top Mount Units. The controls, pump, plumbing and sometimes reel are mounted on a platform at the rear of the water tank. End-Mounts are great for trucks with utility boxes or flatbeds. We can also build custom boxes to fit your Slip-On package.

**250 GALLON END MOUNT**  
with steel electric Hose Reel  
with dual Hose Roller Guides  
and Water Level Meter



## TOP MOUNTS

**TOP MOUNT SLIP-ONS UNITS** incorporate all components on the top of the tank, taking up less space in the bed and leaving room for other cargo. Top Mounts are ideal for standard pickup beds and low-profile utility boxes with the option of extending components to the edge of the boxes. The control panel can either be on the driver's side or at the rear.

**125 GALLON TOP MOUNT**  
with Water Level Gauge,  
Aluminum Electric Hose Reel,  
and Hose Roller Guide



## LIGHT & ATV

Cascade's compact **LIGHT & ATV SLIP-ON UNITS** are just what your department needs to convert your lightweight patrol vehicles or ATV units into fast-attack firefighting and rescue tools for roadless, wilderness, and recreation areas. The condensed top-mount design leaves plenty of payload space, and every unit is designed according to your specifications.

**75 GALLON ATV UNIT**  
with Mini-Control Panel and  
Hannay Mini-reel with Hose Roller Guide

# SLIP-ON STANDARD EQUIPMENT

**STANDARD SLIP-ON EQUIPMENT** on every full-size Cascade Fire Equipment Slip-On firefighting unit includes a polypropylene tank, 18HP centrifugal pump, electric rewind hose reel, stainless steel control panel, full flow all stainless steel plumbing, diamond plate surface, and additional standards listed at right.

**CONTROL PANEL** includes panel light, hour meter, primer, auto shut-off, engine starter switch, pressure gauge, choke and throttle.

**POLYPROPYLENE TANK** includes vent, manual fill tower, and vertical translucent sight gauge.

**CF-120 18HP PUMP & ENGINE** pumps up to 120 GPM and 300 PSI and meets wildland firefighting volumes and pressures.

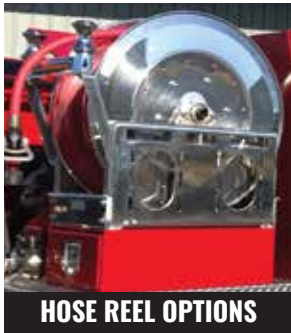
**HANNAY HOSE REEL** is a painted steel booster reel with electric rewind. Comes with 200 ft. of hose and fog/straight stream shut-off nozzle.

- Water tank to be built of ½" thick polypropylene sheet stock and fully baffled throughout.
- 2" square aluminum frame that supports the tank and rear platform.
- Tank top and rear platform to be covered with .125 aluminum diamond plate with all broken edges turned, welded and finished.
- Full-Flo stainless steel plumbing: 304 seamless schedule 40 stainless steel – welded, sanded and shot blasted for a smooth finish. Plumbing to include a 2" suction line, 1" tank fill and 1.5" discharge.
- Stainless steel control panel with powder coated aluminum removable front panel. Panel to consist of throttle control, choke, low pressure shut off, ignition switch, primer button, 3.5" pressure gauge and LED panel light.
- Recirculation line for the CF-120 pump with ball valve to reduce the danger of overheating.
- All inline and discharge valves to be extruded 6061 aluminum, class 3 type 2 hard coat anodizing. Valves that are 1" or greater will be full-flow, quarter turn, swing out style bolted to a stainless steel flange.
- All valves to be labeled per function with ID tags manufactured out of smooth aluminum with a black powder coat finish.
- An 18HP Briggs & Stratton vanguard engine shall power the CF-120 single stage centrifugal pump. Pump is rated at 120 GPM at 100 PSI and 23 GPM at 300 PSI. (Other motor and pump configurations available upon request).
- A Hannay steel electric hose reel equipped with a single hose roller/guide and ¾"x200' of 300PSI booster hose is standard. (Other Hannay reel options available upon request).
- Complete with an electric primer pump, winterization system, install kit and service manual.



# SLIP-ON OPTIONAL EQUIPMENT

Cascade offers a large number of options for complete customization of your slip-on unit, including options for hose reels, pumps, foam proportioning, and more. Some of the most popular options are shown here. On smaller units space may not allow for installation of all options.



**HOSE REEL OPTIONS**

Options for Aluminum reels, motor HP, and chrome hose roller guides installed in one or both sides in high or low configuration. Stainless steel discs available upon request.



**23HP PUMP & ENGINE**

CF-130 Centrifugal pump powered by a 23HP Briggs & Stratton Engine.



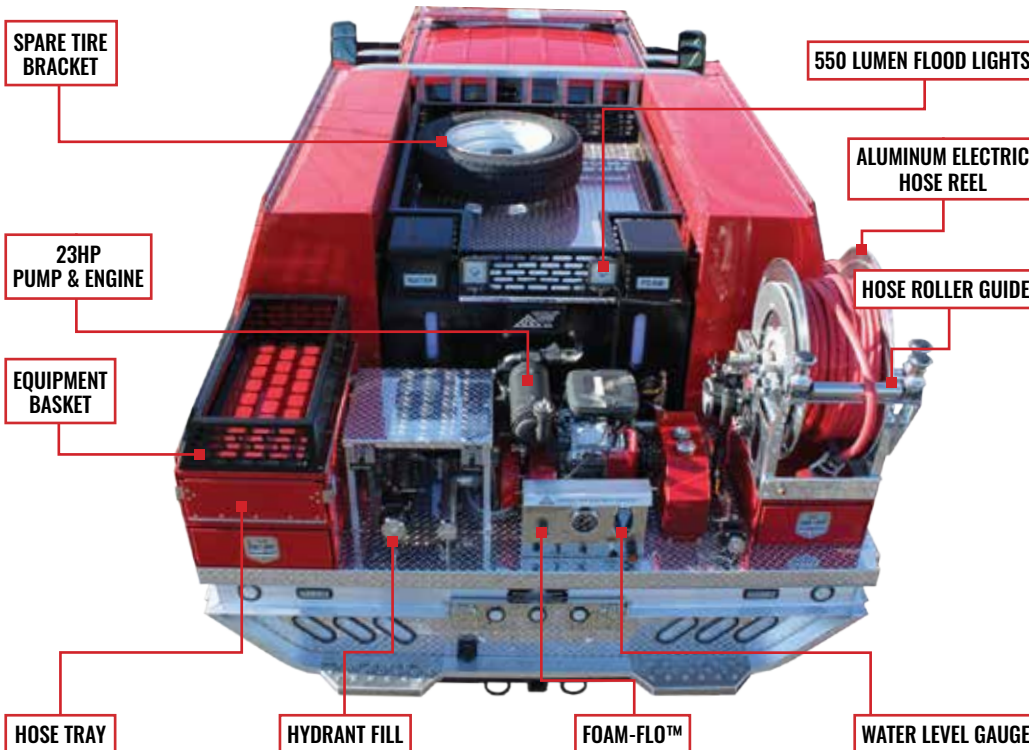
**24HP PUMP & ENGINE**

Darley 1.5 AGE pump powered by a 24HP Kubota diesel motor.



**FOAM-FLO™**

Foam-Flo™ with Foam Cell proportions Class A Foam with selector valve built into standard control panel.



SPARE TIRE BRACKET

550 LUMEN FLOOD LIGHTS

23HP PUMP & ENGINE

ALUMINUM ELECTRIC HOSE REEL

EQUIPMENT BASKET

HOSE ROLLER GUIDE

HOSE TRAY

HYDRANT FILL

FOAM-FLO™

WATER LEVEL GAUGE



**FOAMPRO® 1601**

Provides fully automatic foam proportioning delivering total accuracy over entire range of flow.

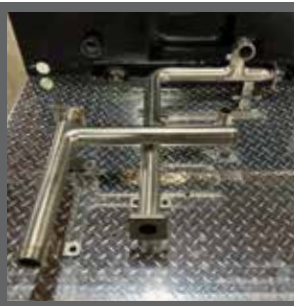


**LIQUID LEVEL GAUGES**

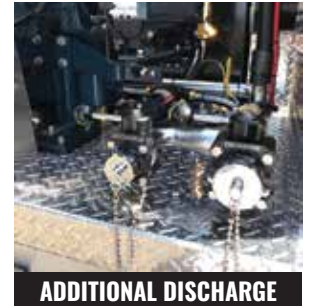
Get water and foam levels at a glance with Cascade's LED Liquid Level Gauges.



**STAINLESS STEEL PLUMBING**



The plumbing is constructed of stainless steel pipe and is full flow and seamless. There are no visible welds on the plumbing and all manifolds are one continuous piece. Only fire hose threads are utilized on all manifolds.



**ADDITIONAL DISCHARGE**

1" & 1.5" additional discharge stainless steel manual discharge lines.



Transform your Slip-on Vehicle into a real firefighting machine with a forestry bumper monitor, super single wheel conversion, equipment boxes and in-cab controls.



**BUCKSTOP BUMPER**

Powder coated black. Several models available.



**AKRON FORESTRY MONITOR**

Remote electric monitor displays optimal performance with water, foam and CAF's applications.



**TFT WILDLAND MONITOR**

An ideal forestry bumper turret, compact with a large, efficient waterway.



**CASCADE'S MONITOR**

Ideal for discharging water or Class A foam in wildland firefighting where discharges of 350 GPM or less is required.



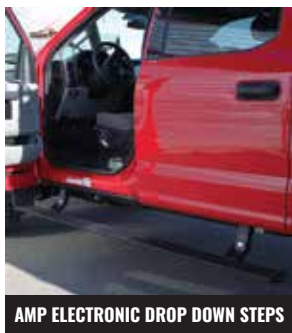
CUSTOM TOOLBOXES

EQUIPMENT BASKETS

UNDERBODY MOUNTED HOSE REEL

HOSE TRAY

WATER & FOAM GAUGES



**AMP ELECTRONIC DROP DOWN STEPS**

Automatic, electric-powered running board that instantly extends when you open your door.



**LIVE HOSE TRAY**

Constructed of aluminum diamond plate or smooth aluminum material, with a rotary joint and full-flow ball valve. Accommodates 200 ft. of 1.5" hose.



**IN-CAB CONTROLS**

Operate the rear pump panel from the operator's seat.

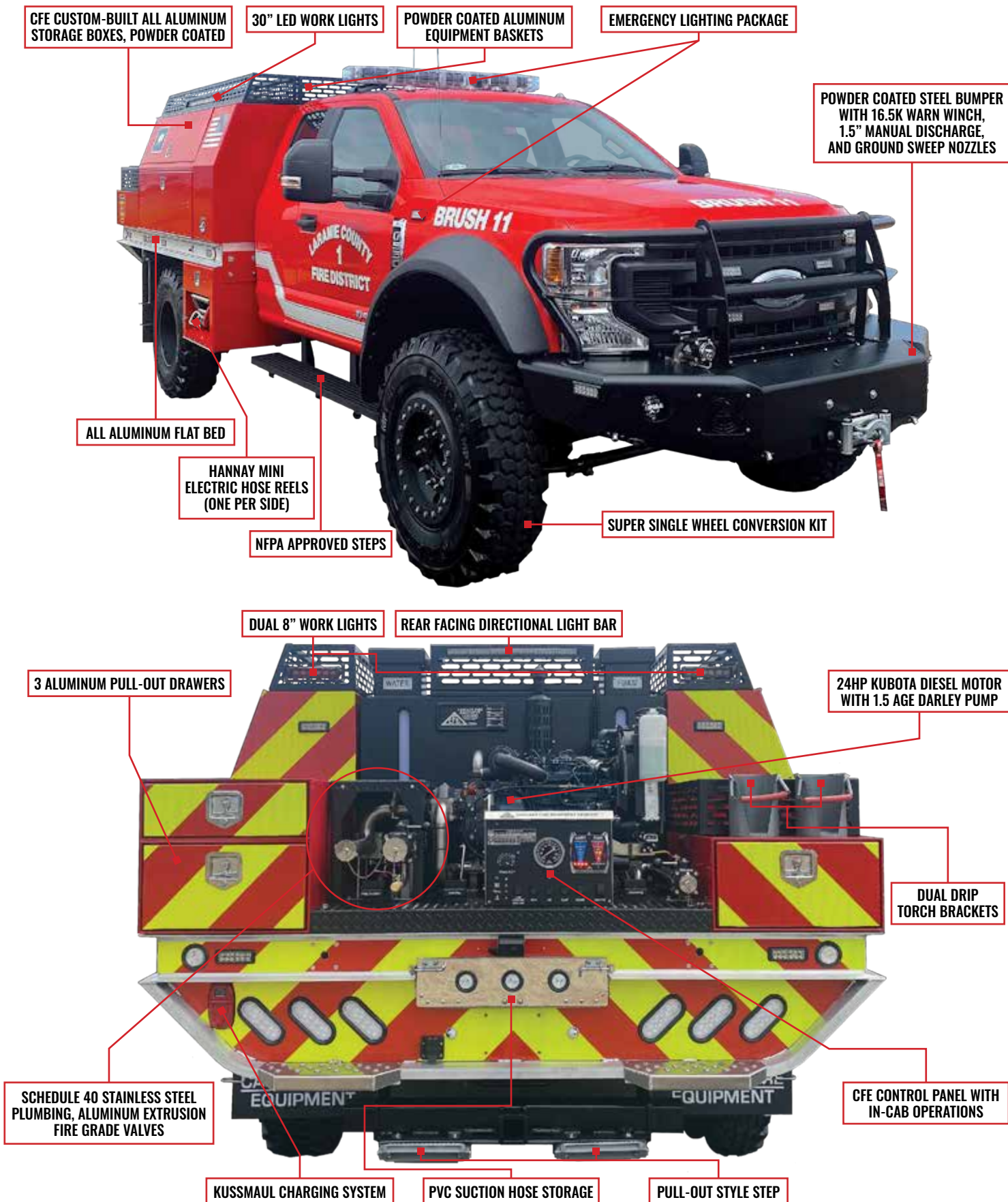


**WHEEL CONVERSION KIT**

Improve your functionality by converting your dually to a single wheel. Super single wheels offer greater off-road traction and performance without compromising weight carrying capacity of your Ford or Dodge truck.

**CALL US TODAY FOR A CUSTOMIZED SLIP-ON QUOTE TO MEET YOUR FIREFIGHTING NEEDS!**

# CUSTOM & STANDARD EMERGENCY PACKAGES



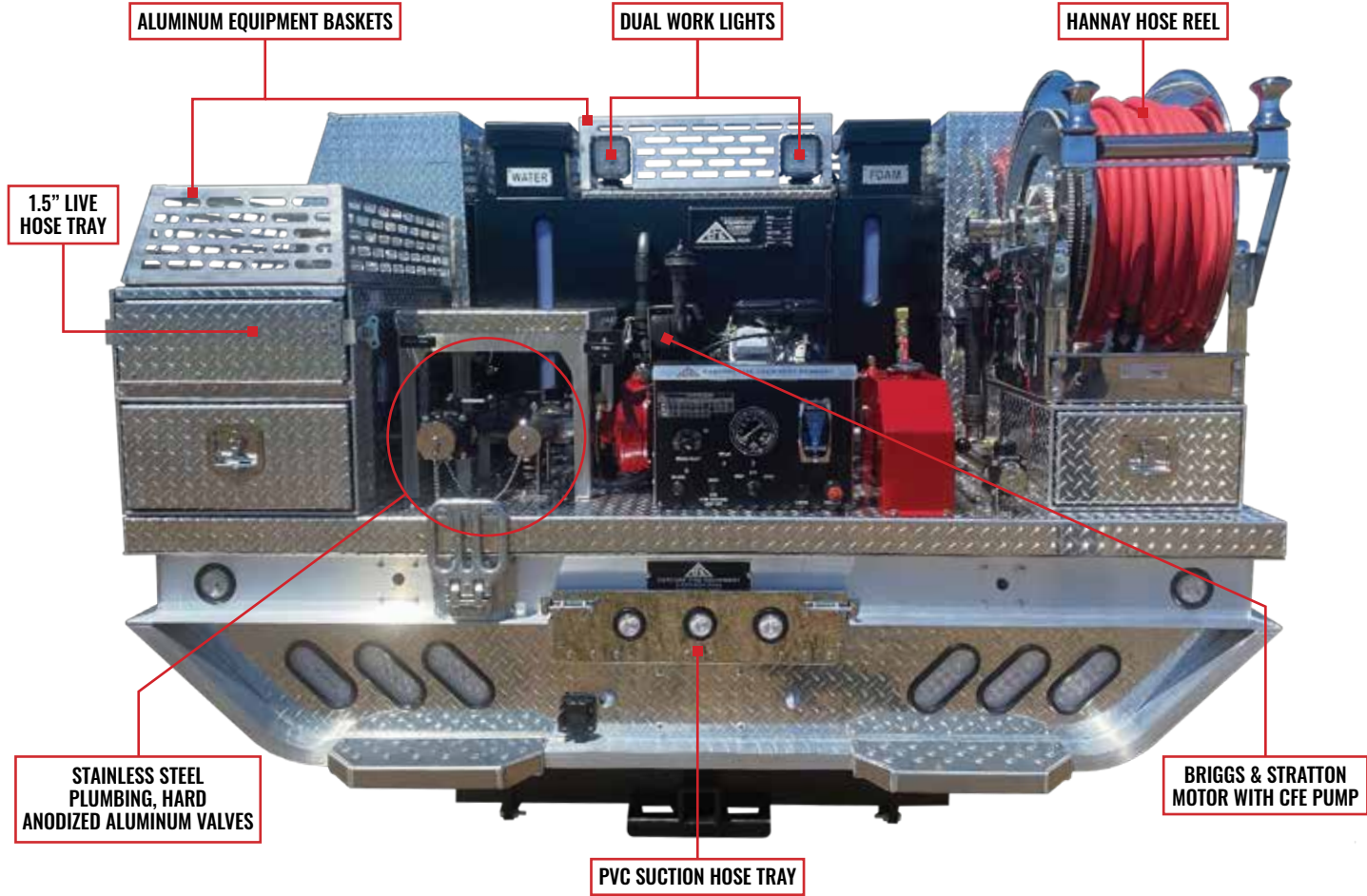
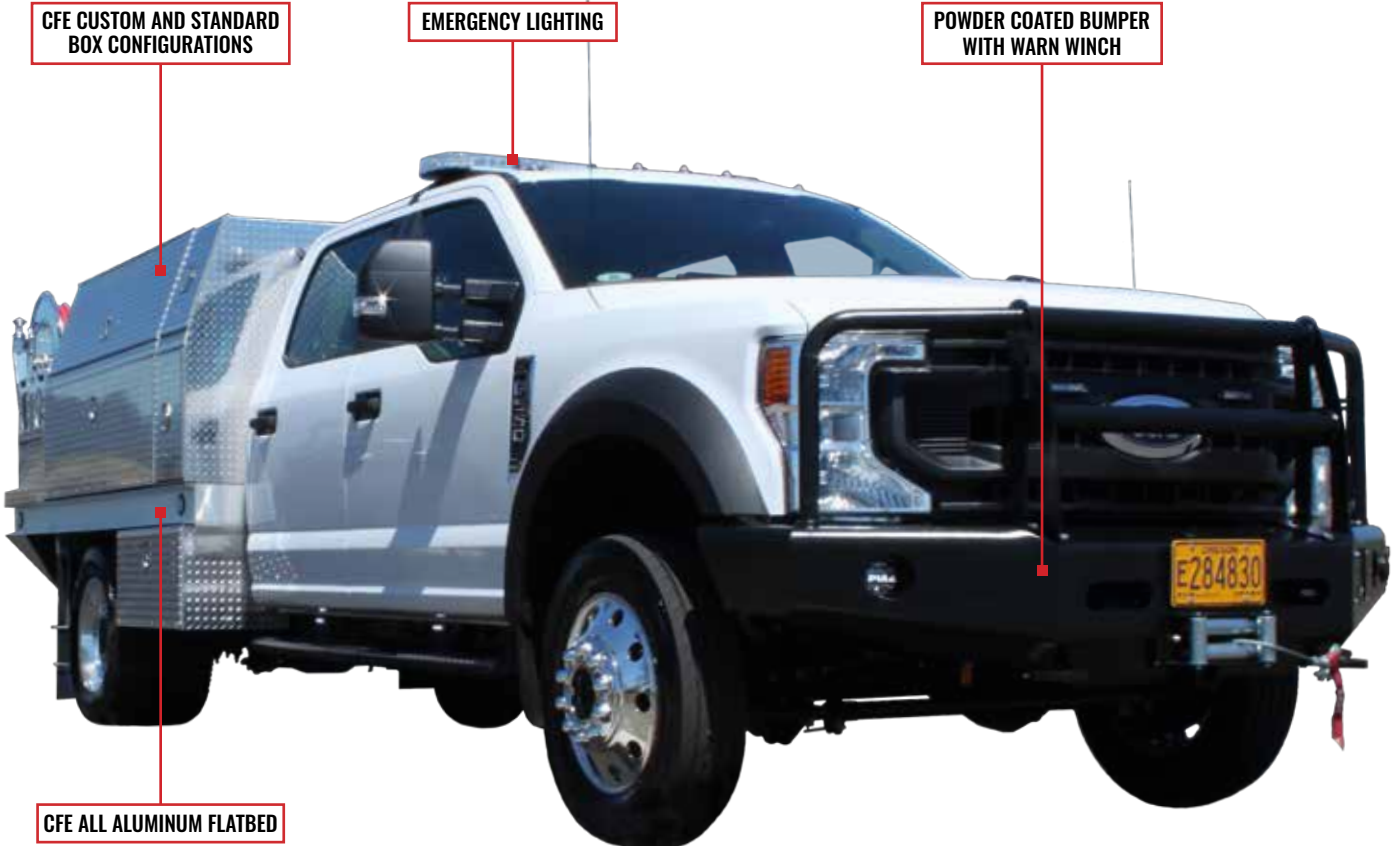




Photo by David Greenberg



Photo by David Greenberg



# LIGHT & ATV STANDARD EQUIPMENT



**STANDARD SLIP-ON EQUIPMENT** on Light and ATV Slip-On firefighting units include a polypropylene tank, 6.5HP pump and engine, electric mini hose reel, full flow all stainless steel plumbing, diamond plate surface, and the following additional standards:

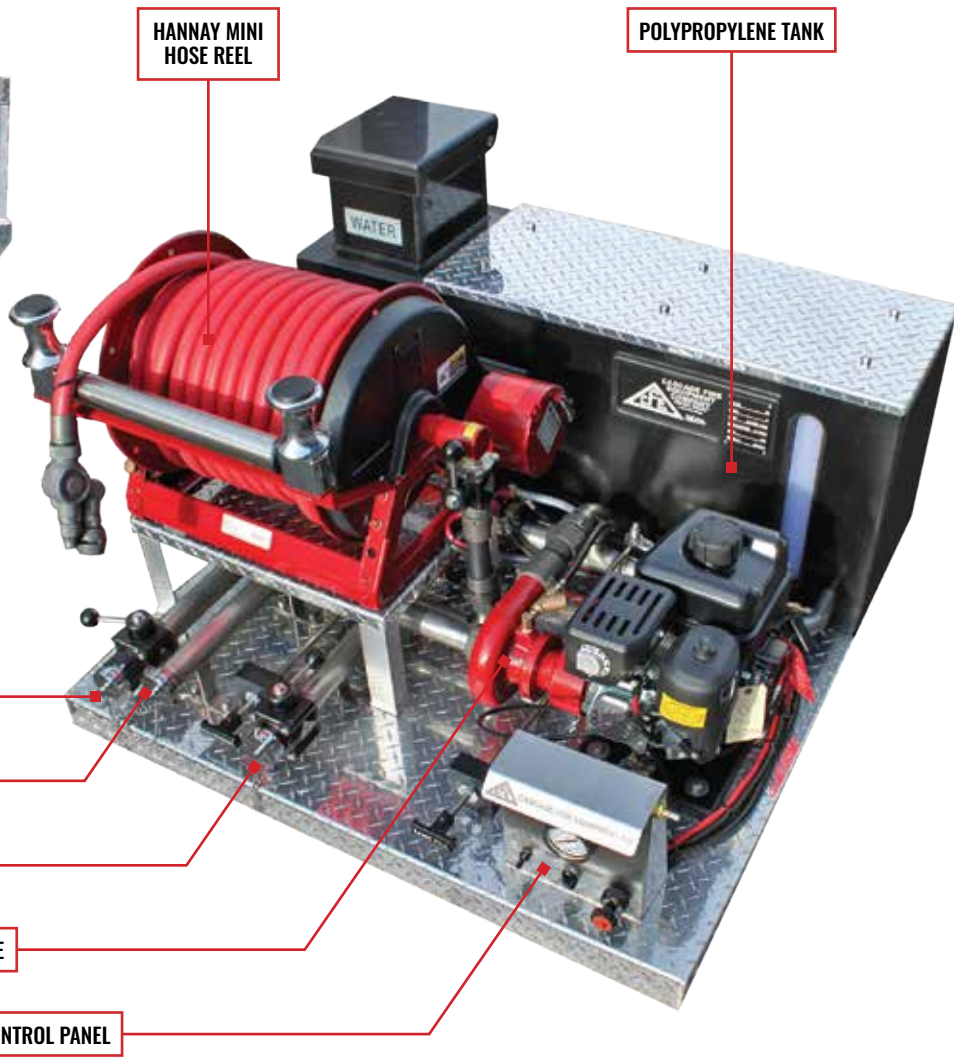
- All Plumbing is stainless steel with 1½” full flow piping and high pressure hoses
- 1½” overboard suction port allows drafting from auxiliary water sources
- Automatic shut-off stops the engine when the water supply has been exhausted
- 1½” discharge

**POLYPROPYLENE TANK** is constructed of ½” thick polypropylene sheet stock and includes vent, manual fill tower, and vertical translucent sight gauge.

**HANNAY ELECTRIC MINI HOSE REEL** is rated at 1000 PSI and holds 100 feet of booster hose. This compact reel is ideal for use on brush and forest firefighting vehicles.

**6.5HP CF SUPER MINI-PUMP** is a close-coupled single stage centrifugal pump powered by a small and lightweight 6.5HP Briggs and Stratton engine. Meets current EPA emissions standards and is capable of pumping foam and retardant solutions.

**CALL US TODAY FOR A CUSTOMIZED SLIP-ON QUOTE TO MEET YOUR SPECIFIC FIREFIGHTING NEEDS! 1-800-654-7049**



HANNAY MINI HOSE REEL

POLYPROPYLENE TANK

HYDRANT FILL

SUCTION

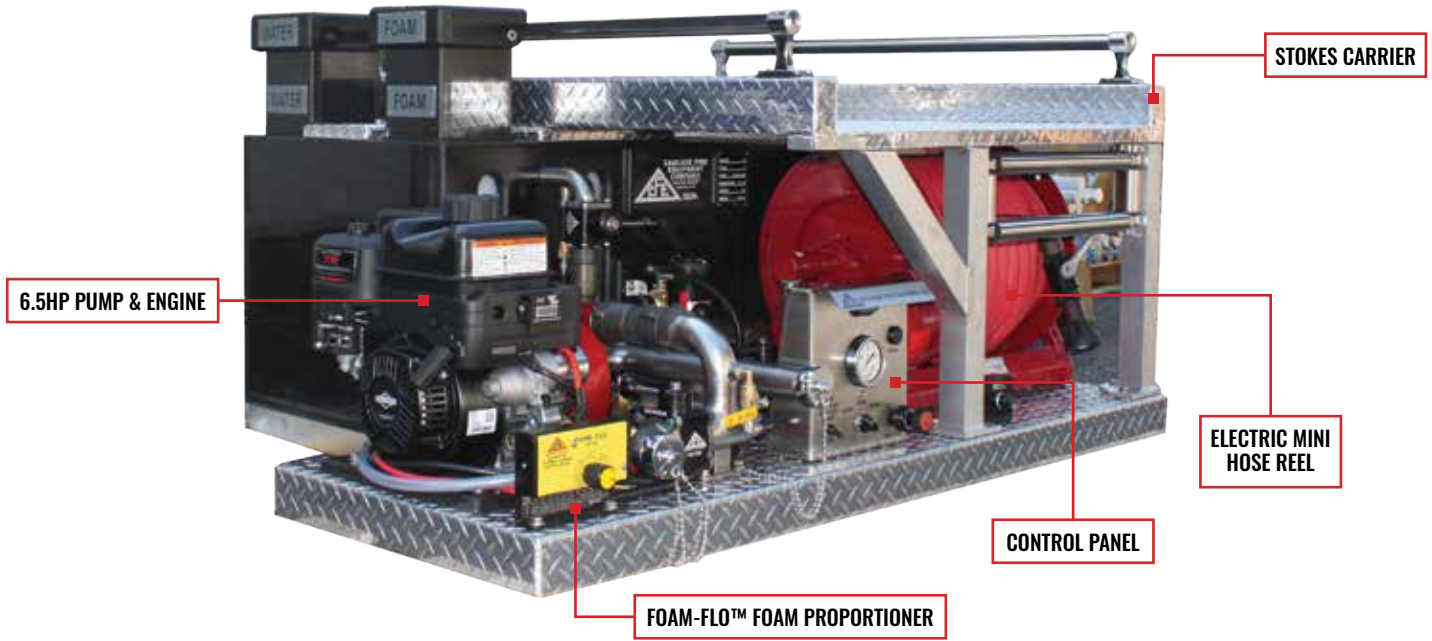
DISCHARGE

6.5HP PUMP & ENGINE

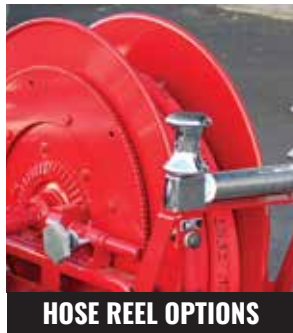
OPTIONAL CONTROL PANEL

# LIGHT & ATV OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT on Light and ATV Slip-ons include a Mini Control Panel, Foam cell and proportioning, hose reel and pump options. Cascade also offers options for custom aluminum toolboxes and Stokes Carrier.



**FOAM-FLO™**  
Foam-Flo™ with Foam Cell proportions Class A Foam with selector valve controlling percentage.



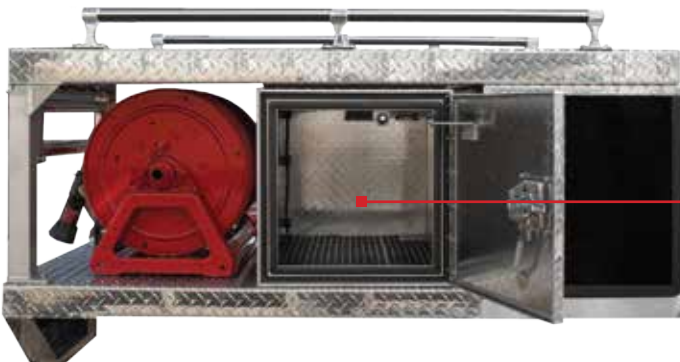
**HOSE REEL OPTIONS**  
Options for steel and aluminum reels (size permitting), motor HP, and chrome hose roller guides installed in one or both sides in high or low configuration.



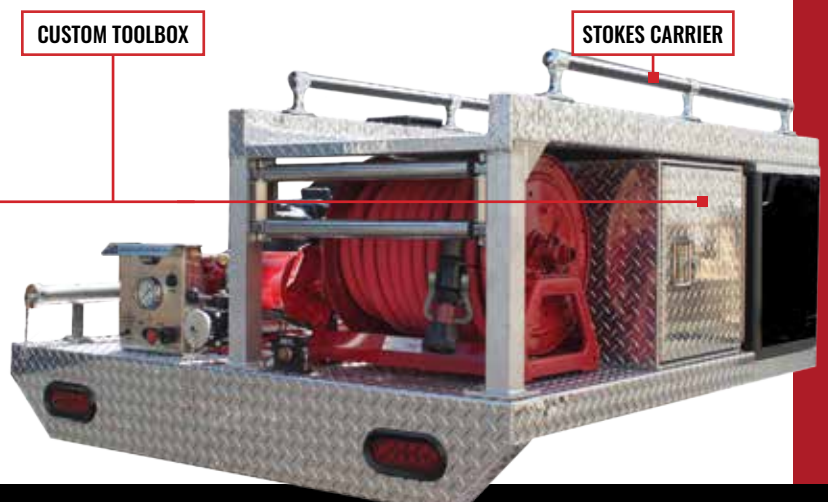
**BE PUMP**  
Self-priming positive displacement pump with 6.5HP vanguard engine with electric start.



**MINI CONTROL PANEL**  
Stainless Steel panel with all the controls in one location. Includes panel light, electric primer valve, pressure gauge, engine On/Off light, engine On/Off switch, and engine throttle control.



**CUSTOM TOOLBOX**



**STOKES CARRIER**

# CUSTOM CFE TOOLBOXES

Tool boxes are the best way to organize your firefighting vehicle. You decide the best size and configuration for the tools you carry.

Expand your gear capacity with tool boxes, equipment baskets, drawers, hose trays, and more. Constructed from aluminum which is half the weight of steel, allowing for a heavier load and better fuel economy. Toolboxes are built to your exact specifications, with a wide variety of configurations and styles available.



**OUR SALES TEAM CAN HELP YOU DESIGN THE BEST CONFIGURATION FOR YOUR FIREFIGHTING VEHICLE!**



**DIAMOND PLATE BOXES**



**SMOOTH ALUMINUM POWDER COATED BOXES**

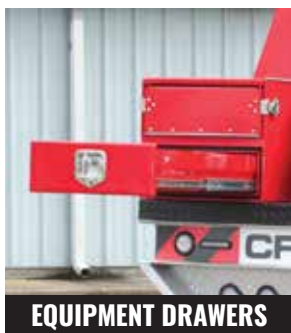


**SMOOTH ALUMINUM EQUIPMENT BASKETS**



**LIVE HOSE TRAY**

Hose Tray has a turtle tile base, a rotary joint for hose removal from either side, and a full-flow ball valve to control water flow.



**EQUIPMENT DRAWERS**

Custom drawer assemblies are built to take abuse with tough as nails drawer slides.



**TRANSVERSE BOX**

Custom transverse box to go width of the unit. Good for long handle tools and equipment.



**SUCTION HOSE BOX**

Suction Hose Box is integrated into the flatbed frame.





# POLYPROPYLENE TANKS

**POLYPROPYLENE TANKS** are ideal for use as water tanks for Slip-On Firefighting Units. They can be manufactured in a wide variety of configurations, dimensions, and sizes. The partitions are designed to provide maximum water flow and are equipped with vent and air holes to permit movement of air and water between compartments.

## WATER TANK FEATURES

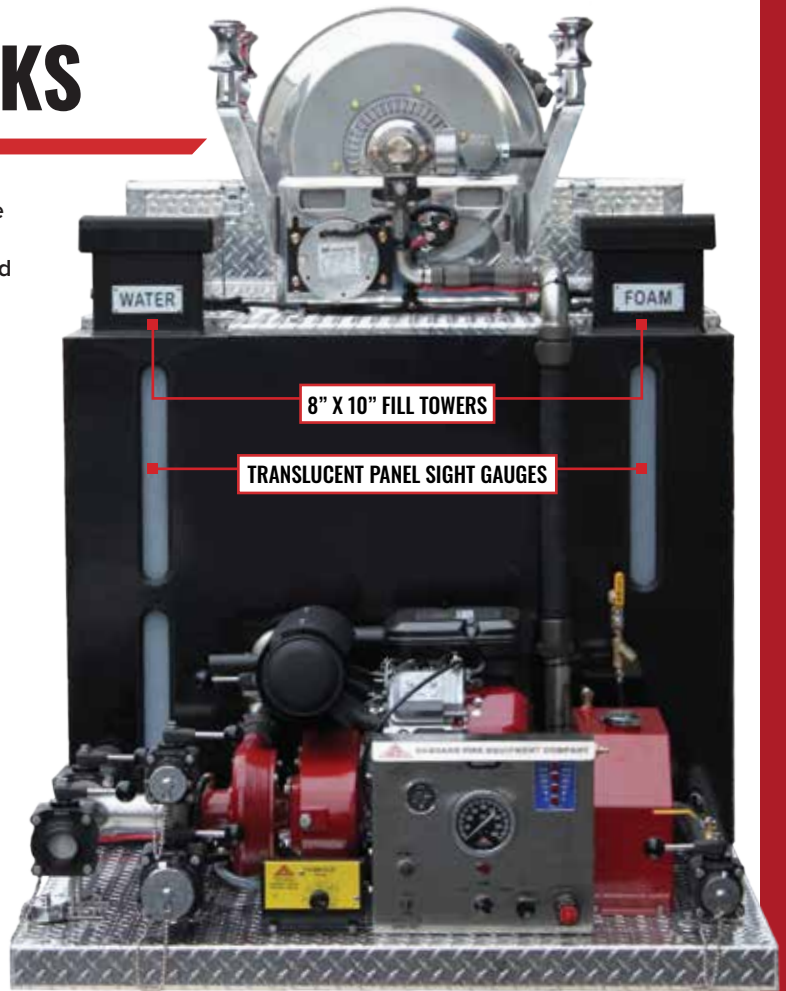
- Constructed of ½" thick polypropylene sheet stock; non-corrosive stress relieved thermo-plastic, natural black, U.V. stabilized for maximum protection
- Compatible with firefighting foams, retardants, wetting agents
- Materials meet FDA requirements for potable water
- All joints and seams are extrusion double welded and tested for maximum strength and integrity
- Transverse baffle partitions are manufactured of ½" stock of the same material and extend from the tank floor to the cover
- All baffle partitions interlock with one another and are welded to each other and to the walls of the tank
- Tank fill connections are backed with flow deflectors to diffuse the stream entering the tank
- End wall of tank has a vertical translucent panel sight gauge
- Combination vent and manual fill tower has a ¼" thick, removable polypropylene screen and cover with stainless steel hinge
- Tank is equipped with anti-cavitation device

## WATER TANK INCLUDES

- One (1) fill tower with removable screen and cover
- One (1) sump with anti-swirl plate and drain fitting
- One (1) vent overflow pipe
- One (1) 1" NPT tank fill fitting
- One (1) 2" NPT tank suction fitting
- One (1) sight gauge

## FOAM TANK INCLUDES

- One (1) fill tower with removable screen and cover
- One (1) sight gauge
- Drain



PART	SIZE	WT.
31000	50 gal.	153 lbs.
31001	60 gal.	163 lbs.
31002	75 gal.	178 lbs.
31003	100 gal.	203 lbs.
31004	150 gal.	253 lbs.
31005	200 gal.	303 lbs.
31006	250 gal.	353 lbs.
31007	300 gal.	403 lbs.
31008	400 gal.	503 lbs.
31009	500 gal.	603 lbs.
31010	600 gal.	703 lbs.
31011	700 gal.	803 lbs.
31012	750 gal.	853 lbs.
31013	800 gal.	903 lbs.

PART	OPTIONS
31014	5 Gallon Foam Cell
31015	10 Gallon Foam Cell
31016	15 Gallon Foam Cell
31017	20 Gallon Foam Cell
31018	30 Gallon Foam Cell
31019	40 Gallon Foam Cell
31020	2 Reel Mount Blocks
31022	Misc. Mount Block
31023	Wheel Wells
31026	Diamond Plate (per square foot)



Cascade's polypropylene tanks can be manufactured in a wide variety of configurations, dimensions and sizes.





# CFE CENTRIFUGAL PUMPS

## CF-120

Designed and manufactured by Cascade Fire Equipment the CF-120 is a single stage centrifugal pump ideally suited for use on Slip-On Units or as a high pressure, lightweight portable pump. An 18HP Briggs and Stratton engine drives the pump, which meets the volumes and pressures needed in wildland firefighting.

The CF-120 provides trouble-free service under firefighting conditions and replacement parts available at a reasonable price with easy installation.

The CF-120 can be used as a portable pump with carrying frame and integrated 3-gallon gas tank, hand primer, and liquid-filled pressure gauge. The truck mount model has a 3/4" thick polypropylene mounting base, remote 4-gallon gas tank with fuel line, and quick-connect hand primer.

## CF-130

The CF-130 is powered by a 23HP Briggs & Stratton Vanguard Engine with the same specifications as the CF-120 but with an increase in horsepower over the CF-120 for more volume and higher pressure.

## PUMP FEATURES

- 2" NPSH Male Suction
- 1 1/2" NH Male Discharge
- High strength aluminum alloy, hard coat anodized body
- Fully enclosed all bronze Impeller with double hubs to balance hydraulic thrust
- Bronze, long-wearing Wear Ring
- Carbon/ceramic mechanical Seal
- Sealed Ball Bearings
- Manual Primer
- DIMENSIONS: 30 1/4" (24" w/out carry frame) L x 19 1/2" W x 18 1/2" (17 1/4" w/out carry frame)
- WEIGHT: 140 lbs.

## ENGINE FEATURES

- Briggs and Stratton Vanguard V Twin air-cooled, overhead valve design
- 3600 RPM, 4 Cycle output
- 12 Volt electric and manual recoil starter
- Full pressure lubrication system with automotive style filter

### CF-120 PERFORMANCE

PSI	50	100	150	200	250	300
GPM	120	110	100	80	50	23

24191 | CF-120, Carry Frame

24191T | CF-120, Truck Mount



### CF-130 PERFORMANCE

PSI	100	125	150	175	200	225	250	275	300	325
GPM	132	130	120	108	100	90	80	60	47	15

24192 | CF-130 Pump & Motor

## HAND PRIMER

CASCADE'S HAND PRIMER is used to prime pumps. A 1 1/2" NH female fitting is attached to 1 1/2" discharge to bring water up from the source and through the pump to discharge. Made from tough, anodized aluminum with a T-handle for an easy grip, and a knurled end for ease of attachment to male thread.

- Length: 12 1/2"
- Weight: 1 3/4 lb.

24017 | Hand Pump Primer



## 24HP KABOTA DIESEL & 1.5 AGE DARLEY PUMP

### FEATURES

- Hard anodized aluminum alloy pump casing and discharge
- Aluminum alloy gear case and engine adapter
- Bronze impeller and wear rings
- Stainless steel impeller shaft
- Mechanical seal
- Heat treated alloy steel helical gears
- Ball bearing construction
- 2" NPT suction
- 2-1/2" NPT or 1-21/2" NPT discharges
- Skid base
- DIMENSIONS: 35"L x 22"W x 26.25"H
- WEIGHT: 340 lbs. (154 kg)

### PERFORMANCE

- 2.70 Ratio, Standard Impeller
- 20 gpm (76 L/M) @ 310 psi (21.4 bar)
- 140 gpm (530 L/M) @ 145 psi (10.0 bar)
- 180 gpm (681 L/M) @ 80 psi (5.5 bar)
- 3.17 Ratio, High Pressure Impeller
- 25 gpm (95 L/M) @ 375 psi (25.9 bar)
- 75 gpm (284 L/M) @ 245 psi (16.9 bar)
- 120 gpm (454 L/M) @ 150 psi (10.3 bar)

High pressure, low volume, gear driven, engine mounted Darley pump powered by a 24HP Kubota D902 engine. Applications include booster reel, multiple hand lines, transfer and supply, and wildland/attack fire suppression.



24193 | 24HP Kubota Diesel & 1.5 AGE Darley Pump

# CFE MINI PUMPS



24016 | CF Mini-Pump & Engine



24026 | CF Super Mini-Pump



24019 | BE Pump & Engine

## CF MINI-PUMP

Cascade's MINI-PUMP unit is designed for use on lightweight slip-on units that require foam pumping capabilities. The pump is powered by a small and lightweight 4-stroke Honda engine that meets the current emissions standards of the US EPA.

Additional features:

- USFS approved spark arrestor
- Inlet and outlet protective caps
- Hand primer

CF MINI-PUMP SPECIFICATIONS	
ENGINE	Honda 2.5HP at 3600 RPM 4 Stroke, 1 Cylinder, Air Cooled
STARTER	Manual recoil and electric
SUCTION	1½"
DISCHARGE	1½"
DIMENSIONS	15¾" L x 10¾"W x 15.625"H
WEIGHT	19.3 lbs.

CF MINI-PUMP PERFORMANCE				
PSI	0	26	57	85
GPM	68	50	25	Shutoff

## CF SUPER MINI-PUMP

The CF Super Mini-Pump is a close-coupled single stage centrifugal pump capable of pumping foam and retardant solutions. Powered by a small and lightweight 6.5HP Briggs and Stratton engine that meets the current emissions standards of the US EPA.

Additional features:

- Lightweight aluminum alloy pump parts anodized for corrosion resistance
- USFS approved spark arrestor
- Inlet and outlet protective cap
- Hand primer

CF SUPER MINI-PUMP SPECIFICATIONS	
ENGINE	Briggs & Stratton 6.5HP at 3600 RPM 4 Stroke, 1 Cylinder, Air Cooled
STARTER	Manual recoil and electric
SUCTION	1½"
DISCHARGE	1½"
DIMENSIONS	18" L x 18"W x 16"H
WEIGHT	59 lbs.

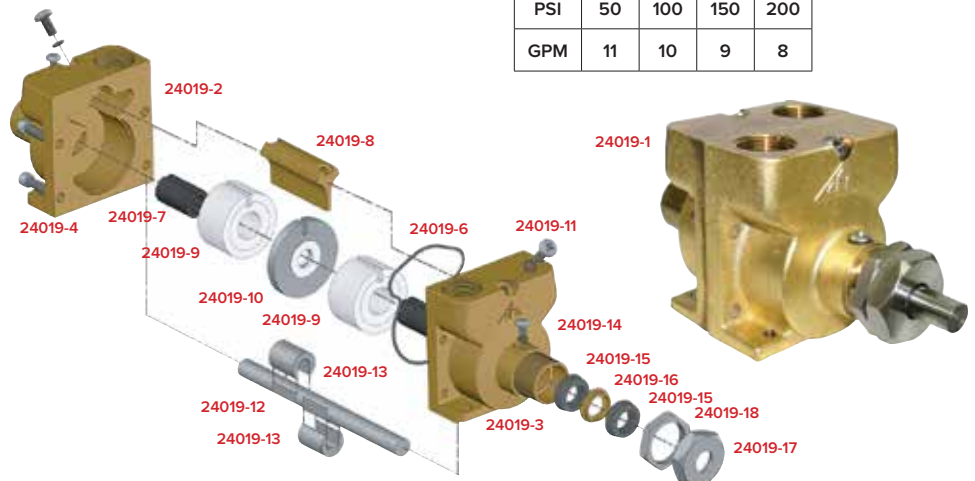
CF SUPER MINI-PUMP PERFORMANCE			
PSI	25	50	100
GPM	90	86	38

## BE PUMP & ENGINE

The extremely lightweight BE Pump produces adequate pressure and volume for fire suppression, spraying and general purpose use. The small size of the pumper is particularly suited for use where water supply is limited and where weight, price and practicability are factors.

BE PUMP SPECIFICATIONS	
ENGINE	Briggs & Stratton 6.5HP at 3600 RPM 4 Stroke, 1 Cylinder, Air Cooled
STARTER	Manual recoil and electric
SUCTION	1"
DISCHARGE	1"
DIMENSIONS	17½" L x 15"W x 14"H
WEIGHT	49 lbs.

## REPAIR PARTS FOR BE PUMP



BE PUMP PERFORMANCE				
PSI	50	100	150	200
GPM	11	10	9	8

REPAIR PARTS FOR BE PUMP	PART NUMBER
Pump Head	24019-1
Housing - Rear half	24019-2
Housing - Front half	24019-3
Housing Screw	24019-4
Housing Nut-non-CFE	24019-5
Housing Gasket	24019-6
Bushing	24019-7
Impeller Guide	24019-8
Impeller	24019-9
Separator	24019-10
Impeller Guide Screw	24019-11
Shaft	24019-12
Eccentric	24019-13
Bushing Retainer Screw	24019-14
Shaft Seal	24019-15
Shaft Seal Spacer	24019-16
Gland Nut	24019-17
Locknut	24019-18

# HANNAY HOSE REELS



**STEEL BOOSTER REEL WITH DUAL HIGH MOUNT ROLLER GUIDES**



**ALUMINUM BOOSTER REEL WITH DUAL HIGH MOUNT ROLLER GUIDES**



**STEEL BOOSTER REEL WITH SINGLE ROLLER MOUNT GUIDE**



**ALUMINUM BOOSTER REEL WITH SINGLE HIGH MOUNT ROLLER GUIDE**

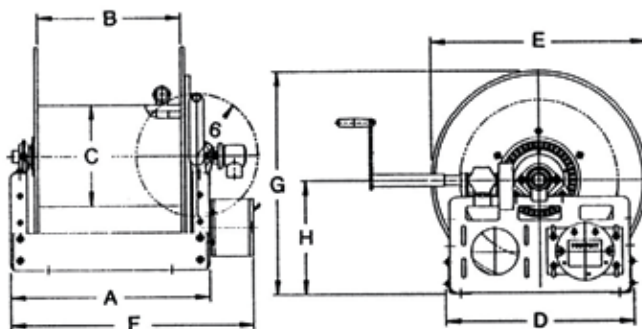
The Standard Painted Steel Booster Hannay Hose Reel is the dependable, rugged reel that has set the standard for fire service reels for more than 50 years. The "Super Booster" (aluminum construction) reel weighs up to 30% less than standard booster reels and features an all-aluminum frame and drum, chip-proof polished aluminum discs, and plated drive chain, sprocket, hub assembly, swivel joint and fastenings. No painting or finishing is required. Both reels have the same construction features.

## STEEL & ALUMINUM BOOSTER REELS

### BOOSTER REEL FEATURES

- Inlet is 1" female NPT 90° swivel joint rated at 1000 PSI. Straight joint is available, please specify when ordering
- Outlet Riser is 1" male NST or NPSH. Female outlet or other threads are available and must be specified
- The rewind has a chain and sprocket drive powered by 12-volt electric motor. 24-volt electric motor is optional. Call for pricing
- Remote push-button operating switch, solenoid and connectors are included with electric rewind models
- Vertical or 30° mechanisms are optional at extra cost and must be specified
- A pinion shaft brake is standard

MATERIAL	HOSE CAPACITY (FT.)		REEL DIMENSIONS IN INCHES								APPROX WT (LB)
	OD: 1-1/4"	OD: 1-9/16"	A	B	C	D	E	F	G	H	SHIP
STEEL	150	100	29.5	24	10.5	20.5	21.62	34.25	21.25	12.12	144
ALUM			122								
STEEL	150	100	21	15.5	10.5	20.5	23	25.75	23.5	12.12	134
ALUM			117								
STEEL	250	150	27.5	22	10.5	20.5	23	32.25	23.5	12.12	147
ALUM			124								
STEEL	300	200	25.5	20	10.5	25.5	24.75	32.25	27.88	15.5	155
ALUM			129								
STEEL	400	250	31.5	26	10.5	25.5	24.75	38.25	27.88	15.5	168
ALUM			135								
STEEL	200	100	13.5	8	10.5	25.5	28.75	18.25	29.88	15.5	157
ALUM			133								
STEEL	250	150	17	11.5	10.5	25.5	28.75	21.75	29.88	15.5	157
ALUM			133								
STEEL	400	200	21	15.5	10.5	25.5	28.75	27.75	29.88	15.5	163
ALUM			137								
STEEL	500	250	25.5	20	10.5	25.5	28.75	32.25	29.88	15.5	171
ALUM			140								
STEEL	550	300	27.5	22	10.5	25.5	28.75	34.25	29.88	15.5	175
ALUM			142								
STEEL	650	350	31.5	26	10.5	25.5	28.75	38.25	29.88	15.5	184
ALUM			147								



### NOTES:

- The "F" dimension shown is for non-explosion proof motors. Add 2" to "F" dimension for explosion proof motors.
- The "E" dimension shown is maximum without crank. Add 10" when crank is in rewind position.
- Weights listed are for electric manual rewind reels. Add approx. 40 lb for electric models.

DESCRIPTION	OPTIONS	
Electric Rewind Reel 12-Volt with 1/2HP Motor	STEEL	ALUM.

# BOOSTER REEL OPTIONS

Hose Reel Options for Hannay Reels include chrome Hose Roller Guides to speed the handling of the hose and reduce wear and damage. Hose Roller Guides can be installed on one or both sides of the reel, in high-mount, top-wind position or low-mount, bottom-wind position. The 12 Volt 1/3HP motor can be substituted with either a 1/2HP or 2/3HP.

**NOTE:** These are for Hannay Reels only. Please specify model and serial number when ordering.



BOOSTER HOSE REEL OPTIONS	
24065	Chrome Hose Rollers w/ Double Brackets
24066	Chrome Hose Roller w/Single Bracket
11733	1" Flanged Riser
11671	Motor: 12 Volt 1/2HP Explosion Proof
11679	Motor: 12 Volt 2/3HP Explosion Proof

# ROLLER ASSEMBLY

Roller and Spool Assembly speeds handling and reduces wear and tear on hose. Assembly can be factory-installed, when specified as part of reel order, or can be ordered as an accessory item for field installation on a reel or other equipment. Buffed stainless steel rollers resist corrosion, pitting and abrasion. Polished, chrome-plated spools. Delrin bearing surfaces provide for quiet operation and minimum wear. Available in steel and aluminum.

ROLLER ASSEMBLY	
11742	Roller & Spool Assembly
11743	Mounting Bracket: High Mount
11744	Mounting Bracket: Low Mount

# REPLACEMENT SWIVEL JOINTS

Replacement swivel joints for Hannay hose reels are available in 90° or straight and have 1" NPT female fittings.

- 11672 1" 90 Degree Swivel Joint
- 11673 1" Straight Swivel Joint



# EF 4000 MINI REEL

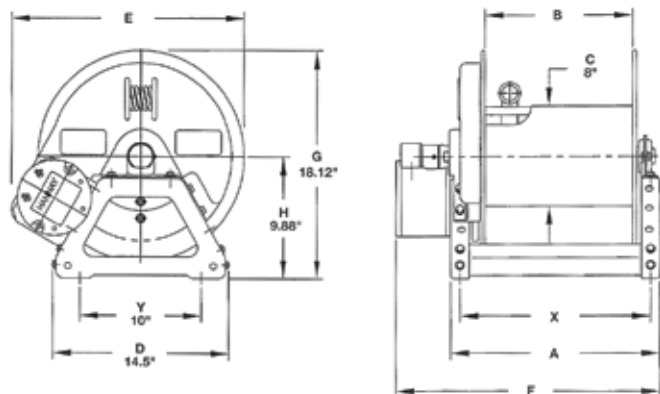
The Hannay EF 4000 is a compact "mini" reel that can handle single 3/4" or 1" booster hose, and is ideal for use in restricted spaces or on slip-on units. It is also well-suited for use in brush and forest firefighting vehicles. This reel works with Hannay Roller Assemblies (see this page), sold separately.



- Lightweight, compact reels designed for long lengths of hose
- Comet brake is standard on power rewind reels
- Standard inlet: 90° ball bearing swivel joint, 1" female NPT threads
- Standard outlet: 1" female NPT threads
- Optional rollers: specify roller position when ordering

- 11672 1" 90 Degree Swivel Joint
- 11673 1" Straight Swivel Joint

HOSE CAPACITY (FT.)							
ID: 3/4" OD: 19/16"	1" 19/16"	A	B	E ELEC	F ELEC	X	WGT (LB)
100	50	21	16	19	27	19.5	64





# CASCADE

EMERGENCY VEHICLES



## CASCADE EMERGENCY VEHICLES

is a new division of Cascade Fire Equipment and is Southern Oregon's premier emergency vehicle upfitter.

We deliver excellence in service and quality to our customers through the upfitting of vehicles for Police, Fire, and Utility. Our emergency vehicle technicians have years of experience and our sales staff is knowledgeable on a variety of systems. Our goal is to be the number one resource to our customers for knowledge, service, and value for emergency vehicles. With our experience and unique manufacturing capabilities, we aim to exceed all of our customer's expectations.

## ★ **LAW ENFORCEMENT**

Cascade Emergency Vehicles offers a variety of products and services to our law enforcement customers. From small additions to existing vehicles, to full turn key builds, we can work with you to develop a safe and functional build to meet your department's specific needs. We put officer safety as a top priority on all of our builds and value your trust in us. Thank you for your commitment to keeping our communities safe.



### **WHAT WE OFFER**



#### **PATROL VEHICLE SERVICES**

Lightbar, siren controller, siren speaker, push bumper, intersection lighting, headlight flasher, spotlight, tail light flasher, license plate lights, equipment console, radio/communications equipment installation, computer stand, docking station, gun rack, prisoner partition, cargo partition, prisoner seat, window bars, door panels, graphics and window tinting.

#### **UNDERCOVER VEHICLE SERVICES**

Windshield light, handheld siren controller, siren speaker, grille lights, headlight flasher, tail light flasher, deck lights, headlight inserts, and tail light inserts.

Cascade Emergency Vehicles offers a variety of products and services to our fire customers. Our parent company, Cascade Fire Equipment, specializes in the manufacturing of brush trucks. From there, our Emergency Vehicle Technicians complete the build by upfitting a functional package to meet the unique demands of the fire service. In addition to our own brush trucks, we offer upfitting for Battalion Chief vehicles, command support and engines.



## WHAT WE OFFER



### BATTALION CHIEF VEHICLE SERVICES

Lightbar, siren controller, siren speaker, headlight flasher, push bumper, intersection lights, read window lighting tail light flasher, rear gate lights, rear cargo lights, equipment command console, computer stand, docking station, radio/communications equipment, cargo slide, turnout storage, SCBA storage, vehicle charging system, graphics and window tinting.

### COMMAND SUPPORT VEHICLE SERVICES

Lightbar, siren controller, siren speaker, headlight flasher, push bumper, intersection lights, read window lighting tail light flasher, rear gate lights, rear cargo lights, equipment command console, computer stand, docking station, radio/communications equipment, cargo slide, turnout storage, SCBA storage, vehicle charging system, graphics and window tinting.

### ENGINE

Equipment console, radios/communication equipment, computer stand, and docking stations.



# SAFETY AND UTILITY

From road construction sites to utility companies, we offer a full line of amber safety vehicle systems. Amber safety lights sends a message to drivers to "Stay Alert" at a much farther distance than blue, red or clear lights because they travel further through fog rain and snow. Keeping in mind the safety of our customers and equipment, we offer several amber light packages to notify other drivers to be cautious.



## WHAT WE OFFER



### TRAFFIC CONTROL

Traffic arrow, lightbar, lighting controller, back-up alarm, message board, grille lights, tail light flashers, and headlight flashers.

### UTILITY

Lightbar, lighting controller, back-up alarm, winch, grille light, tail light, and traffic lightbar.



# STRIKE TEAM® FIRE GEAR

We make our **STRIKE TEAM® FIRE GEAR** to meet the highest standards of safety for Wildland firefighters. Our products are made from fabrics developed for absolute performance, durability, and comfort. Our NFPA certified wildland clothing is produced in an ISO-certified sewing facility, and our gear is designed to meet the unique needs of today's firefighters. All Strike Team® products are backed by quality, delivery, and after-market support, and all of our products are made in the USA.



## ISO 9001:2015

Cascade Fire Equipment Company maintains ISO 9001:2015 certification of registration from the Underwriters Laboratories (UL). The International Organization of Standardization (ISO) promotes the development of standards, testing and certification to encourage the trade of quality products and services locally, nationally and internationally. Their standards provide guidance in the development and implementation of an effective quality control management system.

Cascade is committed to the ongoing obligation of maintaining the standards required for both the ISO certification and NFPA classification. We maintain internal quality control programs, and undergo an annual audit with UL, the most often used independent third-party witness to NFPA standard testing.



## NFPA 1977-1975

Strike Team® Fire Gear brush clothing and shrouds are certified to the latest edition of NFPA 1977, and Strike Team® brush pants are dual certified to 1977 and 1975. The National Fire Protection Association (NFPA) was established to help maintain firefighter and civilian safety. NFPA 1977 specifically addresses the wildland firefighter. NFPA 1975 establishes requirements for flame-resistant station uniform clothing.

NFPA certification requires that manufacturers of wildland firefighting equipment are certified by an external organization, such as Underwriter's Laboratory (UL), which tests manufacturer's products to specific performance standards set by the NFPA.

Wildland garments with NFPA certification ensures the highest safety of wildland firefighters.

# PERFORMANCE FABRICS

Fighting fires is a tough job but when fires occur in the wilderness the challenges can multiply. Wildland firefighters face rugged terrain, hard labor and long hours. Facing down raging flames in the wild can mean serious hazards to life and limb and firefighters need to be confident in their protection. The fabrics we choose for our Strike Team Fire Gear are engineered for maximum thermal protection, comfort, and durability.

## DuPont™ Nomex®

Nomex® provides built-in flame resistant protection and unbeatable durability. Keeps you cool and dry and retains its professional appearance after rugged use and multiple washings.

## TENCATE Advance™

Advance™ is a unique 60/40 blend of Kevlar® and Nomex® with an innovative construction that provides good thermal protection and high tensile strength in a lightweight, flexible, and comfortable fabric.

## TENCATE Tecasafe® plus

TenCate Tecasafe® Plus delivers superior electric arc and flash fire protection in a comfortable, soft, breathable, and lightweight fabric. Superior moisture management and exceptional abrasion resistance.



Armor AP™ combines strength and flexibility in a lighter weight fabric to let firefighters last longer on the job. Kevlar Filament Twill Technology provides tear resistance for longer period of time than traditional fabrics.

## TENCATE PROTECTIVE FABRICS

TenCate Firebreak™ 362 & Firebreak™ 469 are engineered for maximum thermal protection, comfort and easy visibility.

Made with DuPont™ Nomex®, these fabrics offer the certainty of FR protection that firefighters can trust again and again. TenCate Style 469™ is strategically placed in the current CAL FIRE Wildland Garment System where increased levels of Radiant Protective Performance (RPP) are required.



STRIKE TEAM FIRE GEAR

# STRIKE TEAM® BRUSH CLOTHING

STRIKE TEAM® BRUSH CLOTHING is NFPA certified to meet the highest standards of safety for wildland firefighters. Made from fabrics developed for absolute performance, durability, and comfort, our brush gear is designed to meet the unique needs of today's firefighters.



## BRUSH COATS

### EVEN NUMBERED CHEST SIZES 32-58

- Full cut with all seams double stitched
- Outer leg seams, pockets, pocket flaps, fly and crotch double top stitched and bar tacked at stress points
- Single brass zipper front coat closure with hook & loop storm flap
- Interior zipper flap
- Collar extension with hook & loop storm flap closure
- Sleeve cuff closure system with adjustable hook & loop
- Two large hip pockets with hook & loop closure flaps
- Radio pocket on left chest with mic tab

## BRUSH PANTS

### EVEN NUMBERED WAIST SIZES 26-56 AND EVEN NUMBERED LEG LENGTHS 28-36

- 2" elastic waistband with seven belt loops
- Front slash pockets
- Bellow pockets 6" x 9" x 2" with hook & loop closure on flaps
- Back pockets with hook & loop closure
- 12" zipper & snap fastener on lower outside leg one (1) sight gauge



## FABRICS

7 OZ. TECASAFE® PLUS



6 OZ. NOMEX®



5.5 OZ. ARMOR AP





<b>PART</b>	<b>50183</b>	<b>50197Y</b>	<b>50174A</b>
<b>FABRIC</b>	Tecasafe® Plus	Nomex®	Armor AP
<b>SIZES</b>	Available in sizes 32-58		



<b>PART</b>	<b>50184</b>	<b>50189Y</b>	<b>50181A</b>
<b>FABRIC</b>	Tecasafe® Plus	Nomex®	Armor AP
<b>SIZES</b>	Available in sizes 26-56		



## CLOTHING REPAIR KIT

Snagged on the fireline? Our clothing repair kits allow you to make repairs without missing any of the action. Each kit includes approximately one ¼ yard of material, matching Nomex®/Kevlar® thread, and a heavy duty hand sewing needle, in a Cordura pouch. Please specify type and color of material when ordering.

50222 Clothing Repair Kit with Pouch

50223 Clothing Repair Kit without Pouch



# STRIKE TEAM® SHIRTS

STRIKE TEAM® SHIRTS come in a high-visibility yellow in fire resistant 6 oz. Nomex® or 7 oz. Tecasafe® Plus and are full cut to allow freedom of movement.



- All seams double stitched with Kevlar® and Nomex® thread
- Pockets, pocket flaps double top stitched and bar tacked at stress points
- Exterior pockets with button closure flaps
- Sleeve cuff closure system with adjustable book & loop
- Collar extension with hook & loop storm flap closure
- Pen pocket on sleeve
- Fabric meets FR requirements for CAL OSHA Title 8 GISO Sections 3406(c)(1) and 3410(d)(1)3410(d)(1)

7 OZ. TECASAFE® PLUS

6 OZ. NOMEX®

<b>PART</b>	50178	50182
<b>FABRIC</b>	Nomex®	Tecasafe® Plus
<b>SIZES</b>	XS-XXL & UP	XS-XXL & UP



# STRIKE TEAM® PANTS

Get to the fireline and back with safety and comfort. Tough enough for fighting today's wildland fires and comfortable enough to wear around the station. Certified NFPA 1977 and 1975 current edition (Men's sizes only).

- Full cut with all seams double stitched
- Outer leg seams, pockets, pocket flaps, fly and crotch double top stitched and bar tacked at stress points
- 2" elastic waistband with 7 belt loops (Men), 6 belt loops (Women)
- Zipper fly with snap closure & interior zipper guard
- Deep front slash pockets
- Bellow pockets 6" x 9" x 2" with hook & loop closure
- Back pockets with hook & loop closure flaps
- Leg cuff closure system with adjustable hook & loop
- Fabric meets FR requirements for CAL OSHA Title 8 GISO Sections 3406(c)(1) and 3410(d)(1)3410(d)(1) and service manual



STRIKE TEAM FIRE GEAR

**MEN'S: EVEN NUMBERED WAIST SIZES 26-56**  
**EVEN NUMBERED LEG LENGTHS 28-36**  
**WOMEN'S: EVEN SIZES 2-14**  
**INSEAMS: PETITE (30"), REGULAR (32"), AND LONG (34")**

<b>PART</b>	50189	50180	50190	50188
<b>FABRIC</b>	Nomex®	Tecasafe® Plus	Advance™	Armor AP
<b>SIZES</b>	Available in sizes 26-56 and Women's sizes 2-14			



7.5 OZ. NOMEX®  
NAVY GREEN



7 OZ. TECASAFE® PLUS  
NAVY GREEN



7.2 OZ. ADVANCE™  
NAVY GREEN  
YELLOW KHAKI



6.5 OZ. ARMOR AP  
KHAKI



# STRIKE TEAM® GEN II JACKET & PANTS

Engineered for the optimum combination of thermal protection and durability while providing unparalleled comfort.



Utilizing an innovative dual fabric system, the body of our Our Gen II Jacket is made with Tencate Style 362, a lightweight fabric known for its superior breathability characteristics. Tencate Style 469™, a tougher, more protective material is used for the arms, since extremities are more prone to burns on the fire line. Our Gen II pants are made exclusively of Tencate Style 469™.

## GEN II JACKET

EVEN NUMBERED CHEST SIZES 32-58  
CERTIFIED NFPA 1977:2016

- Extra large YKK zipper closure
- Hook & Loop collar closure
- Radio pocket with hook & loop closure
- Scotchlite silver reflective trim on both biceps
- Bellowed chest pocket with hook & loop closure
- Bi-swing back for added mobility
- Articulated elbows
- Dual mic tabs

**STYLE 469 (PANTS & SHIRT ARMS)**  
HEAT PROTECTION (RPP): 10.5 CALS/CM<sup>2</sup>  
BREATHABILITY (THL): 650 W/M<sup>2</sup>  
**STYLE 362 (SHIRT BODY) HEAT**  
PROTECTION (RPP): 9 CALS/CM<sup>2</sup>  
BREATHABILITY (THL): 720 W/M<sup>2</sup>

<b>PART</b>	50187Y
<b>SIZES</b>	Available in sizes 32-58



## GEN II PANTS

EVEN NUMBERED WAIST SIZES 26-56  
EVEN NUMBERED LEG LENGTHS 28-36  
CERTIFIED NFPA 1977:2016 & NFPA 1975: 2019

- Two front slant pockets
- Two tactical cargo pockets
- Gusseted crotch
- Articulated knees
- Hook & loop cuff closure
- Two rear welt pockets
- 7 oversized belt loops accommodate a 2" belt
- Front snap closure with locking zipper fly closure

<b>PART</b>	50195MN	<b>NEW!</b> 50196MN (TACK SNAP BUTTON)
<b>SIZES</b>	Available in sizes 26-56	Available in sizes 26-56





# FACE & NECK PROTECTORS

Designed to protect Wildland Firefighters from radiant heat without compromising work performance or comfort. Certified NFPA 1977.

The front of the shroud is secured with a self-fastening hook & loop closure, and the Face & Neck Protector can easily be attached to your helmet providing increased protection against heat. Fastening strips are included for use with a variety of helmet brands. Cascade makes three style.



## STANDARD SHROUD

STANDARD SHROUD is available in high-visibility yellow 6 oz. Nomex® or 7 oz. Tecasafe® Plus and includes 3 self-adhesive fastening strips.

- 50016 | Standard Nomex®
- 50047 | Standard Tecasafe® Plus

6 OZ. NOMEX®

7 OZ. TECASAFE® PLUS



## DELUXE SHROUD

DELUXE SHROUD is made from 6 oz. Nomex shell material with a flame-resistant Westex Ultra Soft® Twill inner-shell lining for maximum protection.

- 50016 | Deluxe Nomex® w/cotton liner

6 OZ. NOMEX®

ULTRA SOFT® TWILL



## SUPER DELUXE SHROUD

SUPER DELUXE SHROUD is constructed for greater coverage and attaches directly to your suspension for a more secure and comfortable fit. Made from 6 oz. Nomex® with a 5.8 oz. Nomex® liner on interior or 7 oz. Tecasafe® Plus shell material with a 5.8 oz. Nomex® liner.

- 50030 | Super Deluxe Nomex®
- 50048 | Super Deluxe Tecasafe® Plus

6 OZ. NOMEX®

7 OZ. TECASAFE® PLUS



5.8 OZ. NOMEX®





## STRIKE TEAM

The **STRIKE TEAM** is our original radio holder, with an adjustable neck and chest harness that keeps your radio holder snug and in position.

- Adjustable harness
- Quick release buckles
- Angled pen or pencil slots
- Hidden map pocket
- Pocket with self-fastening flap for extra batteries

50081 | Strike Team Radio Holder

## UNIVERSAL RADIO POUCH

Cascade's **UNIVERSAL RADIO POUCH** holds a single radio and attaches to a firefighting pack or to any web gear shoulder strap with strong, durable snaps.

- Made from elastic webbing and Cordura®.
- Adjustable strap w/quick release buckle
- Dimensions: 8.5" x 3.5" x 2" deep

50051 | Universal Radio Pouch



# RADIO HOLDERS

Communication is the key to firefighter safety. Our Radio Holders are made from tough DuPont Cordura® and webbing. Quick release buckles and adjustable straps keep any size of radio secure.



## COMMANDER

The **COMMANDER RADIO HOLDER** does it all! Adjustable neck and chest harness and adjustable radio pocket and antennae loop keeps any size radio secure.

- Two additional pockets for extra gear
- D ring & three angled slots for pens
- Zippered storage pouch
- Adjustable neck and chest harness
- Notepad holder
- Reflective strips on back
- Quick release buckles and detachable shoulder straps



50520 | Commander Radio Holder

## BENDIX KING RADIO HOLDER

The **BENDIX KING RADIO HOLDER** keeps your radio holder snug and in position.

- Adjustable neck and chest harness
- Angled pen or pencil slot
- Hidden map pocket
- Quick release buckles
- Pocket with self-fastening flap for extra batteries

50082 | Bendix King Radio Holder



## INITIAL ATTACK PACK

Keep essential wildland fire gear on hand and ready to access whenever you need it with **INITIAL ATTACK PACK**. It effectively stores, carries, and provides ready access to essential wildland fire gear. All system components are made of 1000D Cordura® and feature a MOLLE attachment system.

- Horizontal Fire Shelter Case fits both the New Generation Fire Shelter and plastic insert
- V-Tab Bottle Holder securely carries most one-quart water bottles
- Top-loading Large Accessory Bag, 8"x 9"x 4" (for a storage capacity of 400 cu. in.) with an easily accessible wide-mouth zipper opening for convenient storage and access
- Quick release buckles
- Pocket with self-fastening flap

50506 | Initial Attack Pack



## STRIKE TEAM® WEB GEAR

**STRIKE TEAM® WEB GEAR** is practical, durable, and comfortable, allowing firefighters to carry their essential gear to the fireline. Comprised of three main components: a Waist Belt, a detachable Shoulder Harness, and a detachable Web Pack. All Web Gear is made of 1000 denier Cordura® and tough, black polypropylene webbing.

The **STRIKE TEAM® WEB GEAR WAIST BELT** is secured with an adjustable 2" synthetic strap and quick-release buckle, and accommodates the New Fire Shelter. It includes three 8½" x 4½" x 1½" removable equipment pouches.

The **WEB GEAR HARNESS** detaches or attaches to the belt with quick-release buckles. Adjustable for varied heights with 3" wide shoulder padding.

The **WEB PACK** has a main compartment, secured on three sides by a heavy-duty YKK zipper, two side pockets with 3 fuse holders, an outer back compartment with reflective strip and self-fastening flap, and a convenient carrying handle on top.

- **DIMENSIONS:** 11" x 14" x 7"
- **MAIN COMPARTMENT:** 14" x 11" x 5"
- **Two side pockets:** 10" x 3" x 3" each with 3 fuse holders
- **Outer back compartment:** 11" x 6½" x 3"

50026	Waist Belt Only
50027	Harness Only
50028	Web Pack Only
50029	Web Gear Complete



# STRIKE TEAM® HOSE PACKS

When fighting wild fires, there are places water sources just can't reach. Cascade's Hose Packs give you the ability to extend your front line.

All of our Hose Packs are constructed of sturdy 1000 denier DuPont Cordura® with tough durable webbing and reinforced seams. Quick release buckles and Hook and Loop closures allow for fast deployment of hose. All hose packs have wide, fully adjustable, padded shoulder straps for comfort under a heavy load. Strike Team Hose Packs come in several styles to meet your specific needs and preferences.

## HI-RISE HOSE PACK

Used as a high rise pack or a quick and easy way to do an extended line operation. Made from tough durable polypropylene webbing and attached with seat belt buckles. Includes a strong handle and a shoulder strap attached with strong swivel clip buckles.

- Capacity: Holds up to 200 feet of 1.5" or 1.75" double jacketed hose

50320 | Extended Line Hose Pack



## CASCADE

CASCADE'S original hose pack is still the most popular. A simple, functional design with a ballistic nylon base and a flap secured by quick release buckles.

- DIMENSIONS: 22" x 18" x 4"
- Capacity: Up to three 100 ft. lengths of 1" hose or two lengths of 1.5" hose

50313 | Cascade Hose Pack

## APPLEGATE

The APPLGATE has a full front opening under the flap secured by heavy duty 2" hook and loop, a ballistic nylon base, and a flap secured by quick release buckles.

- DIMENSIONS: 22" x 18" x 4"
- Capacity: Up to three 100 ft. lengths of 1" hose or two lengths of 1.5" hose

50315 | Applegate Hose Pack

## PHOENIX

The PHOENIX has large 6.5" x 10" x 2.5" pockets on each side for hose clamps and fittings, a ballistic nylon base, and a flap secured by quick release buckles.

- DIMENSIONS: 22" x 18" x 4"
- Capacity: Up to three 100 ft. lengths of 1" hose or two lengths of 1.5" hose

50316 | Phoenix Hose Pack



## THE FED

**THE FED** Hose Pack was specifically designed to easily deploy wildland hose from the bottom of the pack. Includes a tough molded carrying handle. Available in Red or Forest Green.

- **DIMENSIONS:** 15" x 15" x 6"
- **Capacity:** 100 ft. length of 1" hose and 100 ft. length of 1.5" hose.

50312	Fed Red Hose Pack
50312G	Fed Green Hose Pack



## MEDFORD

The **MEDFORD** incorporates the front opening of the Applegate and the side pockets of the Phoenix for a highly functional option for packing hose.

- **DIMENSIONS:** 24.5" x 19" x 6"
- **Capacity:** Up to three 100 ft. lengths of 1" hose or two lengths of 1.5" hose

50319 | Medford Hose Pack

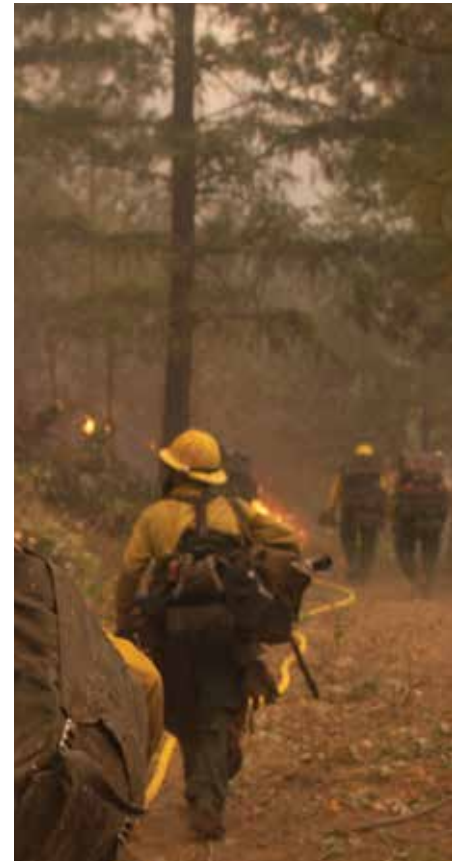


## FIRELINE HOSE PACK

Easily load and deploy progressive hose lays along the flanks of a wildland fire. Each length is secured individually using 1" color coded nylon webbing and quick-release buckles. Adjustable straps cinch the hose in tight. The entire load is secured with 2" adjustable polypropylene webbing.

- **Capacity:** Holds two lengths of 1.5" x 100 ft. cotton or synthetic, and one 1" x 100 ft. hose

50321 | Fireline Hose Pack



## RIVERSIDE

The **RIVERSIDE** Hose Pack has a flap secured by two 8" x 2" hook and loop and extra wide (5-6") adjustable, padded shoulder straps.

- **DIMENSIONS:** 24.5" x 19" x 6"
- **Capacity:** Up to three 100 ft. lengths of 1" hose or two lengths of 1½" hose

50314 | Riverside Hose Pack



Add a nozzle!  
Wildland nozzles on page 98

# STRIKE TEAM® GEAR BAGS

Built tough to carry and protect your gear, **STRIKE TEAM® GEAR BAGS** are constructed of sturdy 1000 DuPont Cordura®, a material designed to resist water, oil, and grease, and are reinforced with black polypropylene webbing. All compartments are secured with heavy-duty YKK zipper closures. Secure, easy-open fastening strips on exterior pockets and flaps and black polypropylene webbing handles which can be fastened together for a cushion grip. Complete with built-in ID windows and silkscreen lettering.



## FORESTRY GEAR BAG

- DIMENSIONS: 18" x 12" x 12"
- Zippered side pocket for smaller items
- Silkscreen lettering: FIRE FIGHTER

50084R	Red with Yellow lettering
50084BK	Black with Red lettering
50084G	Green with Yellow lettering



## DELUXE FORESTRY GEAR BAG

- DIMENSIONS: 24" x 12" x 12"
- MAIN COMPARTMENT: 18" x 12" x 12"
- Two cargo pockets: 12" x 12" x 3"
- Two side pockets: 15" x 11" x 3"
- Silkscreen lettering: FIRE FIGHTER

50010R	Red with Yellow lettering
50010BK	Black with Red lettering



## EXTRA LARGE GEAR BAG

- DIMENSIONS: 25" x 14" x 13"
- Exterior zippered side pocket for smaller items: 11" x 11"
- Silkscreen lettering: FIRE FIGHTER

50083	Red with Yellow lettering
50083BLK	Black with Red lettering



## DELUXE GEAR BAG

- DIMENSIONS: 32" x 14" x 13"
- MAIN COMPARTMENT, 24" x 14" x 13", with double heavy-duty YKK zippers that allow entire top of bag to open
- Cargo pouches on both ends: 14" x 13" x 4"
- Side pocket for smaller items
- Silkscreen lettering: FIRE FIGHTER

50091R	Red with Yellow lettering
50091BK	Black with Red lettering



# CREW PACKS

Take it all with you to the fire line! Cascade's firefighting packs are fully adjustable and offer maximum storage, ultimate comfort, and exceptional durability.

Made of tough 1000 denier Cordura® and black polypropylene webbing with secure and easy-open fastening strips on exterior pockets and flaps, heavy-duty YKK zipper closures on main compartments. Padded straps for carrying on back, or carry with handles.



## STAND UP GEAR BAG

Holds all your necessary protective gear so you are ready to “turn out” for the fire. Heavy-duty YKK 2-way zipper opens the bag all the way for quick removal of gear.

- DIMENSIONS: 20" x 18" x 15"
- Exterior zippered front pocket for smaller items: 10" x 10½"
- Silkscreen lettering: FIRE FIGHTER

50088 | Red with Yellow lettering



## CREW PACK

The **CREW PACK** delivers size, comfort, and functionality. The pack has zippers on all main compartments and a hook and loop closure on the outer back compartment and top and side carrying handles.

- DIMENSIONS: 30" x 14" x 9"
- MAIN COMPARTMENT: 24" x 14" x 8"
- Bottom compartment: 6" x 14" x 8"
- Outside compartment: 13" x 16" x 2"
- Zipped pocket on outside compartment: 9" x 8"
- Outer back compartment: 14" x 15"

50095 | Red Crew Pack



## CREW BAG

- DIMENSIONS: 40" x 14" x 13"
- Extra large main compartment: 34" x 14" x 13"
- Zipped cargo pouches on both ends: 3" x 14" x 13"
- Outside pocket: 15" x 11"
- Silkscreen lettering: FIRE FIGHTER

50094 | Red Crew Bag



# WILDFIRE HELMETS



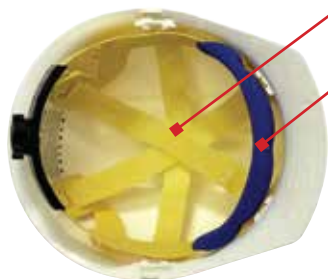
**CAP STYLE**

**3 GOGGLE CLIPS**



**HAT STYLE**

**REFLECTIVE  
LIME-YELLOW  
STRIPES**



**FLEX-GEAR® RATCHET SIZING SUSPENSION**

**COTTON BROW PAD**



**COLORS**



## BULLARD WILDFIRE HELMETS

**BULLARD WILDFIRE HELMETS** are specifically engineered to meet the special needs of wildland/forestry firefighters. Manufactured from heat-resistant thermoplastic for superior impact and penetration protection, Wildfire helmets meet and exceed the performance specifications of NFPA 1977 and all major state fire codes for wildland firefighting. Designed to accept a full range of brackets for faceshield visors and screens. The Flex-Gear® suspension sizes quickly with the turn of a ratchet knob. A brow pad pulls moisture away from the skin, and is hand washable and replaceable. Available in cap style or full brim hat style.

WILDFIRE HELMETS	
50022	Wildfire Cap with Ratchet Suspension
50023	Wildfire Hat with Ratchet Suspension
50021	Rectangle style Replacement Ratchet Suspension
50020	Nylon Chin Strap with Postman Buckle

## HOT SHIELD FACE MASK

Multiple layer face protector mask designed by firefighters for use in all wildland or outdoor firefighting operations. Provides unequalled, extreme protection against burns to the face/neck. Integral filter pocket accepts a low-level, disposable N-95 filter to reduce smoke & ash particulate common to wildfires (filters not in package; sold separately). Multiple layers of 2600 degree Fahrenheit resistant Carbon X help maintain the crucial airspace in front of the mouth and nose and absorb perspiration.

- One size fits all (hook & loop fasteners )
- Classified NFPA Standard 1977
- Uses disposable (N-95) dry or wet style filter

50600	Hot Shield
50601	Replacement Filter
50603	Web Case



**STRIKE TEAM®  
FACE & NECK PROTECTORS  
PG. 31**



# WILDLAND GOGGLES

## BACKDRAFT

**BACKDRAFT** is the new high technology firefighting goggle that is low profile, high performance, lightweight (4.25oz.) and comfortable. Fully sealed and able to withstand the most extreme conditions. Dual carbonate lens uses an exclusive permanent Platinum coating applied to both sides of the lens making it highly scratch resistant and effectively delays the appearance of fogging. NFPA 1977-Wildland and ANSI Z87.1-2010.

50443 | Backdraft Goggles



## ESS FIREPRO-FS

**ESS FIREPRO-FS** is optimized for wildland firefighting with a low-profile, compact frame designed for maximum peripheral vision and minimal interference with helmets. Extra thick high-impact interchangeable lenses, OpFoam™ antimicrobial padding, and ClearZone Flow Coat anti-fog, anti-scratch coatings. ESS Speed-Clip™ strap system. Certified NFPA 1977-2018, Federal OSHA and ANSI-Compliant.

50413 | ESS Firepro-FS Goggles



## ESS STRIKETEAM XTO

**STRIKE TEAM XTO** goggle components are heat and flame resistant, including the durable face padding and vent foam. Thick polycarbonate 2.4mm interchangeable lenses provide maximum impact protection and optical clarity and fit over glasses. ESS Speed-Clip™ strap system. 100% UVA/UVB protection. Certified NFPA 1977, Federal OSHA and ANSI-Compliant. Includes 2 tear-off lens covers.

50426 | Striketeam XTO Goggles

50430 | Tear-off Lenses (6 pack)



## WILDCAT GOGGLES

**WILDCAT GOGGLES** provide extreme heat resistance and performance vision protection. Goggle does not melt, drip or ignite at 350 degrees F for 5 minutes. Lightweight and comfortable with adjustable side vents, the Wildcat fits naturally to the contour of the face. Meets ANSI Z87.1+ Standards. One size fits all with pivot headband for optimal placement.

50437 | Wildcat Goggle, Clear

50438 | Wildcat Goggle, Smoke

50440 | Wildcat Goggle, Amber

50441 | Wildcat Goggle, Green



## PAULSON A-TAC

The **PAULSON A-TAC** protective goggle designed to specifically address the needs of the Wildland firefighter. An optically correct lens, silicone frame, baffled top and bottom vents, and hard coated, superior anti-fog lexan lens. Fits over most prescription, and sun protective glasses. NFPA 1977, ANSI Z87.1. USA Made.

50420 | A-TAC Goggle

50421 | Goggle with Nose Shield



## NORTH STAR GLOVES

**NORTH STAR WILDLAND GLOVES** are made from side split cowhide and have an extra long flame retardant Nomex® knit wristlet. The wristlet is overcast to prevent unraveling and it returns to original shape after being wet.

- Sizes: Men's XS, S, M, L, XL
- Meet CAL-OSHA SEC 3410 Wildland

50218 | North Star Gloves

## WILDLAND GLOVES

Made from flame, heat, cut and puncture resistant cowhide suede leather with black leather palm on wear surface and glove back in gold leather. 4" long double layer knit Kevlar wristlet with leather pull patch on palm side. Made in the USA.

- Sizes: XS, S, M, L, XL
- Certified to NFPA 1977

50219 | Wildland Gloves

## GLOVE HOLDER

Easy storage & immediate access to gloves at all times! Our glove holder is secured by an adjustable, self-fastening nylon strap and uses a D-Ring and Snap Ring to attach to clothing.

50224 | Glove Holder

## CANTEENS

These canteens have been used by fire service personnel for years to insulate and protect firefighter's water supply. BPA Free virgin polyethylene plastic. Attached, easy "on-off" and leak-proof cap is tested to meet government specifications assuring proper seal. Canteens are non-breakable, non-toxic, and freezer-ready. Made in the USA with a lifetime warranty. **1 QUART FLASK** has a safety chain cap attached to a metal band and a rust free metal belt clip.

11159 | 1 Quart Canteen

**2 QUART CANTEEN** has rugged orange side plates with a mildew resistant carry strap, steel web loops, and safety chain cap.

11157 | 2 Quart Canteen

**4 QUART WESTERN CANTEEN** has felt covered virgin polyethylene PBA free plastic, a mildew resistant carry strap, steel web loops, and a safety chain cap.

11158 | 4 Quart Canteen

## HOSEMAN FULL GRAIN LEATHER BELT

Simple, affordable, and durable! **HOSEMAN FULL GRAIN LEATHER BELTS** are handcrafted from heavy duty, 7-8 oz. matte black full grain leather, featuring brushed nickel hardware. These are perfect for on or off duty! Buckles and loops are easily removed using the Chicago screws on the backside of the belt. Sizes range from 30"-54".

50254 | Full Grain Leather Belt



**Hoseman**  
LEATHER COMPANY

# FIRE SHELTERS

All wildland firefighters are required to carry the New Generation Fire Shelters.

# CHAPS

Fire Shelters are designed to reflect radiant heat, protect against convective heat, and trap breathable air in an attempt to save the firefighter's life. Fire shelters are constructed layers of aluminum foil, woven silica, and fiberglass.

**REGULAR FIRE SHELTER** includes fire shelter, nylon duck carrying case, carrying case plastic liner.

- Deployed size: Length: 86"/Height: 15½"/Width: 31"
- Forest Service Spec 5100-606

50096 | Regular Shelter

**LARGE FIRE SHELTER** is for firefighters taller than 6'1" or whose girth exceeds 53" at any point.

- Deployed size: Length: 96"/Height: 19½"/Width: 33"
- Forest Service Spec 5100-606

50096L | Large Shelter

Reusable practice fire shelter systems for training in the use of **REGULAR** and **LARGE FIRE SHELTERS**. Includes carrying case, case liner, polyvinyl bag, and practice shelter.

- Forest Service Spec 5100-611

50097 | Practice Shelter

50097L | Large Practice Shelter

## FIRE SHELTER BELT

Designed to allow firefighters to carry a fire shelter, canteens and other equipment. 2" nylon webbing with adjustments for waist size and a quick-release buckle.

50086 | Fire Shelter Belt

## ENGINEER PACK

Cascade's **ENGINEER PACK** is a fire shelter holder designed specifically for heavy equipment operators required to carry a fire shelter. The pack fits comfortably on the front of the firefighter and is easily accessible. Constructed of sturdy 1000 denier DuPont Cordura® with adjustable elastic shoulder and waist straps. Includes straps for holding a radio, a side pouch, and two D rings.

50054 | Engineer Pack

## WILDLAND CHAINSAW CHAPS

**WILDLAND CHAINSAW CHAPS** offer 180 degrees of protection where it matters most. Rugged, comfortable and an easy fit over your work clothes. 3 plies of woven para-aramid and 2 plies of para-aramid felt with 1000 denier Cordura urethane coated nylon shell front and back. 2" wide waist belt with 4 compartment tool pocket with snap closure, and 1" heavy nylon webbing leg straps with adjustable quick release nylon buckles.

50330 | 32" Green

50333 | 32" Orange

50331 | 36" Green

50334 | 36" Orange

50332 | 40" Green

50335 | 40" Orange

- Fits waist sizes from 32" to 46"
- UL classified to NFPA 1977
- ASTM F 1897-08 US Forestry Specification 6170-4G

**REGULAR**



**LARGE**



**TRAINING**



# INNOTEX® TURNOUTS

INNOTEX® TURNOUT GEAR is based on 4 defining principles: protection without compromise, unmatched comfort, increased durability, and efficient design. With high quality craftsmanship and exceptional attention to detail, we have created a turnout with increased durability, which in turn helps to extend the life of the turnout and allows fire departments to save considerably and increase firefighter safety.

Our commitment to protecting firefighters through innovation has led our turnout gear to be chosen by several hundred fire departments, including some of the largest North American fire departments, the military, as well as major fire departments abroad.



## INNOTEX CLASSIC™

Based on tradition. Guided by innovation. Made to fit all body types, the INNOTEX® CLASSIC™ is designed to give you better range of motion than most turnouts.

### FEATURES



#### COAT LENGTH

Available in 32" or 35".



#### TRIM TYPES

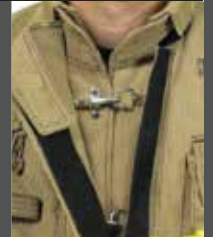
3M™ Scotchlite™ Triple Trim or Segmented Trim.



### CLOSURE SYSTEMS



ZIPPER W/HOOK & LOOP



HOOK & DE W/HOOK & LOOP



#### BR-1™ COLLAR

4-layer design, in 3" and 4". Zero snaps, zippers or hook and loops inside jacket.



#### PANT KNEES

Available with Regular or Enhanced Mobility Knees™.



#### RETRACTABLE ACTION BACK™

Provides extended reach.



#### UNDERARM GUSSET

Gusset on all layers for increased range of motion.



#### SNAP-IN COAT LINER ATTACHMENT

Minimum of 19 snaps holding liner assembly to outer shell.



#### SNAP-IN PANT LINER ATTACHMENT

Minimum of 15 snaps holding liner assembly to outer shell.

The **INNOTEX® ENERGY™** is based on efficient design, allowing firefighters to achieve their maximum productivity with minimum waste of effort.



Optimized outer shell & thermal barrier properties. Increased THL in high-perspiration zones.



**VARIABLE HEIGHT COLLAR**

All-around protection; 4" back transitioning to 3" front.



**NO-BULK™ FRONT CLOSURE**

Closure is made of a 3 layer storm flap construction.



**COMPACT CHICAGO CLOSURE**

The narrower hook and dee reduce the excess overlap of fabric.



**UTILITY GLOVE STRAP**

Integrated safety release system.



**SEGMENTED TRIM**

Lightweight & flexible, the Scotchlite™ segmented trim

**INNOTEX® ENERGY™ PANT** "Full Motion" Leg Design For unrestricted range of motion. Customizable to your needs including some of the features shown below.



**NO-BULK™ FRONT CLOSURE**

Comprised of a robust Vislon® zipper which acts as the primary closure.



**DURAHEM™ LEG HEM**

Rounded hem edge made of polymer coated aramid lessens wear and tear.



**NO-GAP™ LINER ATTACHMENT**

Utilizes acontinuous Vislon® zipper for uninterrupted protection.



**LARGE POCKETS**

10" x 10" full bellow pockets for equipped with padded, easy-to-grip pull-tab pocket flaps.



**ENHANCED MOBILITY KNEE™ (EMK™)**

Minimizes climbing effort and knee displacement or rise during motion.



# RAPID DELIVERY GEAR



## RAPID DELIVERY GEAR - RDG20

Based on the Innotex® Classic™ cut, the Innotex® RDG20 model has the best price-quality ratio.



### COMPOSITION

**OUTER SHELL**  
Pioneer™ Khaki



**MOISTURE BARRIER**  
Stedair® 3000



**THERMAL BARRIER**  
Defender® M NP Brass



## RDG20 COATS

- 32" style coat
- Brass zipper closure
- 3" BR-1 Collar - 4 layers
- Flashlight Holder on right chest
- Radio Pocket 8" x 4" x 2" and Mic Loop on left chest
- 8" x 10" Semi Bellow Pockets
- NPA style Scotchlite® 3" segmented triple trim (lime/yellow with silver center)
- White Nomex® Wristlet with thumb hole
- Snap-in liner

## RDG20 PANTS

- Regular waist pants with Hook & Dee closure
- Two adjustment straps with thermoplastic buckles
- 10" x 10" Semi Bellow pockets
- Regular knees reinforced with gray Polymer Coated Aramid
- Extra padding in the knee (14 oz. Nomex® felt)
- NFPA style Scotchlite® 3" segmented triple trim (lime/yellow with silver center)
- Snap-in liner
- H-style suspenders with neoprene padding

## RAPID DELIVERY GEAR - RDG40

For greater performance and design efficiency, the Innotex® RDG40, based on the Innotex® Energy™ cut, is preconfigured with a longer coat back and built-in freedom of motion.



### COMPOSITION

**OUTER SHELL**  
Pioneer™ Gold



**MOISTURE BARRIER**  
RT 7100 - Type 3D



**THERMAL BARRIER**  
Defender® M NP Brass



## RDG40 COATS

- 32" style coat with Vision® zipper closure
- Variable Height Collar
- Retractable Action Back
- Flashlight Holder on right chest
- Radio Pocket 8" x 4" x 2" & Mic Loop on left chest
- 8" x 9" Semi Bellow Pockets with easy grip grabbers
- NFPA Scotchlite® style 3" segmented triple trim (lime/yellow with silver center)
- White Nomex® Wristlet with thumb hole
- Zip-in liner

## RDG40 PANTS

- Regular waist pants with Vision® zipper closure
- Nomex® belt with belt loops
- Two Semi bellow 10" x 10" pockets with grabbers
- Enhanced Mobility Knee (EMK™)
- Extra padding in the knee (14 oz. Nomex® felt)
- NFPA style Scotchlite® 3" segmented triple trim (lime/yellow with silver center)
- Zip-in liner
- H-style suspenders with neoprene padding

CALL FOR PRICING AT 1-800-654-7049 OR VISIT OUR WEBSITE AT [CASCADEFIRE.COM](http://CASCADEFIRE.COM) FOR A QUOTE!



## RAPID DELIVERY GEAR - RDG50

Innotex® RDG50 is a deluxe rapid delivery gear for high performance equipped with the most recent innovations inspired by the coveted Innotex® Energy™ model. Preformed multi-panel legs and Enhanced Mobility Knee improve range of motion.

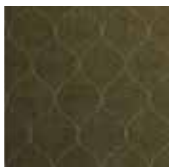


### COMPOSITION

**OUTER SHELL**  
Armor AP Black



**MOISTURE BARRIER**  
CROSSTECH  
Black-Type 2F



**THERMAL BARRIER**  
Prism 2-layer



## RDG50 COATS

- 32" style coat
- Vision® zipper closure
- Variable Height Collar - 4" back transitioning to 3" front
- Retractable Action Back
- Flashlight Holder on right chest
- Radio Pocket 8" x 4" x 2" and Mic Loop on left chest
- 8" x 9" Semi Bellow Pockets with grabbers for easier grip
- NYC style 3" segmented triple trim (lime/yellow with silver center)
- Black Nomex® Wristlet with thumb hole
- Zip-in liner

## RDG50 PANTS

- Regular waist pants
- Vision® zipper closure
- Kevlar® belt with belt loops
- Two (2) full bellow 10" x 10" pockets with grabbers
- Enhanced Mobility Knee (EMK) reinforced with black polymer coated Aramid
- Extra padding in the knee (14 oz. Nomex felt)
- Preformed multi-panel legs
- NYC style 3" segmented triple trim (lime/yellow with silver center)
- Ara-Shield reinforcement on knees and cuffs (black)
- Zip-in liner
- H-style suspenders with neoprene padding

## RAPID DELIVERY GEAR - RDG60

Shorter front, longer back coat. Low-rise pant. Streamline, dual-color design packed with a host of innovative, ergonomic features.

## RDG60 COATS

- Variable Height Collar™
- No-Gap™ throat flap
- Ergonomic full motion Noseam™ shoulder
- Retractable Action Back
- Right chest flashlight holder - Clip with Hook & Loop fastener
- Left chest 8" X 4" X 2" radio pocket with mic loop
- 7.5" X 8" inside left pocket with 1" X 3" Hook & Loop attachment
- 8" x 9" Semi Bellow Pockets
- NPA style Scotchlite® 3" segmented triple trim (lime/yellow with silver center)
- Black Nomex® Wristlet with thumb hole
- Durahem™ sleeve & leg hems
- Angled cuff sleeve hem
- Reflective piping seams



### COMPOSITION

**OUTER SHELL**  
PBI Max™ 7.0 Dual color:  
Gold and Black



**MOISTURE BARRIER**  
Stedair® Gold



**THERMAL BARRIER**  
Glide Ice 2-Layer

## RDG60 PANTS

- No-Bulk™ pant closure
- Adjustable 2 inch Nomex belt
- 10" x 10" Bellow pockets
- Easy-to-grip padded pull tabs on pockets
- Complete motion crotch
- Enhanced Mobility Knee (EMK™)
- NFPA style Scotchlite® 3" segmented triple trim (lime/yellow with silver center)
- Deluxe heavy-duty removable cotton "H" back suspenders with padding

# FIREFIGHTER BOOTS



## FIRE EAGLE AIR

Lighter in weight and slimmer in design, with an athletic fit and feel.



## FIRE HUNTER XTREME

The service boot with the comfort of a lace boot.



## FIRE HUNTER USA

Easy on your budget for transition from rubber to leather.

### TYPE: STRUCTURE

CERTIFICATIONS: NFPA 1971-2013, NFPA 1992-2012, ASTM F 2413-2011, CAN/CSA-Z195-2014

MATERIAL: SUN REFLECT WATERPROOF LEATHER

INNER LINER: CROSSTECH®

LEG HEIGHT: 14 INCHES

SIZES: N, M, W; MEN: 5-16 & HALF SIZES  
WOMEN: 5-12 & HALF SIZES

- Highly slip resistant and superior traction sole
- Built in boot jack
- HAIX® Ankle Flex System
- HAIX® Climate System
- Secura Liner®
- Anatomically formed, padded composite protective toe cap
- HAIX® Ankle Flex System
- Lightweight PU shock absorption
- Flame-resistant outer sole
- HAIX® Arch Support System
- HAIX® Vario Wide Fit System

50213 | HAIX® Fire Eagle Air

### TYPE: STRUCTURE

CERTIFICATIONS: NFPA 1971-2013, NFPA 1992-2012, ASTM F 2413-2011, CAN/CSA-Z195-2014

MATERIAL: SUN REFLECT WATERPROOF LEATHER

INNER LINER: CROSSTECH®

LEG HEIGHT: 14 INCHES

SIZES: N, M, W; MEN: 5-16 & HALF SIZES  
WOMEN: 5-12 & HALF SIZES

- Secura Liner®
- HAIX® MSL System
- HAIX® Climate System
- HAIX® Ankle Flex System
- Steel protective toe cap
- Exterior profiled rubber toe cap
- Steel puncture protective, slip resistant, heat resistant sole
- Ladder shank for extra support
- Padded shin protection

50201 | HAIX® Fire Hunter Xtreme

### TYPE: STRUCTURE

CERTIFICATIONS: NFPA 1971-2013, NFPA 1992-2012, ASTM F 2413-2011, CAN/CSA-Z195-2014

MATERIAL: SUN REFLECT WATERPROOF LEATHER

INNER LINER: CROSSTECH®

LEG HEIGHT: 14 INCHES

SIZES: N, M, W; MEN: 5-16 & HALF SIZES  
WOMEN: 5-12 & HALF SIZES

- Secura Liner®
- HAIX® MSL System
- HAIX® Climate System
- Steel protective toe cap
- Exterior profiled rubber toe cap
- Steel puncture protective, slip resistant, heat resistant sole
- Larger boot straps below the topline
- Ladder shank for extra support
- Padded shin protection

50212 | HAIX® Fire Hunter USA

## INNOVATIVE FEATURES OF HAIX BOOTS

- HAIX® Climate System keeps your feet temperature regulated and more comfortable
- Secura Liner® will never wrinkle up or pull out over time
- CROSSTECH® inner liner, waterproof, breathable, bacteria, chemical, and bloodborne pathogen resistant
- HAIX® Sun Reflect leather helps keep feet cooler in direct sunlight
- HAIX® MSL System (Micro Soft Light) PU foam injected throughout the sole for greater shock absorption and insulation
- HAIX® Ankle Flex System stabilizes the foot with a flexible insert in the shaft/instep area to fit like a lace up boot
- HAIX® Arch Support System supports your foot in its natural, ideal position
- HAIX® ES Out System offers a special heel edge for easier boot removal



One of the most important investments a firefighter can make is in his boots, because pain and discomfort in your feet can distract you from the firefight. HAIX® firefighting boots have all been tested and approved as NFPA certified. HAIX® fire boots are made to perform well when you most need it while protecting you from the elements.



## FIRE HERO XTREME

The most popular HAIX boot for protection and support.



## AIRPOWER XR1

State of the art dual purpose boot.



## MISSOULA 2.1

Hiker boots for Wildland Firefighting.

**TYPE: STRUCTURE**  
**CERTIFICATIONS:** NFPA 1971-2013, NFPA 1992-2012, CAN/CSA Z 195-2014, ASTM F 2413-2011  
**MATERIAL:** SUN REFLECT WATERPROOF LEATHER  
**INNER LINER:** CROSSTECH®  
**LEG HEIGHT:** 13 INCHES  
**SIZES:** N, M, W; MEN: 5-16 & HALF SIZES  
 WOMEN: 5-12 & HALF SIZES

- Secura Liner®
- HAIX® MSL System
- HAIX® Climate System
- HAIX® Ankle Flex System
- Carbon protective toe cap
- Exterior profiled rubber toe cap
- Steel puncture protective sole
- Ladder shank for extra support
- HAIX® ES Out System
- Padded shin protection
- Slip-resistant and highly heat resistant water ice grip rubber sole

50202 | Fire Hero Extreme

**TYPE: WILDLAND, STATION, EMS**  
**CERTIFICATIONS:** NFPA 1977-2011, NFPA 1999-2013, ASTM F 2413-2011, CAN/CSA-Z195-2014  
**MATERIAL:** SUN REFLECT WATERPROOF LEATHER  
**INNER LINER:** CROSSTECH®  
**LEG HEIGHT:** 9 INCHES  
**SIZES:** M, W, XW; MEN: 4.5-15 & HALF SIZES;  
 WOMEN: 5-10 & HALF SIZES

- HAIX® 2-Zone Lacing
- Secura Liner®
- HAIX® Arch Support System
- HAIX® Climate System
- HAIX® Lacing System
- Carbon protective toe cap
- Puncture protection sole
- Heat resistant rubber sole
- TEXON fleece footbed
- Anatomically formed, washable, replaceable insole
- ASTM certified for electrical hazard resistance (EH rated)

50205 | HAIX® XR1 Boot

**TYPE: WILDLAND FIREFIGHTING**  
**CERTIFICATIONS:** NFPA 1977-2016, ASTM F2892-2018  
**MATERIAL:** HYDROPHOBIC SPLIT LEATHER  
**INNER LINER:** TEXTILE  
**LEG HEIGHT:** 10 INCHES  
**SIZES:** M, W, XW; MEN: 4-13 & HALF SIZES;  
 WOMEN: 5-10 & HALF SIZES

- Secura Liner®
- HAIX® Climate System
- HAIX® 2-Zone Lacing
- HAIX® ES Out System
- Rugged Vibram® heat-resistant sole
- Water-resistant, breathable leather
- Nomex® threads and laces



50203 | HAIX® Missoula 2.1



## RUBBER FIREFIGHTER BOOT

The Black Diamond's Comfort Fit Form has been designed for maximum comfort and accurate fit, with an Enersole System including a high density polyurethane midsole that absorbs energy, and an Ortholite® breathable polyurethane foot-bed that provides all-day comfort.



60200 | Rubber Firefighter Boot

**TYPE: STRUCTURE**  
**CERTIFICATIONS:** NFPA 1971-2018, NFPA 1992-2018: LIQUID SPLASH 3, CSA-Z195-92: PROTECTIVE FOOTWEAR  
**MATERIAL:** MOLDED RUBBER  
**INNER LINER:** KEVLAR®/NOMEX® WITH 1.2MM COATING  
**LEG HEIGHT:** 16 INCHES  
**SIZES:** N, M, W; MEN: 5-16 & HALF SIZES  
 WOMEN: 5-12 & HALF SIZES

# STRUCTURE HOODS

## INNOTEX® GRAY 25 HOODS

INNOTEX® GRAY™ Hoods shield the vulnerable area between helmet & coat using an air permeable, carcinogenic particulate blocking layer, and a smooth, cooling inner FR viscose multi-filament liner.

Full drape coverage around the shoulders and 100% protection coverage throughout the hoods, with a flatlock stitch for maximum comfort with heavy 1/2" elastic that prevents stretching out.

The INNOTEX® GRAY™ Hoods use a 3 layer approach. The two inner layers are laminated together to increase comfort and reduce bulk. The Particulate Blocking Layer uses a proprietary version of Stedair® PREVENT, which blocks carcinogenic particulates 0.1 µm to 1.0 µm (microns) by greater than 99%. (NFPA 1971: 2018 Edition requirement is a minimum of 90%).

The INNOTEX® GRAY™ Hood 25 has a THL of 427 and a TPP of 22.6. The NFPA 1971: 2018 Edition THL requirement is a minimum of 325 and the TPP requirement is a minimum of 20. Available with an outer layer of Gray 20%/80% Nomex/Lenzing blend, or with an outer layer of Gold 20%/80% PBI/Lenzing blend.



50157	Innotex® Gray 25 Hoods M/L
50158	Innotex® Gray 25 Hoods XL



## VIPER HOODS

Veridian VIPER HOODS meet or exceed the NFPA 1971-2013 edition for structural firefighting and are compatible with breathing apparatus. 2-ply throughout and sewn with Nomex® thread in a flatlock safety stitch for Increased durability and comfort. Tagless design has imprinted warning label replacing a sewn-in tag.

VIPER HOODS	
50151	Short Nomex/Lenzing
50152	Long Nomex/Lenzing
50152B	Long Nomex/Lenzing Black
50154	Long PBI



## CARBON HOODS

CARBON HOODS are NFPA Compliant/UL Certified to the latest edition/revision Manufactured with proven flame resistant materials and preshrunk to minimize shrinkage. Elastic face opening provides a snug fit around your face or SCBA mask.

- PAC I style: one piece construction with added shoulder inserts for extra shoulder protection
- PAC II style: notched shoulder for proper drapage and added protection across the chest area

CARBON HOODS	
50155	CarbonKnight PAC I
50156	CarbonKnight PAC II



# STRUCTURE GLOVES

## DEX-PRO

The DEX-PRO Glove is a 3D design that incorporates innovative design features together with specific materials to form a glove that delivers maximum dexterity, extreme durability and superior protection. Cowhide provides the best balance of durability, dexterity, abrasion resistance and comfort, and goatskin is highly flexible and water resistant. Certified NFPA 1971. Glove Sizes XS-XXL.

- 3 oz. top grain cowhide
- Sewn with Tex-80 Kevlar® thread and Tex-80 Nomex® thread
- Military-grade DuPont™ Nomex® thermal liner is permanently bonded with 9 separate attachment points
- Reinforced cowhide knuckle guard
- Keystone thumb design allows a full 360 degree range of motion
- 3 oz. reverse grain split cowhide palm and palm guard
- Rollover seamless fingertips
- 2 oz. goatskin forchettes
- 3-D Dex-Flex pre-bent fingers



50240 | Dex-Pro Gloves

## FIRE PRO II

FIRE PRO II gauntlet style structural firefighting gloves are flame and heat resistant cowhide suede leather that extends the full-length of the glove for complete heat protection. Moisture barrier is 100% waterproof, viral/chemical penetration resistant and protects against blood borne pathogens. UL certified to meet or exceed current edition of NFPA 1971 Standard. Glove Sizes XS-XXL.

- Full sock FR Modacrylic liner
- 2 inch all leather cuff sewn at top of glove
- 3 mil Pyroprotect breathable moisture barrier
- Made in the USA from all USA manufactured material



50241 | Fire Pro II Gloves

## EXTRICATION GLOVES HexArmor ELITE SuperFabric

HexArmor Elite® products, made with SuperFabric® brand materials, offer industry leading cut-resistance, exceeding both ISEA/ANSI F1790 and CE/EN388 Level 5 cut-resistance. Performance is enhanced through the configuration of tiny guard plates which provide resistance to lacerations and slashes like no other material on the market. Exterior and interior seams implement a double-stitched core-spun thread. Pre-curved design, double-stitched side seams, and durable TP-X® palm and fingertip reinforcement. All gloves are machine washable. Sizes XXS-3XL.



- Full Impact Exoskeleton™
- IR-X® smash guards
- Airprene™ Velcro® cuff

24432 | 4013 EXT Gloves

- Superior back-of-hand impact protection system
- Elastic Velcro® wrist closure

24431 | 4012 EXT Gloves

- Superior back-of-hand impact protection system
- SlipFit® and anti-debris cuff

24430 | 4011 EXT Gloves



## RINGER 536 HARD KNUCKLE TACTICAL GLOVE

The RINGERS 536 HARD KNUCKLE TACTICAL GLOVE includes a goatskin leather palm and FR Nomex® materials for flame resistance. Glove sizes 8 (S), 9(M), 10(L), 11(XL), and 12(2XL).

- Developed with Ringers' F3 Technology™ for superior dexterity and comfort.
- Includes PVC palm patch and touchscreen compatible middle fingertip.
- Secure cuff closure and custom designed index finger for enhanced tactile feel.



50216 | Ringer Tactical Glove

# CAIRNS® HELMETS



660C Metro with Defender



Invader 664 with Defender



360S with Goggles



HP3 with Goggles

## 660C METRO & INVADER 664

The most popular modern helmet models for structural and proximity firefighting with a sleek, low-profile design.

- Impact/Thermal Cap
- Through-color Fiberglass Composite Shell
- Shell Release System
- Accommodates hat sizes 6 $\frac{3}{8}$  - 8 $\frac{3}{8}$

Cairns® Shell Release System (SRS) is available on 1010, 1044, 660C and 664. Retain your impact cap, suspension system and earlaps if your helmet shell is torn away during a fall or structural collapse.

## STRUCTURAL 360S

Light-weight, low profile design.

- Impact/Thermal Cap
- Thermoplastic Shell
- Accommodates hat sizes 6 $\frac{3}{8}$  - 7 $\frac{3}{4}$



## COMMANDO HP3

The lightest fiberglass helmet has a sleek, low profile design and a painted high-luster finish.

- Impact/Thermal Cap
- Through-color Fiberglass Composite Shell
- Accommodates hat sizes 6 $\frac{3}{8}$  - 8 $\frac{3}{8}$

THROUGH-COLOR FIBERGLASS COMPOSITE AND THERMOPLASTIC SHELLS MAINTAIN COLOR EVEN AFTER TAKING A BEATING ON THE FIREGROUND

NOMEX CHINSTRAP ENHANCES SAFETY, PERFORMANCE AND FIT WITH QUICK-RELEASE BUCKLE, POSTMAN'S SLIDE, AND VELCRO STOWAGE SYSTEM





1044 with Faceshield



1044 with Defender Visor



1010 with Goggles



880 with Goggles

## CAIRNS® 1044 & 1010

The most popular Cairns® fire helmet models for structural and proximity firefighting offer the most comprehensive impact and thermal head protection.

- Impact/Thermal Cap
- Through-color Fiberglass Composite Shell
- Shell Release System
- Crumple-Zone Front Holder
- Accommodates hat sizes 6 $\frac{1}{8}$  - 8 $\frac{1}{4}$

### ADDITIONAL FEATURES OF ALL CAIRNS® HELMETS

- Adjustable Nape & Headband height
- D-ring Helmet Hanger
- NFPA 1971-2013
- 10-year Warranty

## CAIRNS® 880

The lightest, lowest profile traditional helmet accommodates the smallest head sizes of any Cairns® helmet.

- Impact/Thermal Cap
- Through-color Thermoplastic Shell
- Tube Lock System
- Crumple-Zone Front Holder
- Accommodates hat sizes 5 $\frac{5}{8}$  - 7 $\frac{5}{8}$



## CAIRNS® HELMETS REPLACEMENT PARTS

FOR HELMETS 360, 660, 1044, & 664

FACE/EYE PROTECTION	
54400	4" Faceshield
54423	Bourke and Hardware

IMPACT/THERMAL CAP PROVIDES SUPERIOR THERMAL AND IMPACT PROTECTION THROUGH AN IMPACT-RESISTANT POLYMER LINER COVERED BY A HIGH-TEMPERATURE, ENERGY-ABSORBING URETHANE FOAM

CRUMPLE-ZONE FRONT HOLDER ABSORBS IMPACT FORCES TO HELP PROTECT YOUR HEAD, NECK AND SPINE FROM INJURY

WHEN ORDERING PARTS, SPECIFY MODEL OF HELMET.  
CALL US AT 1-800-654-7049 FOR A COMPLETE CATALOG AND PRICING INFORMATION.



## STANDARD HELMET FRONTS

The choice is yours! Standard fronts offer over 27 million possible configurations. To build a MSA leather helmet front go to:

[www.msanet.com/fronfs/](http://www.msanet.com/fronfs/)

**A - TOP LAYER:** High-gloss patent leather or low-gloss 100% natural leather in your choice of 9 colors.

**B - PRINT LAYER:** Available in 9 colors of high-temp nylon.

**C - LETTERING:** ½" tall, maximum of 4 lines with up to 14 characters per line. Available in 9 colors.

**D - GRAPHICS:** Choose from Attached, Printed, or No Graphics.



## CRESCENTS - ROUNDS - TILES

Decals are usually attached to the sides of fire helmets. Decals are reflective with a self-adhesive backing. Many size, style, and color options available.

Crescents are printed in one color (black, red, or blue) on a white reflective material. Available in most standard titles. Custom titles are available for orders of ten or more. Decals are 6¾" across with letters 1¼" high.

50126 | Crescents



## STAR OF LIFE

These die-cut decals are printed in blue, on white reflective material. They have a pressure sensitive adhesive back. Standard sizes are 2", 3", and 4". Special sizes up to 32" are available.



50120 | 2" Star of Life

50121 | 3" Star of Life

50122 | 4" Star of Life



SILKSCREEN EAGLE  
FRONT HOLDER



SILKSCREEN  
MALTESE CROSS



# STRUCTURE GOGGLES

## CAIRNS® ESS FIREFIGHTER GOGGLES



The Innerzone™ structural goggles can be worn alone, on a helmet, or in conjunction with faceshields or flip-downs. The Innerzone™ series is compliant with NFPA 1971-2013, with all ESS goggle components flame & heat resistant. Anatomical fit with a roomy frame that fits over most prescription eyewear.

**FOG & SCRATCH RESISTANT:** Advanced ESS ClearZone FlowCoat lenses eliminate fog inside and prevent scratches outside

**FILTERS & VENTS:** Full perimeter ventilation & filtration system minimizes lens fogging & filters smoke & airborne particles

**EASY STRAP ADJUSTMENT:** Patented Speed-Clip™ System facilitates quick strap adjustment, even with gloves on

<b>IMPACT RESISTANCE:</b> Interchangeable 2.6mm high-impact Polycarbonate lenses	<b>50428</b> ESS InnerZone 1 Goggle
	<b>50432</b> ESS InnerZone 2 Goggle
	<b>50434</b> ESS InnerZone 3 Goggle
<b>ENHANCED VISION:</b> Distortion-free optical clarity & 100% UVA/UVB protection	<b>50435</b> ESS Cairns® Goggle System
	<b>50431</b> NFPA Goggle Replacement Lens
	<b>50436</b> Nomex Heat Sleeve

### INNERZONE 1

Thumb-Screw mounting brackets



### INNERZONE 2

Snap-On/Snap-Off mounting brackets



### INNERZONE 3

Wrap-around strap secures to the helmet with two Velcro tabs



### ESS GOGGLE SYSTEM

Wrap-around strap attaches to the back of the helmet with a D-Ring fastener



### NOMEX® HEATSLEEVE™

Stow goggles on a helmet when not in use with the ESS Nomex HeatSleeve™. Protects goggles from the elements, keeping them clean, scratch free, and buffered from heat in structural fires. Meets NFPA 1971 compliance requirements for accessories.



# GEAR KEEPER

## RETRACTABLE FIRE MIC KEEPER

Mic attaches securely to Mic Keeper with bungee Mic adapter and attaches to turnout coat with stainless steel threaded pin.



- Nylon coated stainless steel cable
- Stainless steel spring & hardware
- 60 lbs. breaking strength
- 400 degree F, V-2 flame rating
- Nylon/elastic Mic lanyard



45052 | Mic Keeper

## RIGHT ANGLE FLASHLIGHT RETRACTOR

Mounts to turnout coat with threaded stud. Simply extend the tether for easy use and eliminate the risk of loss or the need to re-clip flashlight. Ideal when using your flashlight and you need to let go to use both hands! For lights up to 4AA.

- Stretch cord stabilizer
- Nylon coated stainless steel cable
- Stainless steel spring & hardware
- 60 lbs. breaking strength
- 400 degree F, V-2 flame rating
- 20 inch extension
- Includes lanyard



45053 | Flashlight Retractor

# STATION WEAR

Those who lay their lives on the line deserve a uniform dedicated to the same end: protection without compromise. One that offers an added layer of NFPA 1975-compliant flame-resistant protection with the latest contemporary designs. One that uses real-world insights in every fit, feature, fabric, and function. One that goes beyond providing comfort to ensuring confidence. We are Workrite® Fire Service, the recognized leader in FR station wear. Now, powered by Bulwark® Protection, Workrite® Fire Service offers over 300 years of combined experience in FR. The next generation of flame resistant protection in station wear starts now.

**WORKRITE STATION WEAR SHIRTS** are made with durable, flame-resistant Nomex® IIIA fabric and autoclaved with our proprietary PerfectPress® process to give you a professional appearance that lasts. Lined, banded collars. Double-needle stitching reinforces front placket. Pencil stall on left chest pocket. Five sewn-in military creases (2 in front, 3 in back). False button-front with hidden snap closure for easy on/off.

**FABRIC:** Flame-resistant, 4.5 oz. Nomex® IIIA, 93% Nomex® Aramid / 5% Kevlar® Aramid / 2% Other Fiber



## CLASSIC FIRE CHIEF SHIRTS

- Decorative epaulets
- Badge tab with metal eyelets
- Spade chest pockets with hook-and-loop pocket closure

SHORT SLEEVE - FSC2 (700NX-45)

SIZES: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Black (BK), Light Blue (LB), Midnight Navy (MN), Navy (NV)

LONG SLEEVE - FSF0 (705NX-45)

SIZES: Short: 34\*-66\*, Regular & Long: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Light Blue, Midnight Navy, Navy



## CLASSIC FIRE OFFICER SHIRTS

- Decorative epaulets
- Badge tab with metal eyelets
- Pleated spade pockets with scalloped flaps and hook-and-loop pocket closures

SHORT SLEEVE - FSE2 (720NX-45)

SIZES: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Midnight Navy (MN), Navy (NV)

LONG SLEEVE - FSE0 (725NX-45)

SIZES: Short: 34\*-66\*, Regular & Long: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Midnight Navy, Navy



## CLASSIC FIREFIGHTERS SHIRTS

- No epaulets
- Badge tab with metal eyelets
- Spade pockets and flaps with hook-and-loop pocket closures

SHORT SLEEVE - FSF2 (730NX-45)

SIZES: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Black (BK), Midnight Navy (MN), Navy (NV)

LONG SLEEVE - FSF0 (735NX-45)

SIZES: Short: 34\*-66\*, Regular & Long: 34\*-36\*, 38-50, 52\*-66\*

COLORS: Black, Midnight Navy, Navy



### WESTERN FIREFIGHTER SHIRTS

The classic Firefighter shirt with a Western-style back yoke.

SHORT SLEEVE - FSF6 (740NX-45)

LONG SLEEVE - FSF4 (745NX-45)



**\*SIZE SUBJECT TO 25% SURCHARGE**



## STATION WEAR COLORS



**BK**  
Black



**LB**  
Light Blue



**N**  
Navy



**MN**  
Midnight Navy

## DELIVERY

- **STOCK:** Ship within 10 working days or less
- **NON-STOCK:** Cut-to-Order, not returnable, ship within 35 working days or less

THE FIREFIGHTER PANT, the workhorse of Workrite's pant line, is available in both regular and full cuts. Sewn-in quality and tasteful styling including Workrite's Perfect Press™ autoclave process for everlasting permanent creases wash after wash. Made from 7.5 oz Nomex® IIIA with triple-stitched, feld-locked outer seams and seat seam. All other seams and zipper area are double-stitched and the women's style has lock-stitched dart to help accommodate women's waist sizes. Full cut pant features a looser fit through thighs and seat for added comfort. Available in Women's.



## CLASSIC FIREFIGHTER PANT

- One piece fully finished waistband
- Two slack-style front pockets.
- Two rear welt pockets (left pocket has button tab closure)
- Metal shank button closure
- Diamond crotch gusset
- Heavy-duty brass zipper

FP50 (400NX-75)

FULL CUT - FP52 (402NX-75)

**SIZES:** Waist 28-34, Inseam to 34", Waist 35-42, Inseam to 36", Waist 44\*-60\*, Inseam to 36", No odd waist sizes after 35

**FABRIC:** Flame-resistant, 7.5 oz. Nomex® IIIA, 93% Nomex® Aramid / 5% Kevlar® Aramid / 2% Other Fiber

**COLORS:** Black, Midnight Navy, Navy

\*SIZE SUBJECT TO 25% SURCHARGE

FOR MORE INFORMATION AND PRICING,  
PLEASE CONTACT US:  
1-800-654-7049  
SALES@CASCADEFIRE.COM



# Dräger SCBA AUTHORIZED SERVICE & REPAIR

Cascade Fire Equipment specializes in the service and maintenance of SCBA's. In our 37 years of business, we have assisted thousands of fire departments with their SCBA service needs. As a Dräger authorized distributor, we maintain the largest SCBA service facility on the west coast and employ several factory certified technicians. In addition to our service center, Cascade maintains a mobile service fleet that can provide on-site service for your department. When using Cascade Fire Equipment for your SCBA service, you can rest assured that we have you covered.

## CASCADE FIRE EQUIPMENT SERVICES

- **ON-SITE SCBA FLOW TESTING** – We come to you and perform your SCBA's annual flow test as required by OSHA. A multi-point inspection is performed by one of our factory certified technicians to ensure proper function of all components. Your flow test records are kept on our database and copies of any records can be provided at any time.
- **SCBA REPAIR** – Our service center is stocked with parts and several factory trained Dräger technicians are available to make any warranty or non warranty repairs needed. We are also available to assist you in troubleshooting any issues with your SCBA.
- **SCBA FACEPIECE FIT TESTING** – Facepiece fit testing is offered both on-site and through our rental program. A day can be scheduled with one of our sales representatives or service technicians to perform a quantitative fit test for your department. If your situation requires several days to accomplish a complete fit test, we offer weekly rentals of our fit test equipment.
- **COMPRESSOR SERVICE** – We offer several different levels of air compressory service, including quarterly air samples, routine service (oil, filters, etc.), and repairs.
- **GAS DETECTION SERVICE** – Our mobile service offers departments calibration service for your gas detection equipment. This is a great way to save on costly equipment that you only need a couple times a year. Let us take that cost and worry out of your hands.

## RESPIRATORY PROTECTION

### DRÄGER PSS® 7000 SCBA SELF-CONTAINED BREATHING APPARATUS

The self-contained breathing apparatus, or SCBA, is the foundational tool that provides the greatest amount of airway protection from toxic gas and harmful particulates resulting from a fire. It's essential for modern firefighting.

The DRÄGER SCBA provides the most robust breathing protection combined with unparalleled ergonomic comfort.

Dräger proudly offers the latest SCBA with extensive updates that earned the 2018/2019 Edition of NFPA certifications.



**CERTIFIED TO NFPA 1981 & 1982, 2018/2019 EDITION**

### DRÄGER PSS® 5000 CARRYING SYSTEM

The DRÄGER PSS 5000 carrying system provides many of the advantages of the PSS 7000 at a lower cost. Still ergonomic and comfortable, the waist belt is stable, allowing the wearer to twist and turn with ease.

Available in one size, the PSS 5000 fits most. Made of flame-resistant, rubberized materials, the straps and belt are easy to clean on the fire ground. In less than 60 seconds, the entire unit can be disassembled (and reassembled) without the need to use any tools, which enables detailed disinfecting at the station. The back frame houses all the upgraded pneumatics and protects hoses from potential snags.



# DRÄGER PSS® 7000 CARRYING SYSTEM

The DRÄGER PSS 7000 carrying system makes the use of this vital equipment easier on the wearer with ergonomic comfort that includes height-adjustment, pivoting at the waist, and more easy adjustments for every size or shape of firefighter. The supportive waist belt includes a floating action to keep the SCBA at a lower center of gravity as the firefighter moves, twists, reaches, and other actions, meaning less stress on the wearer.

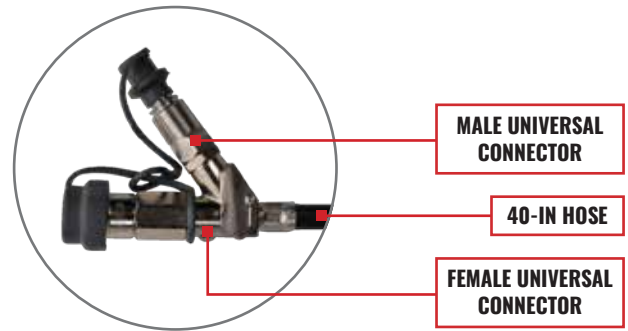
Made of flame-resistant, rubberized materials, the straps and belt are easy to clean on the fire ground. In less than 60 seconds, the entire unit can be disassembled (and reassembled) without the need to use any tools, which enables detailed disinfecting at the station. The back frame houses all the upgraded pneumatics and protects hoses from potential snags.



# BUDDY BREATHER UNIVERSAL EMERGENCY BREATHING SUPPLY SYSTEM (UEBSS)

The Universal Emergency BREATHING SUPPLY SYSTEM (UEBSS), also known as a Buddy Breather, enables two firefighters to share a single source of air. An option that can be added to any SCBA unit, the pouch containing 40 inches of hose along with a universal male and female connector is located on the waist belt.

The 2018/2019 Edition of the NFPA standards require that all SCBAs use the same type of connectors, so universal aid is available, no matter the manufacturer of the SCBA.



# DRÄGER FPS® 7000 FULL-FACE MASK

Designed to offer optimal visibility, the DRÄGER FPS 7000 full-face mask sets new standards with 180-degree, panoramic visibility with the large distortion-free polycarbonate visor using heat-resistant thermoplastic. To prevent fogging of the visor, the innovative design provides an even distribution of air across the mask. To accommodate faces of different shapes and sizes, the FPS 7000 is available in small, medium, and large.

Additionally, the inner mask that covers the nose and mouth comes in three different sizes. The mask comes in highly chemically resistant rubber with a hairnet designed to be donned and doffed quickly and easily.



**PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION**

# DRÄGER PSS® LUNG-DEMAND VALVE (LDV)

The 2018/2019 Edition of NFPA 1981 requires an update to the lung-demand valve (LDV). The new version incorporates two independent buttons on each side. The firefighter must press both large buttons at the same time to release the LDV from the Dräger FPS 7000 full-face mask. If a wearer presses one or the other button, the LDV remains locked in place.

The connection between the mask and LDV is non-indexing, meaning the LDV can be inserted at any angle. Once locked in place, the LDV and the connecting hose can be turned 360 degrees. With muscle memory, a firefighter can hit the doffing button to turn off airflow and the two buttons to remove the LDV with one gloved hand.



# DRÄGER FPS® 7000 HEAD-UP DISPLAY (HUD)

The DRÄGER FPS 7000 Head-Up Display connects wirelessly and automatically to an SCBA system without any manual action by the wearer. Red, amber, and green LED lights provide feedback just on the periphery of view and flash at regular intervals to keep the wearer updated on cylinder air pressure.

The display automatically adapts, making sure the LED lights are brighter or muted based on the ambient lightness or darkness. The HUD snaps easily into the Dräger FPS 7000 full-face mask without tools.

If required, the HUD can transfer between different face masks in a matter of seconds. With an average of 360 hours of use, the battery can be easily changed without any tools.



# DRÄGER SENTINEL® 7000 PASS AND MONITORING SYSTEM

An all-in-one distress signal unit and pressure gauge, the DRÄGER SENTINEL 7000 is an electronic unit that provides continuous monitoring of operational status of the SCBA. All information is brought together clearly and rapidly on one easy-to-read digital display. The lightweight device fits snugly in the palm of a hand, with large, easy-to-operate buttons, even when wearing gloves.

Pressure and remaining air time are permanently displayed on the Sentinel 7000; the remaining estimated air adjusts based on the wearer's current rate of consumption. When triggered, the Personal Alert Safety System (PASS) flashes lights both on the unit and on the carrying systems.

The alarm sound, certified to the 2018/2019 Edition of NFPA 1982, emits from both the Sentinel and speakers on the carrying system.



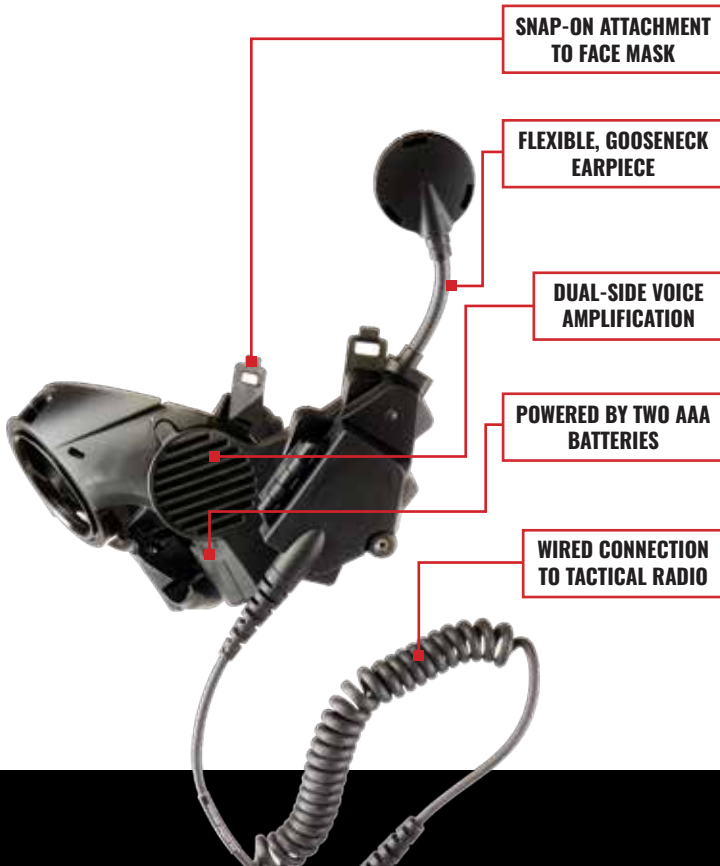
SCBA

# DRÄGER FPS®-COM 5000 FIRE GROUND COMMUNICATIONS

Designed to connect seamlessly to the Dräger FPS 7000 fullface masks, the FPS-COM 5000 ensures clear communication through either a voice amplifier or a tactical radio — even in the most extreme conditions. Digital noise-reduction technology eliminates breathing sounds, ambient noise, and acoustic feedback for crystal-clear communication.

A flexible, gooseneck earpiece adjusts easily to different sizes and shapes. Two speakers mounted on the sides of the FPS-COM 5000 point in the direction the wearer faces for more effective communication. Speakers are flush mounted to reduce snag hazard and improve balance.

The FPS-COM 5000 connects to more than 350 different radio sets via the external Dräger C-C440 push-to-talk button or the Dräger C-C550 remote speaker microphone. Using two AAA batteries, the communication unit shuts off automatically if no breathing sounds occur for 10 minutes. This increases battery life, lowers maintenance costs, and ensures that your equipment is ready for use when it's needed.



# DRÄGER FPS®-COM 7000 TEAM TALK COMMUNICATIONS

The DRÄGER FPS-COM 7000 provides standalone hands-free communication between wearers. Voice-activated, the FPS-COM 7000 provides full-duplex communication on one of ten user-selected channels. Up to 10 users per channel can be connected without using a tactical radio, which is especially ideal for special operations like hazardous materials response teams.

In a normal building with walls, the signal works ideally with wearers less than 90 feet (27.4 meters) from one another or almost 300 feet (91.4 meters) line of sight. The FPS-COM 7000 contains several configurable options using a connection with the free PC software. Digital noise-reduction automatically suppresses ambient noises and only transmits the wearer's voice. In particular, breathing noise is filtered out preventing it from being transmitted.

The large button can be used for push-to-talk with any function, including voice amp, tactical radio, or via Team Talk. The FPS-COM 7000 can automatically relay broadcasts to all the team members when only one wearer is connected to tactical radio. The FPS-COM 7000 balances perfectly on the mask, so there's no additional stress on the wearer.



# SCBA MASK BAGS

SCBA Mask Bags are an excellent investment to protect your valuable facepieces from abrasion and dirt. Cascade Fire Equipment makes 2 styles.

## SCBA MASK BAG

- Dimensions: 13"x17"
- Made from water-resistant DuPont Cordura®
- Soft inner liner
- Holds all standard SCBA Face Masks
- Can be hung by two grommets
- Full width of bottom of bag secured by self-fastening strips
- Quick opening by pulling on tabs



50011 | SCBA Mask Bag

## LOW PROFILE MASK BAG

- Dimensions: 11.75"x13.5"
- Made of lightweight nylon pack cloth
- Soft fleece inner liner
- Secured by full width hook and loop
- Opened quickly by pulling on webbing tabs
- 1" webbing loop to hang on compartment walls or hooks
- ID window to identify the owner
- Small opening to air out the bag



50000 | Low Profile SCBA Mask Bag

# RIT BAGS

## CASCADE RIT BAG

Cascade Fire Equipment's RIT BAG is a light and durable rescue bag. Specifically designed for Rapid Intervention Teams or Emergency Response Teams for supplying air to a downed victim or firefighter.

- Fits 30-, 45- or 60-minute cylinders,
- Large zippered side pocket for extra essential gear
- Includes a versatile, multi-position shoulder strap
- Glo-Flex trim, (reflects light and glows in the dark)
- High-visibility orange Cordura



50300 | Cascade RIT Bag

## DRÄGER RIT LIFEGUARD II RAPID-INTERVENTION TEAM

Dräger designed the RIT LIFEGUARD II emergency air supply based on input from the Fire Service. As a result, it ensures fast and easy air transfer to a downed firefighter or victim.

The LifeGuard II is fast and easy to deploy. An intuitive, single pull handle opens quickly, providing quick access to all components that a rapid intervention team needs to function and get air to the fallen. The high pressure transfill hose is attached to the interior of the lid, making it easy to find and quick to deploy. The medium pressure lung demand valve (LDV) is already connected to a full face piece, which has its own compartment. Interior color-coded lines make for easier identification in poorly lit conditions.



**PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION**



# CYLINDER & ACCESSORIES

## LUXFER ECLIPSE™ PRO3 CYLINDER

LUXFER ECLIPSE™ is the latest evolution in SCBA cylinders—a next-generation, lightweight design that maintains the performance and quality you expect when breathing matters most.

Given that the average professional firefighter's personal protective equipment weighs 75 lbs (34kg), every bit helps. Up to 20% lighter than competitive aluminum lined (Type 3) SCBA cylinders. Conventional carbon composite SCBA cylinders use a full fiberglass overwrap. Through its advanced, high-strength aerospace-grade carbon wrap design, Luxfer ECLIPSE eliminates the need for this layer without compromising strength, durability and safety.



SERVICE PRESSURE	LENGTH	DIAMETER	WEIGHT*	WATER VOLUME	DURATION
PSI	INCHES	INCHES	LBS.	CU IN	MIN
4500	18.4	5.4	5.9	285	30
4500	20.3	6.1	7.7	417	45
4500	21.5	6.9	10	548	60

**INFORMATION:** Specifications subject to change. \*Weight shown is maximum with one standard label. Additional custom labeling will increase weight. Please contact Luxfer Cylinders for more information.

## THE DRÄGER QUICK CONNECT

THE DRÄGER QUICK CONNECT option for SCBAs means exactly that—replacing the threaded compressed gas association (CGA) with a quicker connection. Line up the male connection on the cylinder to the female receptor on the SCBA unit, and press firmly until it snaps into place. A firefighter is ready to go. To disconnect, rotate the female connector of the SCBA unit a quarter turn and lift the cylinder. With some practice, firefighters can manage this quick change in just a few seconds.



PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION

# 12 CYLINDER STORAGE RACK

These Cylinder Storage Racks assure you stability and safe storage for SCBA Cylinders. Vastly increases storage capacity and creates additional floor space. Units are stackable two racks high, with four pre-drilled steel mounting plates (.125").

- Holds up to 12 cylinders per rack
- Holds 30-, 45-, or 60-minute cylinders
- Dimensions: 29"H x 31.75"W x 27.5"D
- Baskets constructed of 1/4" steel wire
- All joints welded and deburred
- Vinyl-coated (black)
- Quick-locking front panel



Racks can be stacked two high and secured with pre-drilled steel mounting plates.



Locking wheel kit can be purchased separately.

50401	12-Cylinder Rack
50401W	Locking Wheel Kit



# CUSTOM LOGO I.D. BANDS

Customize your new carbon cylinders by adding a personalized logo. Customized logo makes cylinders easy to identify and reduces cylinders being misplaced in mutual aid scenarios. Logo is printed on white paper, and protected by the fiberglass wrap and epoxy resin. Maltese cross or Customer provided graphic. Twenty-five cylinder minimum order.



# ZICO SCBA BRACKETS

We sell ZICO SCBA BRACKETS for your cylinders. Zico has been the industry standard for decades and strives to stay on the cutting edge of SCBA technology by designing new brackets or improving upon older models.



# 6 CYLINDER RACK

6 CYLINDER RACKS are vinyl-dipped to protect cylinders wrapped with Carbon, Kevlar, or Fiberglass.

- Holds 6 cylinders, up to 7" diameter
- Dimensions: 20"H x 24"W x 16"D

50400	6-Cylinder SCBA Cylinder Rack
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# ARCTIC COMPRESSORS

## ARCTIC 1500 SERIES ENCLOSED COMPRESSOR

- 9 CFM, 4 stage, 6,000 PSI, 7.5 Horsepower motor with CO Monitor
- Two Cylinder fill station 5500 PSI certified
- Two 6000 PSI UN/ISO Cylinder with CGA-702 Valve – 540 Cubic feet
- 5 Year Gold Warranty



## ARCTIC 1500 SERIES ENCLOSED COMPRESSOR

- 14 CFM, 4 stage, 6,000 psi, 10 Horsepower motor with CO Monitor
- Two Cylinder fill station 5500 PSI certified with 4 Bank Cascade Control Panel
- Four 6000 PSI UN/ISO Cylinder with CGA-702 Valve – 540 Cubic feet
- 5 Year Gold Warranty



## ARCTIC 2500 SERIES ENCLOSED COMPRESSOR

- 24 CFM, 4 stage, 6,000 PSI, 20 Horsepower motor with CO Monitor
- Three Cylinder fill station 5500 PSI certified with 4 Bank Cascade Control Panel
- Four 6000 PSI UN/ISO Cylinder with CGA-702 Valve – 540 Cubic feet
- 5 Year Gold Warranty



**ARCTIC COMPRESSOR IS PROUDLY MADE IN AMERICA.**



**PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION**

# THERMAL IMAGERS

**argus**<sup>®</sup>  
thermal imaging from Avon Protection

Avon Protection now offers the most advanced firefighting TIC's on the market. The new suite of upgrades improves the image quality, providing enhanced levels of background detail and the clearest and safest view of a scene, optimised for use in the presence of a large fire.

## POWERED BY THE IGNIS ENGINE

- Enhanced Image Quality
- Latest sensor technology
- Class leading battery technology – with 5 year

## DESIGNED TO MEET YOUR APPLICATION

- Dynamic Scene Enhancement
- Image freeze, image capture and video capture
- Software customization tool- activate/deactivate desired functionality
- Compact Truck Charger- space saving smart charger ensures TIC is ready to respond warranty

## APPROVALS

- Standard on Thermal Imagers for Fire Services All parts of the system are compliant with EU directive 2011/65/EC



Mi-TIC E

Mi-TIC S

## MI-TIC E LOWEST TOTAL COST OF OWNERSHIP FIREFIGHTER THERMAL IMAGING CAMERA

The MI-TIC E is a lightweight size up imager and an affordable interior structural firefighting camera, combining low cost and a long list of features that make this the perfect tool for any fire department.

### APPLICATIONS

- Ventilation location selection
- Search and Rescue (Fire and Non Fire)
- Seat of fire localization
- Size Up
- Identify residual heat during overhaul operations

### EASE OF USE

- Available in 1 or 3 button options
- 3 button models are user programmable
- On/Off NFPA TI Basic Button
- Lightest NFPA 1801 compliant thermal imager at 27 ounces (765g)

### IMAGE QUALITY

- 320 x 240 Resolution, Display size diagonal - 2.7" (69mm)
- High dynamic range 1400°F (760°C)
- Uninterrupted imaging with Tri-mode sensitivity
- Unmistakeable fixed scene colorization
- Direct temperature measurement

## MI-TIC S BEST-IN-CLASS FEATURE SET FIREFIGHTER THERMAL IMAGING CAMERA

The MI-TIC S is a premium lightweight thermal imager with industry leading dynamic range and oversized display for top performance in the most extreme firefighting environments. The Mi-TIC S has an enhanced feature set including laser pointer to aid communication, electronic compass for greater scene awareness and heat/cold seeker technology.

### APPLICATIONS

- Ventilation location selection
- Search and Rescue (Fire and Non Fire)
- Seat of fire localization
- Size Up
- Identify residual heat during overhaul operations
- Interior Structural Firefighting
- Hot Spot Localization
- Cold Spot Localization
- Directional Awareness

### EASE OF USE

- Available in 3 button option
- Department programmable
- On/Off NFPA TI Basic Button
- Lightest NFPA 1801 compliant, thermal imager at 31 oz. (870g)

### IMAGE QUALITY

- 320 x 240 Resolution, Display size diagonal – 3.5" (90mm)
- High dynamic range 2000°F (1100°C)
- Uninterrupted imaging with Tri-mode sensitivity
- Unmistakeable fixed scene colorization
- Direct temperature measurement



Compact Truck Charger

Mi-320-1-E | 1 button Mi-TIC E

Mi-320-3-E | 3 button Mi-TIC E

Mi-320-3-S | 3 button Mi-TIC S

# DRÄGER UCF® FIREVISTA THERMAL IMAGING CAMERA

Dräger

Small, light, robust and can be operated with just one button: The compact thermal imaging camera Dräger UCF® FireVista provides excellent picture quality even under the most difficult operating conditions. The camera is ready for immediate use and provides the best possible support on firefighting deployments. Outstanding quality – especially in the price.



THERMAL

## FIRE FINDER

Detect heat sources as small as a lit cigarette on an asphalt roadway in broad sunlight with the Fire Finder Professional™ Thermal Scanner, a light weight, handheld, highly selective thermal scanner designed specifically for finding hot spots. Dyn-Optics time-proven thermal scanners have been helping fire fighters complete their jobs quicker, safer and prevent rekindles for over twenty years.

The Model 955 Fire Finder Professional™ is easy to operate and designed to give reliable performance time after time. Held like a flashlight and waved around a suspected area, the Fire Finder Professional™ quickly finds hot spots and emits a loud alarm instantly alerting the operator. The pitch of the alarm increases as the Fire Finder is pointed closer to the hot spot allowing the firefighter to quickly locate heat sources without taking his eyes off the area being investigated.

- Unique patented design
- SmartSight™ Technology maintains maximum sensitivity
- Unaffected by sunlight - unsurpassed performance in outdoor applications
- Complete mop-ups in 1/5th time
- Includes built-in self test ensuring 100% device integrity
- Prevents call backs
- Operates through glass
- Uses standard AA batteries
- Lightweight, easy to use
- Help Needed alarm
- Water-resistant, rugged anodized machined aluminum housing
- Maintenance-free
- No-nonsense Warranty

## DYN-OPTICS

### INCLUDES

- Model 955 Fire Finder
- Codura Carrying Pouch
- Reflective Wrist Lanyard
- Operations manual
- Waterproof Case with Lifetime Warranty



### NO-NONSENSE WARRANTY

Each Fire Finder Professional™ is backed with an unconditional 3 year warranty. If your Fire Finder Professional™ fails for any reason (batteries excluded), please return it to Dyn-Optics and we will repair or replace it free of charge.

49990	Fire Finder Thermal Scanner
49990-L	Fire Finder Thermal Scanner w/laser pointer

## SMOKE BOMBS

The Superior® Smoke #W3C generates a whitish gray smoke in two to three minutes; double wicked with quick clips furnished for multiple units extending smoke generating time. Superior Classic Smoke Candles quickly and efficiently produce a dense white smoke ideal for a variety of applications, including the simulation of fire conditions for the training of firefighters in the use of self-contained breathing apparatus. Disposable and simple to use, no external power or heat source is required.

- Fire Mechanism: Double Fuse
- Smoke Output: 40000 cft
- Duration: 2-3 minutes
- Dimensions: 1.5" by 5"
- Made in the USA



50059 | Smoke Bombs



## SINGLE-GAS DETECTION DRÄGER PAC 6000

The DRÄGER PAC® 6000 disposable personal gas detector measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> reliably and precisely, even in the toughest conditions. The robust design, quick sensor response times, and a powerful battery ensure maximum safety for up to two years with virtually no maintenance required.

## DRÄGER PAC 6500

The robust DRÄGER PAC® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> quickly and precisely. Quick sensor response times and a replaceable battery also ensure safety.

## DRÄGER PAC 8000

With the robust DRÄGER PAC® 8000, you'll be well equipped for tough conditions: this non-disposable, personal single-gas detection device is a reliable and precise instrument, which detects hazardous concentrations of twenty nine different gases, including special gases like NO<sub>2</sub>, O<sub>3</sub> or COCl<sub>2</sub>.

## DUAL-GAS DETECTION DRÄGER PAC 8500

The DRÄGER PAC® 8500 single-sensor detection device is a reliable and precise instrument even under the toughest of conditions. The detector can be equipped with a hydrogen-compensated CO sensor or a Dräger dual sensor. The dual sensors provide the option of measuring two gases at once: H<sub>2</sub>S with CO, O<sub>2</sub> with CO, or H<sub>2</sub>S with O<sub>2</sub>.

## MULTI-GAS DETECTION DRÄGER X-AM 2500

DRÄGER'S X-AM® 2500 accurately detects O<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S and is the only 1–4 gas monitor you need in industrial and refinery applications. The X-AM® 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety. It is approved for most markets including mining, oil & gas, chemical, fire and hazardous response, government and many other applications.

## DRÄGER X-AM 5000

The DRÄGER X-AM® 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as O<sub>2</sub> and harmful concentrations of toxic gases, organic vapors, odorant and amine.

## DRÄGER X-AM 8000

Clearance measurement was never this easy and convenient: The 1 to 7 gas detector detects toxic and flammable gases as well as vapors and oxygen all at once – either in pump or diffusion mode. Innovative signaling design and handy assistant functions ensure complete safety throughout the process.

## DRÄGER X-SITE LIVE

Real-time scalable area monitoring. Benefit from up to 7 toxic and combustible gas detection plus radiation sensors in a convenient, easy to carry case. Remote visibility with unsurpassed communications capability enabled by FirstNet® integration.



Dräger PAC 6000



Dräger PAC 8500



Dräger X-AM 2500

Dräger X-AM 5000

Dräger X-AM 8000



PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING.

# CALIBRATION AND BUMP TESTING

## DRÄGER X-DOCK® 5300/6300/6600

Automatic bump tests, calibration, reduced test gas consumption, short testing times, and comprehensive documentation come standard in this new device from Dräger, the experts in gas detection.



## DRÄGER BUMP TEST STATION

Easy to use, stand-alone and flexible. With the **BUMP TEST STATION**, function tests of gas detection and warning devices can be carried out easily and independently of the location.



## CALIBRATION GAS AND ACCESSORIES

Strictly to rule: For the safe operation of devices, applicable regulations and statutory provisions are to be met and complied with. Therefore, regular calibrations and function tests are necessary. Available for that are different systems, which meet a wide range of calibration requirements.

### SINGLE GAS AND MIXTURES OF RELIABLE QUALITY

Dräger provides single gases and gas mixtures of reliable, constant quality.

### RECYCLABLE CYLINDERS

The gases are supplied in small, light and recyclable disposable cylinders. Therefore, calibration tasks and function tests can easily be carried out in the workshop or on site.

### TAILOR-MADE FOR DRÄGER GAS MEASURING DEVICES

The Dräger calibration gases are specifically tailored to meet the requirements as of the gas measuring devices.



## GAS DETECTION TUBES AND PUMP

### DRÄGER SAMPLING TUBES AND SYSTEMS

High precision guaranteed: The Dräger sampling tubes and systems are very reliable in use even with complex compounds and mixtures of substances.



### DRÄGER X-ACT® 5000 BASIC

The automatic tube pump **DRÄGER X-ACT® 5000 BASIC** is the all-in-one solution designed for measurements with Dräger short-term tubes and for sampling tubes and systems. Ease of operation and a high degree of reliability compliment the measurement and sampling of gases, vapors and aerosols.



### DRÄGER ACCURO PUMP FOR GAS DETECTION TUBES

Fast measurement with one hand: The Dräger-Tube pump accuro allows you to use the established Dräger-Tubes to take measurements under extreme conditions. The easy-to-use Dräger-Tubes have already been calibrated and form a perfect unit with the Dräger-Tube pump.



## WORKSHOP SOLUTION AND BREATHING GAS SUPPLY TEST EQUIPMENT

### DRÄGER QUAESTOR 5000

Empower your service technicians with the **DRÄGER QUAESTOR 5000**, a dynamic test instrument that allows for semi-automatic testing of respiratory protection products. Designed to meet maximum quality standards, the modular Dräger Quaestor 5000 provides reliable and effective test processes—while reducing time and effort.



# HEADLAMPS

## PELICAN PROGEAR 2760 LED HEADLIGHT

Multi-beam functionality at your fingertips.

- Multiple lighting features: high, medium, low, flashing, downcast, and night vision red LED modes
- Hands-free design
- Night vision friendly
- Comfortable Cloth Strap
- Fast and easy battery changing
- Weather resistant casing



<b>MAX OUTPUT</b>	289 lumens (high) 156 lumens (med) 97 (low), 42 (downcast)
<b>BATTERY LIFE</b>	1.5 hrs. (high), 3.25 hrs. (med) 5.5 hrs. (low) 11 hrs. (downcast)
<b>BATTERY TYPE</b>	3x AAA
<b>WEIGHT</b>	3.4 oz. w/batteries
<b>LENGTH</b>	2.25"

70075 | LED Headlight

## PELICAN LED HEADLAMP

Light turns on with the wave of a hand.

- Gesture Activation Control
- Dual LED low level red light for night vision
- Signaling red (S.O.S.) beacon light
- Optical 4x magnification
- Variable light output from 100%-10%
- 90° pivoting head



<b>MAX OUTPUT</b>	80 lumens (high) 5 lumens (low)
<b>BATTERY LIFE</b>	8 hrs. (high) 175 hrs. (low)
<b>BATTERY TYPE</b>	3x AAA
<b>WEIGHT</b>	3.8 oz. w/batteries
<b>LENGTH</b>	2.48"

70070 | LED Headlamp

## PELICAN HEADSUP LITE™ LED

Bright, efficient, compact with a no-nonsense rotary bezel switch.

- Easy to operate rotary bezel switch
- Impact and chemical resistant ABS
- Water resistant
- Includes cloth strap and rubber helmet strap



<b>MAX OUTPUT</b>	60 lumens
<b>BATTERY LIFE</b>	10 hrs.
<b>BATTERY TYPE</b>	3x AAA
<b>WEIGHT</b>	14.8 oz. w/batteries
<b>LENGTH</b>	2.81"

70052 | Headsup LITE LED





## FOXFURY COMMAND 20 WILDLAND

White and green LEDs improve depth perception and smoke cutting ability.

- Panoramic light - wider beam angle
- Adjustable tilt
- Highly visible rear safety LED
- Silicone strap



70072 | Command 20 Wildland



MAX OUTPUT	72 lumens
BATTERY LIFE	8-16 hrs.
BATTERY TYPE	4x AA
WEIGHT	9.7 oz.
WIDTH	4.8"

## FOXFURY DISCOVER FIRE HELMET LIGHT

Powerful, ultra-slim white LED light with rear safety LED.

- Panoramic light - wider beam angle
- Ultra-Slim design
- Highly visible rear safety LED
- Durable aluminum
- Replaceable polycarbonate lens
- Fire resistant silicone strap
- Waterproof



70073 | Discover Helmet Light



MAX OUTPUT	120 lumens
BATTERY LIFE	4.5 hrs.
BATTERY TYPE	4x AA
WEIGHT	9.4 oz.
WIDTH	2.8"

## STREAMLIGHT BANDIT PRO RECHARGEABLE LED **NEW!**

Long-running, sleek headlamp that is USB rechargeable.

- USB rechargeable
- Push-button switch with charging indicator - shines red while charging, green when charged
- Low battery indicator – light will blink when there is approximately 5 minutes of run time remaining
- Includes USB cord and elastic headstrap
- Durable, impact-resistant construction



70029 | Bandit Pro Rechargeable



MAX OUTPUT	180 lumens (HIGH); 35 lumens (LOW)
BATTERY LIFE	4.5 hrs. (HIGH); 21 hrs. (LOW)
BATTERY TYPE	Lithium Polymer Cell
WEIGHT	1.6 OZ. w/headband
WIDTH	2.7"

## STREAMLIGHT TRIDENT LED

3 position lighting provides the broadest range of lighting applications.

- 3 position lighting
- Recessed push-button switch
- 90° tilting head
- Low-level battery indicator
- ABS thermoplastic construction
- Unbreakable polycarbonate lens
- Water and impact resistant



20099 | Trident LED



MAX OUTPUT	80 lumens (C4 LED) 35 lumens (3 LEDs) 11 lumens (1 LED)
BATTERY LIFE	5 hrs. (C4 LED) 10 hrs. (3 LEDs) 53 hrs. (1 LED)
BATTERY TYPE	3x AAA or lithium
WEIGHT	5.5 oz. w/batteries
WIDTH	2.7"

## STREAMLIGHT HAZ-LO

Meets the stringent requirements of division 1 hazardous locations.

- Intrinsically safe - Class I, Div 1
- Parabolic reflector produces long range brilliance & smooth uniform beam
- Impact resistant resin case
- Unbreakable polycarbonate lens
- 90° tilting head
- Easy to use push-button on/off switch



70025 | Haz-Lo Headlamp



MAX OUTPUT	120 lumens
BATTERY LIFE	11 hrs.
BATTERY TYPE	3x AA
WEIGHT	7.1 oz. w/batteries
LENGTH	3.08"

# HELMET LIGHTS

## VANTAGE® HELMET-MOUNTED LIGHT

Compact, powerful, shock-proof, and virtually indestructible! The lightweight, compact Vantage light can easily be clamped on any traditional or modern firefighter's helmet above or below the brim.

- C4 LED light source with 50,000 hr. lifetime
- Solid-state current regulation for consistent illumination level
- Rotates 360 degrees on clamp
- Anodized aircraft aluminum
- Swivel clamp and insertable 5° angle adjuster to optimize beam location
- High temperature, shock mounted, impact resistant Boro Float glass lens
- Textured parabolic reflector produces a smooth beam hotspot with optimum peripheral illumination
- IPX7 rated waterproof to 1 meter for 30 min.
- Meets requirements of NFPA 1971-8.6 (2007)



Attaches above or below full brim

MAX OUTPUT	100 lumens
BATTERY LIFE	6 hrs.
BATTERY TYPE	2x 3-volt CR 123A lithium
WEIGHT	5.14 oz. w/batteries
SIZE	3.26"L x 1.47"W x 2.56"H

11790 | Vantage Helmet Light

## VANTAGE® 180 HELMET/RIGHT-ANGLE FLASHLIGHT

Wear it, hold it, clip it, or hang it! Giving you the ultimate versatility in a firefighter's light, the Vantage 180 goes instantly from a helmet light to a handheld light to a right-angle light.

- High and low modes
- 180 degree articulating head
- Rear LED Taillight changes from blue to white:
  - Blue LED for helmet mount use and visibility in heavy smoke
  - White LED for a downcast flood light switches from blue when head is at a 90° angle
- High-impact, "super-tough" nylon chemically-resistant engineering polymer construction
- Integrated multi-function stainless steel pocket clip for a variety of attachment methods
- Turnout gear attachment hook
- Meets requirements of NFPA 1971-8.6 (2007)
- IPX7 waterproof to 1m for 30 minutes; 1m impact resistance tested
- Limited Lifetime Warranty



Use as a helmet light



Attach to turnout gear



MAX OUTPUT	250 lumens (High) 100 lumens (Low)
BATTERY LIFE	4 hrs. (High) 12 hrs. (Low)
BATTERY TYPE	2x CR 123A lithium
WEIGHT	5.5 oz. w/batteries
SIZE	5.2" Long

88901 | Vantage 180

## POLYTAC® TACTICAL LED

Ideal for law enforcement backup light, day-to-day industrial use, maintaining vehicles, and general contracting work.

- C4® LED technology within a parabolic reflector produces a concentrated beam with optimum peripheral illumination
- TEN-TAP® Programming: 3 operating modes: high/strobe/low, high only, low/high
- Solid State power regulation provides maximum light output throughout battery life
- Reflector produces a concentrated beam with optimum peripheral illumination
- High-impact, super-tough nylon polymer construction
- Superior grip texture provides a a slip-resistant feel
- IPX7 rated waterproof to 1 meter for 30 min.



MAX OUTPUT	275 lumens (High) 14 (Low)
BATTERY LIFE	3 hrs. (High) 5.5 hrs. (Strobe) 65 hrs. (Low)
BATTERY TYPE	2x 3-volt CR 123A lithium
WEIGHT	4.1 oz. with batteries
SIZE	5.34"L x 1.36"D

70067 | Polytac LED

# HANDHELD LIGHTS

## E-SPOT® LITEBOX®

Streamlight E-Spot LiteBox is an industrial-duty, rechargeable, portable lantern with high brightness, long runtime and reliability.

- 3 C4® LEDs and deep dish parabolic reflectors produce a large spot pattern
- LEDs are impervious to shock with a 50,000 hour lifetime
- Optimized electronics, regulated intensity
- 2 levels of lighting; Jumper selectable high or low setting to allow selection of more light output or more runtime
- Zero-maintenance 6V, 12Ah sealed lead acid battery. Rechargeable up to 500 times
- Push button switch
- IPX4 rated for water-resistance
- High impact ABS thermoplastic housing with rubberized impact bumper, lens ring, and cushioned-grip handle
- Re-enforced D-rings
- Rack meets requirements of NFPA 1901-14.1.11.2 (2003) mounted in any position
- Limited lifetime warranty



<b>MAX OUTPUT</b>	540 lumens (High) 330 (Low)
<b>BATTERY LIFE</b>	7 hrs. (High) 15 hrs. (Low)
<b>BATTERY TYPE</b>	6V
<b>WEIGHT</b>	7.9 lbs. w/batteries
<b>SIZE</b>	11.5"L x 5.1"W x 7"H

<b>11803</b>	E-Spot® Standard
<b>11804</b>	E-spot® Vehicle Mount

**STANDARD SYSTEM:**  
includes AC and DC charger cords, charge rack and shoulder strap

**VEHICLE MOUNT SYSTEM:**  
includes vehicle-mountable hard-wire rack and shoulder strap

## FIRE VULCAN® LED

The rechargeable Fire Vulcan® LED is brighter, lighter and smarter with life-saving taillights.

- Ultra-bright blue taillight LEDs
- 8 programmable switch functions
- Reinforced D-Rings
- Easy to operate toggle switch
- High clearance handle
- IPX7 rated design - waterproof to 1 meter for 30 minutes
- Fits existing Streamlight Vulcan chargers
- High impact ABS thermoplastic housing in high-visibility orange with rubberized cushioned-grip handle
- Unbreakable polycarbonate lens with scratch resistant coating
- Deep-dish parabolic reflector produces a tight beam with optimum peripheral illumination
- Quick-release strap for fast and easy release/connection of shoulder straps



<b>MAX OUTPUT</b>	145 lumens (High) 70 (Low)
<b>BATTERY LIFE</b>	3 hrs. (Steady high LED & taillights) 6 hrs. (Low)
<b>BATTERY TYPE</b>	2 Lithium-ion nano-technology
<b>WEIGHT</b>	1.85 lbs. w/batteries
<b>SIZE</b>	7.5"L x 5"W x 6.5"H

**STANDARD SYSTEM:**  
includes quick release buckle strap, charging rack, AC/DC chargers

**VEHICLE MOUNT SYSTEM:**  
includes quick release buckle strap and 12V DC vehicle-mountable direct-wire charging rack

<b>11791</b>	Fire Vulcan® Standard
<b>11798</b>	Fire Vulcan® Vehicle Mount



Taillight LEDs with steady and blinking modes



# PROPOLYMER® LUX

T4AA Propolymer® LUX provides a longer reaching, brighter beam that's 10 Xs brighter than a high-intensity LED.

- C4 LED light source
- Unbreakable polycarbonate lens with scratch-resistant coating
- One handed operation of rubber-booted, push-button tailswitch
- Non-conductive, shock resistant, and corrosion proof
- Waterproof to 1 meter for 30 minutes
- Deep parabolic beam generator produces long range brilliance and smooth uniform pattern
- Solid State Power Regulation provides maximum light output throughout battery life
- Ergonomically shaped for hand comfort



<b>MAX OUTPUT</b>	100 lumens
<b>BATTERY LIFE</b>	6 hrs.
<b>BATTERY TYPE</b>	4x AA alkaline
<b>WEIGHT</b>	7.6 oz. with batteries
<b>SIZE</b>	7"L x 1.35"W x 1.69"D

11810 | 4AA Propolymer® LUX

# SURVIVOR® LED

Lightweight, hand-held light with right angle head designed for use in hazardous locations.

- 3 modes: High, Low, and Strobe
- Microprocessor controlled high and low intensity modes and emergency flash
- Deep-dish, parabolic beam generator creates long-range, focused beam & ample sidelighting
- Housing, base & battery housing made from high impact super tough nylon
- O-ring sealed for weather resistance
- Spring loaded clip with built in ring easily attaches to belts and harnesses
- One way valve for case venting
- Weatherproof push button 3-position switch



<b>MAX OUTPUT</b>	140 lumens (High) 47 (Low)
<b>BATTERY LIFE</b>	4 hrs. (High) 15 hrs. (Low) 8 hrs. (Flash) 20 days (Moonlight)
<b>BATTERY TYPE</b>	4x AA alkaline
<b>WEIGHT</b>	13.1 oz. with batteries
<b>SIZE</b>	7.06"L x 2.85"W x 2.87"D

11757 | Streamlight Survivor LED



# KNUCKLEHEAD® WITH CLIP

The Knucklehead® aims the floodlight onto the work areas.

- 4 modes: High, Low, Moonlight, & Flash
- 210 degree articulating head rotates a full 360 degrees
- Strong spring-loaded alligator clip attaches to turnout gear
- Dual parabolic reflectors optimize light on target with an overall smooth flood pattern
- Rubber dome push-button actuator is easy to operate when wearing heavy gloves
- Removable magnet with 135 lbs. pull strength
- High-impact, super-tough nylon polymer construction



<b>MAX OUTPUT</b>	200 lumens (High), 63 (Low)
<b>BATTERY LIFE</b>	3.5 hrs. (High), 16 hrs. (Low), 8 hrs. (Flash), 20 days (Moonlight)
<b>BATTERY TYPE</b>	4x AA alkaline
<b>WEIGHT</b>	18.3 oz. with batteries
<b>SIZE</b>	9.2"H x 2.85"W x 2.75"D

70066 | Knucklehead w/Clip

# POLYTAC 90™ LED

Versatile right angle, compact tactical flashlight can clip onto turn-out gear.

- C4 LED light source
- High, Low and Strobe modes
- 90° head
- Waterproof to one meter for 30 minutes
- One meter impact resistance tested
- Indestructible nylon polymer housing
- Integrated carabiner style D-ring
- Fully rotatable/reversible/removable clip



<b>MAX OUTPUT</b>	170 lumens (High) 17 (Low)
<b>BATTERY LIFE</b>	3.75 hrs. (High) 30 hrs. (Low) 6 hrs. (Strobe)
<b>BATTERY TYPE</b>	2x 3-volt CR 123A lithium
<b>WEIGHT</b>	4.2 oz. with batteries
<b>SIZE</b>	5.22"L x 1.25"W x 1"D

70068 | Polytac 90 LED

## PORTABLE SCENE LIGHT

Streamlight's Scene Light is an industrial-duty, rechargeable, completely portable high lumen flood light. The Scene Light uses six (6) LEDs and wide pattern reflectors to produce a uniform flood pattern with 2 selectable beam widths and 3 light output intensities. Rapidly deployed and easily stowed, it features a narrow footprint and 72" extension pole, letting you bring this light almost anywhere - from wide open places to tight, confined spaces.

- Six C4<sup>®</sup> LED and wide reflectors produce a uniform flood pattern
- Three user-selectable outputs
- Selectable diffuser settings for two beam widths
- Optimum peripheral illumination for scene lighting; 90° swivel neck allows you to aim the beam where you need it
- Sealed lead acid batteries, rechargeable up to 500 times
- Batteries will continue charge while operating directly from an external 12V DC power source
- Indefinite run time when using 12V DC power cord
- Integral D-rings allow attachment of the included shoulder strap
- Balanced design and easy setup
- Less than 30 seconds for full deployment
- Pole extends to 72"
- Cord built into the pole to avoid snags
- Stabilization legs provide balance on uneven surfaces
- Packs to a compact size (22") for easy stowage
- High-impact thermoplastic housing; weatherproof construction
- Available in Safety Yellow with AC and DC charge cords and shoulder strap
- Assembled in USA
- Limited lifetime warranty



<b>MAX OUTPUT</b>	5,300 lumens (High), 2,500 (Med.), 1,300 (Low)
<b>BATTERY LIFE</b>	4 hrs. (High), 9 hrs. (Med.), 18 hrs. (Low)
<b>BATTERY TYPE</b>	12V rechargeable up to 500 times, 10 hrs. charging time
<b>WEIGHT</b>	25 lbs. w/battery
<b>SIZE</b>	Head: 6.5"D Closed: 22"L x 6.5"W x 11"H

SCENE LIGHT & ACCESSORIES	
<b>45670</b>	Portable Scene Light w/120V AC/12 V DC
<b>45630</b>	Battery
<b>44050</b>	Quick Release Strap
<b>45232</b>	Shoulder Strap



## PORTABLE SCENE LIGHT ACCESSORIES



Battery



Quick Release Strap

### STREAMLIGHT<sup>®</sup> LIMITED LIFETIME WARRANTY

Streamlight warrants its products to be free of defects for a lifetime of use except for batteries and bulbs, abuse and normal wear. We will repair, replace or refund the purchase price of this product should we determine it to be defective. This limited lifetime warranty also excludes rechargeable batteries, chargers, switches and electronics which have a 2 year warranty with proof of purchase.

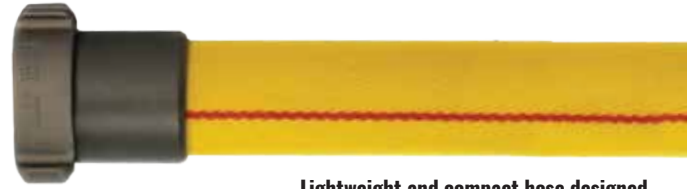
# FORESTRY FIRE HOSE



## NORTH AMERICAN FIRE HOSE

### OUTBACK 600 FORESTRY, WILDLAND, CAFS

- CERTIFIED NFPA 1961 - MEETS US FOREST SERVICE SPEC 5100-187
- Polyurethane (TPU) Lining/Polyester Jacket
- Poly-Cord™ ring spun polyester warp yarns combined with filament polyester filler yarns
- Very fine twill weave fabric construction for improved abrasion and snagging resistance
- High visibility Yellow Ultra-Shield™ polyurethane coating
- Extremely strong and durable Dura-Thane™ polyurethane inner lining
- Immune to the effects of mildew and rot
- Hose and couplings are Made in the USA



Lightweight and compact hose designed to withstand the rigors of the "Outback".

HOSE SIZE	1"	1½"
WGT/100 FT	10 LBS.	14 LBS.
SERVICE TEST	300 PSI	300 PSI
ACCEPTANCE TEST	600 PSI	600 PSI

OUTBACK 600	
11544-50	1" x 50' Coupled
11544-100	1" x 100' Coupled
11545-50	1½" x 50' Coupled
11545-100	1½" x 100' Coupled

### OUTBACK 600 HD FORESTRY, WILDLAND, CAFS

- CERTIFIED NFPA 1961
- EPDM Rubber Lining/Polyester Jacket
- Poly-Cord™ ring spun polyester warp yarns are combined with filament polyester filler yarns
- Very fine twill weave fabric construction for improved abrasion and snagging resistance
- High visibility Yellow Ultra-Shield™ polyurethane coating
- EPDM rubber lining is unaffected by Ozone deterioration
- Friction Fighter System™ reduces friction loss and improves nozzle performance
- Dura-Bond™ vulcanized adhesion system eliminates the possibility of delamination
- Immune to the effects of mildew and rot
- Hose and couplings are Made in the USA and are fully NFPA 1961 compliant



HOSE SIZE	1"	1½"
WGT/100 FT	12 LBS.	17 LBS.
SERVICE TEST	300 PSI	300 PSI
ACCEPTANCE TEST	600 PSI	600 PSI

OUTBACK 600 HD	
11540-50	1" x 50' Coupled
11540-100	1" x 100' Coupled
11541-50	1½" x 50' Coupled
11541-100	1½" x 100' Coupled

**CUSTOM LENGTHS AND STENCILING AVAILABLE FOR ALL HOSE.**

### TYPE II SPEC 187 FORESTRY, WILDLAND, CAFS

- MEETS US FOREST SERVICE SPEC 5100-187
- Polyurethane Lining/Polyester Jacket
- Immune to effects of mildew and rot
- Poly-Cord™ ring spun polyester warp yarns are combined with filament polyester filler yarns
- High visibility yellow Ultra-Shield™ polyurethane coating
- Extremely strong and durable Dura-Thane™ polyurethane inner lining
- Fine twill weave for improved abrasion and snagging resistance
- Hose and couplings are Made in the USA



HOSE SIZE	1"	1½"
WGT/100 FT	10 LBS.	14 LBS.
SERVICE TEST	300 PSI	300 PSI
ACCEPTANCE TEST	600 PSI	600 PSI

TYPE II SPEC 187	
11547-50	1" x 50' Coupled
11547-100	1" x 100' Coupled
11548-50	1½" x 50' Coupled
11548-100	1½" x 100' Coupled

### TOY HOSE FORESTRY, WILDLAND

- Polyurethane Lining/Polyester Jacket
- Working pressure: 150 PSI
- Temperature Range: -40° to 150°F (-40° to 65°C)
- Coupled with ¾" brass Garden Hose Thread (GHT)
- Weight of 50': 1.25 lbs. Coil diameter: 9"

Toy hose is a small diameter, lightweight, compact single jacket forestry fire hose.

11582-50 | ¾" x 50' Toy Hose



Optional Dura-Cote™ (w/color)



# MUNICIPAL FIRE HOSE



## NORTH AMERICAN FIRE HOSE

### POLY-TUFF 800 ATTACK, CAFS

- CERTIFIED NFPA 1961
- EPDM Rubber Lining/Polyester Jacket
- Poly-Cord™ ring spun polyester warp yarns are combined with filament polyester filler yarns
- Ultra-Shield™ high-performance polyurethane coating
- EPDM rubber lining is unaffected by Ozone deterioration
- Friction Fighter System™ reduces friction loss and improves nozzle performance
- Dura-Bond™ vulcanized adhesion system creates both a mechanical and chemical bond between the EPDM lining and the inner jacket
- Made in the USA and fully NFPA 1961 compliant

POLY-TUFF 800	
11512	1½" x 50' Coupled
11513	1¾" x 50' Coupled
11515	2½" x 50' Coupled
11516	3" x 50' Coupled



HOSE SIZE	1½"	1¾"	2½"	3"
WGT/50 FT	16 LBS.	18 LBS.	29 LBS.	37 LBS.
SERVICE TEST	400 PSI	400 PSI	400 PSI	400 PSI
ACCEPTANCE TEST	800 PSI	800 PSI	800 PSI	800 PSI

### DURA-BUILT 800 ATTACK, HIGH RISE, CAFS

- CERTIFIED NFPA 1961
- EPDM Rubber Lining/Nylon 6-6 Jacket
- Dura-Cord® advanced air-textured Nylon 6-6 continuous filament warp yarns
- Superior "toughness", abrasion resistance, cut resistance, tear strength and heat resistance
- Ultra-Shield™ high-performance polyurethane coating
- EPDM rubber lining is unaffected by Ozone deterioration
- Friction Fighter System™ reduces friction loss and improves nozzle performance
- Dura-Bond™ vulcanized adhesion system eliminates the possibility of delamination
- Made in the USA and fully NFPA 1961 compliant

DURA-BUILT 800	
11504	1½" x 50' Coupled
11505	1¾" x 50' Coupled
11506	2½" x 50' Coupled
11507	3" x 50' Coupled



HOSE SIZE	1½"	1¾"	2½"	3"
WGT/50 FT	16 LBS.	17 LBS.	26 LBS.	33 LBS.
SERVICE TEST	400 PSI	400 PSI	400 PSI	400 PSI
ACCEPTANCE TEST	800 PSI	800 PSI	800 PSI	800 PSI

### DURA-FLOW 800 ATTACK, HIGH RISE, CAFS, POTABLE

- CERTIFIED NFPA 1961
- Polyurethane Lining/Nylon 6-6 Jacket
- Dura-Cord® advanced air-textured Nylon 6-6 continuous filament warp yarns
- Superior "toughness", abrasion resistance, cut resistance, tear strength and heat resistance
- Ultra-Shield™ high-performance polyurethane coating
- Extremely strong and durable Dura-Thane™ polyurethane inner lining with NSF approved material for safe drinking water
- Friction Fighter System™ reduces friction loss and improves nozzle performance
- Made in the USA and fully NFPA 1961 compliant

DURA-FLOW 800	
11584	1½" x 50' Coupled
11585	1¾" x 50' Coupled
11586	2½" x 50' Coupled
11587	3" x 50' Coupled



HOSE SIZE	1½"	1¾"	2½"	3"
WGT/50 FT	12 LBS.	14 LBS.	21 LBS.	27 LBS.
SERVICE TEST	400 PSI	400 PSI	400 PSI	400 PSI
ACCEPTANCE TEST	800 PSI	800 PSI	800 PSI	800 PSI

**ULTRA-SHIELD™ COATING** is a high visibility polyurethane coating consisting of a thorough impregnation of the outer jacket which seals each and every fiber in the bundle, further improving abrasion resistance, reducing moisture and chemical absorption, and providing vivid color-coded identification. Ultra-Shield™ is applied under tremendous pressure to completely saturate the jacket cross-section and is heat set in a two-stage process for maximum durability.

#### STANDARD COLORS:



#### SPECIAL REQUEST:





**CUSTOM LENGTHS AND STENCILING AVAILABLE FOR ALL HOSE.**



## HI-FLOW 400 LDH SUPPLY AND RELAY

- Certified NFPA 1961
- 100% synthetic reinforcement, totally encapsulated in a Nitrile Rubber compound utilizing a through-the-weave process
- A heavy duty rubber hose construction with good heat and chemical resistance
- The hose is made in Spain to NAFH specifications, and the couplings are Made in USA
- Both the hose and couplings are fully NFPA 1961 compliant
- Available in yellow and red color only

HOSE SIZE	4"	5"
WGT/100 FT	80 LBS.	110 LBS.
SERVICE TEST	200 PSI	200 PSI
ACCEPTANCE TEST	400 PSI	400 PSI

HI-FLOW 400 LDH		
11938	4" x 100' Coupled	STORZ OR NH
11939	4" x 50' Coupled	STORZ OR NH
11940	4" x 25' Coupled	STORZ OR NH
11941	5" x 100' Coupled	STORZ OR NH
11942	5" x 50' Coupled	STORZ OR NH
11943	5" x 25' Coupled	STORZ OR NH

## TRI-FLOW 600 LDH ATTACK, SUPPLY, RELAY, HIGH VOLUME CAFS, POTABLE

- Certified NFPA 1961
- Polyurethane Lining/Nylon 6-6 Jacket
- DURA-CORD® advanced air-textured Nylon 6-6 continuous filament warp yarns
- Superior "toughness", abrasion resistance, cut resistance, tear strength and heat resistance
- Ultra-Shield™ high-performance polyurethane coating
- Extremely strong and durable Dura-Thane™ polyurethane inner lining with NSF approved material for safe drinking water
- Friction Fighter System™ reduces friction loss and improves nozzle performance
- Loads more tightly and requires less hose bed space, provides more pressure capability, maneuverability and flexibility
- Both the hose and couplings are Made in the USA and are fully NFPA 1961 compliant

TRI-FLOW 600 LDH		
11958	4" x 100' Coupled	STORZ OR NH
11959	4" x 50' Coupled	STORZ OR NH
11960	4" x 25' Coupled	STORZ OR NH
11961	5" x 100' Coupled	STORZ OR NH
11962	5" x 50' Coupled	STORZ OR NH
11963	5" x 25' Coupled	STORZ OR NH

HOSE SIZE	4"	5"
WGT/100 FT	79 LBS.	91 LBS.
SERVICE TEST	300 PSI	300 PSI
ACCEPTANCE TEST	600 PSI	600 PSI

## HI-TECH 600 ATTACK, HIGH RISE, FORESTRY

- Certified NFPA 1961
- Rubber Nitrile
- 100% synthetic reinforcement, totally encapsulated in a Nitrile Rubber compound using a through-the-weave process
- Medium duty rubber hose construction with good heat and chemical resistance
- Hose is made in Spain to NAFH specifications, and the couplings are Made in the USA
- NFPA 1961 compliant hose and couplings
- Available in yellow and red color only

HI-TECH 600	
11947	1½" x 50' Coupled
11949	1¾" x 50' Coupled
11953	2½" x 50' Coupled
11955	3" x 50' Coupled
11946	1½" x 100' Coupled
11948	1¾" x 100' Coupled
11952	2½" x 100' Coupled
11954	3" x 100' Coupled

HOSE SIZE	1½"	1¾"	2½"	3"
WGT/50'	14 LBS.	17 LBS.	24 LBS.	36 LBS.
SERVICE TEST	300 PSI	300 PSI	300 PSI	300 PSI
ACCEPTANCE TEST	600 PSI	600 PSI	600 PSI	600 PSI



# SUCTION HOSE

## POLYESTER SOFT SUCTION

	ID	OD	WGT / FT
11512	1½"	1 <sup>15</sup> / <sub>16</sub> "	0.32 lb
11513	1¾"	2 <sup>1</sup> / <sub>8</sub> "	.36 lb
11515	2½"	3"	.58 lb
11516	3"	3 <sup>17</sup> / <sub>32</sub> "	.74 lb
11578	4"	4 <sup>17</sup> / <sub>32</sub> "	.9 lb
11580	5"	5 <sup>3</sup> / <sub>4</sub> "	1.1 lb

Used to transfer water from hydrant to pumper.

- Jacket is Poly-Cord™ ring spun polyester warp yarns combined with filament polyester filler yarns
- Ultra-Shield™ high-performance polyurethane coating
- EPDM rubber lining is unaffected by Ozone deterioration
- Dura-Bond™ vulcanized adhesion system creates mechanical and chemical bond between the lining and the inner jacket
- Made in the USA and fully NFPA 1961 compliant



## PVC SUCTION

	SIZE	LENGTH
11558	1"	8FT, 10FT, & 12 FT
11563	1½"	8FT, 10FT, & 12 FT
11564	2"	8FT, 10FT, & 12 FT
11565	2½"	8FT, 10FT, & 12 FT
11566	3"	8FT, 10FT, & 12 FT
11567	4"	8FT, 10FT, & 12 FT
11568	5"	8FT, 10FT, & 12 FT
11569	6"	8FT, 10FT, & 12 FT

Specify rocker lugs or long handle.

Ideal when weight is a consideration.

- Lighter and less expensive than conventional suction hose
- Flexible, easy to handle yet capable of withstanding full vacuum
- PVC tube is reinforced with rigid vinyl helix that resists kinking and crushing
- Recommended for temperatures from -40°F to 150°F
- Clear hose with a green helix on the 1" to 3" and white helix on the 4" to 6" sizes
- Available in lengths of up to 50'
- Sizes 1" to 3" are coupled with expansion ring couplings and sizes 4" to 6" coupled with couplings for PVC suction hose



## EXPANSION RING COUPLINGS

	HOSE SIZE	HOSE BOWL
11602	1"	1¼" to 1½"
11603	1½"	1 <sup>11</sup> / <sub>16</sub> " to 1 <sup>15</sup> / <sub>16</sub> "
11604	1¾"	2 <sup>1</sup> / <sub>16</sub> " to 2 <sup>3</sup> / <sub>16</sub> "
11605	2"	2 <sup>5</sup> / <sub>16</sub> " to 2 <sup>9</sup> / <sub>16</sub> "
11607	2½"	2 <sup>1</sup> / <sub>16</sub> " to 3 <sup>1</sup> / <sub>16</sub> "
11608	3"	3 <sup>3</sup> / <sub>16</sub> "
11609	3 x 2½"	3 <sup>5</sup> / <sub>16</sub> " to 3 <sup>9</sup> / <sub>16</sub> "

Heavy duty couplings designed for municipal and industrial fire hose.

- Lightweight extruded aluminum with a hard anodized finish
- Three rocker lugs on the body of the male and on the female swivel
- Furnished with expansion rings and gaskets

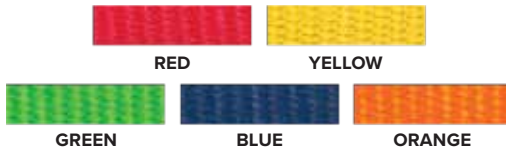


# KEY HOSE

## BIG-10 HEAVY DUTY DOUBLE JACKET RUBBER LINED ATTACK HOSE



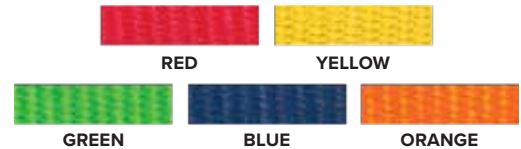
BIG-10		
11617X50NH	1½" x 50' NH	CPLD 1.5" NH
11618X50NH	1¾" x 50' NH	CPLD 1.5" NH
11619X50NH	2½" x 50' NH	CPLD 2.5" NH
11620X50NH	3" x 50' NH	CPLD 2.5" NH



## ECO-10 LIGHTWEIGHT DOUBLE JACKET RUBBER LINED HOSE



ECO-10		
11621X50NH	1½" x 50' NH	CPLD 1.5" NH
11622X50NH	1¾" x 50' NH	CPLD 1.5" NH
11623X50NH	2½" x 50' NH	CPLD 2.5" NH
11624X50NH	3" x 50' NH	CPLD 2.5" NH



## COMBAT READY DOUBLE JACKET ATTACK HOSE



COMBAT READY		
11625X50NH	1¾" x 50' NH	CPLD 1.5" NH
11626X50NH	2½" x 50' NH	CPLD 2.5" NH



## DURA-FLOW RUBBER COVERED ATTACK HOSE



DURA-FLOW		
11628X50NH	1" x 50' NH	CPLD 1" NH
11628X50NPSH	1" x 50' NPSH	CPLD 1" NPSH
11628X100NH	1" x 100' NH	CPLD 1" NH
11628X100NPSH	1" x 100' NPSH	CPLD 1" NPSH
11629X50NH	1½" x 50' NH	CPLD 1.5" NH
11630X50NH	1¾" x 50' NH	CPLD 1.5" NH
11631X50NH	2½" x 50' NH	CPLD 2.5" NH
11632X50NH	3" x 50' NH	CPLD 2.5" NH



## COMBAT SNIPER DOUBLE JACKET ATTACK HOSE



COMBAT SNIPER		
11627X50NH	1¾" x 50' NH	CPLD 1.5" NH





## PRO-FLOW

LARGE DIAMETER RUBBER COVERED SUPPLY HOSE



PRO-FLOW		
11633X50NH	4" x 50' NH	CPLD 4" NH
11634X50NH	5" x 50' NH	CPLD 5" NH
11635X50NH	6" x 50' NH	CPLD 6" NH



## PRO-FLOW HP

LARGE DIAMETER RUBBER COVERED SUPPLY HOSE



PRO-FLOW HP		
11636X50NH	4" x 50' NH	CPLD 4" NH
11637X50NH	5" x 50' NH	CPLD 5" NH



## TRU-ID

DOUBLE JACKET RUBBER LINED ATTACK HOSE



TRU-ID		
11638X50NH	1 3/4" x 50' NH	CPLD 1.5" NH
11639X50NH	2 1/2" x 50' NH	CPLD 2.5" NH



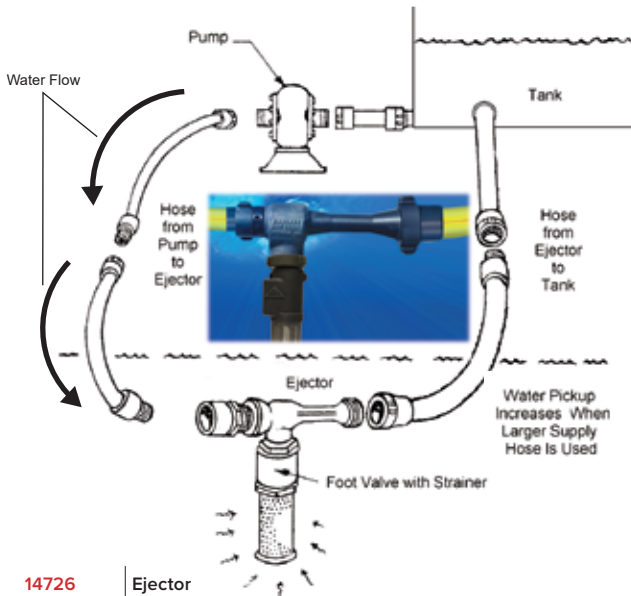
# HIGH PERFORMANCE EJECTORS

The Ejector is a valuable tool for obtaining additional water supplies from sources that would normally be difficult or impossible to reach. The Ejector will pick up more than twice as much water as is used to activate them. This allows water to be obtained from as much as 70 feet below the pumper or from sources several hundred feet from the pump.

Cascade's ejectors are made from cast aluminum and anodized for increased wear and corrosion resistance.



Attaching the suction port on the High Performance Ejector to a Foot Valve & Strainer (sold separately) is recommended to prevent the loss of prime and keep foreign objects from entering the water supply.



14726	Ejector
14726NH	Ejector
23952	Foot Valve and Strainer 1½"
14727	High Volume Ejector
23954	Foot Valve and Strainer 2½"

## APPLICATIONS

- Obtaining a water supply from distances up to 70 ft. below the pump
- Filling tanks from pools, creeks, etc., at long distances from the pump
- Removing water from basements



PERFORMANCE DATA FOR 14727				
INLET PRESSURE	INLET GPM	PICKUP GPM	DISCHARGE GPM	DISCHARGE IN FEET
100 PSI	76	133	209	25
140 PSI	88	133	221	35
180 PSI	100	133	233	60
200 PSI	107	133	240	70
PERFORMANCE DATA FOR 14726				
100 PSI	24	43	67	25
140 PSI	28	43	71	35
180 PSI	32	43	75	60
200 PSI	34	43	77	70

Wildland firefighters can draft water from a natural water source using suction or ejector drafting. Ejectors can draft water over longer distances and at lifts greater than 22 ft, well beyond the capability of suction drafting, extending the range of standard engines in wildland firefighting to obtain water sources normally classed as inaccessible. An ejector integrates a nozzle and a venturi, a narrowing of a piped waterway, to create suction that picks up additional water from a natural or portable water source.

# FOOT VALVES & STRAINERS

Cascade Fire Equipment manufactures foot valves and strainers in 1½", 2", 2½", and 3" threads. A full flow clapper valve assures maximum flows with no restriction. Adhered to the end of suction hose for drafting, the valve assures that the pump does not lose its prime and holds its prime once the pump is turned off.

- Manufactured from hard anodized aluminum
- Reinforced stainless steel screen



FOOT VALVES & STRAINERS		DIMENSIONS	WEIGHT
23952	Foot Valve & Strainer 1½" NH	7½" x 3½"	1.6 lbs.
23953	Foot Valve & Strainer 2" NPSH	8½" x 3½"	1.65 lbs.
23954	Foot Valve & Strainer 2½" NH	10" x 2½"	3.05 lbs.
23955	Foot Valve & Strainer 3" NH or NPSH	11 15/16" x 4½"	3.85 lbs.



## BARREL STRAINER

- Large capacity
- Available in 2½" - 6" with female base
- Rocker lugs standard and pin lugs optional
- Complies with NFPA 1901
- Conforms to MIL-S-12165B, Type 1
- All brass construction, chrome plated.
- Length: 8"
- Weight: 3½ lbs.(for the 2½" size)

10379	2½" Barrel Strainer
10380	3" Barrel Strainer
10381	4" Barrel Strainer
10382	4½" Barrel Strainer
10383	5" Barrel Strainer
10384	6" Barrel Strainer

## BASKET STRAINER

- Base made from high-strength aluminum alloy
- Lugs have holes for attaching a rope connection
- Basket is ¼" x ¼" zinc-plated steel mesh for high capacity intake

23943	2½" Basket Strainer
23944	3" Basket Strainer
23945	3½" Basket Strainer
23946	4" Basket Strainer
23947	4½" Basket Strainer
23948	5" Basket Strainer
23949	6" Basket Strainer

## GRAVITY SOCK

The Gravity Sock is used to capture water from a stream or spring above the fire. The Sock is secured by stakes, rocks or rope at the water source and a hose line is attached. The gathering point should be at least 100 feet above the fire. The Sock is 9" in diameter and 42" long with a 1½" male coupling. Constructed of heavy duty treated canvas duck.



11156 | Gravity Sock 1½" NH

# BOOSTER HOSE



## LIGHT BOOSTER HOSE

- Lightweight and compact booster hose
- Extremely strong and durable Dura-Thane™ polyurethane inner liner
- 100% polyester woven jacket construction is a fine weave that resists abrasion and snagging
- High visibility Red Ultra-Shield™ polyurethane coating
- Available in 50 or 100 feet with NH or NPSH threads
- Acceptance test: 600 PSI
- Service test: 300 PSI
- Weight: 15 lbs. for 100' uncoupled

	LGT	ID
11676-50	50'	1"
11676-100	100'	1"

Coupled with re-attachable, field-replaceable couplings.

## BOOSTER HOSE COUPLINGS

- For use on high pressure booster hose
- Heavy duty and reusable
- Made from lightweight aluminum with anodized finish

	HOSE SIZE	HOSE BOWL
11659	¾"	1¼"
11644	¾"	1¼"
11647	1"	1¼"
11648	1"	1½"
11649	1"	1¾"
11650	1"	1⅞"

When ordering couplings, the hose bowl size is very important; a tolerance of 1/32" is allowed.

Specify thread type: NH or NPSH



Booster hose couplings



## MEDIUM PRESSURE BOOSTER HOSE

- Ideal for use on pumps where the pressure will not exceed 300 PSI
- Hose has a smooth, tough red cover that is abrasion and weather resistant
- Flexible enough to be used on hose reels
- Working pressure is 300 PSI
- 1" NH or NPSH

	LGT	ID	WGT/LENGTH
11570-50	50'	¾"	21 lb
11570-100	100'	¾"	41 lb
11571-50	50'	1"	31 lb
11571-100	100'	1"	61 lb

Bar-way couplings are standard. Sold with or without couplings in 50' and 100' lengths.

## FORESTRY HOSE COUPLINGS

- Extruded aluminum, hard anodized finish couplings
- Meet U.S.F.S. Spec 5100-108
- There are two Rocker Lugs on the female swivel only
- Furnished with expansion rings and gaskets
- There are two hose bowl sizes for the 1" coupling
- NH or NPSH

	HOSE SIZE	HOSE BOWL
11600	1"	1¼"
11601	1½"	1¾"

## LIGHTWEIGHT BOOSTER HOSE COUPLINGS

- Reattachable in the field; requires only an Allen wrench to assemble or disassemble

	THREAD TYPE
11676	NH OR NPSH



## HIGH PRESSURE BOOSTER HOSE

- The finest lightweight Booster Hose that will safely handle pressures to 800 PSI
- Flexible and ideal for hose reel use
- Two-braid super strength reinforced hose will withstand rugged flexing and surge loads
- Compounded to withstand weathering and abrasion in severe fire service
- Working pressure is 800 PSI
- 1" NH or NPSH

	LGT	ID	WGT/LENGTH
11573-50	50'	¾"	19 lb
11573-100	100'	¾"	37 lb
11574-50	50'	1"	29 lb
11574-100	100'	1"	56 lb

Bar-way couplings are standard. Sold with or without couplings in 50' and 100' lengths.



Forestry hose couplings



Custom laser markings are available on couplings, nozzles and more!



**RED HEAD**  
BRASS, LLC

# HOSE TESTER



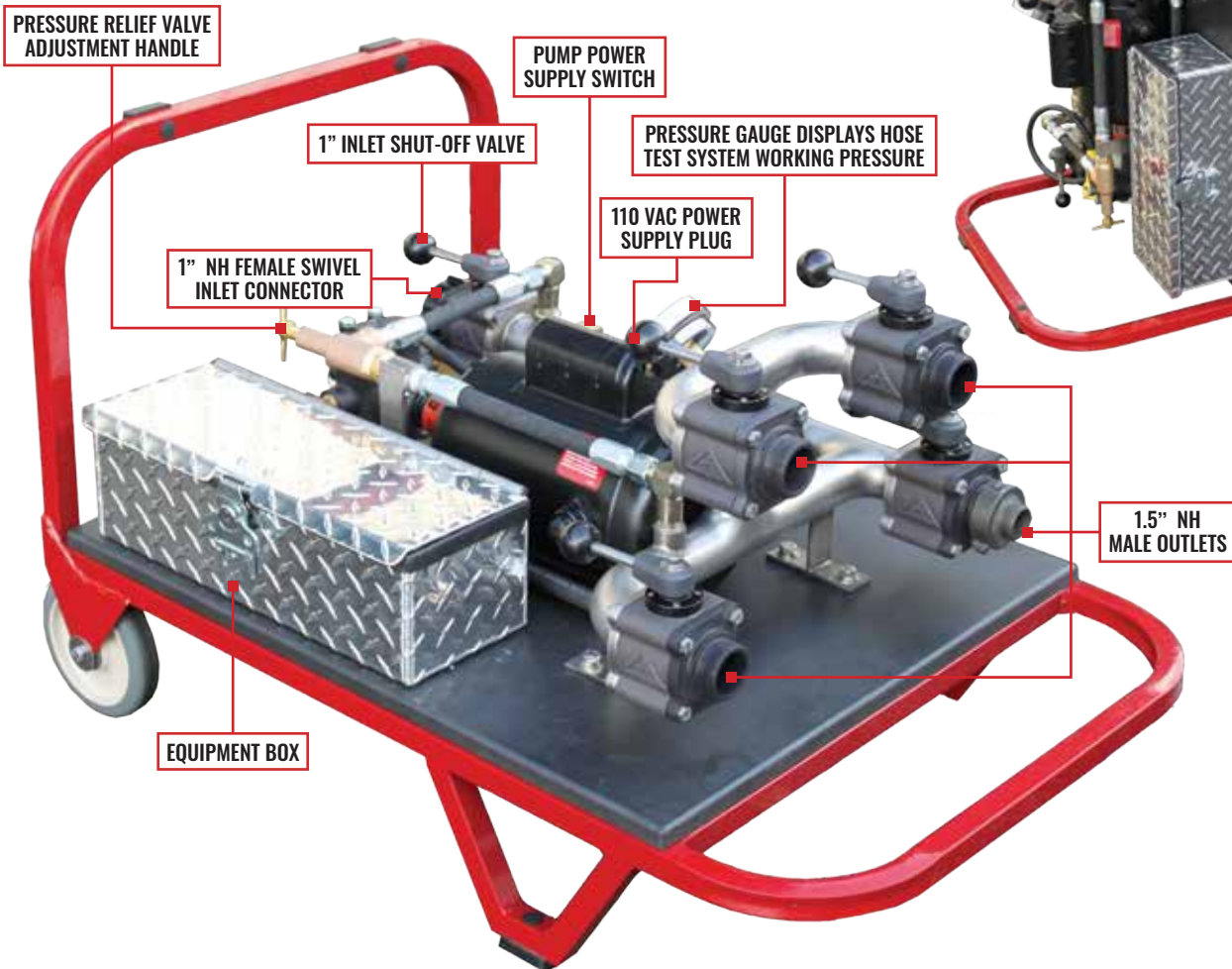
Quickly and safely test large quantities of hose. Hose testing is recommended after extensive use, for acceptance tests, annual maintenance, or after repairs. The Cascade Fire Hose Test Pump is designed to quickly and safely test large quantities of hose to standards set forth by the National Fire Protection Association (NFPA) and the Rubber Manufacturer's Association (RMA). Cascade Test Pumps are built for professional service use by engineers, inspectors, testing laboratories, forestry agencies and fire departments where accuracy is imperative.

- Four independently valved 1½" NST discharges
- Inline 1½" valve for static testing of hose and tester
- Test up to 4 lines simultaneously
- Use reducers or increasers to test hoses from 1" to 6"
- Regulating Valve allows pressure adjustments up to 500 PSI
- Silicon-filled Gauge permits easy reading of pressure setting
- Stainless steel manifold and fasteners with aluminum valves
- Baked powder coat finish
- GFCI
- Equipment box
- Convenient dolly style with wheels

SPECIFICATIONS	
<b>DIMENSIONS</b>	24½" x 39" x 24"
<b>WEIGHT</b>	135 lbs.
<b>MOTOR</b>	1 HP, Heavy Duty 115 V Repulsion-Induction Type, Fully Enclosed and Fan Cooled
<b>PUMP</b>	High Pressure Twin Piston, Delivers 3 GPM at 500 PSI
<b>VALVES</b>	Aluminum Cascade Valves
<b>MANIFOLD</b>	Stainless Steel, 1000 PSI Test
<b>GAUGE</b>	0-600 PSI Liquid Filled
<b>FRAME</b>	Mild Steel with Baked Powder Coat finish

11500 | Hose Tester

CONVENIENT DOLLY STYLE FOR EASY TRANSPORT AND STORAGE



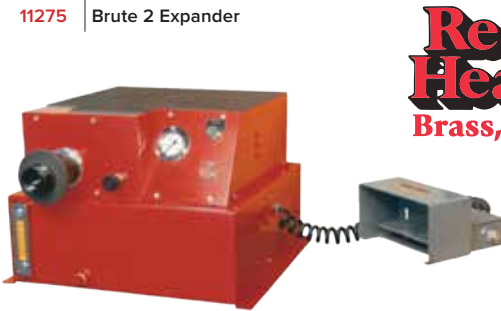
# HOSE COUPLING EQUIPMENT

## BRUTE 2 POWER EXPANDER

The Brute 2 Power Expander is a bench model electric hydraulic expander designed for hose manufacturers, higher volume distributors and fire departments.

- Attach 1" through 6" couplings
- 3,000 lb. pump – 2,500 lb. workable
- 3450 RPM Motor
- 1½ HP, single phase, 220 volt
- Foot-pedal control
- Cylinder – 6" stroke, 4" bore
- Total thrust – 38,000 lb.
- Oil capacity – 9.5 gallons
- Manual set external pressure relief valve
- Size: 22" Wx22" Dx16" H
- Weight: 400 lbs.

11275 | Brute 2 Expander



**Red  
Head**  
Brass, LLC

## BRUTE X-PANDER

The compact hand pump Brute X-pander makes every attachment a snug, uniform, secure fit, assuring a safe hose and coupling assembly. Designed for forestry services, fire departments, small distributors, ski areas. All-in-one design means fewer parts and no hydraulic connections.

In-house use or mounted in a service van for field repairs.

- Attach 1" through 3" couplings
- Size: 13" Wx17" Dx10" H
- Weight: 45 lbs.

10298 | Brute X-Pander



## EXPANSION UNITS

Complete Expansion Units for attaching 1" through 6" couplings.



UNIT	
11287	1" w/Drawbar
11288	1½" w/Drawbar
11289	1¾" w/Drawbar
11290	2" w/Drawbar
11291	2½" w/Drawbar
11292	3 x 2½" w/Drawbar
11293*	3" Unit w/o Drawbar
11294	3½" Unit w/o Drawbar
11295**	4" Unit w/o Drawbar
11296**	4½" Unit w/o Drawbar
11297**	5" Unit w/o Drawbar
11298**	6" Unit w/o Drawbar

\*Uses 2½" Drawbar \*\* Uses 3½" Drawbar

## EXPANSION RINGS

Made from 85/15 red brass for maximum expansion without breaking. Rounded edges reduce damage to hose.



	O.D.	LGTH	THICKNESS
11310	1"	7/8"	.050
11311	1"	1"	.050
11312	1	1¼"	.050
11313	1½"	7/8"	.050
11314	1½"	1"	.050
11315	1½"	1¼"	.050
11317	1¾"	1¼"	.050
11318	2"	1½"	.062
11319	2½"	1½"	.062
11320	3"	2"	.092
11321	3½"	2"	.092
11322	4"	2"	.092
11323	4½"	2"	.092
11324	5"	2"	.092
11325	6"	2"	.092

## RING EXTRACTOR

This handy tool makes the removal of expansion rings easy. Wedge the points of the Extractor between the coupling and the ring. Then lift the handle up and the ring pops out.

- Cadmium-plated tempered steel
- Handles rings up to 6" O.D.
- 12½" long



10305 | Ring Extractor

## INSTALLATION KIT

Couples Bar-Way ¾" and 1" brass couplings with hole-type lug.

- Kit includes aluminum clamp, key, wrench and a half-pint of bar lube



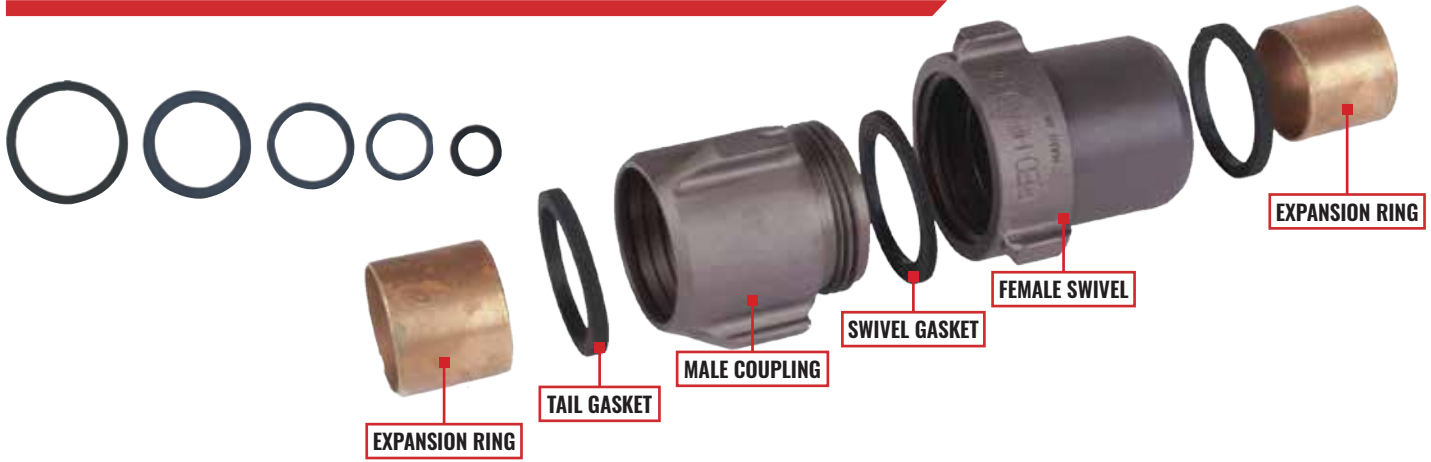
11637 | Tool Kit ¾"

11638 | Tool Kit 1"





# HOSE COUPLINGS



## HOSE GASKETS

There are two types of Gaskets; Swivel Gaskets, which are placed in the female end of a hose coupling and Tail Gaskets that are used at the base of the hose bowl to prevent leaking.

TAIL GASKETS	I.D.	O.D.	THICKNESS	
12112	1" SJ	1 1/32"	1 9/16"	3/16"
12113	1" DJ	1 1/16"	1 9/16"	3/16"
12114	1 1/2" SJ	1 9/16"	1 29/32"	3/16"
12115	1 1/2" Thin Wall DJ	25 1/32"	2 3/32"	3/16"
12116	1 1/2" DJ	1 9/16"	2 1/32"	3 3/16"
12117	1 1/2" Rack Hose	1 9/16"	1 27/32"	3/16"
12119	1 3/4" Thin Wall DJ	1 7/8"	2 5/16"	3/16"
12120	1 3/4" DJ	1 27/32"	2 5/16"	3/16"
12122	2" DJ	2 3/32"	2 5/8"	3/16"
12123	2 1/2" SJ	2 9/16"	3 1/32"	1/4"
12124	2 1/2" Thin Wall DJ	2 13/16"	3 5/32"	1/4"
12125	2 1/2" DJ	2 9/16"	3 5/32"	1/4"
12126	3" SJ Tail	3 1/16"	3 7/16"	1/4"
12128	3" Thin Wall DJ	3 9/32"	3 25/32"	1/8"
12129	3" DJ Tail	3 1/8"	3 25/32"	3/16"
12132	3 1/2" DJ, 4 1/16" Bowl	3 19/32"	4 13/32"	1/4"
12133	4" SJ	4 3/5"	4 9/16"	1/4"
12134	4" DJ	Specify Bowl Size		
12135	4 1/2" DJ	Specify Bowl Size		
12136	5" DJ	Specify Bowl Size		
12137	6" DJ	Specify Bowl Size		

SWIVEL GASKETS	I.D.	O.D.	THICKNESS	
12100	3/4" GHT	3/4"	1 1/16"	1/8"
12101-1	1" Booster for 3/4" hose	25/32"	1 7/16"	1/8"
12101	1" Booster for 1" hose	31/32"	1 7/16"	1/8"
12102	1"	1 1/32"	1 7/16"	1/8"
12103	1"	1 37/64"	2 1/16"	1/8"
12104	2"	2 1/16"	2 5/8"	1/8"
12105	2 1/2"	2 1/2"	3 7/32"	3/16"
12106	3"	3 1/8"	3 25/32"	1/4"
12107	3 1/2"	3 1/32"	4 13/32"	1/4"
12108	4"	4 3/32"	5 5/32"	1/4"
12109	4 1/2"	4 19/32"	5 29/32"	1/4"
12110	5"	5 3/32"	6 13/32"	1/4"
12111	6"	6 3/32"	7 5/32"	1/4"

## STORZ GASKETS

11590	Pressure Gasket, 4"
11592	Pressure Gasket, 5"
11593	Suction Gasket, 4"
11594	Suction Gasket, 5"



# HOSE CUTTER



Cascade Fire Equipment's one of a kind hose cutter is machined to precision and built to fire industry standards. Easy and safe to use, Cascade's Hose Cutter makes clean, straight cuts for secure and effective coupling of hose. If your department routinely couples hose, the hose cutter is essential equipment for the station.

- Heavy duty aluminum construction
- Powder coated for a tough, hard finish
- Ratchet handle raises and lowers steel blade
- Adjustable vise cuts hose up to 6"
- Hand grips for easy transporting
- Manufactured in the USA



11300 | Hose Cutter

# SPANNERS, WRENCHES, & CLAMPS

## CASCADE'S HYDRANT WRENCH

- Tough manganese bronze head
- Plated steel handle
- High-visibility grip
- Works with both a pin and rocker lug
- Lifetime warranty
- WEIGHT: 5 lbs.



10313 | Hydrant Wrench



## HYDRANT WRENCH & SPANNER HOLDER

- Mounts on apparatus for easy accessibility
- Quick, snap action release
- Holds two 10320 Universal Spanners and one 10313 Hydrant Wrench
- WEIGHT: 8.25 lbs. (with wrench & spanners), 1.5 lbs. (without)



10322W/S | Holder w/Spanners & Hydrant Wrench  
10322WO/S | Holder wo/Spanners & Hydrant Wrench



Available with or without wrenches.

## BOOSTER HOSE SPANNER

- Spanner designed for 3/4" and 1" pin hole type couplings
- Made of lightweight Al-Mag 35 Alloy
- LENGTH: 7 1/2"
- WEIGHT: 3 oz.

10311 | Booster Hose Spanner



## UNIVERSAL SPANNER

- Universal Spanner is for any style or size coupling from 1/4" to 4"
- Made of tough lightweight aluminum
- Includes window jimmy, gas cock slot, hammer head and hanger loop
- LENGTH: 12 1/4"
- WEIGHT: 8 oz.

10320 | Universal Spanner



## SPANNER WRENCH HOLDER

- Mounts on apparatus for easy accessibility
- Quick, snap action release
- Holds two 10320 Universal Spanners
- WEIGHT: 2 lbs. (with spanners), 1.25 lbs. (without)

10323W/S | Holder w/Spanners  
10323WO/S | Holder wo/Spanners



Available with or without wrenches.

## HYDRANT SPANNER WRENCH

- Made of lightweight aluminum
- Can be used on both rocker (up to 5") and pin lugs
- Size under 9" and fits into most turnout jacket pockets
- Pentagon will receive 1 1/4" hydrants
- WEIGHT: 8 oz.

10312 | Hydrant Spanner Wrench



## FOLDING SPANNER

- Folding Spanner with spanner head at one end and a window jimmy at the other
- Available in cast brass or lightweight aluminum
- WEIGHT: 1 lb. (Brass), 6 oz. (Aluminum)

10309 | Brass Folding Spanner

10310 | Aluminum Folding Spanner



## STORZ SPANNER WRENCH HOLDER

- Easily disconnect/connect Storz couplings
- Lightweight material
- Bracket set comes complete with four stamped steel Storz wrenches
- Individual wrenches and the bracket alone may be purchased separately
- Made in USA

11595 | 4 Wrenches in Bracket

11596 | Single Wrench Only

11597 | Bracket Only



## FORESTRY SPANNERS

- Used on rocker lug fittings
- Made of cast aluminum
- #11201 fits 1" and 1 1/2" couplings
- #11202 Combination Spanner fits 1" - 2 1/2" rocker lug couplings
- WEIGHT: 2.5 oz. (Forestry), 8 oz. (Combo)

11201 | Forestry Spanner

11202 | Combo Spanner



## FORESTRY HOSE CLAMP

- Lightweight Hose Clamp
- Easily shut off 1" or 1½" single jacketed fire hose at pressures up to 200 PSI
- A spanner is an integral part of the clamp
- Made from a tough, aluminum alloy
- LENGTH: 10"
- WEIGHT: 10 oz.

11213 | Forestry Hose Clamp



## HOSE CLAMP HOLDER

- Made for the Forestry Hose Clamp (11213)
- Made from durable polyurethane webbing
- Attaches to your equipment belt or web gear with heavy duty snaps
- Velcro strap holds the clamp tight

11212 | Hose Clamp Holder



## HEBERT HOSE CLAMP

The Hebert Hose Clamp has long been the standard of the Fire Service. These are great time and labor savers when it is necessary to shut off a hose line. Simple and easy to operate and will not damage the hose. One side is hinged, the other is a spring controlled positive lever lock.

- 11214 handles hose up to 2½"
- 11215 is capable of shutting off hose up to 6" in diameter

11214 | 2.5" Capacity Hose Clamp

11215 | 6" Capacity Hose Clamp

11216 | Running Board Bracket for 11214

11217 | Running Board Bracket for 11215



## RES-Q-RENCH

- Works with rocker lug handline, supply line, 4" and 5" Storz locking couplings
- Pries open windows
- Props open doors
- Integrated carbide tip window punch
- Integrated residential gas valve shut-off

10307 | Res-Q-Rench



## UNIVERSAL FOAM WRENCH

The Universal Foam Wrench has a raised handle which allows full 360° rotation without skinning your knuckles. This economically priced, lightweight, high-strength aluminum wrench will open most foam containers.

- WEIGHT: 0.3 lbs.

10319 | Foam Wrench



## HYDRANT HOSE TOOL BAG

Easily access your equipment for hooking up hose to hydrant with Cascade's Hydrant Hose Tool Bag. Sewn to Cascade's highest quality standards, this tool bag is guaranteed to withstand the toughest conditions.

- Tool bag fits over 4", 5", and 6" hose
- Held in place with 4 2" wide elastic straps
- Made from tough Cordura®
- Self-fastening flap cover protects the heavy-duty zipper
- Padded for extra protection

50176 | Hydrant Hose Tool Bag



## HYDRANT TOOL BAG

Cascade's Hydrant Tool Bag holds all the necessary equipment for hooking up hose to hydrants.

- Made of tough Cordura
- Large polypropylene handle for ease of carrying
- Brass grommet on bottom for drainage
- 16" high x 10.5" diameter

50175 | Hydrant Tool Bag



# HOSE STORAGE RACK



Our large-capacity **HOSE STORAGE RACK** eliminates most of the drudgery of handling hose in the fire house. The rack is constructed from heavy strength aluminum square tube and the entire storage system is protected by a thick powder coat finish. Heavy-duty industrial casters, equipped with locking brakes, allow for easy movement of the rack, even when fully loaded.

For a complete hose handling and storage solution, add an optional **HOSE ROLLER**. The Hose Roller can be mounted on Cascade's Hose Storage Rack with a hose roller bracket.

- Three-tiered rack to provide maximum capacity
- Holds up to 48 rolls of 2½" hose or 20 rolls of 5" hose, plus 24 rolls of 1½" hose
- Spacious lower tier designed to accommodate large-diameter hose
- Large casters for ease of movement, plus brakes on all casters for secure positioning
- High strength 2x4 aluminum cross beams
- Thick powder-coated finish increasing strength and leaving no rough edges
- **DIMENSIONS:** 78"(L)x91"(H) and 36"(W)
- **WEIGHT:** 170 lbs.

10245 | Hose Storage Rack



Neatly and efficiently  
organize your hose!



## HOSE RACK BRACKETS

**HOSE RACK BRACKETS** allow well ventilated and accessible hose storage in a limited space at a low cost. The brackets are bolted to pipe supports, which have been secured to the floor and ceiling with pipe flanges. Once secured, 2" x 6" stringers are bolted to the brackets and the hose storage racks are ready to use.

- Made from lightweight, high strength aluminum
- Available for either 1½" or 2" pipe
- The 2" size is recommended for 4" or 5" hose

10254 | Hose Rack Bracket 1½"

10255 | Hose Rack Bracket 2"



## RUBBER HOSE BANDS

Easily secure rolls of hose with these big Rubber Bands! Easily applied and quickly removed Hose Bands reduce time and labor involved with handling and storing hose. Under normal usage conditions, these strong and versatile bands can be reused many times before replacement is required due to cut or tears that would affect their performance.

- Stretch 100-150% of their relaxed length
- Ozone, weather, and temperature resistant
- Available in a bag of 65 hose bands

13500 | Bag of 65 Hose Bands



# HOSE ROLLER

CASCADE'S HOSE ROLLER was designed after the popular Western Fire Hose Roller. It is a sturdy, yet lightweight Hose Roller that has been designed to roll single or double rolls of 1" to 3" hose. Whichever length or size of hose, you can be sure that the rolls will be neat and compact.

The hose roller is ideally suited for rolling hose at the station or warehouse after hose has been washed. Mounting options include a Quick Mount Bracket (standard) for mounting the roller on a wall or work bench and a Trailer Hitch Bracket for mounting on a vehicle (part #14044). The Hose Roller can also be mounted on Cascade's Hose Storage Rack with hose roller bracket (Part #10246).

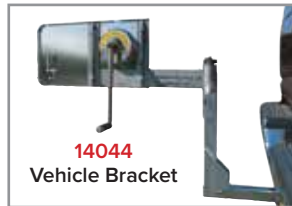
- Rolls 1" to 3" hose in double or single rolls
- Roll 100' lengths of 1" or 1½" hose into a side-by-side double donut
- Constructed from lightweight aluminum that has been powder coated for extra protection
- Bronze oilite self-lubricating bearing
- Swings to three positions on bracket
- One person operation
- DIMENSIONS: 32"L x 39"H x 11½" W
- WEIGHT: 21 lbs.



14042



14043  
Quick Mount Bracket



14044  
Vehicle Bracket



10246  
Storage Rack Hose Roller Bracket

14042	Hose Roller with Quick Mount Bracket
14043	Quick Mount Bracket only
14044	Vehicle Bracket
10246	Hose Roller Bracket Only w/bolts

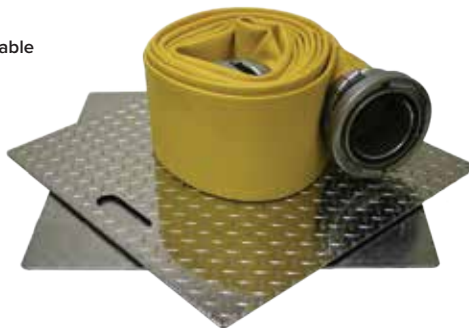


## LDH TURNTABLE

Cascade's LDH TURNTABLE is for loading large diameter hose onto fire trucks. Made of lightweight diamondplate, the turntable features a Lazy Susan swivel and slotted handle for carrying. Low profile design makes it easy to store.

- DIMENSIONS: 24" x 26"

14046 | Cascade's LDH Turntable



## IZONE HOSE HOOKS

IZONE HOOKS allow you to quickly store hose before moving to a new location. Made from aluminum and stainless steel. A pin allows hook to be locked in position when being used and in either direction when not being used.

- Includes a backing plate and four bolts
- Weight limit is 400 lbs.

14300 | iZone Hose Hooks (pair)



# MONITORS

## FORESTRY MONITOR

Ideal for brush and wildland firefighting, Akron's **FORESTRY MONITOR** is a durable, water sealed electric monitor with high speed motors for accurate positioning and proportional speed control. A variety of nozzle options are available for optimal performance with water, foam and CAFS applications.

- CAN proportional speed joystick control
- Lightweight Pyrolite construction, 23 lbs. without nozzle
- Integrated and sealed electronics
- Waterproof (IP 67 rated) locking connectors
- Simple "plug and play" installation
- 320° maximum rotation range with stops at ± 90°
- 135° maximum elevation range with stops at ± 45° and -20°

3462	12V or 24V Monitor w/ harness, nozzle, CAN proportional joystick with 20' harness
OPTION	2" NPT Quick Disconnect
OPTION	Wireless remote control (CAN Interface)
OPTION	2" Electric Valve (P1SxP1S) with 10' harness

### NOZZLE OPTIONS

- 12V or 24V Low Flow adjustable electric fog nozzle with flush 30-60-95-125 gpm (Fixed 60, 95, 125, 150, 175, 200)
- 12V or 24V Mid Flow adjustable electric fog nozzle 125-175-250-300 gpm (Fixed 250, 300)
- Quick Attack foam tube attachments for Style 3293 fog nozzles
- Smooth bore tips



## BLITZFORCE PORTABLE MONITOR

The **BLITZFORCE** is an innovative, lightweight, and highly versatile portable attack monitor. Rated up to 500gpm, BlitzForce integrates a low loss waterway with positive locking valve control. With an integral stream shaper for superior reach and penetration performance, the BlitzForce delivers.

- **WEIGHT:** 14.5 lbs.
- **DIMENSIONS:** stored-19" x 9" x 12", deployed-26" wide
- Full flow 2" waterway provides 500 gpm initial attack flows with only 9psi loss
- 20° side to side (40° total), 20° to 60° up and down range of stream motion
- Choice of a fixed gallonage 500gpm @ 100psi combination nozzle, or triple stacked tips (1", 1¼", and 1½") with laser engraved flow charts
- Made from hard coat anodized aluminum alloy, stainless steel, powder coated
- Folding aluminum alloy legs with replaceable carbide tips
- High strength tie-down strap
- 5 Year Warranty

XXLG-32	Monitor, ZN Combination Nozzle, Storage Bracket
XXLG-42	Monitor, Stacked Tips, Storage Bracket



# WILDLAND MONITOR

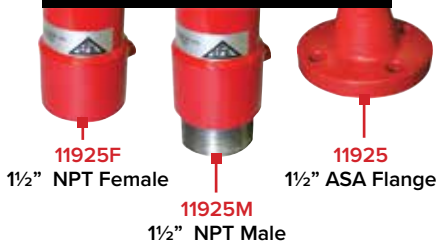
Cascade's **WILDLAND MONITOR** is designed specifically for water tankers and pumpers where discharges of 350 GPM or less are required. It is an ideal monitor for discharging water or Class "A" foams in wildland firefighting. The discharge threads can be used with a variety of nozzles and the monitor comes with a choice of 4 base options.

The truck-mount style monitor is designed to be bolted directly to your vehicle body and is supplied with water through a 1½" hose line. Can be removed from the base when not in use.

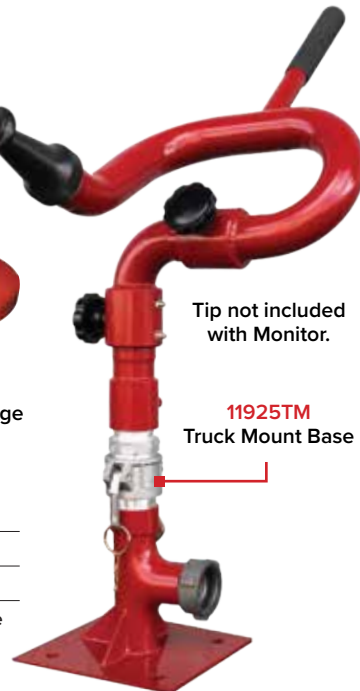
- 360° horizontal travel and 140° of vertical movement
- Secure the monitor in any position with locking knobs
- 1½" waterway is epoxy coated both inside and out to protect from corrosion and wear
- Discharge threads are 1½" NH male thread
- WEIGHT: 20 lbs.
- DIMENSIONS: 18" high x 11" wide



## BASE OPTIONS



11925	Monitor with 1½" ASA Flange
11925F	Monitor with 1½" NPT Female
11925M	Monitor with 1½" NPT Male
11925TM	Monitor with Truck Mount Base



Tip not included with Monitor.

11925TM  
Truck Mount Base

# BRUSHHAWK MONITOR

- WEIGHT: 13.5 lbs. (6.1 kg)
- Stow Height 11.2" (285 mm)
- Swing Radius 6.9" (175 mm)
- Voltage 12 or 24VDC compatible
- Material/Finish Elk-O-Lite with red urethane enamel
- Max Pressure 200 PSI (14 Bar)
- Max Flow 500 GPM (2000 LPM)
- Inlet 1.5" or 2.0" NPT Female; Outlet 1.5" NHT Male
- Travel (Field Selectable) 350° Horizontal (Left 175°/Right 175°) and 120° vertical (-30°/+90°), 180° Horizontal (Left 90°/Right 90°) and 120° vertical (-30°/+90°), 180° Horizontal (Left 90°/Right 90°) and 90° vertical (-45°/+45°)

8495-01 | BrushHawk Monitor



**ELKHART BRASS**  
FIRE FIGHTING EQUIPMENT A SAFE FLEET BRAND



Optional Valve Kit



Joystick

# VFLOW VIBRATING FLOW INDICATOR

The **vFlow** makes a distinct vibration that is felt by the hose crew when their charged line achieves a predetermined minimum target fire flow. The field adjustable set point is easily changed to meet your operational standards and is factory set at 150 gpm (570 l/min).

The vFlow can be used with all types of handheld nozzles; automatic, selectable flow, fixed orifice, or smooth bore. It can be installed directly behind the nozzle, or behind a two foot length of hose when used with smooth bore and low pressure nozzles.

- Easily set to specific operational fire flows
- Water powered turbine means no electronics, or batteries and generally no maintenance
- Rugged hardcoat anodized aluminum with reflective labeling
- Additional threads available upon request

The vFlow is intended for handheld use in a hose line with water or solutions of water and foam concentrate. It is not intended for compressed air foam, or other liquids.



**PLEASE CONTACT US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION**

VF1200E	VF1200M	INLET	OUTLET
Labeled with adjustable flow set pts. of: 95, 125, 150 or 175gpm	Labeled with adjustable flow set pts. of: 360, 470, 570, or 660 l/min	1½" NH Female	1½" NH Male

# PIERCING NOZZLES



TFT The New Force in Firefighting

## TRANSFORMER

TFT's Transformer Piercing Nozzle is designed to deliver water or foam solutions to areas inaccessible to the firefighter. A series of jets near the point apply a wide reaching pattern at a rated flow of 150gpm at 100psi.

The PA1 system includes a unique twist-grip shutoff valve, a 3 port junction block with striking head, two 19" extension tubes, and a 14" flow tube with piercing point. The junction block allow the nozzle to be configured to short, medium, long and L-shaped combinations. The PA2 system includes the same components plus a pistol grip, a distribution nozzle rated at 150 gpm that provides a wide fully filled pattern, and an adapter allowing the nozzle to be used on any 1/2" NH threaded hoseline.

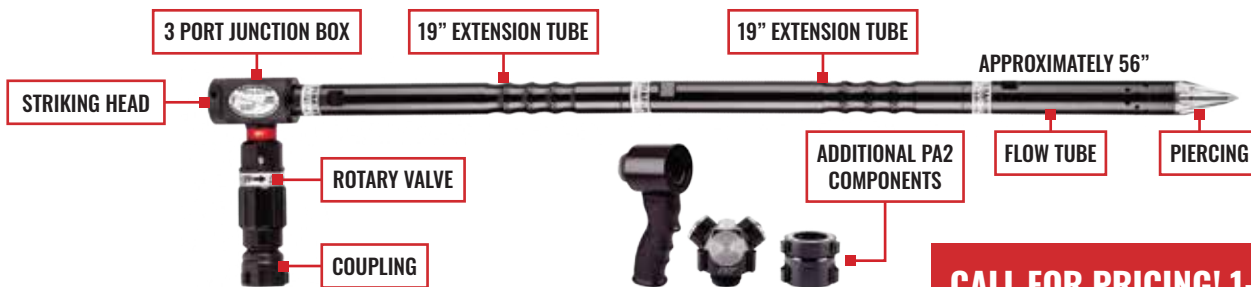
- 1/2" NH Female Inlet
- Hardened steel piercing point
- Extension tubes and valve constructed of hard coated extruded aluminum
- Includes compartmentalized nylon carrying bag

**PA1** Includes 2 - 19" Extension tubes, 1 - 14" Flow Tube w/Piercing Point, Twist-Grip shutoff valve, 3 Port Junction Block, Nylon Carry Bag

**PA2** Includes 2 - 19" Extension tubes, 1 - 14" Flow Tube w/Piercing Point, Twist-Grip Shutoff Valve, Pistol Grip, 3 Port Junction Block, Distribution Nozzle, Adapter, Nylon Carry Bag



Includes a sturdy nylon carrying bag with compartments for each component.



**CALL FOR PRICING! 1-800-654-7049**

## CHIMNEY SNUFFER

The CHIMNEY SNUFFER quickly and safely suppresses chimney fires using an ultrafine spray, greatly reducing potential water damage. The durable 5 pound nozzle head is simply operated by a single firefighter and easily breaks through potential blockages within the chimney.

Eight strategically placed nozzles provide 40 gallons per hour at 60 psi (4 bar), allowing the Chimney Snuffer to be supplied by an attack line, 1" line, or even a garden hose. The entire package weighs less than 15 pounds (6.8 kg) and is easily stored in an apparatus compartment.

- Compact, lightweight and simple to deploy
- Ideal for use in all types of chimney liners (metal, masonry, ceramic)
- Head easily breaks through creosote buildup, nests or other debris

**A3830** Nozzle Head, Rubber Hose, 1" Ball Shutoff, 1/2"x1" Adapter, 3/4" Garden Hose Adapter

**A3831** Nozzle Head, and 3/4" Garden Hose Adapter



THE CHIMNEY SNUFFER

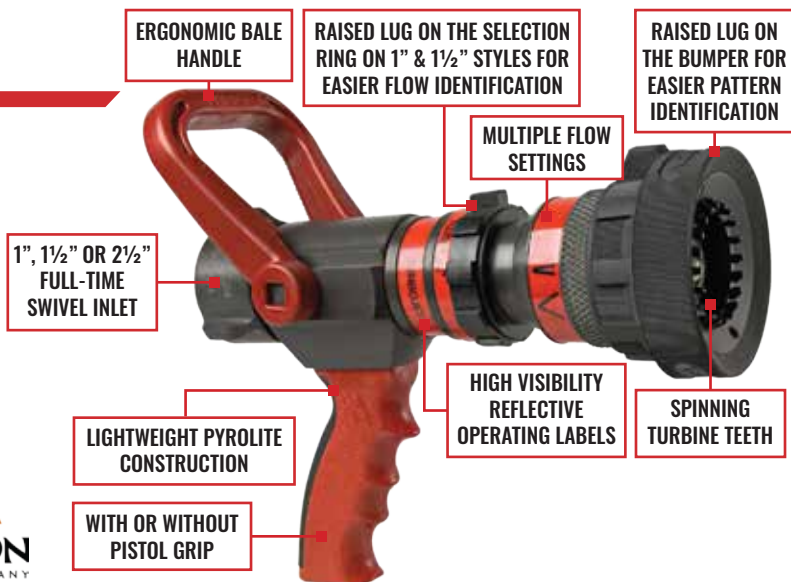


# AKRON® NOZZLES

## AKRON® TURBOJET®

The Akron® adjustable gallonage Turbojet nozzle is unmatched in today's fire service for its flexibility and flow control. The Turbojet is a constant gallonage nozzle (flow remains the same in all patterns) with multiple flow settings for operator flow control. Use the Turbojet one time and it is easy to see why it's the nozzle of choice by firefighters worldwide. Once you get behind a Turbojet®, you won't settle for anything less!

- Flush without changing pattern or shutting down
- Reduced rotation from Fog to Straight Stream
- Computer Engineered Waterway
- Baffles Etched with Pressure PSI & bar



	NOZZLE	GPM	LGT	WGT
10701	1"	13-25-40-60	9¾"	3.56 lb.
10702	1" w/Pistol Grip	13-25-40-60	9¾"	4.125 lb.
10715	1½"	30-60-95-125	9½"	3.56 lb.
10720	1½" w/Pistol Grip	30-60-95-125	9¾"	4.125 lb.
10725	2½"	125-150-200-250	9"	6.25 lb.
10730	2½" w/Pistol Grip	125-150-200-250	14"	10 lb.

## AKRON® AVENGER

The AVENGER series of handline nozzles are lightweight fog and straight stream nozzles with multiple fixed or constant gallonage settings. The Avenger is easy to operate and provides great stream performance.

Styles 10615 and 10616, AVENGER SG, is a selectable or constant gallonage nozzle (flow remains the same in all patterns) with various flow settings for frontline flow control.

Styles 40115 and 40116, AVENGER FG, is a fixed or single gallonage nozzle offering a variety of pressures with the simplicity of a fixed orifice.

- Raised lug on the Bumper of all styles for easier pattern identification
- Multiple pattern detents
- Integrated control ring does not require you to flush the nozzle without shutting down
- Quick change pattern adjustment (90° of rotation from Straight Stream to Full Fog)
- NFPA Compliant
- 5 Year Warranty



### AVENGER FG PRESSURE & FLOW OPTIONS

NOZZLE	PSI	60 @ 75	60 @ 100	95 @ 75	95 @ 100	125 @ 75	125 @ 100	150 @ 75	150 @ 100
50	49	42	78	67	105	88	122	106	
75	60	52	95	82	125	108	150	130	
100	69	60	110	95	144	125	173	150	

	NOZZLE	L	WT	GPM
10615	1½" SG nozzle	10½"	4.3 lbs	30-60-95-125-150
10616	1½" SG w/Pistol Grip	10½"	4.3 lbs	30-60-95-125-150
40115	1½" FG nozzle	10½"	4 lbs	see right
40116	1½" FG w/Pistol Grip	10½"	4 lbs	see right

# G-FORCE NOZZLES

Based on a highly customizable global nozzle platform design, the unique G-Force series of fixed, selectable, and automatic nozzles deliver high performance and rugged dependability in a low cost package. G-Force nozzles have a lightweight hard anodized aluminum alloy body and a stainless steel slide valve for turbulence free performance. TFT's next generation firefighting tools are NFPA 1964 compliant, FM approved, and are manufactured exclusively in the USA.



**TFT** The New Force in Firefighting



Rugged Color Coded Valve Handle and Pistol Grip

To configure part number, fill in the X's with the number or letter next to your choice of Valve Type, Flow & Pressure, and Fog Teeth.

VALVE TYPE      FOG TEETH  
**GFXX1X**  
 PRESSURE CONTROL

## VALVE STYLES

- 2** One Piece Nozzle with Slide Valve
- 3** One Piece Nozzle with Slide Valve and Pistol Grip
- 5** Two Piece Nozzle with Tip-Only and Ball Valve Shutoff
- 6** Two Piece Nozzle with Tip-Only and Ball Valve Shutoff with Pistol Grip



## FLOW & PRESSURE

- A** Fixed 150gpm@100psi
- B** Fixed 150gpm@75psi
- C** Selectable 30/60/95/125/150gpm@100psi
- D** Selectable 30/60/95/125/150gpm@75psi
- E** Automatic 60-150gpm@100psi
- F** Automatic 60-150gpm@75psi



## FOG TEETH

- S** Stainless Steel Spinning Teeth
- M** Fixed Molded Rubber
- F** Fixed Cut Metal



**CALL FOR PRICING! 1-800-654-7049**

# FLIPTIP NOZZLES



An ideal choice for an addition to any ball valve shut off. Integrating your choice of two smoothbore combinations, the **FLIPTIP** quickly and positively allows the initial attack team a choice of flows as well as outstanding stream performance. Offers 6 base orifice choices and 4 tip choices.



## FLIPTIP TIP WITH SHUTOFF

Integrated with a high volume detent style ball shutoff, the combination FlipTip provides a single nozzle that offers a choice of hard hitting straight streams.



Flip Tip Only



Flip Tip with Shutoff Valve



Flip Tip with Shutoff Valve & Pistol Grip



Front Tip Orifices provide flows from 50 up to 200 gpm.



Rear Tip Orifices provide water flows starting at 150



Stream Straightener integrated into the rear coupling system.



Change from small to large tip using a positive twist lock mechanism



Rugged Color Coded optional Valve Handle and Pistol Grip

Configure your FlipTip nozzle by choosing:

- 1 Series, 2 Inlet, 3 Style, 4 Rear Tip, 5 Front Tip

Example Part Number: FTTF375

1	2	3	4	5	
SERIES	INLET	STYLE	REAR	FRONT	
FTT	F	1 1/2" NH Female	1 Tip Only	3 7/8"	1 1/2"
	J	2 1/2" NH Female	2 Valve	4 1 5/16"	2 5/8"
			3 Valve & Pistol Grip	5 1"	4 1 5/16"
				6 1 1/8"	5 1"
				7 1 1/4"	
				8 1 3/8"	

## FLIPTIP TIP WITH SHUTOFF & G-FORCE NOZZLE

Integrated with a high volume ball shutoff and your choice of G-Force combination nozzle, the FlipTip provides a single nozzle with both a hard hitting smoothbore and high performance combination nozzle.

Flip Tip with G-Force Nozzle, Shutoff Valve & Pistol Grip

- 6 base orifices choices
- Fixed, Selectable, or Automatic tip
- Choice of Pressure Control and Fog Teeth
- Optional color coded handle and pistol grip



Configure your FlipTip nozzle with shutoff and G-Force Nozzle part number:

- 1 Series, 2 Inlet, 3 Style, 4 Rear Tip, 6 Pressure Control, 7 Shaper Control, 8 Fog Teeth

Example Part Number: FTGF37D1S

1	2	3	4	6	7	8	
SERIES	INLET	STYLE	REAR TIP	PRESSURE CONTROL	SHAPER CONTROL	FOG TEETH	
FTG	F	1 1/2" NH Female	2 Valve	3 7/8"	A Fixed 150 gpm @ 100 psi	1 Fixed Tactile Indicator	F Fixed Molded Rubber
			3 Valve & Pistol Grip	4 1 5/16"	B Fixed 150 gpm @ 75 psi		S Spinning Stainless Steel
				5 1"	C Selectable 150 gpm @ 100 psi		M Fixed Cut Metal
				6 1 1/8"	D Selectable 150 gpm @ 75 psi		
				7 1 1/4"	E Automatic 150 gpm @ 100 psi		
				8 1 3/8"	F Automatic 150 gpm @ 75 psi		

# WILDLAND NOZZLES

**CUSTOMIZE AND EASILY IDENTIFY YOUR NOZZLES. WE CAN LASER ENGRAVE YOUR DEPARTMENT LOGO OR NAME ON ANY NOZZLE.**

## STRAIGHT STREAM TIPS

STRAIGHT STREAM PLAIN TIPS give the furthest possible reach without feathering.

- Made from hard anodized 6061-T6 aluminum
- 1" size is 4" long, weighs 6 oz.
- 1½" is 4¾" long, weighs 8 oz.

	BASE	TIP
10212	1"	¼"
10213	1"	¼"
10214	1"	¾"
10215	1½"	¾"
10216	1½"	½"
10217	1½"	⅝"



## DUAL STACKED FORESTRY TIP

The DUAL STACKED FORESTRY TIP is ideal for initial attack on a wildland fire. Tip is machined with a tapering bore and performs with virtually no friction loss.

- Made from lightweight anodized aluminum
- 1½" NH base thread
- Two discharge orifices: ½" and ⅜"

10208 | Dual Stacked Forestry Tip



## SINGLE GALLONAGE RANGER NOZZLES

SINGLE GALLONAGE RANGER NOZZLES are engineered to provide an excellent fog pattern and straight stream. Molded teeth makes the fog pattern very dense without a hollow center.

- Hard anodized
- Heavy neoprene bumper
- Twist shut-off
- WEIGHT: 10 oz. (1"), 14 oz. (1½" 60 GPM), 14 oz. (1½" 100 GPM),

40663 | Ranger 1" 30 GPM

40675-60 | Ranger 1½" 60 GPM

40675-100 | Ranger 1½" 100 GPM



## RANGER PLUS NOZZLES

Lightweight RANGER PLUS NOZZLES are engineered to provide an excellent fog pattern and straight stream. Molded teeth makes the fog pattern very dense without a hollow center.

- Hard anodized with a heavy neoprene bumper
- Twist shut-off
- 1" size flows 10/30 GPM
- 1½" size flows 20/60 GPM
- WEIGHT: 10 oz. (1"), 14 oz. (1½")

10921 | Ranger Plus 1" Tip 10/30 GPM

10902 | Ranger Plus 1½" Tip 20/60 GPM



## BALL SHUTOFFS

Lightweight BALL SHUTOFFS with large handle provide long life and trouble-free performance and are ideal for nozzles, such as the Ranger, or for hose packs. Made from anodized aluminum with a plastic or stainless steel ball and polyurethane seats.

- SIZE: 3-½" long, 2-⅜" diameter
- Weight: 20 oz.

40712 | 1" Shutoff

40711 | 1½" Shutoff



## NO SNAG HANDLE BALL SHUTOFF VALVE 1.5"NH

This shutoff is perfect for wildland hose packs. The no snag handle fits much better inside the hose pack and also help prevents unwanted opening/closing of the valve due to the handle snagging.

- Body constructed from aluminum
- Aluminum cast handle
- Fiber laser etched finish

40713 | No Snag Handle Ball Shutoff Valve 1.5"NH



## POLYCARBONATE NOZZLES

Low-cost, lightweight nozzle is ideal for hose racks or in-plant fire protection. for added protection. Rotate outer sleeve for fog, straight stream and shut-off positions.

- High impact polycarbonate with a rubber bumper
- FM Approved

10914 | 1" - 22 GPM

10915 | 1½" - 75 GPM



## TWIN TIP NOZZLE

The **TWIN TIP NOZZLE** has a fog spray position, a straight stream position, and an off position. Made from high-quality cast aluminum with stainless steel internal parts.

- Comes standard with a 3/16" Straight Stream Tip and a 3 GPM Spray Disc
- Available with 1/4" or 5/16" tip and 6 GPM disc
- Straight stream tip threads are 3/4" GHT
- NPSH or NH 1" nozzle inlet threads

10906 | Twin Tip Nozzle

REPLACEMENT TIPS	
10907	Straight Tip 3/4" GHT - 1/4"
10909	Fog Tip 3/4" GHT - 5/16"
10910	Fog Tip 3/4" GHT - 3 GPM
10911	Fog Tip 3/4" GHT - 6 GPM



# FORESTRY VALVES & TEES



## 1 1/2" HOSE LINE TEE

The **HOSE LINE TEE** allows 1" hose lines to be taken from 1 1/2" lines at various intervals. The 1" outlet is also threaded internally with a 1/2" female NPT which allows a hose bib to be attached.

- Made from lightweight aluminum with a hard anodized finish
- 1 1/2" male and 1 1/2" female thread with a 1" NPSH tee

11152 | Tee 1 1/2" x 1 1/2" x 1"  
11121 | 1" Cap and Chain



## HOSE LINE TEE VALVE

Designed to be placed in a 1 1/2" hose line at various intervals. The 1" branch can provide water to a hose line, fill back pumps or canteens.

- 1 1/2" male and female NH hose thread with a 1" valved NPSH tee
- Made of lightweight aluminum with a hard anodized finish
- LENGTH: 5"
- WEIGHT: 1 lbs.

11151 | Hose Line Tee Valve  
11121 | 1" Cap and Chain



## CHECK & BLEEDER VALVE

The **CHECK AND BLEEDER VALVE** is a valuable tool when using portable pumps for pumping to higher elevations. The valve is attached to the discharge of the pump. When the pump is shut down, a clapper valve closes and holds the water in the elevated hose line. When the pump is restarted, the Bleeder Valve is opened, allowing the pump to be started without back pressure from the hose line. When the engine reaches full speed, the bypass valve is closed, allowing all water to enter the hose line.

- Constructed from lightweight aluminum, hard anodized finish
- 1 1/2" Male and Female threads are NH; 1" is NPSH
- LENGTH: 6 1/4"

11153 | Check & Bleeder Valve



## PRESSURE RELIEF VALVE

**RELIEF VALVES** are used to automatically bypass discharge from pump when nozzle is shut off or pressure becomes excessive. When pressure is relieved or nozzle opened, the valve automatically closes, returning discharge to hose line. Hand wheel allows bypass pressure to be set at desired pressure.

- SIZE: 7 1/2" x 3"
- WEIGHT: 2 lbs.
- 1 1/2" Male and Female threads are NH; 1" is NPSH

11155 | Pressure Relief Valve

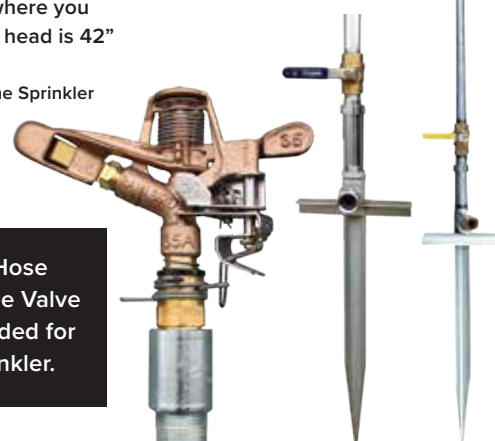


## CASCADE'S FIRELINE SPRINKLER

Use the **CASCADE FIRE LINE SPRINKLER** to set up a fast and efficient water line, keeping the fire where you want it. A heavy duty ground spike with foot bar secures the unit firmly in the ground. The sprinkler head is 42" above ground when the spike is completely embedded.

- Heavy duty industrial impact Rainbird 35A sprinkler head
- Standard flow is 7.2 GPM at 50 PSI (5 GPM is also available)
- Covers a 50-foot radius
- Adjustable pattern from 20° to 360°
- 18" heavy duty ground spike with foot bar
- Incorporated ball shut-off
- Made of tough galvanized steel
- Brass valve, sprinkler head and 3/4" GHT female inlet fittings
- Overall length: 61"
- Weight: 8 lbs.

12040 | Fireline Sprinkler



Outback 600™ Forestry Hose and either our Hose Line Tee Valve or Plain Tee are recommended for use with the Fireline Sprinkler.

# FORESTRY WYES

## LIGHTWEIGHT GATED WYES

Divide one hose line into two with independent control for each line.



One 2 1/2" Female inlet  
Two 1 1/2" Male outlets



One 1 1/2" Female inlet  
Two 1 1/2" Male outlets

LIGHTWEIGHT GATED WYES are constructed from anodized aluminum. Body is epoxy-coated red for an extremely tough finish. Quarter-turn ball valves have seats that can be adjusted without disassembling the valve.

40085	1 1/2" Gated Wye
40067	2 1/2" Gated Wye



## PLAIN WYE

Lightweight, compact plain wye constructed from tough aircraft aluminum with a protective anodized coating .

- SIZE: 5" x 4 3/4"
- WEIGHT: 14 oz.
- One 1 1/2" Female swivel and two 1 1/2" Male threads

40040 | 1 1/2" Plain Wye



## FORESTRY WYE

Lightweight wye valve constructed from high quality aluminum with anodized hose threads, stainless steel drive spindle, and stainless steel components.

- Operate at pressures up to 600 PSI
- Meets USFS specification 5100-380
- One 1 1/2" Female inlet & two 1 1/2" Male outlets

40065 | 1 1/2" Forestry Wye



## NO SNAG WYE

Lightweight wye valves with snag free handles. Constructed from high quality aluminum with anodized hose threads, stainless steel drive spindle, and stainless steel components.

- Operate at pressures up to 600 PSI
- Meets USFS specification 5100-380

40064	1" (F) x Two 1" (M)
40068	1 1/2" (F) x Two 1" (M)
40069	1 1/2" (F) x Two 1 1/2" (M)
40084	1 1/2" (F) x 1 1/2" (M) x 1" (M)

## GATE VALVE

CASCADE'S LIGHTWEIGHT GATE VALVE is an excellent shutoff to control water hammer with less than 11 turns required to open or close. Made from high strength, heat-treated, hard-anodized aluminum. Inlet swivel machined from 6061-T6 seamless aluminum extrusion hardcoat anodized to MIL-A-8625 Type III, Class 1. Non-rising brass stem and a heavy-duty wedge with crank handle.

- 2 1/2" female swivel inlet x 2 1/2" male outlet
- SIZE: 11 1/2" x 4"
- WEIGHT: 4 lbs.

40022 | 2 1/2" Gate Valve



# VALVES



## CLAPPERED SIAMESE

**SIAMESE VALVES** are used to combine several hoselines into one. Clappers allow additional lines to be added without interrupting flow.

- Style 4 Drainit Drain Valve
- Pyrolite® construction
- Rubber carrying handle
- Two 2½" female inlets x 2½" or 3" male outlet.
- LENGTH: 8½, WIDTH: 9⅜"
- WEIGHT: 7¼ lbs.

	INLET (F)	OUTLET (M)
40018	(2) 2½"	2½"
40019	(2) 2½"	3"

## 2½" HYDRANT VALVE

A **FIRE HYDRANT VALVE** is used to control water flow through one of the discharge ports on a hydrant.

- Full flow valve with a Tork-Lok handle for more positive handle positioning
- Adapter easily removed for seat adjustment
- Pyrolite® construction.
- 2½" Swivel Inlet x 2½" Male Outlet
- LENGTH: 7¼"
- WEIGHT: 7½ lbs.

40020 | Hydrant Valve 2½"



# ELBOWS

## CHROME ELBOWS

45 degree elbows take the strain from suction or discharge hose when connected to the pumper.

- Chrome plated solid brass
- Available in 2½" to 3½" sizes
- Female is a swivel hose thread
- Male is rigid hose thread



	F THREAD	M THREAD
10386	2½"	2½"
10387	2½"	3"
10388	3"	2½"
10385	3"	3"
10389	3½"	3½"

## DISCHARGE ELBOWS

Rugged cast brass elbow for use with pre-connected 1½" or 2½" hose.

- 1½" or 2½" NPT female free swivel inlet
- 1½" or 2½" NHT male outlet



	SIZE	LGT	WGT
10261	1½"	4¾"	2⅞ LB
10262	2½"	8"	11¾ LB

## STAINLESS STEEL

45 degree and 90 degree Stainless Steel elbows designed to take the strain from suction or discharge hose when connected to the pumper.

- Female is a swivel hose NH thread
- Male is rigid hose NH thread



10251	45° Elbow 1½" NH
10386-SS	45° Elbow 2½" NH
10251-90	90° Elbow 1½" NH

# GIZMO SHUTOFF



The Gizmo can be used to restrict water flows when hose lines are laid downhill and can be used as a shutoff in hose lines, behind foam or other nozzles not equipped with conventional shutoffs. The Gizmo is not a positive shutoff, but in situations where a small amount of leakage is acceptable this shut-off is a valuable tool.

- Made from 6061-T6 aluminum, hard anodized for corrosion resistance
- 1½" NH male and female threads
- WEIGHT: 6.8 oz.
- Compact: 2" in length and 2½" in diameter



47020 | Gizmo Shutoff

# LDH VALVES

Fire departments that protect a variety properties must deploy their LDH by more than one method. Valves and manifolds increase the capability and versatility of Large Diameter Fire Hose.

## PISTON INTAKE RELIEF VALVE

Truck inlet valve incorporates quick-connection, fast but controlled opening, with air bleeder and relief valve. 45° inlet provides smooth water flow for reduced friction loss. Stainless Steel Piston & Cylinder.



- EXTENSION: 10½" x 8"W x 17½"H
- WEIGHT: 27 lb.

PISTON INTAKE RELIEF VALVES		
	STORZ	(F) SWIVEL
11433	4"	4½" NH
11434	4"	5" NH
11435	4"	6" NH
11437	5"	4½" NH
11438	5"	5" NH
11439	5"	6" NH

## LOW PROFILE BALL INTAKE VALVE

Providing maximum flow performance in an extremely compact package, this **LOW PROFILE INTAKE/DISCHARGE BALL VALVE** delivers incredible value for apparatus or industrial water supply operations.



- 5 Year warranty against corrosion
- Integrated adjustable pressure relief valve
- Lightweight aluminum alloy construction
- Hard anodized and powder coated
- Highly visible valve position indicator
- Shutoff allows valve to remain dry when closed
- Flow efficient waterway has < 5 psi loss at 1250gpm
- Air bleed valve



HOSE SIDE THREADS - RIGID STORZ			
PUMP SIDE THREADS	4"	5"	6"
5" F Swivel Rocker Lug	AB3SP-NT	ABD3ST-NT	ABD3SX-NT
6" F Swivel Rocker Lug	AB3SP-NX	ABD3ST-NX	ABD3SX-NX

HOSE SIDE THREADS - RIGID MALE				
PUMP SIDE THREADS	4"	4.5"	5"	6"
5" F Swivel Rocker Lug	ABD8NP-NT	ABD8NR-NT	ABD8NT-NT	ABD8NX-NT
6" F Swivel Rocker Lug	ABD8NP-NX	ABD8NR-NX	ABD8NT-NX	ABD8NX-NX

HOSE SIDE THREADS - ROCKER LUG					
PUMP SIDE THREADS	3.5" F SWIVEL	4" F SWIVEL	4.5" F SWIVEL	5" F SWIVEL	6" F SWIVEL
5" F Swivel Rocker Lug	ABD7NN-NT	ABD7NP-NT	ABD7NR-NT	ABD7NT-NT	AB7NX-NT
6" F Swivel Rocker Lug	ABD7NN-NX	ABD7NP-NX	ABD7NR-NX	ABD7NT-NX	ABD7NX-NX

**CALL FOR PRICING! 1-800-654-7049**



## 2-WAY BALL VALVE

Feed two small lines with one large line.

- DIMENSIONS: 10"L x 9"W x 8"H
- WEIGHT: 11½ lb.



	STORZ INLET	SMALL OUTLETS
11419	4"	(2) 2½" NH Males
11421	5"	(2) 2½" NH Males

## GATE VALVE

High quality, light-weight and compact Gate Valve incorporates an air bleeder into the non-rising stem design.

- EXTENSION: 10" x 8"W x 15"H
- WEIGHT: 22 lb.



	STORZ	SWIVEL
11400	4"	4" Female NH
11401	4"	4½" Female NH
11402	4"	5" Female NH
11403	4"	6" Female NH
11404	4"	4" Storz
11405	5"	4" Female NH
11406	5"	4½" Female NH
11407	5"	5" Female NH
11408	5"	6" Female NH
11409	5"	5" Storz

## 2-WAY SIAMESE

Supply one LDH line with two smaller lines; one clapper design.

- DIMENSIONS: 10½"L x 10"W x 5"H
- WEIGHT: 10 lb.



	STORZ OUTLET	INLETS
11410	4"	(2) 2½" NH Swivel
11412	5"	(2) 2½" NH Swivel

## 3-WAY BALL VALVE WITH RELIEF VALVE

Feed three small diameter lines with a large diameter line. Relief valve standard.

- DIMENSIONS: 12¼"L x 16"W x 11"H
- WEIGHT: 21½ lb.



	STORZ INLET	SMALL OUTLETS
11423	4"	(3) 2½" NH Males
11425	5"	(3) 2½" NH Males

## 30° ELBOW ADAPTER

- With RELIEF VALVE & AIR BLEEDER
- EXTENSION: 8½" x 8"W x 12"H
- WEIGHT: 15 lb.
- With Rocker Lug swivel



	STORZ	(F) SWIVEL
12390	4"	4" NH
12390-STORZ	4"	4" Storz
12391	4"	4½" NH
12392	4"	5" NH
12393	4"	6" NH
12396	5"	4" NH
12397	5"	4½" NH
12398	5"	5" NH
12398-STORZ	5"	5" Storz
12399	5"	6" NH

## JUMBO SIAMESE

Supply one LDH line with two LDH lines; each individually clappered.

- DIMENSIONS: 17½"L x 15½"W x 9½"H
- WEIGHT: 30 lb.



	STORZ INLET	STORZ OUTLET
11440	(2) 4"	4"
11442	(2) 5"	5"

## 5-WAY MANIFOLD WITH RELIEF VALVE

This light-weight, compact unit is a simple, economical way to feed four small lines with one large line, and continue with a large line. All outlets are valved. Relief valve and pressure gauge are standard.

- DIMENSIONS: 16¾"L x 21½"W x 13"H
- WEIGHT: 51 lb.



	STORZ INLET	STORZ OUTLET	SMALL OUTLETS
11426	4"	4"	(4) 2½"
11427	5"	5"	(4) 2½"

## 30° ELBOW ADAPTER

- With Rocker Lug swivel



	STORZ	(F) SWIVEL
11388	4"	2½" NH
11389	4"	3" NH
11390	4"	4" NH
11391	4"	4½" NH
11392	4"	5" NH
11393	4"	6" NH
11394	5"	2½" NH
11395	5"	3" NH
11396	5"	4" NH
11397	5"	4½" NH
11398	5"	5" NH
11399	5"	6" NH

## 3-WAY SIAMESE

Supply on LDH line with three smaller lines; each individually clappered.

- DIMENSIONS: 14½"L x 15"W x 9"H
- WEIGHT: 17 lb.



	STORZ OUTLET	INLETS
11414	4"	(3) 2½" NH Swivel
11416	5"	(3) 2½" NH Swivel

# HOSE THREAD NIPPLES

\* SPECIFY NH OR NPSH  
THREAD WHEN ORDERING.

HOSE THREAD NIPPLES are used to convert tapered pipe thread (NPT) to a fire hose thread. One end has tapered pipe thread, the other fire hose thread. The hexagon body permits the tapered thread to be permanently attached to a pipe thread. Made from brass with a brushed finish.

## DOUBLE MALE STANDARD

One male thread is National Pipe Thread (NPT).



	MALE THREAD	MALE THREAD
11082	3/4" NPT	3/4" GHT
11083	1" NPT	1"
11084	1 1/2" NPT	1 1/2" NH
11085	2" NPT	2" NPSH
11086	2 1/2" NPT	2 1/2" NH
11087	3" NPT	3"
11252	4" NPT	4" NH
11253	6" NPT	6" NH

## FEMALE X MALE STANDARD

Female thread is National Pipe Thread (NPT).



	FEMALE THREAD	MALE THREAD
11088	1" NPT	1"
11089	1 1/2" NPT	1 1/2" NH
11090	2" NPT	2" *
11091	2 1/2" NPT	2 1/2" NH
11092	3" NPT	3"
11255	4" NPT	4" NH
11258	6" NPT	6" NH

## DOUBLE MALE INCREASERS

The small male end is National Pipe Thread (NPT). The large male end is a fire hose thread.



	MALE THREAD	MALE THREAD
11097	3/4" NPT	1"
11098	1" NPT	1 1/2" NH
11261	1 1/2" NPT	2"
11099	1 1/2" NPT	2 1/2" NH
11100	2" NPT	2 1/2" NH
11262	2 1/2" NPT	3"

## FEMALE X MALE INCREASERS

The female end is a National Pipe Thread (NPT). The male end is a fire hose thread.



	FEMALE THREAD	MALE THREAD
11093	3/4" NPT	1" NH
11094	1" NPT	1 1/2" NH
11256	1 1/2" NPT	2"
11095	1 1/2" NPT	2 1/2" NH
11096	2" NPT	2 1/2" NH
11249	2 1/2" NPT	3"

## DOUBLE MALE REDUCERS

The large male end is National Pipe Thread (NPT). The small end is a fire hose thread.



	MALE THREAD	MALE THREAD
11105	1" NPT	3/4" GHT
11106	1 1/2" NPT	1"
11107	2" NPT	1 1/2" NH
11108	2 1/2" NPT	1 1/2" NH
11265	2 1/2" NPT	2"
11266	3" NPT	2 1/2" NH

## FEMALE X MALE REDUCERS

The large female end is a National Pipe Thread (NPT). The small end is a fire hose thread.



	FEMALE THREAD	MALE THREAD
11101	1" NPT	3/4" GHT
11102	1 1/2" NPT	1"
11103	2" NPT	1 1/2" NH
11104	2 1/2" NPT	1 1/2" NH
11250	2 1/2" NPT	2"
11251	3" NPT	2 1/2" NH

# HOSE INLET CONNECTIONS

HOSE INLET CONNECTIONS are used to convert a standard pipe thread to female swivel fire hose threads. One end has a male or female National Pipe Thread (NPT). The other end has a female swivel fire hose thread. The body is hexagon shaped so the connection can be permanently attached to the pipe thread. Made from brass with a brushed finish. Polished chrome at extra cost.

## FEMALE X MALE



	(F) SWIVEL THREAD	(M) BODY THREAD
11109	1" *	1" NPT
11110	1 1/2"	1 1/2" NPT
11607	2" *	2" NPT
11115	2 1/2"	2" NPT
11111	2 1/2"	2 1/2" NPT
11118	2 1/2"	3" NPT
11270	3"	3" NPT

## DOUBLE FEMALE



	(F) SWIVEL THREAD	(M) BODY THREAD
11112	1" *	1" NPT
11113	1 1/2"	1 1/2" NPT
11268	2" *	2" NPT
11116	2 1/2"	2" NPT
11114	2 1/2"	2 1/2" NPT
11120	2 1/2"	3" NPT
11269	3"	3" NPT

# STORZ ADAPTERS

All Adapters permit connecting Storz Couplings to any threaded connection. They enable you to take advantage of the speed and ease in the assembly of the Storz system when combining it with the threads on your hose, pumper or hydrant system. The Adapters are made from lightweight aluminum forgings and extrusions and are hard-coat anodized for added durability.

## STORZ X FEMALE

Adapters permit coupling Storz to any male threaded connection.



STORZ X FEMALE ADAPTERS		
	STORZ	FEMALE THREAD
11363	4"	2½"
11364	4"	3"
11365	4"	4"
11366	4"	4½"
11367	4"	5"
11368	4"	6"
11369	5"	2½"
11370	5"	3"
11371	5"	4"
11372	5"	4½"
11373	5"	5"
11374	5"	6"

## STORZ X STORZ

Lightweight aluminum alloy couplings adapter allows for connections between Storz couplings of different sizes. Adapter is 4" Storz on one side and 5" Storz on the other.



11387 | Storz 4" x 5"

## STORZ X FEMALE SWIVEL

Storz x female adapters with a female swivel hose thread.

## STORZ X MALE

Adapters permit connecting couplings to any female threaded connection.



STORZ X MALE ADAPTERS		
	STORZ	MALE THREAD
11351	4"	2½"
11352	4"	3"
11353	4"	4"
11354	4"	4½"
11355	4"	5"
11356	4"	6"
11357	5"	2½"
11358	5"	3"
11359	5"	4"
11360	5"	4½"
11361	5"	5"
11362	5"	6"

STORZ X FEMALE SWIVEL		
	STORZ	FEMALE THREAD
11375	4"	2½"
11376	4"	3"
11377	4"	4"
11378	4"	4½"
11379	4"	5"
11380	4"	6"
11381	5"	2½"
11382	5"	3"
11383	5"	4"
11384	5"	4½"
11385	5"	5"
11386	5"	6"



## MOUNTING BRACKETS

Lightweight aluminum Mounting Brackets will safely hold Storz fittings. Available in either 4" or 5".

11487 | Bracket 4" Storz  
11488 | Bracket 5" Storz



## BLIND CAPS

Lightweight aluminum alloy caps are used to seal off Storz fittings when discharge is not required. They also protect against entry of foreign objects when the connection is not in use.

11443 | 4" Storz Blind Cap  
11444 | 5" Storz Blind Cap



# HOSE ADAPTERS



**HOSE ADAPTERS** connect hoses of incompatible diameter, thread, or gender. Manufactured from 6061-T6 aluminum and “Hardcoat Anodized”, a very specific type of anodize that gives aluminum parts greater abrasion and corrosion resistance than that provided by the more conventional plain anodize processes.

## DOUBLE FEMALE ADAPTERS

- Join two male threads
- Both ends are hose threads only
- Made from 3 pieces, both ends swivel



Add 40% for Chrome Finish

ROCKER LUG		
	FEMALE THREAD	FEMALE THREAD
11010	1"	1"
11011	1½"	1½"
11012	2"	2"
11013	2½"	2½"
11014	3"	3"
11015	3½"	3½"
11016	4"	4"
11017	4½"	4½"
11018	5"	5"
11019	6"	6"
LONG HANDLE		
11020	2½"	2½"
11023	4"	4"
11024	4½"	4½"
11025	5"	5"
11026	6"	6"

## DOUBLE MALE ADAPTERS

- Join two female threads
- Both ends are hose coupling threads only
- Rocker lugs are standard



	MALE THREAD	MALE THREAD
11000	1"	1"
11001	1½"	1½"
11002	2"	2"
11003	2½"	2½"
11004	3"	3"
11005	3½"	3½"
11006	4"	4"
11007	4½"	4½"
11008	5"	5"
11009	6"	6"

## QUARTER TURN ADAPTERS

- Much stronger and more reliable than cast aluminum adapters
- Manufactured from forged aluminum and hard coated
- Precision molded gaskets are tolerance controlled, ozone resistant and won't weather or crack



	QUICK-CONN	THREAD
11203	1½"	1½" (M)
11204	1½"	1½" (F)
11205	1½"	1" (M)
11206	1½"	1" (F)
11207	1½"	¾" (M)
11208	1½"	¾" (F)
11209	1½" Quick-Conn Cap	
11210	1½" Face Gasket	

## HOSE THREAD ADAPTERS

- Use to connect hose threads with the same diameter but different threads



	FEMALE THREAD	MALE THREAD
11079	1"	1"
11080	1½"	1½"
11081	2½"	2½"
11117	3"	3"

## HOSE INLET PLUGS

- Protect female hose threads and prevent entry of foreign materials
- Equipped with rocker lugs
- Manufactured from 6016-T6 lightweight aluminum with hard anodized finish



FEMALE THREAD	
11136	1" Aluminum
11137	1½" Aluminum
11138	2" Aluminum
11139	2½" Aluminum
11140	3" Aluminum
11141	4" Aluminum
11142	4½" Aluminum
11143	5" Aluminum
11144	6" Aluminum

## HOSE OUTLET CAPS

- Protect male hose threads from damage
- Equipped with rocker lugs
- Manufactured from either 6016-T6 lightweight aluminum with hard anodized finish or chrome-plated brass

FEMALE THREAD	
11121	1" Aluminum
11122	1½" Aluminum
11122CH	1½" Chrome
11123	2" Aluminum
11124	2½" Aluminum
11124CH	2½" Chrome
11125	3" Aluminum
11126	4" Aluminum
11127	4½" Aluminum
11128	5" Aluminum
11129	6" Aluminum



## HOSE THREAD REDUCERS

- Hose Thread Reducers connect a larger hose thread to a smaller one
- The female thread is always larger than the male thread



REDUCER ROCKER LUG		
	FEMALE THREAD	MALE THREAD
11037	1"	¾"
11038	1½"	¾"
11039	1½"	1"
11040	2"	1½"
11041	2½"	¾"
11042	2½"	1"
11043	2½"	1½"
11044	2½"	2"
11045	3"	2½"
11233	3½"	2½"
11046	4"	2½"
11235	4"	3"
11236	4"	3½"
11047	4½"	2½"
11237	4½"	3"
11238	4½"	3½"
11119	4½"	4"
11048	5"	2½"
11049	5"	4"
11050	5"	4½"
11051	6"	4½"
11052	6"	5"

REDUCER LONG HANDLE		
	FEMALE THREAD	MALE THREAD
11054	4"	2½"
11055	4"	3"
11056	4½"	2½"
11057	4½"	3"
11058	4½"	4"
11059	5"	4"
11060	5"	4½"
11061	6"	4"
11062	6"	4½"
11063	6"	5"

## HOSE THREAD INCREASERS

- Increases are used to connect a smaller hose thread to a larger one
- The male thread is always larger than the female thread



INCREASER ROCKER LUG		
	FEMALE THREAD	MALE THREAD
11064	¾"	1"
11065	1"	1½"
11066	1½"	2"
11067	1½"	2½"
11239	2"	2½"
11068	2½"	3"
11240	2½"	4"
11241	3"	4"
11242	3"	4½"
11243	4"	4½"
11244	4"	5"
11245	4"	6"
11246	4½"	5"
11247	4½"	6"
11248	5"	6"

INCREASER LONG HANDLE		
	FEMALE THREAD	MALE THREAD
11075	4"	4½"
11076	4½"	5"
11077	4½"	6"
11078	5"	6"

## DOUBLE FEMALE REDUCERS

- Hose Thread Reducers connect a larger hose thread to a smaller one



REDUCER LONG HANDLE		
	FEMALE THREAD	FEMALE THREAD
11027	2½"	4"
11028	2½"	4½"
11029	2½"	5"
11030	2½"	6"
11228	3"	4"
11229	3"	4½"
11230	3"	5"
11231	3"	6"
11031	4"	4½"
11032	4"	5"
11033	4"	6"
11034	4½"	5"
11035	4½"	6"
11036	5"	6"

**Customize and easily identify your adapters!**  
We can laser engrave your department logo or name on any adapter.

## POLYCARBONATE FITTINGS

Cut cost of petty theft and provide maximum protection. Ideal for use where theft of expensive brass parts are most prevalent. Molded from red polycarbonate. Rocker lug only.



POLYCARBONATE CAPS	
11145	1½" NH (F)
11146	2½" NH (F)



POLYCARBONATE REDUCER		
11147	2½" NH (F)	1½" NH (M)

# AKRON® SWING-OUT VALVES



AKRON® SWING-OUT VALVE design allows for quick and easy servicing in today's complex fire apparatus. There is no need to remove valves from plumbing when servicing. There are no flange O-Rings to cut or tear. The Swing-Out Valve is a full flow valve and will flow in both directions, making it impossible to install backwards. The self-locking Tork-Lok® valve greatly reduces the possibility of the valve creeping open or closed during operations.

- Two self-adjusting seats create an excellent seal to hold pressure and vacuum in either direction
- A Norkalon™ ball and dual seats provide smooth, long lasting, reliable operation
- Valve bodies and adapters made of red brass and all control parts of non-corroding materials
- Every valve is factory tested in accordance with current NFPA Standards.
- Rugged, durable handles and handle stops are built to take rough usage
- One piece stop plate allows the handle position to be changed to 8 different positions by removing only one bolt
- Self-locking Tork-Lok® valves provide quick and easy adjustment without manual locking
- Available with R-1, TS or TSC handles

## SWING-OUT VALVE SERVICE KITS

Service Kits are available for most Akron® products. If you require a Service Kit for a product not shown, please contact us.

KIT	STYLE
8903	7610
8904	7615
8905	7620
8906	7625
8907	7630
8907	7635
8903	7810
8904	7815
8905	7820
8906	7825
8907	7830
8907	8907
8908	8908



Both threads are female NPT (National Pipe Thread)

## INLINE VALVES

	SIZE	INLET	OUTLET	LGT
7810-L	1"	1 NPT	1 NPT	4 1/8"
7815-L	1 1/2"	1 1/2 NPT	1 1/2 NPT	4 1/2"
7820-L	2"	2 NPT	2 NPT	5 1/4"
7825-L	2 1/2"	2 1/2 NPT	2 1/2 NPT	7 1/4"
7830-L	3"	3 NPT	3 NPT	7 3/4"
7835-L	3 1/2"	3 1/2 NPT	3 1/2 NPT	8"



Discharge flange has a standard male fire hose thread

## DISCHARGE VALVES

	SIZE	INLET	OUTLET	LGT
7815-D	1 1/2"	1 1/2 NPT	1 1/2 NH	4 3/4"
7820-D	2"	2 NPT	2 NPSH	5 3/4"
7825-D	2 1/2"	2 1/2 NPT	2 1/2 NH	8"
7830-D	3"	3 NPT	3 NH	7 3/4"
7835-D	3 1/2"	3 1/2 NPT	3 1/2 NH	7 7/8"

## HANDLES

TS handle is standard. Also available with the R-1 or the TSC.



R1: Handle for In-Line Valve remote rod operation.



TS: Handle for Direct Valve control through the panel. Tork-Lok only.



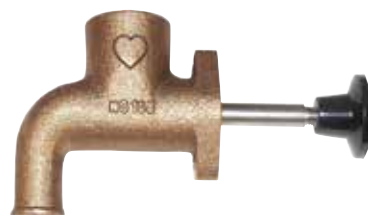
TSC: Covered handle for exterior mounted valve. Tork-Lok only.



Inlet flange has a standard female swivel fire hose thread

## SUCTION VALVES

	SIZE	INLET	OUTLET	LGT
7815-S	1 1/2"	1 1/2 NH	1 1/2 NPT	5 1/8"
7825-S	2 1/2"	2 1/2 NH	2 1/2 NPT	8 3/16"
7830-S	3"	3 NH	3 NPT	8 3/16"
7835-S	3 1/2"	3 1/2 NH	3 1/2 NPT	8 5/8"



## DRAIN VALVE

Designed for use with apparatus valves; pull to drain, push to close.

- 3/4" NPT on both inlet and outlet
- 2 1/4" handle length standard. 4 3/8", 3" and 1 1/2" lengths optional
- Rough brass with stainless steel handle rod
- LENGTH: 5 1/4"
- WEIGHT: 1 3/4 LB

10238 | Drain Valve

**WE HAVE SHOWN ONLY THE MOST COMMONLY USED FLANGES ON THIS PAGE. CONTACT US FOR OTHER CONFIGURATIONS.**

# LIQUID LEVEL METERS

## LIQUID LEVEL GAUGES

Get your foam and water level readings at a glance with Cascade's Foam and Water Gauges on your tanks. These are perfect for our End-Mount Slip-On Firefighting Units.

All display module electronics are encapsulated in potting compound to protect the unit from shock, vibration, water, and dust.



- 25016 | Water
- 25015 | Water/Foam

## INTELLITANK™ METERS

Get your liquid level readings at a glance with the Intelli-Tank™ Foam and Water Gauges on your tanks. These are perfect for our End-Mount Slip-On Firefighting Units .

- Calibrates to any size/shape tank
- Ultra-bright LED's provide nine (9) levels of indication
- Wide angle viewing and ultra-bright LED's for high visibility even in direct sunlight
- Low Tank Level visual indication
- Built-in self diagnostics Rocker switch cab displays
- One wire link allows for unlimited displays
- Programmable night dimming feature uses industrial pressure transducer instead of probes
- Water and Foam models available
- Remote light tank-level driver module available

- 25012 | IntelliTank Water Level Gauge
- 25013 | IntelliTank Foam Level Gauge



**Class 1**



Intellitank Water and Foam meters, installed on an End Mount unit

## REMOTE CONTROL

A push-ball control for the remote operation of in-line quarter turn ball valves or built-in eductors.

- Locks in any position
- Furnished with chrome plated Tee handle and escutcheon plate
- Swivel joint and connecting link included
- LENGTH: 12"
- WEIGHT: 4 LB

10244 | Remote Control



## REMOTE TEE HANDLE GUIDE

Cascade's Remote Tee Handle Guide is for guiding the remote tee handle rod.

- Anodized aluminum with teflon bushing
- Hole for rod is 1/2"

10242 | Remote Tee Handle Guide



## TEE HANDLE

For remote control of quarter-turn ball valves. Manufactured by Cascade Fire Equipment.

- Bored for 1/2" rod
- Chrome plated finish
- LENGTH: 1 13/16"
- WEIGHT: .5 LB

10239 | Tee Handle



## REMOTE DASH INDICATOR

Class 1's remote dash indicator no longer requires the installation of the remote driver module. This display receives its signal directly from the Master Tank Level Display.

112124 | Remote Dash Indicator



Remote Dash Indicator installed on a console

# CALCULATORS

## CASCADE SLIDE CALCULATOR

Nozzle discharge/friction loss Slide Calculator useful in wildland firefighting.

- Determine flows through nozzle sizes as small as  $\frac{3}{16}$ " at practical fire nozzle pressures
- Calculate friction loss in hose lines of various sizes through a flow range as small as 5 GPM
- Two-sided design displays both English and Metric measurements

91001 | Cascade Slide Calculator



## AKRON SLIDE CALCULATOR

Fire stream/friction loss Slide Calculator is best used for municipal firefighting.

- Determine flows (GPM) through commonly used straight bore and fog nozzles
- Calculate friction loss in single and siamesed hose lines of up to 6" through a flow range of up to 2000 GPM

91000 | Fire Stream Calculator



## FIRECALC POCKET CALCULATOR

The FireCalc Pocket Calculator is the training tool every firefighter needs.

- Calculates engine pressure, friction loss, application rate, flow rate, reaction force and more
- English and metric
- Review feature
- Auto power off
- $5\frac{1}{2}$ " x  $2\frac{7}{8}$ "

9900 | Akron FireCalc



## CASCADE'S PITOT GAUGE



The **PITOT GAUGE** measures nozzle pressure of a fire stream, which is then referenced on a calculator for the correct gpm.

Cascade's Pitot Gauge has a heavy duty nickel plated blade and pitot tube and a conveniently located bleeder valve. Includes an Akron Fire Stream Calculator in a rugged carrying case.

- $3\frac{1}{2}$ " liquid filled 0-160 psi (0-1100 kpa) Inspector's Test Gauge
- 2 psi (20 kpa) increments, 1% accurate full scale
- Includes Certificate of Accuracy

11490 | Hand Held Pitot Gauge





# PRESSURE GAUGES



## PUMP TEST KIT

Used for testing pump pressure from discharge.

- Includes Line Gauge and Cap
- Available gauge body sizes of 1½" NH and 2½" NH
- Comes with 0-300 lb. glycerine-filled 2½" diameter gauge with high impact resistant case and lens
- Square edge orifice is machined for complete accuracy
- Made from tough, lightweight 6061-T6 aluminum alloy

11495	1½" Pump Test Kit
11496	2½" Pump Test Kit



## LINE GAUGES

Used for testing static or flowing pressures in hose or nozzles

- Rocker lug available with any thread
- Comes with 0-300 lb. glycerin-filled 2½" diameter gauge
- Freeze proof to -40° F
- Made from tough, lightweight 6061-T6 aluminum alloy
- High impact resistant case and lens

11479	Line Gauge 1½" x 1½"
11480	Line Gauge 2½" x 2½" NH



**CALL FOR ORIFICE SIZES!**

## FIRE APPARATUS GAUGES

With water being the primary extinguishing agent for fire suppression, it's important to be able to deliver the required flow-gallons per minute (gpm)-at the required pressure.

- Zytel nylon case
- ½" blow out plug
- Bright stainless steel bezel material
- Black bezel option
- ¼" Male NPT brass center back connection
- Kem-X freeze proof protection
- Phosphor bronze, filled with freeze proof liquid - isolated by diaphragm
- Acrylic lens
- Fill Fluid: Low temp glycerin (for -40°F - 150°F service)
- 2½" or 3½" aluminum dial; two sided baked enamel finish
- Accuracy: 1 % Full Scale - ANSI Grade 1A



PANEL GAUGES	
11451	2½" Pressure 0-400 PSI
11452	2½" Pressure 0-600 PSI
11453	2½" Comp. 30" 0-400 PSI
11454	2½" Comp. 30" 0-600 PSI
11455	2½" Vacuum 0-30" HG
11456	3½" Pressure 0-400 PSI
11457	3½" Pressure 0-600 PSI
11458	3½" Comp. 30" 0-400 PSI
11459	3½" Comp. 30" 0-600 PSI
11460	3½" Vacuum 0-30" HG



STEM MOUNTED GAUGES	
11461	2½" Pressure 0-200 PSI
11462	2½" Pressure 0-400 PSI
11463	2½" Pressure 0-600 PSI
11464	2½" Comp. 30" 0-400 PSI
11465	2½" Comp. 30" 0-600 PSI
11466	2½" Vacuum 0-30" HG
11467	3½" Pressure 0-200 PSI
11468	3½" Pressure 0-400 PSI
11469	3½" Pressure 0-600 PSI
11470	3½" Comp. 30" 0-400 PSI
11471	3½" Comp. 30" 0-600 PSI
11472	3½" Vacuum 0-30" HG



**PRESSURE GAUGE ON A SLIP-ON UNIT SHOWS DISCHARGE PRESSURE AT THE PUMP**



# CLASS A FOAM

## SILV-EX CLASS A FOAM

CLASS A FOAM agents are specifically designed to combat fires involving ordinary combustible materials, like wood, paper, coal, rubber, and plastic by making water more effective. The agents reduce the surface tension of water providing superior wetting and penetrating characteristics. This allows the solution to penetrate deep into the char of deep-seated fires, promoting cooling and making the Class A fuel-less combustible. The expanded foam solutions also create a dense foam blanket that provides an insulating barrier between the fuel and the air.

**SILV-EX PLUS** is a low, medium, and high expansion, Class A foam concentrate formulated from specialty hydrocarbon surfactants, stabilizers, corrosion inhibitors and solvents. This formulation provides superior cold weather performance. The latest development in the original forest fire control concentrate, **SILV-EX PLUS** has been proven effective on many deep-seated Class A fires such as tire fires, paper fires, coal fires, structure fires, and wild fires. **SILV-EX PLUS** foam concentrate can be proportioned from 0.1% to 1.0% in fresh, brackish or sea water.

### FIRE EXTINGUISHMENT CHARACTERISTICS OF SILV-EX PLUS "CLASS A" FIRE CONTROL CONCENTRATE:

- Reduction of the surface tension of water
- Extended drain time provides longer surface wetting, reducing the risk of ignition/reignition.
- Creates a foam blanket which provides an insulating barrier between the fuel and air.
- Suppresses combustible vapors while cooling the fuel.
- The brilliant white foam reflects heat.
- Creates a dense foam blanket with excellent insulating properties.
- Clings to vertical surfaces for structure protection.

**SILV-EX PLUS** has a reduced environmental signature and does not have any EPA reportable contents. The solution does not destroy or retard new forest growth, and will not harm fish or wildlife; it is biodegradable in soils, aquatic ecosystems, and sewage treatment facilities.

21031	SILVEX PLUS Foam - 5 gal. pail
21031-55	SILVEX PLUS Foam - 55 gal. drum
21031-48	SILVEX PLUS Foam - 48 5-gal. pails



## PHOS-CHEK WD 881 WILDLAND FOAM

PHOS-CHEK WD 881 was developed specifically for use in Wildland Fire Management and at the rural/urban interface. The results obtained by Wildland Fire Management Agencies around the world prove its value. While providing excellent performance in wildland fires, this foam is less expensive and is used at lower concentrates (from .02% to 1%), making it a cost-effective tool in today's wildland fire activities.

**PHOS-CHEK CLASS A FOAM** concentrate is specifically formulated to make water more effective. The unique combination of surfactants significantly reduces water's surface tension and penetrates deep into Class A fuels, creating a barrier between the fuel and the fire and reducing the amount of water needed to fight a fire.

Additional benefits of Phos-chek foam include:

- Phos-chek is the most concentrated Class A foam available
- Contains no EPA listed hazardous materials
- Readily biodegrades in the environment
- Extinguishes both Class A and B fires
- Meets USDA Spec 5100-301a for aerial and ground application

### CLASS A FOAM PERFORMS EXCEPTIONALLY WELL IN FOAM APPLICATION EQUIPMENT INCLUDING:

- Batch-Mixing
- Eductors and Around the Pump Systems
- Direct Injection System
- Compressed Air Foam systems (CAFS)



**GSA pallet pricing available for Class A Foam**



# UNIVERSAL FOAM WRENCH

The Universal Foam Wrench has a raised handle which allows full 360 degree rotation without skinning your knuckles. This economically priced, lightweight, high-strength aluminum wrench will open most foam containers.

- Weight: 0.3 lbs.

10319 | Foam Wrench



# FOAM APPLICATION

## G-FORCE FOAM ATTACHMENTS

LOW AND MULTI-EXPANSION FOAM ATTACHMENTS are designed specifically to enhance foam application performance through the G-Force Series of fixed, selectable gallonage, and automatic nozzles.

Both attachments are easily added or removed using a simple clamping mechanism that attaches to the nozzle's front bumper. Produced from lightweight polymers, both the low expansion and multi-expansion attachments are ideally suited for Class A and flammable liquid applications. The multi-expansion attachment offers the highest foam expansion and finished foam performance with alcohol resistant foam concentrates (synthetics). The low expansion attachment is ideal for protein and fluoroprotein concentrates.

### FOAM CONCENTRATES COMPATIBLE WITH G-FORCE FOAM ATTACHMENTS:

- Protein (P)
- Fluoroprotein (FP)
- Film Forming Fluoroprotein (FFFP)
- Alcohol Resistant Fluoroprotein (AR-FP)
- Alcohol Resistant Film Forming Fluoroprotein (AR-FFFP)
- Aqueous Film Forming Foam (AFFF)
- Alcohol Resistant Film Forming Foam (AR-AFFF)
- Class A



**CALL FOR PRICING!**

## PRO/PAK PORTABLE FOAM SYSTEM

The PRO/PAK provides a complete foam storage, injection, and application system. It operates effectively at low pressure and includes three types of nozzles for all foam applications. The units are designed to work with all types of Class A and Class B foams, gels, and wetting agents. Everything you need is contained in one package that attaches to the end of your 1" (25mm) or 1.5" (38mm) fire hose.

- High impact 2.5 gallon (9.5 l) foam reservoir with a built-in eductor
- Large, easy-open fill port with a liquid type indicator
- Flow controlled by a twist grip valve/carrying handle
- Selectable discharge velocity for inlet pressures between 40 and 500 psi (3 to 34 bar) for extended operations
- High-impact engineering plastic with metallic components of hardcoat anodized aluminum and stainless steel
- Supplied with three different quick connect nozzles, a discharge hose, and a cap:

**STRAIGHT-STREAM NOZZLE** gives maximum reach and penetration.

**LOW-EXPANSION NOZZLE** works well with Class A and B foam.

**MEDIUM-EXPANSION NOZZLE** produces dense foam that is best for vapor suppression and longevity.



# FOAM-FLO™ FOAM PROPORTIONING SYSTEM

The FOAM-FLO™ meters wildland (class A) foam concentrate into hose lines in the desired percentages. The Foam-Flo™ can treat up to 100 GPM or as low as 5 GPM of water. Foam concentrate can be metered into the hose lines in various amounts, from .01% to 1%.

The Foam-Flo™ can easily be installed on Slip-On Units, Portable Pumps or Pumpers. There are three hoses, one is attached to the pump suction, the second hose attaches to the pump discharge and the third to the foam concentrate. All connections are on the back side of the Foam-Flo™. An integrated ball check valve prevents water from entering the foam supply. All components are anodized aluminum, brass or stainless steel, and the label is a tough waterproof vinyl. Unit measures 6½" x 3" x 1¼" and weighs 2 lbs.

**PLEASE NOTE: The Foam-Flo is not for use with positive displacement pumps.**



**FOAM-FLO™ 11923A** model is made to install on portable pumps. This model has garden hose fittings on all three connections. The foam pick up hose is supplied, the other two hoses are not.

11923A | Foam-Flo™ for Portable Unit



**FOAM-FLO™ 11923F** model is primarily used on Slip-On Units or Wildland Fire Pumpers. It comes complete with mounting bracket, quick connect couplings and hoses. All hoses and connections are supplied:

- 2 quick connect couplings; One for ½" tubing, the other for ¾" tubing. Both have ¼" NPT male threads.
- The ½" coupling is to be connected to the suction side of the pump. The ¾" coupling is connected to the discharge side of the pump.
- 3/8" clear tubing with the ¾" GHT thread is attached to the "FOAM SUPPLY" on the back of the Foam-Flo™.

11923F | Foam-Flo™ for Permanent Unit w/Bracket



## FOAM-FLO™ NOZZLES

Lightweight, high efficiency FOAM-FLO™ NOZZLES with a unique stream design. Expansion of 10 to 1 when using Class "A" Foam at .05%.

The normal reach is 45 feet or greater, depending on nozzle pressure, mix ratio and wind conditions. Made from a tough, aircraft aluminum and hard anodized for durability and corrosion resistance.

- 11895 and 11897 are ideal for use on twin tip nozzles
- 11896 and 11898 are designed for use on a ¾" or 1" booster hose
- 11926 and the 11927 make excellent foam when used on 1½" hose

NOZZLE	WATER GPM	FOAM GPM*	BASE THREAD	LGT	WGT
11895	10	100	¾"	8"	10 oz.
11896	10	100	1"	8"	10 oz.
11897	18	180	¾"	8"	10 oz.
11898	18	180	1"	8"	10 oz.
11926	25	250	1½"	16"	1¾" lb.
11927	35	350	1½"	19"	1⅝" lb.

# FOAM-PRO® FOAM PROPORTIONING SYSTEM

The FOAMPRO® leads the industry with proven reliability, and provides the smoothest proportioning available at low flows for the best foam generation for Slip-On pumper units and smaller forestry pumpers with compressed air foam systems. Features fully automatic foam proportioning, regardless of changes in flow or pressure, and delivers unmatched accuracy over the entire flow range. It proportions continuously, with no stopping to refill the foam tanks. FoamPro Model 1601 is now capable of quickly pulling concentrate 3 feet allowing for increased mounting and installation flexibility.

- Installs easily in new or existing apparatus
- Provides the smoothest proportioning available at ultra-low flows
- Delivers 0.1 to 1.7 gpm (.38 to 6.4 L/min) of concentrate
- Achieves full pump capacity with all known Class A concentrates
- Discharge side injection
- No in-line restrictions
- 3 feet lift capability
- Optional remote Start/Stop for in-cab control and Remote Simulated Flow Switch

11914 | FoamPro® 1601  
11915 | Switch Level



FoamPro® Foam Proportioning System installed on a Cascade Fire slip-on unit

## CONTROL MODULE FEATURES

- Injection percentage from 0.1% to 1.0%
- On/Off control
- Foam percentage selector
- Low concentrate warning indicator
- Ultra-Bright LED light
- Advanced environmental protection
- Simulated flow - auto disengage

# IN-LINE FOAM EDUCTORS

Lightweight PYROLITE® IN-LINE EDUCTORS are available in 60, 95, or 125 GPM. The Akron® detachable metering valve has a larger metering dial that is easier to turn and read. This valve has an infinite number of settings between 0% and 6% with detents at .25%, .5%, 1%, 3% and 6%.

Eductors operate equally well with Class A and B Foams while requiring little maintenance, and they are now available with higher flows and usable with longer hose lays with Class A foam. The inlet can be either a 1½" or 2½" female swivel and the discharge is always a 1½" male thread. The weight on the complete unit, including pickup assembly, is only 3½ lbs. The length, with the 1½" discharge, is 7¾" and the 2½" is 8½".

- Infinite number of settings between 0% and 6%
- Detents at .25%, .5%, 1%, 3%, and 6%
- Available in 60, 95, or 125 GPM flows
- Rated flow calibrated at 200 PSI inlet pressure
- Performs well with 75 PSI and 100 PSI rated nozzles
- Larger, easy-to-read metering dial with positive position stops
- Pickup tube of reinforced clear PVC hose to help prevent kinking



Detachable Metering Valve

GPM	HOSE LAY LIMITS*							
	HOSE SIZE							
	UP TO 1% (CLASS A)				3% - 6% (CLASS B)			
	1½"	1¾"	2"	2½"	1½"	1¾"	2"	2½"
60	600'	900'	-	-	400'	600'	-	-
95	200'	350'	-	-	150'	250'	-	-
125	-	200'	400'	-	-	150'	300'	-

IN-LINE EDUCTORS	
3060	60 GPM
3095	95 GPM
3125	125 GPM

NOTE: All hose lay is based on a maximum of 10 elevation  
\*Measured from the discharge side of the eductor with 200 psi inlet pressure

# PORTABLE TANKS



## HUSKY® FOLDING FRAME WATER TANKS

HUSKY® PORT-A-TANK LINERS are designed so there are no bulky corners or sagging liner. The manufacturing process uses one continuous piece of material for the side panel, which is then welded to Husky®-duty floor material. Solid brass grommets are installed in a tight pattern, alleviating any liner drooping at the frame, creating the best fitting, most durable liner available, and making it one of the best porta ponds on the market. Vinyl liners come in 22 oz., 22 oz. sides with a 28 oz. floor, or 30 oz. Vinyl liners and are available in a variety of colors and in NSF 61 approved 30 oz. potable material or chemical and fuel resistant materials that are great for oil spill clean-up or petroleum storage. Liners are also available in Husky®-Tough EXLON® which has superior UV resistance, heat resistance, abrasion, puncture resistance and excellent cold cracking qualities, making it the best folding tank liner material on the market. Folding Frame Tanks are available in steel frames or aluminum frames.

### LINERS

- Available in 22 oz., 22 oz. sides with a 28 oz. floor, and 30 oz. VINYL, and 22 oz. EXLON®
- Exclusive, Easy Lift Handles (US Patent No. 8,746,478 and US Patent 10,518,967)
- Chemical and fuel resistant materials. Potable NSF 61 approved
- 10" drain tube with quick release for fast draining or mating with another tank
- Two drain tubes are standard on 2500+ gallon tanks
- #4 solid brass grommets
- Double-stitched, triple reinforced hems
- Standard tanks come with the Drain Tube mounted on the outside. (Also available with Drain Tubes mounted for inside)

### FRAMES

- STEEL frame material: 7/8" Od., 14 Gage round tube steel (hrew p&o). Square tube available
- ALUMINUM frame material: 1" X 1" x 1/8" 6061-T6 aircraft-quality square tube. Round tube available
- All frames 29" tall
- Superior heavy duty laser cut hinges
- Mig welded construction
- Aluminum has approx. 25% weight savings over steel
- Hinge design allows for aluminum frames to fold down to 7 1/2" and steel frames 7"



SIZE (GAL)	DIMENSIONS		WEIGHT (LBS)	
	OPEN	FOLDED	STEEL	ALUM
600	6'3" x 6'3" x 29"	6'3" x 7" x 29"	95	70
1000	8'3" x 8'3" x 29"	7" x 8'3" x 29"	116	96
1500	10'3" x 10'3" x 29"	7" x 10'3" x 29"	138	109
2100	11'3" x 11'3" x 29"	7" x 11'3" x 29"	154	124
2500	12'3" x 12'3" x 29"	7" x 12'3" x 29"	169	135
3000	13'3" x 13'3" x 29"	7" x 13'3" x 29"	185	149
3500	14'3" x 14'3" x 29"	7" x 14'3" x 29"	205	167
4000	15'3" x 15'3" x 29"	7" x 15'3" x 29"	223	178
5000	17'3" x 17'3" x 29"	7" x 17'3" x 29"	269	215



### COLORS

22 oz. EXLON



22 oz. Vinyl



30oz. Vinyl



## REPLACEMENT LINERS

SIZE (GAL)	22 OZ. EXLON®	22 OZ. VINYL/28 OZ. BASE	30 OZ. VINYL
	PART	PART	PART
600	19927	19900	19909
1000	19928	19901	19910
1500	19929	19902	19911
2100	19930	19903	19912
2500	19931	19904	19913
3000	19932	19905	19914
3500	19933	19906	19915
4000	19934	19907	19916
5000	19935	19908	19917



600 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20016	20016AL
22 oz. Vinyl w/28 oz. Base	20024	20024AL
30 oz. Vinyl	20000	20000AL
1000 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20017	20017AL
22 oz. Vinyl w/28 oz. Base	20025	20025AL
30 oz. Vinyl	20001	20001AL
1500 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20018	20018AL
22 oz. Vinyl w/28 oz. Base	20026	20026AL
30 oz. Vinyl	20002	20002AL
2100 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20019	20019AL
22 oz. Vinyl w/28 oz. Base	20027	20027AL
30 oz. Vinyl	20003	20003AL
2500 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20020	20020AL
22 oz. Vinyl w/28 oz. Base	20028	20028AL
30 oz. Vinyl	20004	20004AL
3000 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20021	20021AL
22 oz. Vinyl w/28 oz. Base	20029	20029AL
30 oz. Vinyl	20005	20005AL
3500 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20022	20022AL
22 oz. Vinyl w/28 oz. Base	20030	20030AL
30 oz. Vinyl	20006	20006AL
4000 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	20023	20023AL
22 oz. Vinyl w/28 oz. Base	20031	20031AL
30 oz. Vinyl	20007	20007AL
5000 GALLON		ALUMINUM FRAME
MATERIAL	PART	PART
22 oz. Exlon®	19999	19999AL
22 oz. Vinyl w/28 oz. Base	19996	19996AL
30 oz. Vinyl	19997	19997AL

# HUSKY® SELF-SUPPORTING WATER TANKS

HUSKY® SELF-SUPPORTING WATER TANKS are the perfect solution when storage and manpower are a concern. One man set-up frees up personnel, and because these tanks are frameless, there is no assembly required and they are easy to transport and store. Husky® offers low and high side models.

Husky® Self-Supporting Water Tanks are also ideal for use in forest fire operations. The high side models are used for bucket dipping and snorkeling operations. The US Forest Service has trusted Husky® Portable Containment water tanks for over ten years. Husky® Low Side Tanks may also be utilized as a dump tank. The heavy-duty foam collar will rise as the water level increases.

Husky® Self-Supporting Water Tanks include our exclusive "Easy Lift Handles" (US Patent No. 8,746,478 and US Patent 10,518,967 ) making Husky® the easiest to handle water tanks on the market.

- Heavy duty foam collar (self rising)
- Heavy duty air collar (self rising)
- Tank sizes 500 -5,000 gal.
- 22 oz. Vinyl liners with a 28 oz. floor
- 6000 gal. and up tanks are built with 40 oz. PVC
- 2 ½" NH (NST) female flange standard
- 1 ½" - 6" Flanges available, male or female
- All flanges made from 6061-t6 aluminum
- Ground covers & top covers available
- Storage bag included

## LOW-SIDE TANKS

SIZE GAL.	WT. LBS.	DIMENSIONS (FT) HGT X TOP X BASE	FOLDED (IN)
500	39	33" x 4'10" x 7'	25" x 18"
1000	60	33" x 6'11" x 9'5"	25" x 22"
1500	75	33" x 8'8" x 11'8"	28" x 22"
2000	75	33" x 10'0" x 13'	30" x 22"
2500	95	33" x 11'2" x 14'4"	34" x 22"
3000	105	33" x 12'3" x 15'8"	34" x 24"
4000	110	33" x 14'2" x 18'	38" x 24"
5000	130	33" x 15'10" x 19'8"	38" x 28"
6000	130	33" x 17'8" x 21'6"	38" x 32"
10,000	200	33" x 22'11" x 26'9"	42" x 36"

SIZE (GAL)	PART
500	23982
1000	23983
1500	23984
2000	23985
2500	23986
3000	23987
4000	23988
5000	23989
6000	23999
10,000	24015



NOTE: Orange is standard. Other colors available upon request.

## HIGH-SIDE TANKS

SIZE GAL.	WT. LBS.	DIMENSIONS (FT) HGT X TOP X BASE	FOLDED (IN)
500	50	40" x 4' x 6'9"	25" x 18"
1000	60	44" x 5'6" x 8'6"	25" x 22"
1200	60	44" x 5'10" x 9'8"	26" x 22"
1600	75	44" x 6'10" x 10'8"	28" x 22"
1800	75	46" x 7'3" x 11'	30" x 22"
2000	75	48" x 7'9" x 11'9"	30" x 22"
2500	95	48" x 8'6" x 12'8"	34" x 22"
3000	105	48" x 9'2" x 14'2"	34" x 24"
4000	110	48" x 11' x 16'2"	38" x 24"
5000	130	60" x 10'6" x 16'2"	38" x 28"
6000	125	60" X 11'8" x 17'4"	38" x 32"
10,000	200	72" X 13'6" x 20'6"	42" x 36"
14,000	250	72" X 16'9" x 23'9"	44" x 40"
20,000	400	72" X 20'9" x 27'9"	48" x 48"

SIZE (GAL)	PART
500	23974
1000	23975
1200	23976
1600	23977
1800	23978
2000	23979
2500	23980
3000	23981
4000	23990
5000	23991
6000	23992
10,000	23993
14,000	23994
20,000	23995



## FIELD REPAIR KITS

HUSKY® STANDARD FIELD REPAIR KITS are the best solution to repair holes, rips, or tears in vinyl or EXLON®. Won't discolor over time or turn gummy in high heat. Functions in temperatures ranging from -20 to 190 degrees Fahrenheit.

20035H	22 oz. Exlon
20035V	22 oz. Vinyl
20045	30 oz. Vinyl

EACH KIT COMES WITH:

- Approximately 9 sq. ft. of PVC material
- PVC cement
- One pair of scissors
- A seam roller
- Carrying pouch
- Instructions



# HELICOPTER TANKS



## HUSKY® HELICOPTER TANKS

HUSKY® HELICOPTER TANKS are water shuttle tanks designed to be transported by helicopter and set down into forestry areas for a water supply for firefighters. Husky® Helicopter Tanks are precisely built with top quality, high-grade materials. Each tank is tested and approved before shipping. Husky® 72-gallon and 134-gallon Helicopter Tanks are designed in a tetrahedron shape for excellent stability when being transported or just sitting on the ground. The 240 and 360-gallon models are built with a round base and top and taper from bottom to top. The standard material for Husky® Helicopter Water Tanks is a heavy-duty 40 oz. reinforced PVC. They are also available in a potable NSF 61-approved material, which is great for filling backpacks or for drinking water.

- Heavy duty 40 oz. reinforced PVC construction
- Available in "Potable" NSF 61 approved material for drinking water
- 72 gal, 134 gal, 240 gal, and 360 gal models
- Can be transported by helicopter or truck
- Heavy duty harness can be tied off to a tree to keep from rolling on steep slopes
- 4" fill port allows quick filling and access to the inside of the tank if needed
- 3/4" flanged outlet
- Heavy duty 1" reinforced hose with durable spigot attached
- Repairable with field repair kit (Optional)
- 240 & 360 gallon models come standard with 2" NPT Female Rigid Flanges and one Ball Valve

PART	MATERIAL	CAPACITY	FILLED DIMENSIONS	FOLDED DIMENSIONS	EMPTY WT. (LBS)	FILLED WT. (LBS)
21758	PVC	72 Gallons	45" x 45" x 40"	20" x 20" x 5"	10	610
21758P	Potable	72 Gallons	45" x 45" x 40"	20" x 20" x 5"	10	610
21759	PVC	134 Gallons	53" x 53" x 44"	24" x 24" x 5"	12	1130
21759P	Potable	134 Gallons	53" x 53" x 44"	24" x 24" x 5"	12	1130
21760	PVC	240 Gallons	4'6" x 2'6" x 42"	28" x 28" x 8"	25	2030
21760P	Potable	240 Gallons	4'6" x 2'6" x 42"	28" x 28" x 8"	25	2030
21761	PVC	360 Gallons	5'3" x 3'3" x 42"	32" x 32" x 10"	35	3100
21761P	Potable	360 Gallons	5'3" x 3'3" x 42"	32" x 32" x 10"	35	3100

## HOSE STANDS

Hard Suction Hose Stands are for use with Husky® Self Supporting Tanks.

- Aluminum and lightweight steel construction
- Can be used inside or outside of the tank
- Opens in one motion, no pins or snaps
- Locks in one turn
- Easily stored
- Adjustable height ranging from 26" – 42"
- Base size deployed, 17" x 17"
- Collapsed size 17" x 3" x 30"
- 13 lbs. total weight

24009 | Hose Stand



## SUPPLY LINE BRACKETS

Clamp HUSKY® SUPPLY LINE BRACKETS to your Folding Frame Tank or AQUA Tank, connect your supply line and let the water run. Lightweight and durable brackets will clamp to any size frame round tube or square tube, aluminum or steel. Adjustable clamps are very strong and designed not to release unless YOU release them. Brackets also come in a Double Bracket version with two supply line connections on one bracket.

- 6061-T6 aluminum construction
- NH (NST) Female threads are standard
- Long or short handle swivels
- Camlock or Storz fittings available



HOLDERS		
24003	2½"	NST OR STORZ
24004	3"	NST
24005	4"	NST OR STORZ
24006	5"	NST OR STORZ
24007	2½" (Double)	NST OR STORZ
24008	3" (Double)	NST





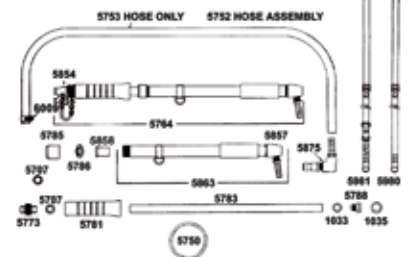
# BACKPACK FIRE PUMPS

## METAL BACKPACK PUMP

Wildland warriors have been depending on Indian fire pumps on the fire line for over 80 years. Kidney shaped tank with baffle and contoured back support provides for greater comfort and balance. Filter screen located inside tank at outlet prevents clogging from leaves or other debris. Combination nozzle allows for change from a straight stream to a cone spray quickly and easily. Pumps can be disassembled by hand for complete in field maintenance.

- Available in stainless and galvanized steel
- Ventilated tank cap uses a cam lock design with a watertight gasket for positive closure
- Large 4" filler opening
- Removable 1.75" heavy duty polypropylene shoulder straps with sliding clip on strap
- Carrying handle located at top of tank has clips for storing pump
- Slide pump fabricated from (2) seamless brass cylinders.
- Guide bushing on the inner cylinder
- Empty weight: Galvanized: 11 lbs.  
Stainless Steel: 10 lbs.
- CAPACITY: 5 US Gallons

24176	Galvanized Backpack
24177	Stainless Steel Backpack
24179	Vehicle Bracket w/straps



## SMOKECHASER

The collapsible **SMOKECHASER** eliminates storage problems encountered with metal tanks. Bag is constructed of a strong polyester fabric encased in tough vinyl for superior durability and resistance to weather, acid, alkalis, and water. The combination nozzle allows for change from a straight stream to a cone spray quickly and easily without any special tools. Shoulder straps and carry handle will not rot or mildew. Conforms to the back for comfortable carrying.

- Seams are electronically sealed and reinforced at all stress points
- Completely rust proof, solid brass pump.
- Positive shutoff at any position
- Pump tested 50,000 strokes at 4 psi without loss of efficiency
- Military spec shoulder strap is equipped with clip to hold pump
- Oil proof 44" long hose with a rust proof ball bearing quick connect
- Meets USFS Spec. No. 5100-257
- WEIGHT: 4½ lbs. (empty)
- CAPACITY: 5 Gallons
- FOLDED SIZE: 19½" x 2"

24180 | Smokechaser



## SMOKECHASER PRO

Designed to offer the most comfort in the most grueling conditions of fire control. Equipped with the all-brass Fedco pump that is approved by the US Forest Service, the **SMOKECHASER PRO** also features a heavy-duty, flexible bladder that forms to the user's back when filled and is protected within a durable nylon bag.

- Easy to Refill: Large filler cap located at the TOP of the bag
- No Leak Performance
- Ergonomic wedge shape design nylon pack and durable internal liner bag
- Integrated Storage: Compartments ideal for field supplies and small tools including a fire shelter area
- Proven Pump: USFS approved, quick priming pump
- Quick Connect attachment allows for rapid attachments and disconnects
- High Visibility integrated reflective piping throughout the design
- Extra padding on wide shoulder harness and lumbar support
- Flow: Rated for 0.75 gallons per minute
- 5 gallon, 20 liter capacity
- Collapses and folds up when not in use

24180 | Smokechaser Pro



SMOKECHASER REPLACEMENT PARTS	
5785	Cap Nut
5786	Felt Wiping Ring
5788	Piston
5854	Twin Nozzle w/Chain & Ring
5857	Foot Valve Assembly
5858	Nylon Bushing
5863	Outer Cylinder Assembly
5875	Hose Connector
5980	Carrying Strap
5981	Carrying Strap with Snap
6426	Bag w/Carrying Handle Only
5799	Outside Cylinder Only
1033	'O' Ring
1035	'O' Ring
6009	Hose Clamp
5707	Rubber Washer
5750	Cap for 6426 Bag
5752	Hose Assembly, Complete (6009, 5753, 5875)
5753	3/8" Hose Only - No Fittings
5764	Slide Pump, with Twin Nozzle
5773	Nozzle Adapter
5780	Brass Grip
5783	Inside Cylinder Only
5927	Inside Cylinder Assembly

# DRIP TORCH & ACCESSORIES

## DRIP TORCH

A **DRIP TORCH** is an effective tool for wildfire suppression, controlled burning, and other forestry applications to intentionally ignite fires. Our versatile Drip Torch is used for firing semi-dry fuels and is an ideal tool for prescribed burning, back firing, roadside burning, slash and brush disposal.

Constructed from 15 gauge seamless aluminum with a rugged forged aluminum bottom to prevent wear and punctures. Cascade's Drip torch incorporates a ball check valve and fuel trap to prevent flashbacks and a breathing tube with a shut-off to prevent fuel leaks when in the storage mode. Spout is reversible for storage.

- **CAPACITY:** 1¼ US Gallons
- **EMPTY WEIGHT:** 5 lbs.
- **SHIPPING WEIGHT:**  
Drip Torch - 6 lbs.  
Truck Bracket - 2½ lbs.
- **HEIGHT:** Closed - 14"  
Assembled - 25"
- **DIAMETER:** 6"
- **UN/DOT approved**
- **Meets USDA Spec 5100-614**

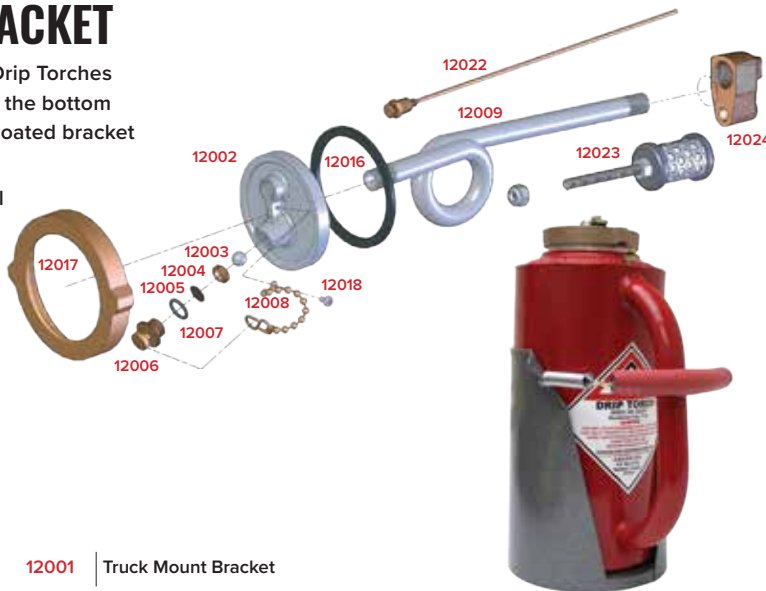


12000 | Drip Torch

## DRIP TORCH BRACKET

The truck mount bracket holds Drip Torches in an upright position. 4 holes in the bottom are used for mounting. Rubber coated bracket prevents scratching.

- Powder coated 18 gauge steel
- **SHIPPING WEIGHT:** 2½ lbs.



12001 | Truck Mount Bracket

### DRIP TORCH REPLACEMENT PARTS

12002	Tank Cover
12003	Check Valve Ball
12004	Check Valve Seat
12005	Outlet Screen
12006	Discharge Sealing Plug
12007	Discharge Plug Gasket
12008	Discharge Plug Chain
12009	Spout and Fuel Trap
12016	Tank Collar Gasket
12017	Tank Cover Lock Ring
12018	Chain Screw
12022	Breather Tube Assembly
12023	Igniter
12024	Nozzle
12025-N	Drip Torch Part Kit



# POCKET WEATHER METERS

Firefighters and Hazmat professionals understand the importance of reliability and urgency. Kestrel Meters are ready to take critical, accurate measurements fast.



## WILDLAND

Wildland firefighters can replace their entire belt weather kit with a Kestrel Pocket Weather Meter smaller than their radio.



## STRUCTURAL

Safety demands accurate situational wind speed measurements BEFORE deploying ladders and aerial equipment.

## ALL MODELS INCLUDE

- Protective cover
- Large easy-to-read display
- Waterproof and floats
- User-replaceable impeller
- US Manufacturing
- Certificate of Conformity
- 5-year Warranty



MODELS	89000 KESTREL 1000	89001 KESTREL 2000	89002 KESTREL 2500	89003 KESTREL 3000	89004 KESTREL 3500	89005 KESTREL 5000	89006 KESTREL 5500
CURRENT WIND SPEED	✓	✓	✓	✓	✓	✓	✓
MAX WIND GUST	✓	✓	✓	✓	✓	✓	✓
AVERAGE WIND SPEED	✓	✓	✓	✓	✓	✓	✓
WIND DIRECTION							✓
AUTO CROSSWIND CALCULATION							✓
HEADWIND/TAILWIND							✓
TEMPERATURE		✓	✓	✓	✓	✓	✓
WIND CHILL		✓	✓	✓	✓	✓	✓
RELATIVE HUMIDITY				✓	✓	✓	✓
HEAT STRESS INDEX				✓	✓	✓	✓
DEWPOINT TEMP				✓	✓	✓	✓
BAROMETRIC PRESSURE			✓		✓	✓	✓
ALTITUDE			✓		✓	✓	✓
WET BULB TEMP					✓	✓	✓
DENSITY ALTITUDE						✓	✓
DIGITAL COMPASS							✓
BACKLIT DISPLAY		✓	✓	✓	✓	✓	✓
HARD COVER	✓	✓	✓	✓	✓		
CLOCK			✓		✓	✓	✓
PRESSURE TREND			✓		✓	✓	✓
DATA STORAGE						✓	✓

# FORESTRY HAND TOOLS

## PULASKI SHEATH

High visibility orange polypropylene sheath to fit the Forestry Service Pulaski axe. Sheath covers both the axe end and the mattock end to protect the tool and the user.

11189 | Pulaski Sheath



## PULASKI TOOL

The Pulaski tool combines an axe bit with an adze-shaped grub hoe on a 36" wood handle. The pulaski is a versatile tool for constructing firebreaks, as it can be used to both dig soil and chop wood and is effective for digging in root-bound or hard soil.

- Head made from an alloy tool steel
- Handle is a No. 1 hickory
- LENGTH: 36"
- WEIGHT OF HEAD: 3 3/4 lbs.
- OVERALL WEIGHT: 5 lbs.

40258 | Pulaski Tool  
40259 | Replacement Handle



## SUPER PULASKI

Cascade's Super Pulaski doubles the hoe blade size of the original Pulaski. A versatile tool for constructing firebreaks, used to both dig soil and chop wood and is effective for digging in root-bound or hard soil.

- Head made from an alloy tool steel
- Handle is a No. 1 hickory
- LENGTH: 36"
- WEIGHT: 6 1/2 lbs.



40282 | Super Pulaski Tool  
40259 | Replacement Handle



## MCCLEOD TOOL

The McCleod has a large hoe-like blade on one side and a tined blade on the other. The hoe blade is effective in cutting through heavy grasses, deep litter and matted brush, while the non-clogging rake tines can be used in pine needles, duff and leaf mold.

- High carbon heat treated steel blade
- Rust resistant black enamel finish
- Enhanced ferrule joint for strength
- 48" strong American ash handle
- Meets USFS Spec. No. 5100-353
- LENGTH: 48 1/2"
- HEAD: 9" x 9 3/4"
- WEIGHT: 4 3/4 lbs.

40251 | McCleod Tool  
40252 | Replacement Handle



## SHASTA & SHASTINA

The Cal Fire crew in Shasta County, California helped Cascade Fire Equipment design the Shasta Tool. The combination of a 4 tined rake and a sharp, curved shovel blade make it a highly effective tool for digging, clearing brush, and building fire lines. The Shastina is a smaller, more compact version of the Shasta Tool with a shorter handle and a smaller blade, making it lighter, easier to carry, and easier to use.

- Heavy duty .125 high carbon steel blade
- Heat treated for toughness
- Black enamel finish
- Removable, replaceable head
- Strong, durable ash handle; Shasta: 48"; Shastina: 40 3/4"
- Blade size: Shasta: 9 1/2" x 9"; Shastina: 8" x 9", Tines: 3 1/2"



40286 | Shasta Tool  
40252 | Replacement Handle  
40288 | Shastina Tool



## FORESTRY SHOVEL

The strong, durable Forestry Shovel is a great tool for removing debris from forest fires. Blade is sharpened on both sides and the angle of the handle allows for maximum scraping area at the edge of the blade.

- Forward turned-step
- Industrial ¾" by 11" solid shank head
- 38" handle
- Meets USFS Spec. No. 5100-326
- OVERALL LENGTH: 51"
- WEIGHT: 3½ lbs.



40270 Forestry Shovel  
40271 Replacement Handle

## HOE SHOVEL

Cascade's Hoe-shovel is two tools in one, giving the user more versatility and less weight to carry. A wide shovel can be converted to a hoe with an adjustable pin.

- Forged solid shank blade sharpened on both ends
- 38" handle
- OVERALL LENGTH: 51"
- WEIGHT: 4 lbs.

40280 Hoe-Shovel  
40280-3 Snapper Pin for Hoe-Shovel



## RHINO TOOL

Cascade's Rhino tool is a must on the fire line. A sharpened curved blade makes for easier digging and brush removal.

- Curved, sharpened blade
- Blade is a forged solid shank
- 38" handle
- OVERALL LENGTH: 44"
- WEIGHT: 3¼" lbs.



40283 Rhino Tool  
40271 Replacement Handle



## ADZE HOE

The Adze Hoe blade is set at an "adze angle" and excels in areas where entangled fuels such as swamp maple, vine grape and deep ground litter is encountered.

- Made of electronically tempered alloy tool steel
- Conforms to USFS specifications
- 34¼" Hickory handle fits 2" tapered oblong eye
- BLADE: 6½" x 5¾"
- WEIGHT: 4¾ lbs.

40262 Adze Hoe  
40263 Replacement Handle



## ROGUE HOE & ROGUE PICK HOE

Requested by an Oregon Hot Shot crew and manufactured in the heart of the USA, Rogue tools are made using the hardened steel of recycled agricultural disc blades. The Pick Hoe has a pick on one end. Excellent for fire line and trail building.

- Made of tempered steel
- Sharpened on three sides
- Synthetic wood/metal adhesive secures head
- 40" curved hickory handle
- HEAD: Hoe: 8½" x 7", Pick: 9½" x 6"
- WEIGHT: Hoe: 5 lbs., Pick: 4¾ lbs.

40287 Rogue Hoe  
40285 Rogue Pick Hoe

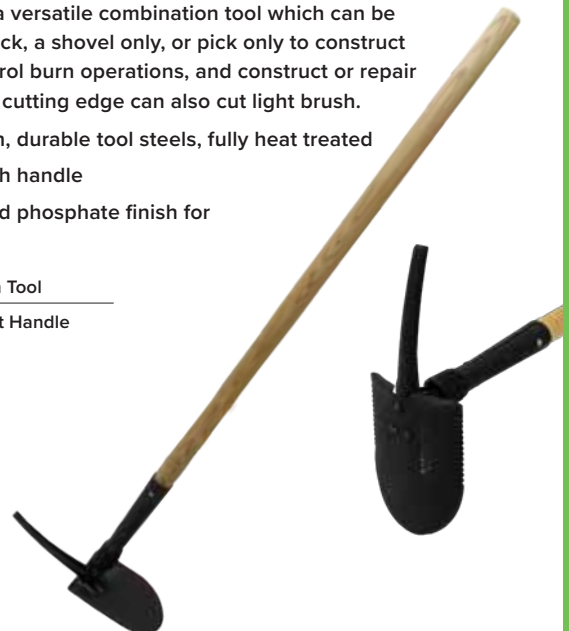


## COMBI TOOL

The Combi Tool is a versatile combination tool which can be used as a shovel/pick, a shovel only, or pick only to construct fire lines, help control burn operations, and construct or repair trails. Shovel end's cutting edge can also cut light brush.

- Made from tough, durable tool steels, fully heat treated
- 42" American ash handle
- Black enamel and phosphate finish for rust resistance

40240 Combination Tool  
40241 Replacement Handle

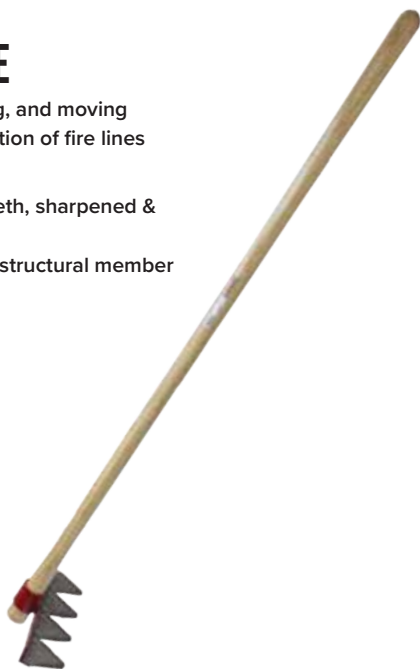


## MOWER BLADE RAKE

Durable forestry tool for chopping, raking, and moving underbrush vines. Designed for construction of fire lines during controlled burns and wildfires.

- 4 triangular shaped tool steel cutting teeth, sharpened & hardened
- Securely riveted to a tough angle iron structural member
- Red enamel coating on body
- Meets USFS Spec. No. 5100-284C
- 52" strong American ash handle
- WEIGHT: 3½ lbs.

40255	Mower Blade Tool
40256	Replacement Handle
40257	Replacement Head

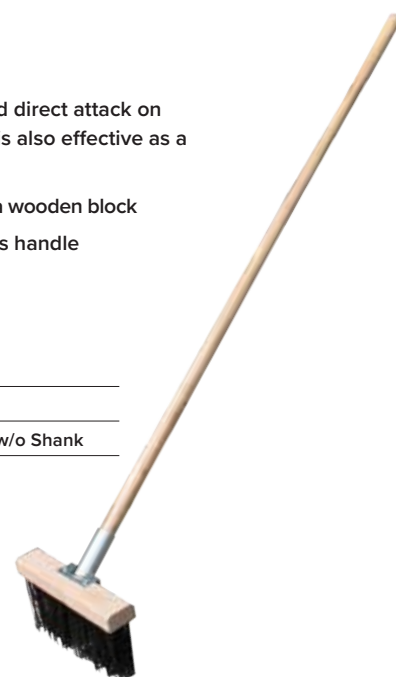


## FIRE BROOM

For grain and grass fires and direct attack on range fires, the Fire Broom is also effective as a mop-up tool.

- Heavy, flat steel bristle in a wooden block
- Steel shank firmly secures handle
- 54" hard wood handle
- Replaceable broom head

40300	Complete Fire Broom
40301	Replacement Head
40302	Replacement Handle w/o Shank
40303	Replacement Shank



## FIRE FLAIL

Fire Swatters or Flails are used to smother fires in light fuels, such as pasture grasses, pine-needle and light hardwood litter in direct attack on range fires. Use flails to knock down the flames, then mop up the fire with water from you backpack pump or by scraping it with a fire rake.

- Fire resistant flap made from reinforced belting
- Cross member and shank constructed from high carbon steel
- 12" x 15" x 3/16" fire resistant flap
- Overall length: 75"
- WEIGHT: 5½ lb.

40253	Fire Flail
40254	Replacement Handle



## SWEDISH BRUSH AXE

A machete-like tool with a short, replaceable blade. Its shorter handle and lighter weight make it faster, easier to control, and safer to use than regular axes or machetes. Blade easily cuts through springly hardwood stems.

- Razor sharp steel blade
- Deer-foot style hickory handle
- Overall length: 27"
- Blade cutting edge: 5½"
- WEIGHT: 2 lbs.

40264	Swedish Brush Axe
40265	Replacement Blade
40266	Replacement Handle



# PIKE POLES

Modern firefighting pike poles are used to search for fires hidden behind walls and ceilings, to pull items from intense heat and flames, and to ventilate structures by breaking windows.

## NY ROOF HOOK

The NY Roof Hook has been around for over 25 years of successful service as the “official” hook of the New York Fire Department. Stainless steel wear sleeves are drawn over the fiberglass pole at each end of the hook for increased strength and durability. The chisel end is used as a prying tool for scuttle hatches and roof doors. The short lengths are good for going up fire escapes and scuttles to the roof. An all-purpose head, aircraft steel shaft, chisel end, and celtex grips makes up this unit.



- All components are welded
- Electrically non-conductive.
- All-purpose head
- Aircraft steel shaft
- Chisel end
- Celtex grips

- 4' NY Roof Hook
- 5' NY Roof Hook
- 6' NY Roof Hook
- 8' NY Roof Hook



## PIKE POLES

Millions of fiberglass strands pultruded over a honeycomb core are the secret to providing the strength of Nupla's traditional Super Duty Pike Poles with an ounce weight savings per foot length. These Pike Poles offer strength, safety and durability benefits, plus extra rigidity, making them easier to maneuver.

**PLEASE NOTE:** Poles longer than 8' cannot be shipped UPS; must be shipped Motor Freight.



PIKE POLES	
20054	Pike 6'
20055	Pike 6' w/D Grip
20056	Pike 8'
20057	Pike 8' w/D Grip
20058	Pike 10'
20059	Pike 10' w/D Grip
20060	Pike 12'
20061	Pike 12' w/D Grip
20062	Pike 14'
20063	Pike 14' w/D Grip
20065	Pike 16'
20066	Pike 16' w/D Grip

## NUPLA PIKE POLES

Bright yellow; highly visible both in use and for finding lost tools during cleanup

- Safe from electric shock — excellent dielectric value
- Does not absorb moisture, resists industrial chemicals and fire retardant
- Does not conduct heat/cold, easy to handle in extreme temps
- Several times stronger than wood
- Available with aluminum D grip handle
- Easily cleaned of tar, soot, etc.

**CALL FOR PRICING!**

## VENTILATION HOOKS

Developed in conjunction with the Los Angeles Fire Department to provide a rugged tool for ventilation of buildings constructed of modern sheet materials, such as plywood. Ductile iron casting has two hooks for better control of sheet materials, broader surface for sounding. 'V' structural supports prevent hook from hanging up.

VENTILATION HOOKS	
20067	Roof Pole 4'
20068	Roof Pole 4' w/D Grip
20069	Roof Pole 6'
20071	Roof Pole 6' w/D Grip
20072	Roof Pole 8'
20073	Roof Pole 8' w/D Grip
20074	Roof Pole 10'
20075	Roof Pole 10' w/D Grip
20076	Roof Pole 12'
20077	Roof Pole 12' w/D Grip
20078	Roof Pole 14'
20079	Roof Pole 14' w/D Grip
20080	Roof Pole 16'
20081	Roof Pole 16' w/D Grip



## PIKE POLE BRACKETS

These brackets are used to hold Pike Poles securely to fire apparatus. The Pole Bracket has a 1 7/8" opening and can be mounted upright or on a side wall. The head bracket comes in either upright or side wall mounting configuration. The brackets are available in cast aluminum with a polyurethane coating or polished chrome.



PIKE POLE BRACKETS		
11165	Ring Bracket	ALUMINUM OR CHROME
11166	Fork Bracket	
11167	Vertical Fork Bracket	
11168	Pole Bracket	



## PIKE HEAD COVERS

Heavy duty vinyl covers fit standard Pike Heads and protect both the firefighter and the pike head.

11169 | Pike Head Cover



# FORCIBLE ENTRY TOOLS

## FIRE AXES

Nupla® 'E' Series Axes utilize the latest technology in fiberglass handles for perfect balance, comfort, safety, and strength.

- Pultruded fiberglass core with molded exterior jacket of polymer
- Bright yellow handles are easy to locate & are easy to clean
- Tempered and ground edges on the drop-forged heads for long-lasting use



40311 | 36" Fire Axe: 6 lb

## PICK HEAD AXE

The finest axe steel, heat treated and normalized, this axe withstands the most rugged service.

- Precision balanced
- 6 lbs. axe is available with fiberglass or clear finish No. 1 hickory handle
- 1½ lbs. and 2¾ lb. axes are available with hickory handles

		LGT	WGT
40226	Pick Head Axe: Hickory	15"	1½ lb
40227	Pick Head Axe: Hickory	28"	2¾ lb
40228	Pick Head Axe: Hickory	36"	6 lb
40229	Pick Head Axe: Fiberglass	36"	6 lb



## SLEDGE HAMMER

Tough and durable double flat face withstands overstrikes better than wood handles.

- Nupla® fiberglass, 32" handle
- Molded safety grip easy to handle with dirty or sweaty hands

40320	32" Sledge Hammer: 6 lbs.
40321	32" Sledge Hammer: 8 lbs.
40322	32" Sledge Hammer: 10 lbs.
40323	32" Sledge Hammer: 12 lbs.



## FLAT HEAD AXE

The finest axe steel, heat treated and normalized, make this axe ideal for cutting or driving.

- Precision balanced
- Available with either No. 1 clear finished hickory or fiberglass handles
- LENGTH: 36" 40232 | Flat Head Fire Axe: Hickory
- WEIGHT: 6 lbs. 40233 | Flat Head Fire Axe: Fiberglass



## CRASH AXE

Ideal for police and fire apparatus, lightweight, heavy duty & well balanced crash axes deliver prompt results in an emergency.

- One-piece drop-forged steel axes
- Steel handles
- Rubber insulated to 20,000 Volts
- Will go through heavy metals
- WEIGHT: 2½ lbs.
- LENGTH: 15"
- Optional Leather Sheath fits belts up to 2" wide.



50307	Crash Axe
50308	Serrated Crash Axe
50309	Leather Sheath

## POWER DRIVE HAMMER

Pliable cushion grips reduce effort, strain, vibration, and noise.

- Shot-loaded rubber compound head
- Fiberglass handle
- Nuplaflex® head covering material will not mushroom or delaminate
- Won't mar struck surface

20250	Power Drive® Hammer, 1 lbs.
20251	Power Drive® Hammer, 2 lbs.
20252	Power Drive® Hammer, 3 lbs.
20253	Power Drive® Hammer, 4 lbs.





## PRO-BAR 30

The PRO-BAR is the halligan type entry tool that is recognized worldwide and is the only halligan type tool used by the New York City Fire and Police Department for the last 30 years. The Pro-Bar 30 is a one piece dropped forged halligan with the pro-bar design. The fork, adz, and point are designed with the correct lengths, widths, and tapers to enable the firefighter to effect easy penetration and maximum leverage.

- Halligan-type forcible entry tool.
- Drop forged, one-piece construction, of alloy steel
- All Pro Bars are nickel plated
- 30" or 36" length
- The 36" Halligan type entry tool comes with Celtex Grip



40209 | 30" Pro-Bar  
40210 | 36" Pro-Bar

## CROWBAR

This basic tool for all fire departments is made of forged steel with a black finish.

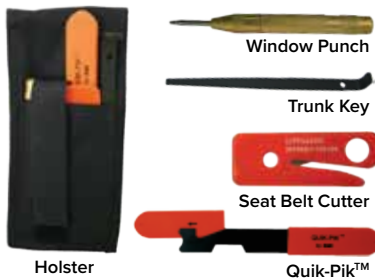
		LGT	WGT
40214	Fireman's Crowbar	36"	8 lb
40215	Fireman's Crowbar	51"	12 lb
40216	Fireman's Crowbar	60"	18 lb
11187	Set of Crowbar Holders		



## XTRACTOR AUTO RESCUE KIT

Gain quick and easy access to all trapped victims with EMI's Xtractor Auto Rescue Kit. All tools stored conveniently in a 1st Response Holster. An essential first-on-the-scene kit for all rescue personnel.

- LENGTH: 7" x 3½" x .75"
- WEIGHT: 9 oz.



40238 | Xtractor Auto Rescue Kit

## GENERAL PURPOSE CUTTERS

H.K. Porter's popular cutters have all-purpose jaws with center-cut blades able to handle soft, medium and hard metals. Toggle joints turn 50 lbs. hand pressure to 4000 lbs. cutting pressure.

- Maximum hardness of material to be cut: Brinell 455/ Rockwell C48
- Drop forged, precision ground, alloy tool steel jaws with center-cut blades
- Black rubber-covered grips
- Screw-type adjustment realigns edges
- Lock plate keeps jaws from loosening

	WGT	LGT
40234	2¾ lb	14"
40235	3½ lb	18"
40247	5¼ lb	24"
40248	8½ lb	30"
40249	12.86 lb	36"
40250	17.13 lb	42"



## HOOLIGAN & AXE MARRYING STRAPS



Dual straps designed to hold both an Axe and a Hooligan Tool. Made from tough polypropylene webbing.

40231 | Hooligan/Axe Retaining Straps

## DELUXE HOOLIGAN & AXE SLING

Securely holds a flat head axe and hooligan tool

- Made of tough, durable Cordura® and polypropylene webbing
- Padding over tool edges
- Strong velcro straps and elastic lining hold tools securely in place
- Shoulder strap attaches with strong swivel clips



40346 | 30" Deluxe Hooligan Axe Sling

40347 | 36" Deluxe Hooligan Axe Sling

## K-TOOL KIT

The K-TOOL KIT allows you to force an aluminum and glass door in about 30 seconds without damage to the door or glass, and be able to relock the door after operations are complete. Pull lock cylinders from ALL types of doors permitting the user to then insert a special Key Tool into the cylinder hole and trip the lock to the open position. "THRU THE LOCK" method of forcible entry which utilizes the K-TOOL is a superior method of forcible entry for:

- Speed and ease of entry
- Less property damage
- Good public relations



40222 | K-TOOL Kit

## CHAIN CUTTERS

Extremely strong, durable tool for hard, non-alloy chain ½" capacity.

- Maximum hardness of material to be cut: Brinell 455/ Rockwell C48
- Toggle joints turn 50 lbs. hand pressure to 4000 lbs. cutting pressure
- Lock plate keeps jaws from loosening
- Screw-type adjustment realigns edges
- Short-nosed jaws with high-tempered, center-cut blades

	WGT	LGT
40242	5¾ lb	24"
40243	13 lb	36"
40244	18 lb	42"



# TOOL HOLDERS & BRACKETS



## TOOL HOLDERS

Made from carbon steel, spring tempered and coated with black poly vinyl, these clips securely hold small tools neatly in place. Good for bolt cutters, screwdrivers, pliers, etc. Can be mounted on any surface.

11190	1/4" diameter Holder
11191	1/2" diameter Holder
11192	3/4" diameter Holder
11193	1" diameter Holder
11198	1 1/4" diameter Holder
11194	1 1/2" diameter Holder
11195	2" diameter Holder



## HEAVY DUTY BRACKETS

Heavy Duty Tool Brackets made of polished aluminum with covered jaws. The spring-loaded brackets are ideal for holding tools and handles from 3/4" to 1 3/4". They can be mounted horizontally or vertically. There are two sizes:

- 11164 and 11171 hold tools from 3/4" to 1", the length is 3 7/8"
- 11170 and the 11172 hold tools from 1 1/8" to 1 3/4", the length is 5 3/8"

11164	Horizontal Bracket: Sm
11170	Horizontal Bracket: Lg
11171	Vertical Bracket: Sm
11172	Vertical Bracket: Lg

## AXE & HOOLIGAN TOOL BRACKETS

Set of 2 Pry Axe & Hooligan Tool Brackets.



40208 | Pry Axe Brackets



## SHOVEL BRACKETS

Formed steel brackets hold shovels securely on fire trucks or other vehicles. Mount on the side of trucks or on decks (flat mount).

40272	Blade Bracket: size "0"
40273	Blade Bracket: size "2"
40274	Handle Bracket Flat Mount
40275	Handle Bracket Side Mount

## RUNNING BOARD HOLDERS

Mounting plates fastened to the running board or in cabinets by bolts will securely hold nozzles, tips and fittings. Aluminum with nickel chrome-plated finish.



	MALE THREADS	WT (LBS)
11176	3/4"	1/8
11177	1"	1/4
11178	1 1/2"	3/8
11179	2 1/2"	7/8
11180	3"	1 1/8
11181	4"	1 3/4
11182	4 1/2"	2 1/4
11183	5"	2 7/8
11184	6"	3 3/4

## QUIC-LOC NOZZLE HOLDER

For mounting on 2 1/2" or 1 1/2" Nozzles on running board or in compartment. Positive grip, one hand release. For any 2 1/2" hose thread except NPSH. Chrome plated finish. Diameter 5", weight 1 1/2 lbs.



10253	Quic-Loc for 1 1/2"
10252	Quic-Loc for 2 1/2"

## AXE BLADE BRACKET

Box-type Blade Bracket completely covers the axe blade. Textured chrome finish.



11185 | Axe Blade Bracket

## AXE HANDLE BRACKET

Spring-loaded Handle Bracket securely holds the axe handle. Designed for side wall mounting. Textured chrome finish.



11186 | Axe Handle Bracket

## CROWBAR HOLDER

Spring loaded set used to hold a standard crowbar of any length securely, yet can be easily removed. Textured chrome finish.



11187 | Set of Crowbar Holders

## HAND RAILS

Hand Rails are extruded polished aluminum with rubber insert. The O.D. is 1.25" and fits the below Rail Brackets. Specify length when ordering. Maximum length is 6 feet.



10368 | Chrome Plated Hand Rail

## HAND RAIL BRACKET

Grab Rail Mounting Brackets have a polished chrome finish. Fits a standard 1 1/4" O.D. rail, 3" from base to center of hand rail. Available for end or center of rail mounting.



10367 | Rail Bracket - End Mount

10366 | Rail Bracket - Center Mount

## NOZZLE 3" QUICK FIST

- Nozzles, small extinguishers from 2 3/4" to 3 1/4" diameter
- Safe Working Load: 50 lbs.

13101 | Nozzle Quick Fist



## SUPER QUICK FIST

- Cylinders from 2 1/2" to 9 1/2" diameter
- Safe Working Load: 50 lbs.



13103 | Super Quick Fist



## MINI QUICK FIST

- Small tools, Halligan bars from .62" to 1.3" diameter
- Safe Working Load: 25 lbs.

13105 | Mini Quick Fist



## QUICK FIST

- Hand tools like shovels, axes, pike poles from 1" to 2 1/2" diameter
- Safe Working Load: 25 lbs.

13104 | Quick Fist



## LONG ARM CLAMP

- Items that coil, multiple tools, items with handle from 1/2" to 4 1/2" diameter
- Safe Working Load: 50 lbs.

13102 | Long Arm Clamp



## ASSORTMENT OF QUICK FISTS

- 4 Nozzle (13101)
- 4 Long Arm (13102)
- 6 Super (13103)
- 20 Quick Fist (13104)
- 8 Mini (13105)

13100 | Quick Fist Carton



# PAC TOOL MOUNTS



## TOOLOK-HD

Versatile and easy to use Toolok bracket provides secure mounting for a wide variety of tools and equipment. A wider mounting base with strength enhanced base material for increased stability and a thicker walled locking strap for more strength.

- High performance elastomer GRIPLOK is rated to 5400 PSI
- Weather, UV resistant
- Non-conductive
- Mounted horizontally or vertically
- Certified NFPA 1901
- Military Grade B shock tested

DIMENSIONS: 4.3"L x 10"W x 3"H

WEIGHT: .2 lbs.

GRIP RANGE: 1/8" to 1 1/2"

1003HD | ToolokHD



## HANDLELOK

The HANDLELOK provides an adjustable positive locking method to secure axes, hammers, bars and many other tools and equipment. Soft textured pad for extra grip and a STRETCHLOK strap for instant release.

- Weather, UV resistant
- Non-conductive
- Mount horizontally or vertically
- Certified NFPA 1901
- Military Grade B shock tested

DIMENSIONS: 3.9"L x 1.8"W x 4"H

WEIGHT: .4 lbs.

GRIP RANGE: 1/8" to 1 3/4"

1004 | Handlelok



## FLEXMOUNT

FLEXMOUNTS are flexible Y-shaped brackets designed to provide a secure grip-like mount for poles, nozzles and a wide variety of other tools and equipment. Tall size to accommodate tools with larger heads or handles. Short size for poles.

- Weather, UV resistant
- Non-conductive
- Mounted horizontally or vertically

DIMENSIONS: Tall-2.6"L x 1.9"W x 5.4"H

Short -2.6"L x 1.9"W x 3.8"H

WEIGHT: Tall -.4 lbs., Short-.3 lbs.

GRIP RANGE: 1 3/4" to 2 1/2"

1002 | Flexmount-Tall  
1002-2 | Flexmount-Short



# TURTLE TILE



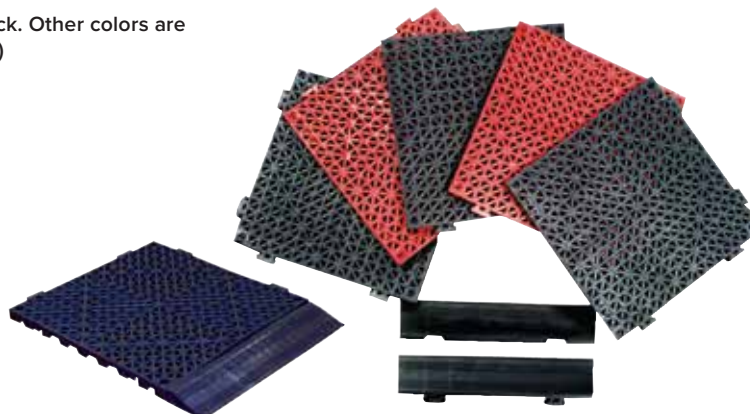
# Turtle Plastics

TURTLE TILES are ideal for matting hose beds and apparatus compartments. They can also be used in work areas that require cushioned surfaces, good drainage, as well as resistance to fungus, mold, and common chemicals. Turtle Tiles can be applied over virtually any surface on an emergency vehicle and can be mounted to any surface using the countersunk hole in the corners of the tile. Two locks on each side allows them to be interlocked to form a large, sturdy matting system.

- Tough interlocking polyvinyl chloride cushion tiles
- 12" x 12" x 3/4" high with 81 sturdy feet, provide even support
- Meet or exceed most NFPA and OSHA friction recommendations
- 12" x 2 3/4" ramp available used to finish the edge of the matting
- Standard colors are red and black. Other colors are available in carton lots (36 each)

14000	Black Tile 12" x 12"
14001	Red Tile 12" x 12"
14002*	Black Ramp 12" x 2 3/4"
14003*	Red Ramp 12" x 2 3/4"

\*Please indicate Male or Female connections on ramps.



### USE TURTLE TILE FOR:

- Steps & rear bumper step
- Walk throughs
- Running boards
- Top decks
- Aerial platforms
- Hose beds
- Apparatus compartments
- Work areas

# VEHICLE EQUIPMENT

## WHEEL CHOCK BLOCKS

These top-of-the-line chocks prevent sliding or creeping of vehicles and equipment under any weather conditions, with curved surfaces to fit tires and patented teeth to sustain the heaviest loads. Every chock is insured against breakdown.

- Available in three models: Heavy (72,000 lb. cap); Medium (55,000 lb. cap); and Light (32,000 lb. cap)
- One Heavy Duty chock holds a municipal pumper on a 15% grade. Two will support a pumper on a 30% grade
- Heavy Duty chocks exceed the 1901 NFPA standard of performance criteria by 33%



**NOTE:** All chocks available with solid bottom for an additional price.

CHOCK BLOCK	SIZE	WT
21215	Heavy Duty	8" x 8¼" x 15" 7.3 lb
21216	Medium Duty	7" x 6" x 12" 3.3 lb
21217	Light Duty	5" x 6" x 7" 2 lb

## FOLDING STEP

Convenient climbing device turns unreachable areas on vehicles into usable space.

- Size: 4⅜" wide by 2⅞" deep
- Chrome finish
- Anti-slip raised thread
- Open step protrudes 4" out from surface on which backplate is installed. Closes to within 1" of surface
- Operated by rugged flat springs
- Weight: 18 oz.

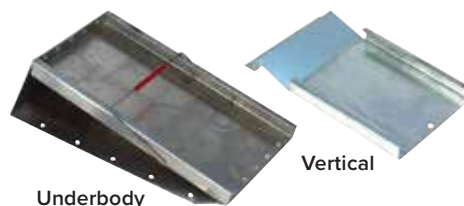


11263 | Folding Step Bracket

## STORAGE BRACKETS

Vertical and Underbody Storage Brackets are made from galvanized sheet metal.

VERTICAL STORAGE		
21218	For Chock 21215	2½ lb
21219	For Chock 21216	1½ lb
21220	For Chock 21217	¾ lb
UNDERBODY STORAGE		
21228	For Chock 21215	2½ lb
21229	For Chock 21216	1½ lb



## LARGE FOLDING STEP

These Large Folding Steps conform to NFPA 1901 and FHA, 49CFR specifications and are tested to withstand over 2000 lbs. static load.

- Made of die cast high strength zinc/aluminum alloy
- Step area has a total of 42 square inches of serrated non-skid area
- Stainless steel spring holds the step open or closed
- Furnished with a molded rubber mounting gasket to protect truck body
- Textured chrome plate

11264 | Large Folding Step



## ION iCT716 COMBI TOOL

A compact, all-metal body combination rescue tool that combines the capabilities of a cutter and spreader. It's a versatile "first on scene" tool for engines, ambulances, rescue trucks and tow recovery vehicles. It can be used to spread, cut and "pop" doors. Powered by a DEWALT<sup>®</sup> FLEXVOLT<sup>™</sup> 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

### SPECIFICATIONS

- UL Certified, NFPA 1936 compliant
- Powered by a DEWALT FLEXVOLT 60 Volt battery that can be shared with other DEWALT tools
- Length with Spreading Tips: 36 inches (915 mm); Length without Spreading Tips: 34.8 inches (885 mm)
- Width: 8.7 inches (221 mm); Height: 11.6 inches (294 mm)
- Weight (excl battery with Spreading Tips): 59 lbs (26.8 kg); Weight ready to use: 61.4 lbs (27.9 kg)
- Max Spreading Distance: 15.6 inches (396 mm); Highest Spreading Force (HSF): 7,830 lbs (34.8 kN)
- Lowest Spreading Force (LSF): 6,460 lbs (28.7 kN); Max. Spreading Force: 320,000 lbs (1423.0 kN)
- Cutter Opening: 13.8 inches (351 mm) Cutter Rating: A7/B8/C7/D9/E8/F5



iCT716

## ION iC750 CUTTER

A compact, all-metal body cutter tool designed to access tight spaces and require less room on the apparatus. The iC750 is powerful, fast, and ready to respond. It is powered by a DEWALT<sup>®</sup> FLEXVOLT<sup>™</sup> 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

### SPECIFICATIONS

- UL Certified, NFPA 1936 compliant
- Powered by a DEWALT FLEXVOLT 60 Volt battery that can be shared with other DEWALT tools
- Length: 33.7 inches (856 mm)
- Width: 8.7 inches (221 mm)
- Height: 11.6 inches (294 mm)
- Weight (excl battery): 54.6 lbs (24.8 kg)
- Cutter Opening: 7.0 inches (178 mm)
- Cutter Rating: A8/B9/C7/D9/E9/F4



iC750

## ION iC700 SHORT BLADE BATTERY CUTTER

A compact, all-metal body cutter tool designed to access tight spaces and require less room on the apparatus. The iC700 is powerful, fast, and ready to respond. It is powered by a DEWALT<sup>®</sup> FLEXVOLT<sup>™</sup> 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

### SPECIFICATIONS

- Length: 32.7 inches (829 mm)
- Width: 8.7 inches (221 mm)
- Height: 11.6 inches (294 mm)
- Weight (excl battery): 53.8 lbs (24.4 kg)
- Cutter Opening: 5.8 inches (147 mm)
- Cutter Rating: A7/B8/C7/D9/E9/F4



iC700

## iS281 SPREADER

A powerful, multi-use 28-inch spreader. By adding AMKUS' extended reach tips (ERT), the spread expands to 35.4". The unit is also shipped with removable, aggressive gator tips. It's powered by a DEWALT<sup>®</sup> FLEXVOLT<sup>™</sup> 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

### SPECIFICATIONS

- Length: 35.9 inches (912 mm)
- Width: 11.1 inches (282 mm)
- Height: 11.6 inches (294 mm)
- Weight (excl battery): 53.9 lbs (24.4 kg)
- Max Spreading Distance: 28.2 inches (716 mm), 35.4 inches (899 mm) with ERT Tips
- Highest Spreading Force (HSF): 16,430 lbs (73.1 kN)
- Lowest Spreading Force (LSF): 11,850 lbs (52.7 kN)
- Max. Spreading Force: 23,850 lbs (106.1 kN)
- Highest Pulling Force (HPF): 12,860 lbs (57.2 kN)
- Lowest Pulling Force (LPF): 9,200 lbs (40.9 kN)



iS281 SPREADER

CALL US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION



# iS320 SPREADER

A powerful, multi-use 32-inch spreader. By adding AMKUS' extended reach tips (ERT), the spread expands to 40". The unit is also shipped with removable, aggressive gator tips. It's powered by a DEWALT® FLEXVOLT™ 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

## SPECIFICATIONS

- UL Certified, NFPA 1936 compliant
- Powered by a DEWALT FLEXVOLT 60 Volt battery that can be shared with other DEWALT tools
- Length: 38.1 inches (968 mm)
- Width: 11.1 inches (282 mm)
- Height: 11.6 inches (294 mm)
- Weight (excl battery): 54.6 lbs (24.8 kg)
- Max Spreading Distance: 31.9 inches (810 mm), 39.1 inches (993 mm) with ERT Tips
- Highest Spreading Force (HSF): 15,100 lbs (67.2 kN)
- Lowest Spreading Force (LSF): 10,530 lbs (46.9 kN); Max. Spreading Force: 39,500 lbs (175.7 kN)
- Highest Pulling Force (HPF): 11,500 lbs (51.1 kN); Lowest Pulling Force (LPF): 7,580 lbs (33.7 kN)



iS320

# ION iTR 500 RAM

A compact, all-metal body body telescoping ram with the highest pushing force available in a battery powered unit. Powered by a DEWALT® FLEXVOLT™ 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

## SPECIFICATIONS

- Length: 21.9 inches (558 mm)
- Weight (excl battery): 54.8 lbs (24.9 kg)
- Stroke, Piston 1: 15 inches (381 mm)
- Stroke, Piston 2: 13.8 inches (351 mm)
- Stroke Overall: 28.8 inches (732 mm)
- Maximum Extended Length with Extensions: 50.5 inches (1283 mm)
- Highest Spreading Force (HSF) Piston 1: 48,541 lbs (216 kN)
- Lowest Spreading Force (LSF) Piston 2: 22,390 lbs (100.0 kN)



iTR 500

# ION iTR230 RAM

A compact, all-metal body body telescoping ram with the highest pushing force available in a battery powered unit. The unique rotating handle allows extra maneuverability in tight places and extensions are available for a maximum extended length of 50 inches. Powered by a DEWALT® FLEXVOLT™ 60 Volt battery that can be shared with other DEWALT tools like saws and drills.

## SPECIFICATIONS

- Length: 17.8 inches (452 mm)
- Width: 7.3 inches (185 mm)
- Height: 11.4 inches (290 mm)
- Weight (excl battery): 36.8 lbs (16.7 kg)
- Length Retracted: 11.4 inches (290 mm)
- Length Extended: 22.6 inches (574 mm)
- Stroke, Piston 1: 6.3 inches (160 mm)
- Stroke, Piston 2: 4.9 inches (124 mm)
- Stroke Overall: 11.2 inches (284 mm)
- Extensions Lengths Available: 10, 18 and 27 inches (254, 457, and 686 mm)
- Maximum Extended Length with Extensions: 49.6 inches (1260 mm)
- Highest Spreading Force (HSF) Piston 1: 48,360 lbs (215.1 kN)
- Lowest Spreading Force (LSF) Piston 2: 17,170 lbs (76.4 kN)



iTR230





## C700M

A compact, all-metal body cutter tool designed to access tight spaces and require less room on the apparatus. The C700 is powerful, fast, and ready to respond. The twin line hydraulic tool is available with standard or mono coupling.

### SPECIFICATIONS

- Length: 31.8 inches (808 mm)
- Width: 8.7 inches (221 mm)
- Height: 10.2 inches (259 mm)
- Weight: 45.1 lbs (20.5 kg)
- Cutter Opening: 5.8 inches (147 mm)
- Cutter Rating: A7/B8/C7/D9/E9/F4
- Rated Input Pressure: 10,500 psi (724 bar)

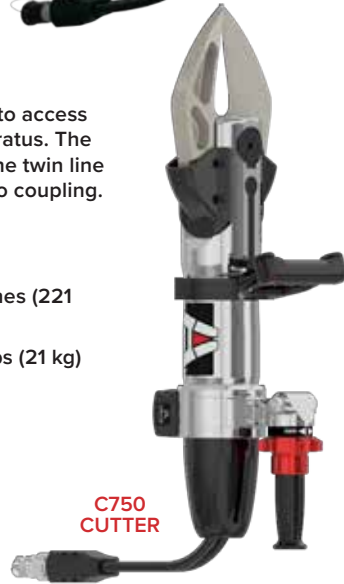


## C750 CUTTER

A compact, all-metal body cutter tool designed to access tight spaces and require less room on the apparatus. The C750 is powerful, fast, and ready to respond. The twin line hydraulic tool is available with standard or mono coupling.

### SPECIFICATIONS

- UL Certified, NFPA 1936 compliant
- Length: 32.6 inches (827 mm); Width: 8.7 inches (221 mm)
- Height: 10.2 inches (259 mm); Weight: 45.9 lbs (21 kg)
- Cutter Opening: 7.0 inches (178 mm)
- Cutter Rating: A8/B9/C7/D9/E9/F4
- Rated Input Pressure: 10,500 psi (724 bar)



## S320 SPREADER

A powerful, multi-use 32-inch spreader. By adding AMKUS' extended reach tips (ERT), the spread expands to 40". The unit is also shipped with removable, aggressive gator tips. The twin line hydraulic tool is available with standard or mono coupling.

### SPECIFICATIONS

- Length: 36.8 inches (935 mm)
- Width: 11.1 inches (282 mm)
- Height: 10.2 inches (259 mm)
- Weight: 45.4 lbs (20.5 kg)
- Max Spreading Distance: 31.9 inches (810 mm), 39.1 inches (993 mm) with ERT Tips
- Highest Spreading Force (HSF): 15,100 lbs (67.2 kN); Lowest Spreading Force (LSF): 10,530 lbs (46.9 kN); Max. Spreading Force: 39,500 lbs (175.7 kN)
- Highest Pulling Force (HPF): 11,500 lbs (51.1 kN); Lowest Pulling Force (LPF): 7,580 lbs (33.7 kN)
- Rated Input Pressure: 10,500 (724 bar)



## S281 SPREADER

This 28" spreader is more compact allowing access to tighter areas and has an 11% higher spreading, and 12% higher pulling force than the 32" spreader. Extended Reach Tips (ERT) increase the spread an additional 8" without significant loss of power.

### SPECIFICATIONS

- Length: 34.6 inches (879 mm)
- Width: 11.1 inches (282 mm)
- Height: 11.6 inches (295 mm)
- Weight: 44.7 lbs (20.4 kg)
- Max Spreading Distance: 28.2 inches (716 mm), 35.4 inches (899 mm) with ERT Tips
- Highest Spreading Force (HSF): 16,430 lbs (73.1 kN); Lowest Spreading Force (LSF): 11,850 lbs (52.7 kN); Max. Spreading Force: 23,850 lbs (106.1 kN)
- Highest Pulling Force (HPF): 12,860 lbs (57.2 kN); Lowest Pulling Force (LPF): 9,200 lbs (40.9 kN)
- Rated Input Pressure: 10,500 (724 bar)



## CT716M COMBI TOOL

A compact, all-metal body combination rescue tool that combines the capabilities of a cutter and spreader. It's a versatile "first on scene" tool for engines, ambulances, rescue trucks and tow recovery vehicles. It can be used to spread, cut and "pop" doors. The twin line hydraulic tool is available with standard or mono coupling.

### SPECIFICATIONS

- UL Certified, NFPA 1936 compliant
- Length with Spreading Tips: 34.9 inches (887 mm); Length without Spreading Tips: 33.7 inches (855 mm)
- Width: 8.7 inches (221 mm)
- Height: 10.2 inches (259 mm)
- Weight (with standard Quick Couplers): 50.1 lbs (22.7 kg); Weight (with Mono Coupler): 50.5 lbs (22.8 kg)
- Max Spreading Distance: 15.6 inches (396 mm)
- Highest Spreading Force (HSF): 7,830 lbs (34.8 kN); Lowest Spreading Force (LSF): 6,460 lbs (28.7 kN); Max. Spreading Force: 320,000 lbs (1423.0 kN)
- Cutter Opening: 13.8 inches (351 mm)
- Cutter Rating: A7/B8/C7/D9/E8/F5
- Rated Input Pressure: 10,500 (724 bar)



## TR 500 RAM

Solid aluminum tool housings are ready for service in the severe duty demanded by first responders.

### SPECIFICATIONS

- Length: 21.9 inches (555 mm)
- Width: 9.7 inches (246 mm)
- Height: 4.3 inches (108 mm)
- Weight 37.7 lbs (17.1 kg)
- Stroke, Piston 1: 15 inches (381 mm)
- Stroke, Piston 2: 13.6 inches (346 mm)
- Stroke Overall: 28.6 inches (727 mm)
- Highest Spreading Force (HSF) Piston 1: 46,500 lbs (206.0 kN)
- Lowest Spreading Force (LSF) Piston 2: 21,750 lbs (96.0 kN)



TR 500 RAM

## 240SS SUPER SIMO ON-BOARD POWER UNIT

Installed on apparatus, this on-board power unit offers 3x the flow of a typical power unit. It installs easily and can even be retrofitted onto existing trucks. The power-sharing mode allows two tools to be connected and operated simultaneously.



240SS

## GH2B-MCH MINI SIMO BOOST WITH HONDA ENGINE

Mini SIMO power unit with Honda engine and carrying handle.

### SPECIFICATIONS

- NFPA 1936 Compliant
- Gasoline powered Honda® engine
- Two tool simultaneous operation
- BOOST mode, when in alternate tool operation increases tool response in both pump stages
- Increased first stage pressure reduces cycle times
- 3-position control valves
- Direct mounted standard couplings or single connection mono couplings
- Length w/couplings 17.75 inches (451 mm)
- Length w/o couplings 15.5 inches (394 mm)
- Width 12.5 inches (318 mm); Height 18.5 inches (470 mm)
- All weights include gas, engine oil and hydraulic fluid



GH2B-MCH

### SPECIFICATIONS

- Requires only 5 amps to startup with virtually no inrush. (Compare to 60 amps inrush on typical simultaneous power units)
- The design of the 240SS reduces the need for accessibility to the pump unit, providing versatility when determining a location for the unit in your apparatus
- Easy and cost effective installation as well as retrofits to existing apparatus
- Electric Power Unit, 240 volt single phase power
- Provides performance virtually the same as the AMKUS Ultimate System
- Two tools can be connected and operated simultaneously
- Can be used with hose lengths up to 200'
- DC fan-cooled hydraulic heat exchanger
- Complete on-board circuit panel for: individual motor and circuit activation, LED circuit status display, LCD display for operational diagnostics, integrated low oil warning and low oil shut down
- Optional wireless remote control with emergency shut down

## EF2S-STD ELECTRIC PUMP WITH 2 WAY VALVE AND CARRYING HANDLE

EF2S-STD Electric Power Unit 220V with 2 way valve and carrying handle.

### SPECIFICATIONS

- Electric powered, 3.0 horsepower, "washdown" motor
- 220/240 Volt single phase
- Two high pressure, two-stage pumping systems
- Two tools can be connected and operated simultaneously
- Integrated carrying handle



EF2S-STD

**CALL US AT 1-800-654-7049 FOR PRICING AND ADDITIONAL INFORMATION**

# TOOL ACCESSORIES

## SPREADER QUICK ADJUST CHAIN PACKAGE-AMK 24/30CRT, ION SPREADERS

Quick adjust chain package for AMK-24, AMK-30CRT hydraulic spreaders and all ION battery powered spreaders.

### SPECIFICATIONS

- Includes two 7' chains
- Quick adjust chain package for AMK-24, AMK-30CRT hydraulic spreaders and all ION battery powered spreaders
- Quick release push button tips with hook



K-CHAIN24-30

## ERT-EXTENDED REACH TIPS (PAIR)

### SPECIFICATIONS

- Accessory for iS240, iS280, AMK-24 and AMK-30CRT. Upgrade available for 30CX
- Increases the spread up to 8" and the unique construction eliminates loss of power
- Built-In push button release so tips are easy to install or remove-even with gloved hands



KS0029-KIT

## GATOR TIPS (PAIR)

Pair of Gator Tips for the AMK-24, AMK-30CRT and all ION Spreaders.

### SPECIFICATIONS

- Aggressive tooth pattern won't slip and beveled edges don't rip sheet metal
- Wide shoulder scoop-out cradles the load and opposing teeth grip with arms wide open
- Standard on ION spreaders, AMK-30CRT and AMK-24 spreaders



KS0017G-KIT

# FIRE-RESCUE KITS

## AMKUS FLEXVOLT WINDSHIELD REMOVAL KIT

Windshield Removal Kit designed to minimize dust during cutting, the windshield cutter is a quick and easy way to remove laminated glass from vehicles. #WNDREM-KIT includes (1) Windshield Cutter, (1) FuBar Tool, (2) Windshield Suction Cups, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), (1) Charger, and (1) Bag.



WNDREM-KIT

## AMKUS FLEXVOLT RECIPROCATING SAW KIT

When paired with the included reciprocating saw blades, this tool makes quick work of structural steel as well as sheet metal and perfectly complements your AMKUS rescue tools. The saw's keyless lever-action blade clamp allows for quick and easy blade changes while its LED light helps to illuminate your work area. #RECSAW-KIT includes (1) Reciprocating Saw, (10) 6" Extrication Blades, (10) 9" Extrication Blades, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), (1) Charger, and (1) Storage Bag.



RECSAW-KIT

## AMKUS FLEXVOLT 9" CUT OFF SAW KIT (2 BATT, CUT OFF WHEEL, AND 9" DIAMOND RESCUE BLADE)

9" Cut Off Saw Kit makes cuts up to 3-1/4" deep. Make fast and efficient single pass cuts and scores in concrete, steel, and rebar. The saw features a front handle that can be held in three positions, allowing the saw to be used to cut in both horizontal and vertical positions. #CUTSAW2-KIT includes (1) 9" Cut Off Saw, (1) 9" Diamond Rescue Blade, (1) Diamond Wheel, (1) Ceramic Cut Off Wheel, (2) FLEXVOLT 60V/20V Batteries (3AH/9AH), and (1) Charger.



CUTSAW2-KIT

## AMKUS FLEXVOLT CHAINSAW KIT

This 60V Brushless Chainsaw Kit is a versatile tool in the fire service with many different applications including forcible entry, roof ventilation, rescue operations, clearing fire lines and clearing roadways of fallen trees and debris. The 60V brushless chainsaw features a chain brake for kick back protection and provides up to 70 cuts per charge on a 6" x 6" pressure treated pine wood with the included 60V Max 3Ah battery. #CHNSAW-KIT includes (1) 60V Brushless Chainsaw, (1) FLEXVOLT 60V/20V Battery (3AH/9AH), and (1) Charger.



CHNSAW-KIT

## AMKUS FLEXVOLT HANDHELD BLOWER KIT

Designed to withstand everyday heavy-duty usage this FLEXVOLT powered blower is ideal for debris cleanup from MVA scenes and creating firebreaks. Powers through debris at up to 423 CFM of air volume at 129 MPH. Flat concentrator nozzle increases air speeds to 175 MPH. It features a variable speed trigger and speed lock for total power control, and its lightweight and ergonomic design maximizes control and minimizes fatigue. #BLOWER-KIT includes (1) Handheld Blower, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), and (1) Charger.



BLOWER-KIT

## AMKUS FLEXVOLT SCENE LIGHTING KIT

The Scene Lighting Kit's compact design takes up minimal compartment space and can be deployed at a scene in seconds. Integrated carry handle provides easy portability to the scene. Light head can be rotated and telescopes to 7 feet to reduce shadows and glare. Variable brightness settings up to 3000 lumens. Light will operate for over 11 hours on low brightness setting. IP54 rating for weather and dust resistance. #SCNLGHT-KIT includes (1) LED Rechargeable Scene Light, (1) FLEXVOLT 60V/20VBattery (2AH/6AH), and (1) Charger.



SCNLGHT-KIT

**AMKUS**<sup>®</sup>  
RESCUE SYSTEMS

CALL US AT 1-800-654-7049 FOR  
PRICING AND ADDITIONAL INFORMATION

## AMKUS FLEXVOLT PORTABLE BAND SAW KIT

This portable, brushless Band Saw Kit has great power and runtime. It can cut up to 5" x 4-3/4" rectangular and up to 4" round material. It also includes blade speed control, integrated hang hook, and a durable base. #BANDSAW-KIT includes (1) Band Saw, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), and (1) Charger.



BANDSAW-KIT

## AMKUS FLEXVOLT 60V GRINDER KIT WITH DIAMOND RESCUE BLADE

The 4.5"-6" Grinder with Kickback Brake is maximized for power and durability. It delivers 13-amp power with the portability and convenience of cordless through revolutionary FLEXVOLT technology. #GRINDER-KIT includes (1) 60v Grinder, (1) 4.5" Diamond Rescue Blade, (1) 4.5" x 1/4" bonded abrasive wheel, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), (1) Charger, and (1) Bag.



GRINDER-KIT

## AMKUS FLEXVOLT HAMMER AND IMPACT DRIVER KIT

The 20V MAX XR Hammer Drill/Driver and Impact Driver both feature brushless motors that delivers up to 57% more runtime than brushed motors. #DRILL-KIT includes (1) Drill, (1) Impact Driver, (1) FLEXVOLT 60V/20V Battery (2AH/6AH), (1) DeWALT 20V Max 2.0AH Battery, (1) Charger, and (1) Bag.



DRILL-KIT

## AMKUS FLEXVOLT 60V CORDLESS CIRCULAR SAW KIT

This 7-1/4" circular saw with electric brake has a no-load speed of 5800 RPM and delivers the power of a corded circular saw with the portability and convenience of cordless. #CIRCSAW-KIT includes (1) Circular Saw, (1) FLEXVOLT 60V/20V Battery (3AH/9AH), (1) Charger, and (1) Bag.



CIRCSAW-KIT

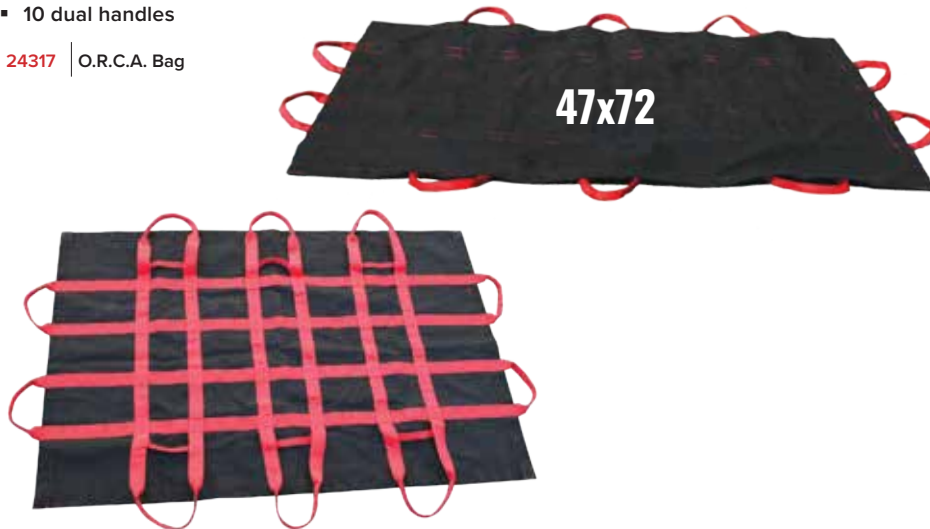
Carryalls can be used to tote debris, ash, embers, and burning materials out of a structure. Cascade's Carryalls are constructed from heavy-duty double-thickness canvas with strong polypropylene webbing handles.

## O.R.C.A. BAG

Excellent for hard to reach places, Cascade's **OCCUPATIONAL RESCUE CARRY ALL** makes any job easier, no matter what the size or shape of the contents you are carrying. This Carry-All can be used when other conventional debris carriers will not fit into tight areas.

- SIZE: 47" x 72"
- Made from tough canvas
- Backed with heavy-duty polypropylene ribbing
- 10 dual handles

24317 | O.R.C.A. Bag



## DEBRIS CARRIER

Designed to remove debris during overhaul after a fire. Can be picked up by two or four persons.

- SIZE: 68" x 64"
- Made from tough canvas
- Carrying handles at each corner

24316 | Cascade's Debris Carrier



# SALVAGE COVERS

Prevent damage during the initial stages of overhaul by throwing salvage covers over important items

## FIRE & WATER RESISTANT SALVAGE COVERS

- Made out of tightly woven 10 oz. olive drab cotton duck
- Resistant to water, flame and mildew
- Cover is hemmed
- Brass grommets on all sides at 24" intervals

	SIZE	WGT
24313	12' x 14'	21 lbs
24314	12' x 18'	27 lbs
24315	14' x 18'	33 lbs



## LIGHTWEIGHT SALVAGE COVERS

- Require less storage space
- Easily wiped clean after use
- Made from 13 oz. red vinyl-coated Fortrel® Polyester
- Extremely tough and tear-proof
- Hemmed cover and brass grommets on all sides at 24" intervals

	SIZE	WGT
24310	12' x 14'	16 lbs
24311	12' x 18'	23 lbs
24312	14' x 18'	25 lbs



## HALL RUNNERS

Get instant protection in halls or aisles by merely letting a heavy duty rip stop Hall Runner unroll itself! Cover expensive tile, wood or carpeted aisles and halls instantly. Direct streams of water by quickly constructed "canals." Runners can be rolled into small rolls and stored immediately without worry of rot and mildew.

- Heavy 18 oz. vinyl-coated Polyester
- Flame resistant

	WIDTH	LENGTH
24306	36"	10' to 150'



# FIRE EXTINGUISHERS

Manufactured and Tested to ANSI/UL Standards. Amerex is an ISO-9002 Registered Firm.

## PRESSURIZED WATER

This pressurized water extinguisher is highly effective on Class A Fire (ordinary combustibles). Utilizes the cooling, soaking and penetrating effect of a 45-55 ft stream of water with maximum visibility during discharge. Easily operated by pulling the pin and squeezing the nozzle grip.

- 45-55 ft. stream of water
- 55 sec. discharge time
- Leaves no powder residue
- Maximum visibility during discharge
- Stainless steel construction
- 2½ gallons
- WEIGHT: 7¾ lbs.



**CLASS A**  
Ordinary combustibles:  
wood, paper, rubber,  
fabrics and many plastics



**ORDINARY  
COMBUSTIBLES**



**FLAMMABLE  
LIQUIDS**



**ELECTRICAL  
EQUIPMENT**



	HEIGHT	DIAMETER	U/L
20900	24½"	7"	2A

## CARBON DIOXIDE

Lightweight, heavy duty aluminum Carbon Dioxide Cylinders discharge a white cloud of "snow" which smothers the fire. A clean, nonconductor of electricity for Class B and C types fires. Capacity given is in pounds of extinguishing agent.

- Aluminum alloy 6351-T6
- Rust free
- Lightweight - up to 30% lighter than steel
- Low magnetic



**CLASS B:C**  
Flammable liquids and  
gases: gasoline, oils,  
paint, lacquer and tar,  
and fires involving live  
electrical equipment



	CAP	HEIGHT	WEIGHT	U/L
20906	5 lbs.	17¼"	14¼ lbs.	5B:C
20907	10 lbs.	24"	28½ lbs.	10B:C
20908	15 lbs.	30"	38½ lbs.	10B:C
20909	20 lbs.	30"	51 lbs.	10B:C

**NOTE: These ship as hazardous material.**

## MULTI-PURPOSE DRY CHEMICAL

ABC or Multi-Purpose extinguishers are the most popular on the market today due to their effectiveness against fires in ordinary combustibles, flammable liquids and gases, and energized electrical equipment. For vehicles, office or factory. Capacity given is in pounds of extinguishing agent.

- Heavy duty DOT steel cylinder
- Rugged metal valves and siphon tubes
- Corrosion and impact resistant polyester/epoxy paint finish.
- U/L & Coast Guard Listed



**CLASS A:B:C**  
Ordinary combustibles,  
flammable liquids and gases,  
and energized electrical  
equipment



	CAP	HEIGHT	WEIGHT	U/L
20902	2½ lbs.	14 <sup>5</sup> / <sub>8</sub> "	5¼ lbs.	1A:10B:C
20903	5 lbs.	15¼"	9¼ lbs.	2A:10B:C
20904	10 lbs.	20"	17 lbs.	4A:80B:C
20905	20 lbs.	23¼"	38 lbs.	10A:120B:C

## VEHICLE BRACKETS

All hand portable extinguishers are supplied with a wall bracket. Heavy duty brackets are available when the extinguisher is to be mounted on a vehicle or other moving equipment or machinery.



FITS EXTINGUISHER	
20929	Fits Extinguisher 20903
20930	Fits Extinguishers 20904 - 20906
20933	Fits Extinguishers 20900, 20917, 20905, 20907, 20908
20934	Fits Extinguisher 20909

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# DISCHARGE TABLE FOR SMOOTH BORE NOZZLES

## U.S. GALLONS PER MINUTE

NOZZLE PRESSURE (PSI)	NOZZLE DIAMETER IN INCHES																
	1/16	1/8	3/16	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-3/4	2	2-1/4
10	0.37	1.48	3.32	5.91	13.3	23.6	36.9	53.1	72.4	94.5	120	148	179	213	289	378	479
15	0.45	1.81	4.06	7.24	16.3	28.9	45.2	65.0	88.5	116	147	181	219	260	354	463	585
20	0.52	2.09	4.69	8.35	18.8	33.4	52.2	75.1	102	134	169	209	253	301	409	535	676
25	0.58	2.34	5.25	9.34	21.0	37.3	58.3	84.0	114	149	189	234	283	336	458	598	756
30	0.64	2.56	5.75	10.2	23.0	40.9	63.9	92.0	125	164	207	256	309	368	501	655	828
35	0.69	2.77	6.21	11.1	24.8	44.2	69.0	99.5	135	177	224	277	334	398	541	708	895
40	0.74	2.96	6.64	11.8	26.6	47.3	73.8	106	145	189	239	296	357	425	578	756	957
45	0.78	3.13	7.03	12.5	28.2	50.1	78.2	113	153	200	253	313	379	451	613	810	1015
50	0.83	3.30	7.41	13.2	29.7	52.8	82.5	119	162	211	267	330	399	475	647	845	1070
55	0.87	3.46	7.77	13.8	31.1	55.3	86.4	125	169	221	280	342	418	498	678	886	1121
60	0.90	3.62	8.12	14.5	32.5	57.8	90.4	130	177	231	293	366	438	521	708	926	1172
65	0.94	3.77	8.45	15.1	33.8	60.2	94.0	136	184	241	305	376	455	542	737	964	1220
70	0.98	3.91	8.78	15.7	35.2	62.5	97.7	141	191	250	317	391	473	563	765	1001	1267
75	1.01	4.05	9.08	16.2	36.4	64.7	101	146	198	259	327	404	489	582	792	1037	1310
80	1.05	4.18	9.39	16.7	37.6	66.8	104	150	205	267	338	418	505	602	818	1070	1354
85	1.08	4.31	9.67	17.3	38.8	68.9	108	155	211	276	349	431	521	620	844	1103	1395
90	1.11	4.43	9.95	17.7	39.9	70.8	111	160	217	284	359	443	536	638	868	1136	1436
95	1.14	4.56	10.2	18.2	41.0	72.8	114	164	223	292	369	456	551	656	892	1168	1476
100	1.17	4.67	10.5	18.7	42.1	74.7	117	168	229	295	378	467	565	672	915	1196	1512
105	1.20	4.79	10.8	19.2	43.1	76.5	120	172	234	306	388	479	579	689	937	1226	1550
110	1.23	4.90	11.0	19.6	44.1	78.4	122	176	240	314	397	490	593	705	960	1255	1588
115	1.25	5.01	11.2	20.0	45.1	80.1	125	180	245	320	406	501	606	720	980	1282	1621
120	1.28	5.12	11.5	20.5	46.0	81.8	128	184	251	327	414	512	619	736	1002	1310	1659
125	1.31	5.22	11.7	20.9	47.0	83.5	130	188	256	334	423	522	632	751	1022	1338	1690
130	1.33	5.33	12.0	21.3	48.0	85.2	133	192	261	341	432	533	645	767	1043	1365	1726
135	1.36	5.43	12.2	21.7	48.9	86.7	136	195	266	347	439	543	656	780	1063	1390	1759
140	1.38	5.53	12.4	22.1	49.8	88.4	138	199	271	354	448	553	668	795	1082	1415	1790
145	1.41	5.62	12.6	22.5	50.6	89.9	140	202	275	360	455	562	680	809	1100	1440	1820
150	1.43	5.72	12.9	22.9	51.5	91.5	143	206	280	366	463	572	692	824	1120	1466	1853
175	1.55	6.18	13.9	24.7	55.6	98.8	154	222	302	395	500	618	747	890	1210	1582	2000
200	1.65	6.61	14.8	26.4	59.5	106	165	238	323	423	535	660	799	950	1294	1691	2140
250	1.85	7.39	16.6	29.6	66.5	118	185	266	362	473	598	739	894	1063	1447	1891	2392

## STANDARD THREADS

	NATIONAL STANDARD NST, NSFH, NH*		STRAIGHT IRON PIPE SIPT, NPSH*		NEW YORK CORP. NYCT		PACIFIC COAST PCT		NEW YORK FIRE DEPT. NYFT		CHEMICAL HOSE CHT*		UNDER-WRITERS' PLAY PIPE UPT		GARDEN HOSE GHT*		CHICAGO FIRE DEPT.		CHICAGO HOSE	
	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI	ODM	TPI
3/4"	1.375	8	1.0353	14	.....	.....	1.0625	11	.....	.....	1.375	8	.....	.....	1.0625	11½	.....	.....	1.081	11½
1"	1.375	8	1.2951	11½	.....	.....	1.3125	11½	1.660	8	1.375	8	.....	.....	.....	.....	.....	.....	1.2951	11½
1-1/4"	1.6718	9	1.6399	11½	.....	.....	1.860	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.705	11½
1-1/2"	1.990	9	1.8788	11½	2.093	11	2.100	11	2.100	8	.....	.....	2.1875	12	.....	.....	1.946	11½	1.946	11½
2"	2.5156	8	2.3528	11½	2.547	11	2.550	10	2.530	8	.....	.....	.....	.....	.....	.....	.....	.....	2.522	8
2-1/2"	3.0686	7½	2.855	8	3.000	8	3.035	7½	3.030	8	.....	.....	.....	.....	.....	.....	.....	.....	3.043	7
3"	3.6239	6	3.470	8	.....	.....	.....	.....	3.630	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3-1/2"	4.2439	6	3.970	8	.....	.....	.....	.....	4.070	8	.....	.....	.....	.....	.....	.....	4.070	8	.....	.....
4"	5.0109	4	4.470	8	.....	.....	.....	.....	4.610	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4-1/2"	5.7609	4	4.970	8	.....	.....	.....	.....	5.800	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5"	6.260	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6"	7.025	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

**ODM=Outside Diameter of Male**

**\*National Foam Thread - Abbreviation for tapered iron pipe thread is TIPT or NPT (National Pipe Tapered)**

# THREAD INFORMATION

## STANDARD FIRE HOSE THREADS

SIZE	ODM	TPI	SIZE	ODM	TPI	SIZE	ODM	TPI	SIZE	ODM	TPI
NAT'L. HOSE THREAD (NHT)			EASTERN HOSE THREAD			UNDERWRITER TIP THREAD			QUEBEC STANDARD THREAD (QST)		
0.75	1.3750	8	0.75	1.0781	11	1.5	2.1875	12	2.5	3.031	7
1	1.3750	8	1	1.4219	11				ALBERTA MUTUAL AID THREAD (AMA)		
1.25	1.6718	9	1.25	1.6875	11.5				2.5	2.990	8
1.5	1.9900	9	1.5	2.1250	11	CHICAGO FD THREAD			BRITISH COLUMBIA (BCT)		
2	2.5156	8	2	2.6719	7.5	1	1.375	8	2.5	3.000	8
2.5	3.0686	7.5	2.5	3.0000	8	1.5	1.933	11.5	WESTERN CANADA FIRE UNDERWRITERS THREAD		
3	3.6239	6	PACIFIC COAST THREAD			2.5	2.990	7.5	BUFFALO, NY THREAD		
3.5	4.2439	6	0.75	1.0625	11	3.5	4.052	8	2.5	3.250	6
4	5.000	4	1	1.3125	11.5	4	5.000	4	CINCINNATI, OH THREAD		
4.5	5.7609	4	1.25	1.8600	11	4.5	5.7609	4	2.5	3.058	6
5	6.260	4	1.5	2.1000	11	5	6.260	4	CLEVELAND, OH & OMAHA, NE THREAD		
6	7.025	4	2	2.5500	10	CHICAGO FD THREAD			2.5	3.0781	8
NAT'L. PIPE STRAIGHT HOSE THREAD (NPSH)			2.5	3.0350	7.5	0.75	1.0810	11.5	DETROIT, MI THREAD		
0.75	1.0353	14	NYCFD THREAD			1	1.2951	11.5	PITTSBURGH, PA THREAD		
1	1.2951	11.5	1	1.660	8	1.25	1.7050	11.5	TOLEDO, OH THREAD		
1.25	1.6399	11.5	1.5	2.100	8	1.5	1.9460	11.5	2.5	3.000	8
1.5	1.8788	11.5	2	2.530	8	2	2.5220	8	CANADIAN STANDARD ASSOC. THREAD (CSA)		
2	2.3528	11.5	2.5	3.030	8	2.5	3.0430	7	1.5	1.8788	11.5
2.5	2.843	8	3	3.630	8	STANDARD CHEMICAL THREAD			2.5	3.125	7.5
3	3.4700	8	3.5	4.070	8	0.75	1.375	8	LESSEER THREAD COUNT THAN NPSH		
3.5	3.9700	8	4	4.610	8	CANADIAN STANDARD ASSOC. THREAD (CSA)			GREATER THREAD COUNT THAN NH		
4	4.4700	8	4.5	5.800	4	1.5	1.8788	11.5			
4.5	4.9700	8	5	6.300	4	2.5	3.1250	5			

### ABBREVIATION DEFINITIONS

**ODM** — outside diameter of male

**TPI** — threads per inch

### THREAD DESIGNATIONS

**National Hose** — NH or NHT; also called National Standard Thread (NST)

**NATIONAL PIPE STRAIGHT HOSE** — NPSH; also called Straight Iron Pipe Thread (SIPT)

**National Pipe Thread** — NPT; also called Tapered Iron Pipe Thread (TIPT)

**British Standard Parallel Pipe** — BSPP

British Standard Pipe Taper — BSPT

### DIFFERENCE BETWEEN HOSE THREAD ADAPTERS

#### NH

FEMALE X MALE THREAD  
1 IN. NPSH (F) X 1 IN. NH (M)



LESSER THREAD COUNT THAN NPSH

#### NPSH

FEMALE X MALE THREAD  
1 IN. NH (F) X 1 IN. NPSH (M)



GREATER THREAD COUNT THAN NH

FOR HOSE THREAD ADAPTERS, GO TO PAGE 106

## OUR HISTORY

Cascade Fire Equipment opened its doors in 1985. After retiring from Western Fire Equipment in San Francisco and moving to Medford, Oregon, Dan Lloyd and his wife, Laura started the business in their garage as “something to keep them busy” in their retirement. The company grew, more family joined the business, and eventually moved into a warehouse—then another, and still another, and then into two warehouses. In 2020, the company purchased some land and began to construct the new Cascade Fire Equipment Headquarters now located in White City, Oregon.

Today, Dan and Laura’s children and grandchildren are running the business. With our facility now complete, Cascade’s 44,000 square foot building is the largest fire equipment manufacturing facility on the west coast.

From Wildland clothing to Wildland brush trucks, we have you covered.

## OUR MISSION

Simply put, our mission is to deliver quality products at fair prices and offer excellent service after the sale. It begins internally with our manufacturing processes and ends with our customer service. Our products are in a state of constant improvement. Sometimes this can be visible to the customer and other times it may not be. Either way, we are always looking for ways to deliver a better product to our customers. Given the rigors of firefighting, we expect our products to be put to the test in every way, so we are prepared to service those products and assist you in your purchases. Our sales office boasts over 150 years of combined experience in the fire industry. Whether you are in the process of making a purchase, have a question, or need service on a product, you can rely on Cascade’s customer service team to help. Through this philosophy, we have manufactured some of the finest firefighting equipment in the world for over 36 years and have delivered excellent service as well.

## OUR COMMITMENT

We are committed to our mission of delivering quality products at fair prices and offering excellent service after the sale. We are committed to a high standard of manufacturing practices. We are committed to staying up-to-date with changes and practices in our industry. We are committed to maintaining a safe work environment that employees enjoy being a part of. Most of all, we are committed to our customers and their mission of protecting life and property. Nothing supersedes this commitment and we always strive to better meet the needs of our customers.

## OUR GUARANTEE

Our guarantee is simple. You will receive a quality piece of fire equipment from our company and we will stand behind it. It will have been manufactured to a high standard and will have been tested here at Cascade Fire Equipment. We are always prepared to service any product that we sell and to assist you with any problem that may arise. As a company made up of people, we realize that just like everyone, we are susceptible to making mistakes.

If for some reason we do, or you feel like we have not lived up to our guarantee, please let us know.

Cascade Fire Equipment Company  
8389 11th St, White City, OR 97503





At Cascade Fire Equipment, we manufacture more than half of the products we sell.

We also source firefighting gear and equipment from trusted vendors who are committed to product quality, dependability, and service. We stand behind everything that leaves our warehouse.






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