



Catalog



Vallfirest is the leading manufacturer of equipment, tools and solutions for wildland fire prevention and extinction.

Why does Vallfirest exist?

There had barely been any innovation in the wildland fire sector from its foundation in 2007. Working in the field of wildland fire extinction in Europe and the United States made us realize that we were in a situation where fires were evolving yet the technology solutions being offered weren't.

Our mission

We wish to change the world of wildland fires by equipping professionals with tools, equipment and services based on technological innovations and analyses of lessons learnt to efficiently and safely manage and fight 21st century fires.

Present

Nowadays, Vallfirest distributes in more than 70 countries and our products and solutions are present in wildland fires all over the world.

Future

We are seeing more intensive fires all the time which exceed the power of existing extinguishing equipment. This change of paradigm requires new strategies and solutions. We want you to be ready. How? By sharing knowledge and offering **innovative solutions for wildland fire fighting.**





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Total protection from head to toe

Wildland fire prevention and extinction requires equipment that's adapted for these types of situations. The **vft safety** division offers next-generation protective equipment designed exclusively so wildland firefighters and emergency units may do their work safely and comfortably.

 safety



vft Helmets



Light Robust Comfortable

**Protection and versatility
for wildland rescue and fire
operations**

vft helmets are the result of years of joint work with sector professionals around the world.

Modernly designed, versatile and easy to use, many different accessories can be connected to them to adapt to the most demanding operational needs.

vft1 Helmet

Greater protection and resistance

A wrap-around design produced in a single PC/ABS piece without added paint, the protective visor provides extra lateral protection against liquids coming from aerial discharges with flame retardant.

More comfortable and breathable

A ventilation system on the top with open/close regulation for better heat evacuation and an ergonomic inner harness with a crown pad. The textile protection on vft helmets is replaceable and washable unlike on other helmets on the market.

Total adaptation, perfect fit for any head

An inner multi-size harness with rear wheel adjustment and a new fireproof chin strap with 6 adjustment points so the protective helmet will perfectly fit any head.

Customization

A large variety of colors available, reflective strips with marking and possibility of adding a shield.



One helmet, many solutions

Compatible with all types of accessories. Goggle anchoring, front light system anchoring clips, flashlight anchoring, foldable PC shield system and clearing shield. Noise protection, nape guards, radio systems and video cameras can be included.

**Picatinny
Rail Adapter**



LED Flashlight



vft Goggles



PC Screen



Power Saw Kit



vft Nape Guard



Standards

EN 16471:2014	Helmets for wildland fire fighting.
EN 16473:2014	Helmets for technical rescues.
EN 12492:2012	Helmets for rescues, mountaineering and climbing.
EN 443:2008	Helmets for fire fighting in buildings and other structures.
EN 397:2012+A1:2012	Helmets for industrial safety.
EN 1385:2012	Helmets for water rescues.

Technical specifications

Inner material	Leather and padded foam.
Sizes	52-65
Dimensions	27 x 24.5 x 19.3 cm.
Weight	650 g +/- 20 g
Available colors	
Reflective colors	

vft2 Helmet

NEW

Greater protection and resistance

A wrap-around design produced in a single PC/ABS piece without added paint, the protective visor provides greater protection against liquids coming from aerial discharges with flame retardant.

More comfortable and breathable

The all-new vft2 helmet includes a ventilation system at the top. The harness features an ergonomic inner crown pad and the textile protectors are replaceable and washable unlike on other helmets available on the market.

Total adaptation, perfect fit for any head

An inner multi-size harness with rear wheel adjustment and a new fireproof chin strap with 6 adjustment points so the protective helmet will perfectly fit any head.

Customization

A large variety of colors available, reflective strips with marking and possibility of adding a shield.



One helmet, many solutions

Compatible with all types of accessories. Goggle anchoring, front light system anchoring clips, flashlight anchoring, foldable PC shield system and clearing shield. Noise protection, nape guards, radio systems and video cameras can be included.

Picatinny Rail Adapter



LED Flashlight



vft Goggles



PC Screen



Power Saw Kit



*Standard hearing protection

vft Nape Guard



Standards

EN 16471:2014	Helmets for wildland fire fighting.
EN 16473:2014	Helmets for technical rescues.
EN 12492:2012	Helmets for rescues, mountaineering and climbing.
EN 443:2008	Helmets for fire fighting in buildings and other structures.
EN 397:2012+A1:2012	Helmets for industrial safety.

Technical specifications

Inner material	Leather and padded foam.
Sizes	54-62
Dimensions	27.7 x 24.5 x 16.4 cm.
Weight	630 g +/- 20 g
Available colors	☐ ☒ ☐ ☐ ☐
Reflective colors	☒ ☐

 safety



Protective Goggles



Wrap-around design; perfect fit

Great visual protection under the harshest of conditions

vft goggles feature a wrap-around design for a perfect fit with the face. Ergonomic and anti-allergy foam edging on the inside for greater comfort. Compatible with the entire line of helmets and respiratory protection.

vft1 Goggles

Maximum protection and excellent visual field

Panoramic goggles with a 220° visual angle and double polycarbonate lens featuring certified high-speed particle impact protection (B) at extreme temperatures (+50°C/-30°C). They offer immense protection against molten metals and hot liquids, as well as thick particles, dust and gases. Anti-fog interior and 2.8+0.5 thick anti-scratch exterior. Optical class 1.

Light and robust

Made of highly resistant materials, they provide great comfort during intensive use due to the low weight: 140 g.

Fast and easy adjustment

A quick front dual adjustment detachable fixing system to secure the helmet.



Optional ventilation system

Available with or without a ventilation system at the top and bottom of the frames.



Vented



Sealed

Standards

EN 166:2001	Personal eye protection.
EN 14458:2018	Personal protective equipment. High-performance visors for use with safety helmets only.

Technical specifications

General		Frames		Lenses	
Weight	140 g.	Materials	Flexible fireproof TPE with a fire-retardant polyurethane foam strip.	Materials	Transparent PC + Transparent AC.
Dimensions	19 x 9 cm.	Strap	Fire-retardant elastic fabric.	Treatment	Scratch resistance (K) + Anti-fog (N)
Visual angle	220°	Width	25 mm.	Thickness	2.8 + 0.5
				Optical class	1

 safety



Protective Clothing



Protection Resistance Comfort

**Adequately protecting yourself
is essential to responding to
extreme conditions**

Vallfirest protective clothing combines safety, comfort, breathability, freedom of movement and high visibility to perform any work safely.

Forest Firefighter Jacket

Protection, comfort and resistance with each operation

Made with high quality materials, the **forest firefighter jacket** is a comfortable and light garment with a high level of protection due to the fireproof properties of the fabric.

Thermal insulation

Offers perfect protection against radiation due to its fire-retardant properties.

Characteristics

- 4 front pockets with an oversized flap for easier opening with gloves.
- Front left top pocket adapted for portable radios.
- Velcro® for identification on the chest.
- Attachment ring for radio holster at shoulder height.
- Adjustable cuffs with Velcro® on the outside.
- Raised neck at the back for nape protection.
- Adjustable neck-covering flap with Velcro®.
- Oversized zipper in the middle for quick and easy opening with gloves.
- High visibility segmented reflective straps on the front, arms and back.

Extra-high neck

Radio carrying pocket

High visibility segmented reflective straps



Greater protection and resistance

Made in Conex® for more resistance to friction and wear inherent to wildland environments in addition to offering immense protection against flames, tearing, traction and abrasion.

Composition

Fabric

Fabric composition: 64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage: 270 g/m² (±5%)

Lining

Lining material: 100% cotton

Weight of lining: 260 g/m²

Information on the lining: Complete fire-retardant protective fabric on the front and back of the jacket. Protects from the risk of instant fire and electric arc.

1 layer + lining



Standards (tested after 50 washes at 60°C)

EN ISO 13688:2013 & EN ISO 13688:2013/A1:2021 Protective garments. General requirements.

EN ISO 15384:2020 & EN ISO 15384:2020/A1:2021 Protective clothing for firefighters.

EN ISO 11612:2015 Protective clothing against heat and flame.

EN 1149-5:2018 Protective clothing. Electrostatic properties.

Technical specifications

Fabric composition 64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage 270 g/m² (±5%)

Sizes XS, S, M, L, XL, XXL, XXXL

Available colors

Forest Firefighter Pants

Protection, comfort and resistance with each operation

Firefighter pants with high resistance and protection against radiation in direct attacks, friction and wear inherent to wildland environments.

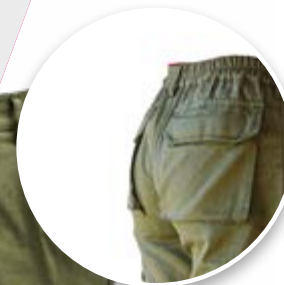
Thermal insulation

Offers perfect protection against radiation due to its fire-retardant properties.

Outstanding features

- 6 pockets total. Double pocket on the sides of knees with flap, two front French seam pockets and two rear pockets.
- 40 mm wide cut in double fabric.
- 5 straps for a wide belt.
- Front button and zipper close.
- Velcro® hem adjustment.
- High visibility double reflective strip on both legs below the knee.
- 4 Velcro® flaps on the belt (two on the front and 2 on the back) to arrange the straps as needed.

Elastic waist



French pockets with a flap closure



High visibility segmented reflective straps

Velcro® fit



Breathability and freedom of movement

The wide and light design facilitates freedom of movement and the single layer on the back offers greater breathability for more comfort over intense work days.

Composition

Fabric

Fabric composition: 64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage: 270 g/m²

1 layer + lining

Lining

Lining material: 100% cotton

Weight of lining: 260 g/m²

Information on the lining: Fire-retardant protective fabric on the back of the pants. Protects from the risk of instant fire and electric arc.

Standards (tested after 50 washes at 60°C)

EN ISO 13688:2013 &
EN ISO 13688:2013/
A1:2021

Protective garments. General requirements.

EN ISO 15384:2020 &
EN ISO 15384:2020/
A1:2021

Protective clothing for firefighters.

EN ISO 11612:2015

Protective clothing against heat and flame.

EN 1149-5:2018

Protective clothing. Electrostatic properties.



Technical specifications

Fabric composition

64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage

270 g/m² (±5%)

Sizes

XS, S, M, L, XL, XXL, XXXL

Available colors



vft One-piece Wildland Suit

Total protection against flames and tearing

A complete wildland firefighter suit made for high protection against flames as well as chafing and tearing inherent to wildland use.

Thermal insulation

Made of 65% Lenzing® F.R., 30% Nomex®, 5% Kevlar® for perfect insulation against radiation and high temperatures.

Lining made of 100% cotton with fire-retardant treatment. This fabric is comfortable all while safely protecting against the risk of fire and electrical charge.

Outstanding features

- High neck with overlap and fire-retardant Velcro® close for proper neck and nape protection.
- Central closure with a fire-retardant open-end zipper.
- Semi-circular quick open system on the back without needing to take the top part off.
- Adjustable cuffs and hems with fire-retardant Velcro®.
- Two front pockets on the chest and two side pockets on the hip, all with pull-straps to be easily opened when wearing gloves.
- Retroreflective strips on the chest, waist, forearms and ankles.



Maximum protection, resistance and visibility

The vft wildland suit is available in a high visibility version with a three-color design and silver retroreflective straps.

Wildland suit



High visibility wildland suit*



Standards

EN ISO 13688:2013	Protective clothing. General requirements.
EN ISO 11612:2015	Protective clothing against heat and flame.
EN 1149-5:2018	Protective clothing. Electrostatic properties.
EN ISO 15384:2020	Protective clothing for firefighters. Testing methods and requirements for forestry clothing.
*EN ISO 20471:2013 + A1:2016	High visibility clothing. Testing methods and requirements.

Technical specifications

Composition of the main fabric	65% LENZING® F.R. 30% NOMEX® 5% KEVLAR®
Grammage of the main fabric	270 g/m²
Composition of the lining	100% fire-retardant cotton
Grammage of the lining	260 g/m²

Xtreme Boots

Agility, protection and ergonomics

Designed for walking on irregular and steep wildland under the most extreme conditions. Our all-new **Xtreme Boots** are changing everything in wildland firefighting footwear. These boots offer the agility and comfort of hiking boots in addition to the necessary protection against fire and heat.

With Vibram® nitrile rubber soles

- Light and flexible.
- Resistant to high temperatures (up to 300°C).
- Excellent shock absorbance.
- Maximum grip on rocky and woody surfaces.

Inner half-boot



Fireproof Vibram® soles



Ecological insole



PANTER 
calzado de seguridad

Protection against water, fire and chafing

- Outer fireproof, impermeable Cordura boot with a reinforced toe and heel, coated in plastic to prevent chafing and damage caused by incandescent particles.
- 1100N flexible and light textile anti-perforation insole made with special fibers for excellent resistance covering 100% of the plantar surface with 0 mm of perforation.

Inner comfort

- Hypoallergenic highly-breathable foam textile inner lining with high resistance to abrasion and moisture absorption.
- Inner collar with an ergonomic design, padded with high-density polyurethane foam for better movement and foot adjustment.
- 100% ecological and recyclable anatomic insole. Removable, anti-bacterial, anti-static and anti-fungus.

Quick and easy to put on

- The 'Quick Lace' system in the inner boot and YKK® zipper and Velcro® for outer closing enable quick, complication-free adjustments.
- Textile pull in the back for easier fitting and storage.

Standards

EN 15090:2012 Fire-fighting footwear.



Oeko-Tex

Certified

TEXTILES FREE OF HARMFUL SUBSTANCES

Technical specifications

Outer composition	Fireproof & impermeable Cordura
Sole	Vibram®
Protection level	F1PA + HI3 + CI + SRC
Weight	0.6 kg
Sizes	36-48

vft Mask

360° protection against radiation and particles

The vft mask offers complete facial protection against radiation and incandescent particles, preventing burns and reducing possible inhalation of contaminants.

Perfectly integrates with all other protective equipment

Quick adjustment without removal due to the double Velcro® system.



In use



At rest



Interchangeable respirator

An inner cavity to easily and quickly replace the activated carbon filter.



Recommended model: **FFP3 R D C**

- Maximum protection with excellent breathing comfort.
- Nanofiltering: The only particle filter capable of blocking these types of substances.
- An outer layer for protection against dirt, dust and liquid filtering.
- The activated carbon included in the valve blocks organic and acid gases and vapors by <TLV.
- Certified as Category III PPE, pursuant to standard EN 149+A1 as per European Regulation 2016/425 (Personal Protective Equipment).

Standards

EN ISO 13688:2013 & EN ISO 13688:2013/A1:2021 Protective garments. General requirements.

EN ISO 11612:2015* Protective clothing against heat and flame.

(*) For protection compliant with this standard, this PPE must be used along with a complete suit compliant with this standard.

EN ISO 15384:2020 & EN ISO 15384:2020/A1:2021 Protective clothing for firefighters.

EN 1149-5:2018 Protective clothing. Electrostatic properties.

Technical specifications for masks

Composition of mask fabric 64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage 270 g/m² (±5%)

Fabric composition in the breathing area 64% FR viscose, 30% meta-aramid, 5% para-aramid, 1% anti-static fiber

Fabric grammage 230 g/m² (±5%)

Thread composition 100% meta-aramid thread.

Weight 120 g. (±5%) (without side-adjustment bands)
140 g. (±6%) (with side-adjustment bands)

Xtreme Mask

Maximum protection against all types of particles and vapors*

The Xtreme Mask is a multi-purpose device designed for complete face and respiratory tract protection in extreme conditions.

Suggestion for use

Firefighting (included)

P3 R filter directly connected to the half-mask.

Heat, humidity, radiation, incandescent particles, microparticles, nanoparticles, smoke, fog, aqueous dispersion, viruses, bacteria, enzymes, proteins.

Finish and interface (optional)

ABEK1P3 R filter directly connected to the half-mask. All of the above plus gases and organic and inorganic vapors, acids, amine and formaldehyde in slow combustion.

What is included?

- Protective mask with a half-mask.
- 2 P3 R particle filters.

* Read the instructions and verify the limitations of use.



Coming soon

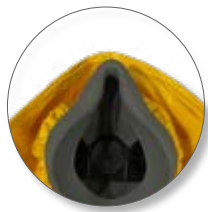
Xtreme Mask with 2 side filters

Comfortable and light

Compatible with all other protective equipment. Low nasal profile mask, compatible with all types of goggles.

Included

vft Mask
with half-mask



P3R particle filter
(x2)



Optional

CO-Formaldehyde-NOx-P3 R
filter



Protection

from carbon monoxide, formaldehyde, nitrogen oxide and all types of particles, solids, aqueous or oil-based liquids, fungi, viruses and bacteria.

Connection type

Direct mask bayonet.

Total weight
451 g.

(Filter + half-mask
+ textile mask)

ABEK1P3
Combined filter



Protection

against solid particles, liquids, bacteria and viruses.

Standard

EN 14387:2004+A1:2008

Connection type

Direct mask bayonet.

Total weight
412 g.

(Filter + half-mask
+ textile mask)

Standards

Textile

EN ISO 13688:2013

Protective garments. General requirements.

EN 15614:2007

Protective clothing for firefighters.

(*) For protection compliant with EN 15614, this PPE must be used along with a complete suit compliant with this standard.

EN ISO 11612:2015

Protective clothing against heat and flame.

Half-mask

EN 140:19998

Respiratory protection equipment. Half-mask.

P3 R filter

EN 143:2004+A1:2006

Respiratory protection equipment. Filters against particles. Requirements, testing, marking.

Technical specifications

Textile

Mask fabric

65% LENZING® F.R. | 30% NOMEX® | 5% KEVLAR®

Fabric grammage

270 g/m² (±5%)

Weight of textile mask

120 g (without filter)

Operating temperature range

From -35°C to 60°C.

Half-mask

Material

Hypoallergenic thermoplastic elastomer.

Connection type

Bayonet.

P3 R filter

Connection type

Direct mask bayonet.

Total weight

329 g.

vft Nape Guard

A high level of protection against radiation and high temperatures

Light and versatile

Compatible with any helmet. 6-point fixing system for perfect anchoring and to wear hanging when not in use without having to remove it.



Made in a single piece

Central closure with two self-adhering straps for a quick fit.

Standards

(tested after 50 washes at 60°C)

**EN ISO 13688:2013 &
EN ISO 13688:2013/
A1:2021**

Protective garments. General requirements.

EN ISO 11612:2015*

Protective clothing against heat and flame.

(*) For protection compliant with this standard, this PPE must be used along with a complete suit compliant with this standard.

**EN ISO 15384:2020 &
EN ISO 15384:2020/
A1:2021**

Protective clothing for firefighters.

EN 1149-5:2018

Protective clothing. Electrostatic properties.

Technical specifications

Dimensions

Length 34 cm; Width 75 cm.

Composition of main fabric

64% FR viscose, 30% meta-aramid,
5% para-aramid, 1% anti-static fiber

Fabric grammage

270 g/m² (±5%)

Thread composition

100% meta-aramid thread.

Velcro®

6 fixing points.

vft Gloves

Ergonomic and a high level of protection

Made of 1-1.2 mm thick grain leather, they protect the hands and one-third of the forearm. The seams and lining are made in interlock Kevlar® for excellent heat resistance.

Velcro® close



Independent thumb slit



Palm reinforcement



Ergonomic

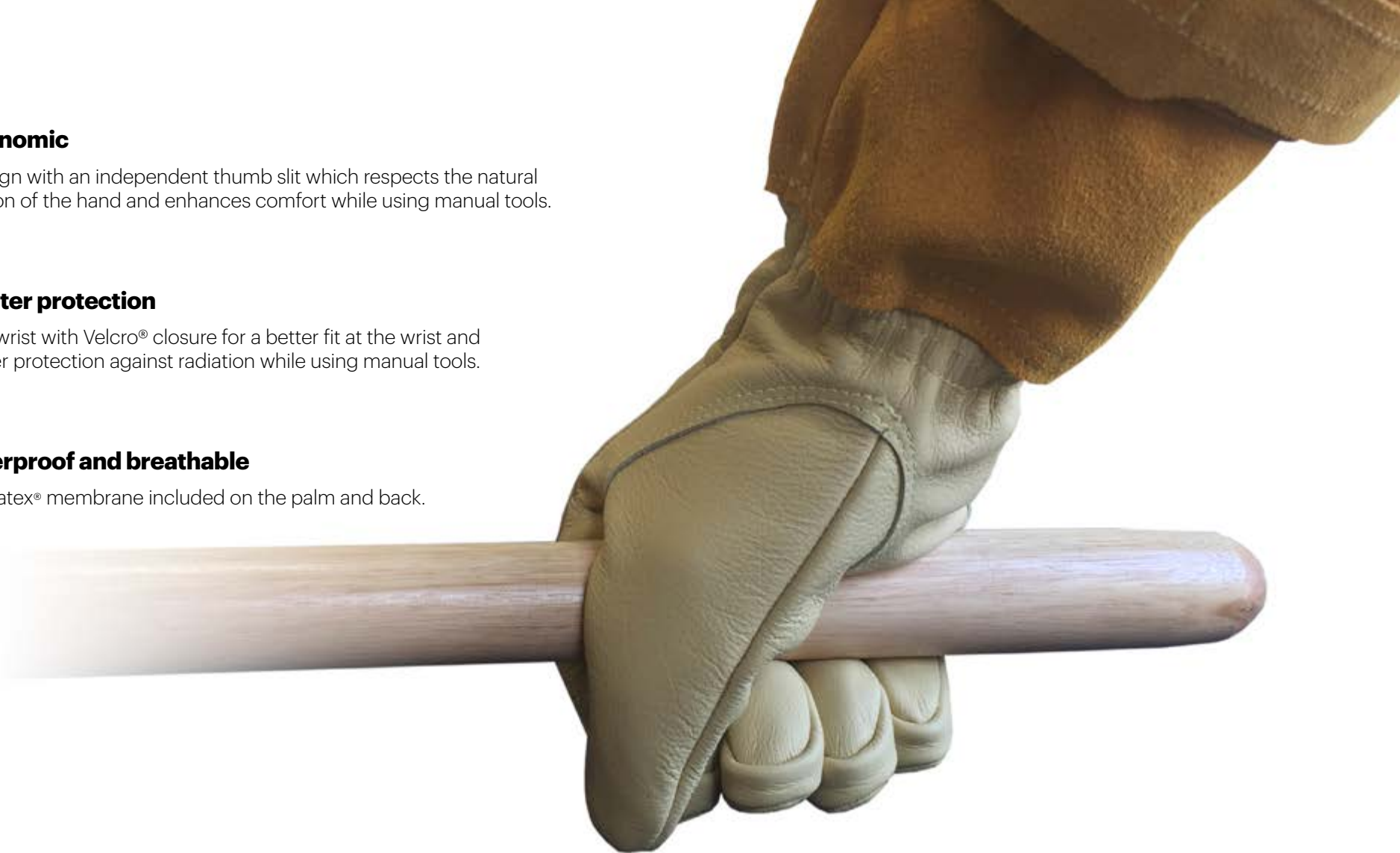
A design with an independent thumb slit which respects the natural position of the hand and enhances comfort while using manual tools.

Greater protection

Long wrist with Velcro® closure for a better fit at the wrist and greater protection against radiation while using manual tools.

Waterproof and breathable

Sympatex® membrane included on the palm and back.



Standards

EN 659:2003 + A1:2008

Protective gloves for firefighters.

Technical specifications

Composition

Sympatex® membrane and 1-1.2 mm thick grain leather.

Sizes

7 to 12.



Xtreme Family



Protection and versatility under the harshest of conditions

Being ready to face risky situations is essential in any prevention and extinction operation in a wildland environment. The **Xtreme** family provides a complete solution for all squads requiring a high level of protection and flexibility in these types of situations.

Xtreme Pack

The most complete wildland backpack

The Xtreme Pack was designed for flexible work in any wildland fire operation. With a rear anchoring system and several pockets, it offers great versatility when carrying tools and protective equipment. Includes high visibility reflectors, guaranteeing a 360° visible position on the ground.

High resistance to abrasion, cuts and tears

Made with 1000 D Cordura and breathable mesh.

Belt-integrated hydration system

Includes the Hydrapack® system with a capacity of 2.8 liters.

Customization

A large variety of colors available and possibility of adding a shield.

Hydration



Nozzle tip



Cordura



Ergonomic design and extreme freedom of movement

The ergonomic harness with optimized weight distribution guarantees full arm mobility for work on combined tasks using manual tools.



Technical specifications

Weight	1.25 kg.
Harness size	(S-M), (L-XL) and (XXL).
Colors	Orange, black and gray.
High visibility strips	Silver gray.
Hydration system	Hidrapack® 2.8 l. Tank approved by the FDA; PVC and BPA-free.
Materials	Made with 1000 D Cordura and breathable mesh.
Guarantee	2 years.

Xtreme Shelter

Fireproof shelter for entrapment situations during wildland fires

Multi-layer composition with a high level of insulation to radiation. The fetal position design to reduce the weight and volume for easier opening and transport.

Two configurations available:



XS 21

Compatible with the 20 l vft backpack pump and Truenorth, Fireball, Firefly and Spitfire backpacks.



XS 17

Compatible with the Xtreme Pack backpack.

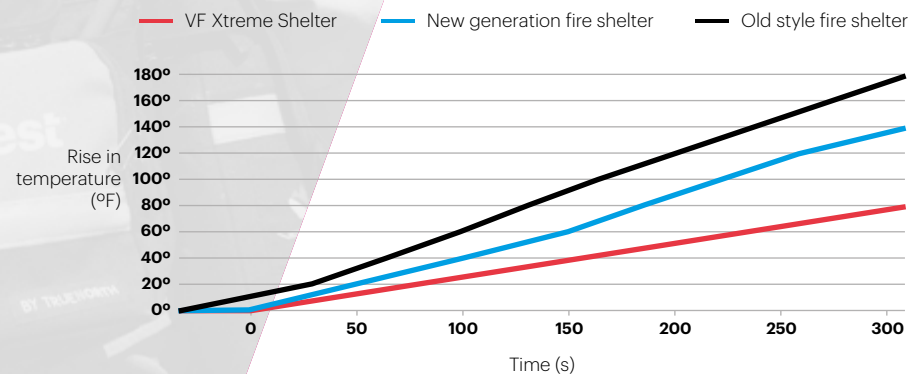


Xtreme Shelter

Compatible with the Xtreme Shelter cover



Internal Temperatures in Full-Scale Radiant Heat Test





Technical specifications

	Weight	Dimensions when folded	Dimensions when extended	Materials
 XS 17	1.35 kg.	39 x 17 x 6 cm.	120 x 60 x 60 cm.	Aluminum Fiber Tecstar
 XS 21	1.35 kg.	32 x 21 x 6.5 cm.	120 x 60 x 60 cm.	Aluminum Fiber Tecstar
 Xtreme Shelter	1.35 kg.	23 x 14 x 11 cm.	120 x 60 x 60 cm.	Aluminum Fiber Tecstar

Standards

EN ISO 9151:2018 (B2)

EN ISO 15025:2016 (A1, A2)

EN ISO 6942:2002 (C4)

ISO 17493:2016 (260°C PASS)

Xtreme-K

The only emergency respiration system in the world created specifically for wildland fires

A closed-circuit disposable limited Chemical Oxygen generator for respiratory tract protection in emergencies or entrapment situations. This survival device offers no less than 30 minutes of autonomy.

An ergonomic design and comfortable materials

An ergonomic system that's adjustable at the neck and waist, with stainless steel buckles.

Resistance to high temperatures



Situations of use

- Entrapment situations during wildland fires.
- Presence of Carbon Monoxide.
- Presence of organic, inorganic gases and vapors, acids, amines, formaldehyde, mercury vapor, etc.
- Smoke, fog, harmful and toxic particles, viruses, bacteria, enzymes, hormones, proteins, nanomaterials, etc.
- Possible hypoxia, anoxia or burns in the respiratory apparatus. Oxygen deficiency < 17%.

Standards

EN 13794:2002

Respiratory protection equipment. Closed-circuit autonomous respiratory equipment for evacuation.

Technical specifications

Weight	1.5 kg. (±50g)
Inhaled air temperature	< 50°
Dimensions	202 x 190 x 134 mm.
Useful life	5 years transported 10 years stored.
No maintenance needed	

Xtreme Kit

The most complete professional self-protection equipment

The evolution in the behavior of today's fires requires safer and more efficient equipment. Aware of this scenario, Vallfirest has designed Xtreme Kit, an ensemble of three products designed as one so wildland firefighters can adapt and protect themselves from any safety entrapment situation and find an escape route.

Aims

- To increase safety.
- To protect the skin and respiratory tract in the event of entrapment.
- To improve efficiency. A versatile backpack capable of adapting to the unique characteristics of each type of ground and each user (technicians, captains and/or laborers).



What is included?



Xtreme Pack

Weight	1.25 kg.
Harness size	(S-M), (L-XL) and (XXL).
Hydration system	2.8 l.



Xtreme Shelter XS 17

Weight	1.35 kg.
Dimensions when folded:	39 x 17 x 6 cm.
EN ISO 9151:2018 (B2)	
EN ISO 15025:2016 (A1, A2)	
EN ISO 6942:2002 (C4)	
ISO 17493:2016 (260°C PASS)	



Xtreme K

Weight	1.5 kg.
Autonomy	No less than 30 minutes.
EN 13794:2002	Respiratory protection equipment. Closed-circuit autonomous respiratory equipment for evacuation.





Tools adapted to a new reality

Work using manual tools in a wildland fire is essential for building defense lines, rolling out hoses, and setting backburns and burnouts. The **vft tools** division offers a wide range of innovative, resistant and versatile tools designed so wildland firefighters and emergency units may do their work most efficiently.



Manual Tools



Innovation Resistance Versatility

Efficiency for wildland fire prevention and extinction

Having the right equipment is key to the success of any wildland intervention. Our manual tools are designed to optimize the work of squads on the ground, offering the most efficient, multi-purpose and high-quality solutions.

Gorgui

A versatile tool for all types of grounds and fuels

Why take 3 tools if you need only 1? The innovative design for the Gorgui combines the three most commonly used tools for wildland fire extinction in one. Multi-purpose, it's ideal for all types of grounds and fuels.

A patented model exclusively produced by Vallfirest.

Balanced and robust

An ergonomic eucalyptus wooden handle with different diameters for a short grip to dig and a long grip to cut and drag.



One idea, two versions

Gorgui



Cutting blades

- Head made of aluminum and titanium.
- Individually replaceable cutting blades made with anti-wear 500 steel.

Gorgui Classic



Cutting blade

- Replaceable blade made of anti-wear 450 steel.

All-in-one; one tool, multiple functions

Chopping, cutting, digging, brushing, scraping, dragging, raking.



Technical specifications for Gorgui

Thickness of the cutting blades	4 mm.
Maximum dimensions	125 x 335 x 185 mm.
Rm N/mm ² resistance	1,400 / 1,800 N/mm ² .
Re N/mm elastic limit	1,400 N/mm ² .
BRINELL hardness	470 / 540 Hb.
Weight	2.8 kg.

Technical specifications for Gorgui Classic

Thickness of the cutting blades	4 mm.
Maximum dimensions	125 x 268 x 158 mm.
Rm N/mm ² resistance	1,200 N/mm ² .
Re N/mm elastic limit	1,400 Re N/mm ² .
BRINELL hardness	420 / 500 Hb.
Weight	2.16 kg.

Handle specifications

Handle length	1.25 m.
Average diameter	31 mm.

Coupling systems

On Gorgui

Pressure and pin-fixed.

On Gorgui Classic

A screw and 4-point anti-rotation adjustment (compatible with the traditional Mcleod handle).

Gorgui Xtreme

A versatile tool for all types of grounds and fuels

The Gorgui Xtreme is a tool designed for wildland fire fighting. It was created out of the experience and changing needs of the most forward-thinking firefighting brigades when it comes to the use of manual tools. The main feature is its versatility on all types of grounds given the combination of all the most commonly used tools for wildland fire prevention and extinction in one.

The greatest of efficiency with each movement

The all-new eccentric attachment design of the Gorgui Xtreme has increased the work area of the wide blade when used as a hoe. It now reaches a greater depth to increase the volume of land moved with each stroke.

Blade options

- Replaceable blade made of anti-wear Hardox 500 steel.



Rake function



McLeod function

Multi-purpose

The Gorgui Xtreme has a central blade featuring a narrow hoe and a wide hoe, both with replaceable cutting areas. This tool can be assembled in different ways to perform the most common tool functions needed in wildland fire extinction. The blade can be sharpened on the inside and outside to maximize its efficiency when doing work.



Handles and Heads

Gorgui Xtreme comes with three types of handles: wood, fiber and removable aluminum. The three are interchangeable with the two Gorgui Xtreme blade versions, offering great ergonomics for a better grip.

Wood handle



Fiber handle



Aluminum detachable handle



Fire Swatters

Maximum performance for direct attack

This all-new fire swatter concept exceeds today's limitations giving priority to ergonomics and efficiency.

More efficiency, less physical wear

The innovative design makes physical work more efficient. How? The flexible handle causes a whip effect for greater flapper speed with less effort, thereby increasing performance and user comfort. Greater operability due to the adjustable 45° angle. Plus, the flapper design absorbs the impact of hitting the ground to prevent overload on the hands and arms.

Telescopic handle that adapts to any situation and any user

A telescopic handle with an adaptable length for use and transport at different heights.

Folded Alaska (92 cm)

Extended Alaska (2m)



*The use of fire swatters for extinction operations depends on the length of the flame.

One idea, two versions



Alaska Fire Swatter

- A flapper comprised of 5 horizontal and 6 vertical flaps that rotate over the central axis for better adaptation to the ground.
- Two functions: Suffocation (horizontal flaps) and scraping (vertical flaps).



vft Fire Swatter

- A flapper comprised of a single flap with central slits for better adaptation to the ground.
- A single function: Suffocation.

Easy to carry and greater freedom of movement

Head with a lock and turn system so the working flapper can be folded down. Includes a carrying cover.



Technical specifications for the Alaska model

Weight	1.78 kg.
Rigid handle material	Aluminum.
Flexible handle material	Delrin Pom C
Flapper composition	Tear-resistant multilayer cotton and self-extinguishing synthetic rubber.
Flap work surface	30 x 21 cm.
Folded extended length	92 cm. 2 m.

* Includes carrying cover.

A 45° fold and lock system.



Technical specifications for the vft model

Weight	1.6 kg.
Rigid handle material	Aluminum.
Flexible handle material	Delrin Pom C
Flapper composition	Tear-resistant multilayer cotton and self-extinguishing synthetic rubber.
Flap work surface	40 x 25 cm.
Folded extended length	92 cm. 2 m.

* Includes carrying cover.

All-new 1 L Drip Torch

A revolution in weight and operability

The all-new 1 L drip torch has been designed to offer better resistance, performance and operability. It's an extremely light and easy-to-carry torch for indirect attack and parallel operations such as backburns, burnouts, escape fires, hazard-reduction burning and the creation of safe zones.

All-new patented 360° burner

A new design for better nozzle protection and a constant flame despite changes in wind direction for perfect operations at all times.

The most compact, resistant and light 1 L torch

Made of high-density polyethylene (HDPE), it can withstand blows without getting dented. The threaded cover is made of 7075 aluminum with an anodized finish, which means it's highly durable and ready for comfortable transportation and quick assembly for use.

Built-in fuel level

The first torch with a fuel level indicator.

All-new 360°
Burner

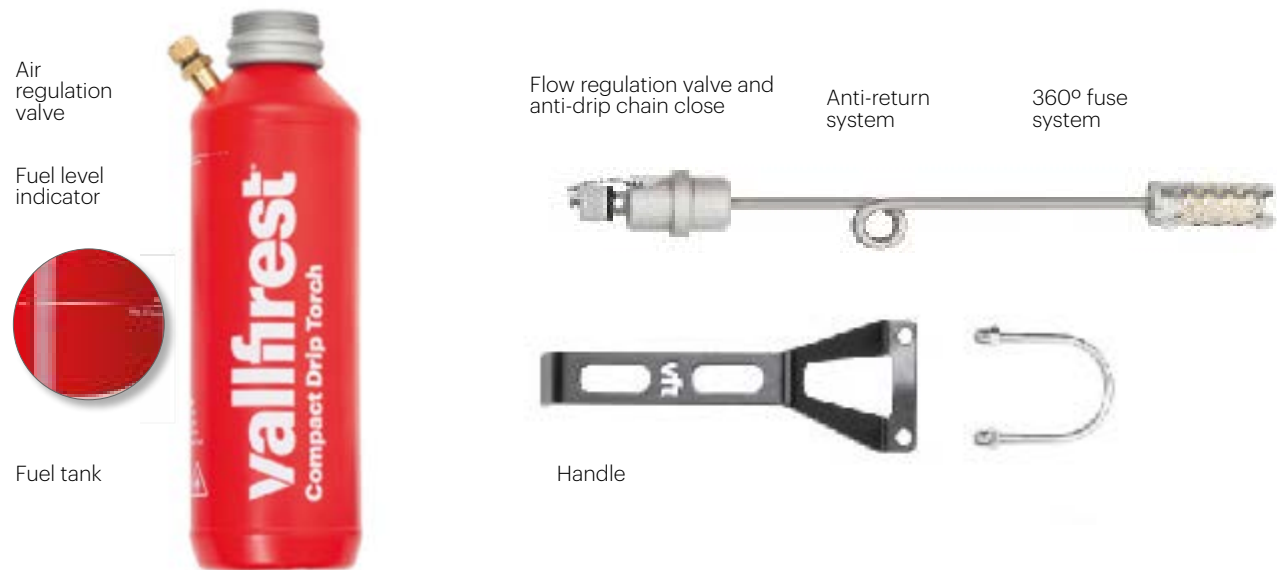


NEW



The safest torch

- Fuel spout with an anti-return system to prevent internal deflagration.
- The burner may be stored in the inside of the bottle with the dual-cover system.
- Flow regulation valve and closure for safe transport connected to the fuel spout with a chain to prevent losing it.



Technical specifications

Material	High-density polyethylene (HDPE) and anodized 7075 aluminum.
Weight not including handle	384 g
Weight including handle	534 g
Diameter	8 cm

Height during transport	29.5 cm (closed)
Height during use	49.5 cm (in use)
Fuel	Blend for use: 3/4 diesel + 1/4 gasoline
Marking	ADR fuel transport



Backpacks



Comfort and versatility under the harshest of conditions

Designed for use in different operations, Vallfirest backpacks reflect extensive experience in body mechanics, load transfer and ergonomics.

20 l vft PRO Backpack Pump

Maximum comfort, performance and operability

The vft 20 l backpack pump is a major advance in ergonomic professional equipment. Designed for use in various operations, it offers all the comfort and versatility firefighting brigades combining the use of backpack pumps with manual tools need.

Characteristics

- A large filling cap with built-in filter.
- Two carrying handles: easier loading and grip for filling at outdoor water points.
- Integrated high-visibility reflectors.
- Pocket and Velcro® straps on the side for the nozzle.
- Padded straps on the shoulders and waist for more comfort.
- Customizable belt with a Molle load system.
- Rear compartment for storing supplies, small tools, the Xtreme Shelter XS 21 fireproof tent or a 2.8 l Hydrapack hydration bag.



Tank filter



Quick fastening



Adjustment straps



The most versatile backpack

Velcro® straps on the back to carry tools.



Backpack specifications

Weight	2.7 ± 0.2 kg Weight without nozzle: 1.74 kg.
Dimensions	64 x 50 x 5 cm.
Capacity	20 l.
Cover material	1000 Cordura.
Tank	100% Polyester H.T. 1100 dTex. + PVC.

Nozzle specifications

Weight	1.06 kg.
Type	Double plunger.
Flow rate	8 l / m.
Nozzle length	1 m.
Jet	Adjustable continuous: concentrated or hollow cone.
Reach	Up to 11 meters.
Manufacturing material	Nickel-plated brass.



vft Hose Carrying Backpack

Resistant, versatile and ergonomic

A backpack designed to carry hoses and other heavy loads. The ergonomic design, which is inspired by the mountain backpack load system, and padded harness make carrying heavy items comfortable.

Comfortable

A size adjustment system to be adapted to different heights as well as a padded belt with reinforcement to help support the weight on the waist. Ventilated back with lumbar support.

Versatile

Hoses or heavy objects? The canvas bag and attachment belts enable different configurations to carry heavy items or accessories (hoses, cans, fire pumps, clothing, helmets...).

Resistant and light

Aluminum structure weighing just 3 kg.



High load capacity

With a front opening and overlap close, it enables progressive and comfortable hose loading and unloading. It can carry and secure up to 4 hoses either single-folded, double-folded or in a skein.



Technical specifications

Weight	3 kg without the bag 3.9 kg with the bag.
Dimensions	62 x 36.5 x 24 cm.
Maximum load	25 kg.
Structure material	Aluminum

Harness material	Cordura 1000 D.
Reinforcements	Polyester
Bag material	PVC canvas
Attachment belts	Nylon





Direct attack with a water line

The **vft frontline** division is comprised of rapid intervention devices designed for efficient and safe work in any fire prevention or extinguishing operation. A comprehensive solution that brings cutting-edge technology to firefighting brigades to multiply the performance of ground squads and provide forest management tools even for the most remote areas.



 frontline



Rapid Intervention Skid Units



100% configurable modules for direct attack with a water line

Robust and reliable skid units equipped with medium and low-pressure pumps which can be adapted to any type of light vehicle, pick-up, UTV or trailer. Technology, innovation and high-quality components for the best performance in forest management, wildland firefighting and emergency operations.

100% customizable solutions

Vallfirest skid units are designed to be adapted to any pick-up, UTV or trailer.

High-quality components and replacement part availability.

- Custom manufacturing based on the vehicle type.
- The best quality/price ratio.
- 2-year warranty.



Skid Unit with Centrifugal Pump

Medium/high pressure | Up to 25 bar with a maximum flow rate of up to 390 l/min.



Power	Pump	Maximum pressure	Maximum flow rate
2.1 HP	VFT_1SP4	6.9 bar	260 l/min
10 HP	VFT_2SP	10 bar	360 l/min
13 HP	VFT_2SP	15.5 bar	392 l/min
11.7 HP	VFT_4SP	25 bar	390 l/min
13.5 HP	VFT_4SP	25 bar	390 l/min

Includes

- Quick attack winder (hose not included).
- Water tank.
- Absorption hose.



*Optional accessories

- Water nozzle.
- Hose.
- Foam-forming agent kit (photo not available).
- Foam-forming agent nozzle.



Skid Unit with a Membrane Pump

High pressure | Up to 50 bar with a maximum flow rate of up to 80 l/min.



Includes

- Quick attack winder.
- Water tank.
- 50 m high-pressure DN12 hose.
- Water nozzle.
- Absorption hose.



*Optional accessories

- Foam-forming agent system (photo not available).
- Foam-forming agent nozzle.



Power	Pump	Maximum pressure	Maximum flow rate
6.5 HP	AR30	40 bar	36 l/min
4.8 HP	AR30	40 bar	36 l/min
10 HP	AR503	40 bar	54 l/min
13.5 HP	AR813	50 bar	80 l/min
11 HP	AR813	50 bar	80 l/min

Skid Unit with a Piston Pump

Ultra high pressure | Up to 200 bar with a maximum flow rate of up to 42 l/min.



Power	Pump	Maximum pressure	Maximum flow rate
13.5 HP	XWL 42.10 N	100 bar	42 l/min
13.5 HP	XW 21.20 N	200 bar	21 l/min

Includes

- Quick attack winder.
- Water tank.
- Foam-forming agent nozzle.
- 50 m high-pressure DN12 hose.
- Foam-forming agent system (photo not available).
- Multi-purpose nozzle.
- Absorption hose.



Water Tanks

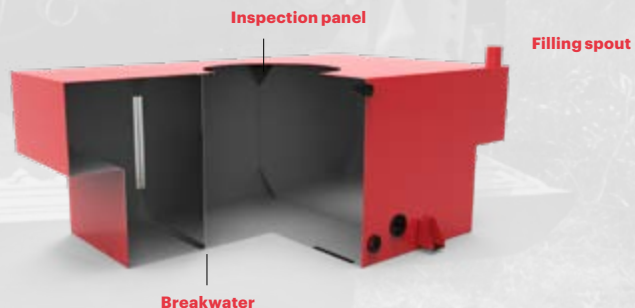
Custom-designed, compact and resistant with a low gravity center which enhances vehicle stability when approaching hard-to-reach areas.

Stainless steel tank

Very resistant and long-lasting tanks made of 2 mm stainless steel with an inner breakwater system to prevent water from moving to the side, thus ensuring vehicle stability.

Characteristics

- One 1-1/2" filling spout on the top with couplings (Barcelona, Storz, Guillemin or others) to fill the tank.
- 1 configurable 1-1/2" high vent on the top.
- 1 water level indicator over connecting ducts and a 3/4" drain.
- Pump return connection to fill the tank by suctioning water from a non-pressurized external water source.



Vertical tank



2 longitudinal breakwaters

Water capacity	Cabin type	Foam-forming agent capacity
450 l	Double cabin	-
600 l	Double cabin	50 l (not included, must be specially ordered)

Horizontal tank



2 longitudinal breakwaters and 1 transversal breakwater

Water capacity	Cabin type	Foam-forming agent capacity
450 l	Double cabin	-
600 l	Double cabin	-

Technical specifications

- Made of 2 mm stainless steel. AISI-304 cold-rolled, fireproof and flame-resistant.
- Remaining water level indicator for the water tank.
- Powder coating, oven cured.
- Manhole to inspect the inside of the tank.
- Manufacturing tanks with other capacities is possible; ask.

Standard colors



* Ask about other colors.

RV and RH Series Polyethylene Tanks

These tanks make the entire skid unit lighter. They're designed to concentrate the kit load in the area closest to the vehicle cabin, avoiding wheel arches on pickup vehicles and optimizing the available space.



Water capacity

400 l

Cabin type

Double cabin

Foam-forming agent capacity

20 l (optional)

Standard colors



Technical specifications

- Made of seamless polyethylene via rotational molding.
- One 1-1/2" filling spout on the top.
- One configurable 1-1/2" high vent on the top.
- One threaded inspection cover with a useful diameter of 200 mm to inspect the tank.
- A water level indicator over connecting ducts.
- A 3/4" drain to empty the tank.
- Pump return connection to fill the tank by suctioning water from a non-pressurized external water source.



Flexible Canvas Tank

A very light tank made of high-tenacity polyester canvas coated in PVC and lacquered on two sides. Features one inlet on the front and a filling point on the top.

The tank connects to the vehicle bed with 10 belt anchoring points for perfect securing.

Water capacity	Cabin type	Foam-forming agent capacity
400 l	Double cabin	-

Standard colors



* Ask about other colors.

Technical specifications

- Made of high-tenacity PES (polyethersulfone) canvas coated in PVC and lacquered on two sides.
- Ten belt anchoring points.
- One threaded inspection cover with a diameter of 100 mm to fill the tank.
- A water inlet with quick fire pump connection.



Tool Carrier Structure

Engineering and mechanics for our customers

Custom design and configuration

- Tool carrier cabinet.
- Equipment carrying tray with railing.
- Custom made.

Vertical skid unit



Horizontal skid unit



Modules with no tank

Skid units with a centrifugal pump

Medium/High pressure | Up to 25 bar with a maximum flow rate of up to 390 l/min.

Power	Pump	Maximum pressure	Maximum flow rate
2.1 HP	VFT_1SP4	6.9 bar	260 l/min
13.5 HP	VFT_4SP	25 bar	390 l/min
11.7 HP	VFT_4SP	25 bar	390 l/min

Skid units with a membrane pump

High pressure | Up to 50 bar with a maximum flow rate of up to 80 l/min.

Power	Pump	Maximum pressure	Maximum flow rate
6.5 HP	AR30	40 bar	36 l/min
4.8 HP	AR30	40 bar	36 l/min
10 HP	AR503	40 bar	54 l/min
13.5 HP	AR813	50 bar	80 l/min
11 HP	AR813	50 bar	80 l/min

Skid units with a piston pump

Ultra high pressure | Up to 200 bar with a maximum flow rate of up to 42 l/min.

Power	Pump	Maximum pressure	Maximum flow rate
13.5 HP	XWL 42.10	100 bar	42 l/min
13.5 HP	XW 21.20 N	200 bar	21 l/min





vft Pumps



Robust, powerful and light portable fire pumps

The Vallfirest **“Black Line Series”** of portable fire pumps has been designed for the best performance in the most demanding situations.

vft Black Hawk 1

Small size, high-tech features

21 lbs portable fire pump equipped with a 1-stage centrifugal pump and a 4-stroke Honda engine. A powerful and balanced combination with a performance of up to 100 psi and a maximum flow of up to 69 GPM.

Features

- Made of lightweight aluminum alloy.
- Built-in fuel tank.
- Pump compatible with foam-forming agent.
- Built-in clutch for an easy start as it stops water discharge without stopping the engine.
- Flat black polyethylene base with anti-vibration elements.
- Ergonomic handle on the top for comfortable hauling.
- CARB and EPA certified engine.

Configurations

Without
manual priming
system



With
manual priming
system



Applications

- Direct attack.
- Self-protection maneuvers with sprinklers.
- Tandem pumping over long distances.



Technical specifications

Engine	Honda GX50
Centrifugal pump	vft 1-stage
Fuel tank	0.2 gal 0.77 l
Weight	21 lbs 9.5 kg (dry)
Maximum pressure	100 psi 6.9 bar
Maximum flow	69 GPM 260 l/min
Dimensions (in cm)	L:14, W: 11, H: 16.5 L:35, W: 28, H: 42

4-Stroke engine

Honda GX50

- Integrated fuel tank (0.2 gal)
- Dimensions: 8.8 x 10.8 x 14 in (225 x 274 x 353 mm)
- Dry weight: 12 lbs (5.5 kg)



Optional accessories

- Carrying backpack.
- ¼" BSPT manual priming pump kit.
- Thread protector.
- Suction strainer.



Standards

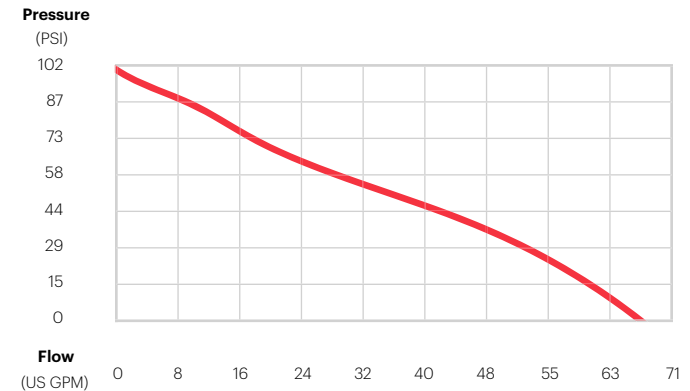
- UNE EN 14466:2006+A1 2009** Fire-fighting pumps - Portable pumps - Safety and performance requirements, tests. (See page 56).
- UNE EN 1028 2:2003+A1 2008** Fire-fighting pumps - Fire-fighting centrifugal pumps with primer - Part 2: Verification of general and safety requirements. (See page 56).

1-Stage centrifugal pump

- Compact, efficient and reliable pump made of anticorrosive aluminum and hardened.
- Shaft made of stainless steel.
- High quality mechanical seals and aluminium impellers.
- 1.5" NPSH inlet and outlet.
- Foam compatible pump.



Performance



vft Black Hawk 2

High flow at medium pressures

A range of fire pumps designed to offer excellent medium pressure range with high flow capacity. The BH2 fire pump is equipped with a 2-stage centrifugal pump and can be combined with 4 different 4-stroke gasoline engines, reaching a maximum pressure of 248 psi and a maximum flow of 118 GPM.

Features

- Made of high-quality materials for intensive prolonged use.
- 2-stage centrifugal pump, interchangeable thanks to a quick-release stainless steel clamp. Also compatible with 3-stage and 4-stage pumps.
- Pump compatible with foam-forming agent.
- Check valve for the pump outlet included.
- Manual recoil starter or electric starter (with extra battery).
- Hand priming pump and pressure gauge included.
- Built-in fuel tank on the BH2-13.
- Choice of transport base: tubular frame (for greater maneuverability), or base for assembly on vehicles.

Applications

- Direct attack.
- Self-protection maneuvers with sprinklers.
- Tandem pumping over long distances.
- Long hoses laid.
- Parallel pumping for higher volumes.
- Assembly in skid units and extinguishing vehicles.



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BH2-21



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BH2-10

Standards

UNE-EN 14466:2006+A1:2009

Fire-fighting pumps. Portable fire pumps. Safety and operational requirements, testing.

UNE-EN 1028-2:2003+A1:2008

Fire-fighting pumps. Fire protection centrifugal pumps with primer. Part 2: Verification of general and safety requirements)

4-stroke gasoline engines

Specs	 Briggs & Stratton Vanguard 10HP	 Honda GX390	 Briggs & Stratton Vanguard 18HP	 Honda GXH630	 Briggs & Stratton Vanguard 23HP
Pump engine	BH2-10	BH2-13	BH2-18	BH2-21	BH2-23
Power	10 HP at 3600 rpm	11.7 l/HP at 3600 rpm	18 HP at 3600 rpm	20.8 HP at 3600 rpm	23 HP at 3600 rpm
Starter	Manual	Manual	Manual	Electric	Manual
Fuel tank	Built-in (9,5 gal)	Built-in (6.1 l)	No	No	No
Emissions certificate	EU stage V, EPA, CARB	EU stage V, EPA, CARB	EU stage V, EPA, CARB	EU stage V, EPA, CARB	EU stage V, EPA, CARB

2-stage Centrifugal Pump

- Compact, efficient and reliable.
- Housing and impellers made of anti-corrosive aluminum.
- Shaft and other components made of stainless steel.
- 2" NPSH inlet, 1.5" NPSH outlet.
- Compatible with foam-forming agent.



Optional accessories

- Thread protector.
- Suction hose.
- vft strainer foot valve.
- Anti-return check valve (BH4-13).
- 3.2 gal (12 l) or 6.6 gal (25 l) portable fuel tank.
- Remote tank fuel line.



Technical Specifications

	BH2-10	BH2-13	BH2-18	BH2-21	BH2-23
Engine	Briggs & Stratton Vanguard 18HP	Honda GX390	Briggs & Stratton Vanguard 18HP	Honda GXH630	Briggs & Stratton Vanguard 23HP
Centrifugal pump	2-stage VFT	2-stage VFT	2-stage VFT	2-stage VFT	2-stage VFT
Weight (dry)	108,03 lbs 49 kg	123.5 lbs 56 kg	143.3 lbs 65 kg	178.5 lbs 81 kg	143.3 lbs 65 kg
Maximum pressure	145 psi 10 bar	225 psi 15.5 bar	238 psi 16.4 bar	244 psi 16.8 bar	248 psi 17.1 bar
Maximum flow	95 GPM 360 l/min	103 GPM 392 l/min	109 GPM 412 l/min	114 GPM 432 l/min	118 GPM 447 l/min
Dimensions (in)	L: 12.2, W: 20, H: 17.9	L: 31, W: 19.7, H: 19.7	L: 31, W: 19.7, H: 19.7	L: 31, W: 19.7, H: 19.7	L: 31, W: 19.7, H: 19.7
Dimensions (cms)	L: 87, W: 50, H: 45	L: 78, W: 50, H: 50	L: 78, W: 50, H: 50	L: 78, W: 50, H: 50	L: 78, W: 50, H: 50

vft Black Hawk 4

High performance and power

The BH4 pump was designed for the best power-to-weight ratio in the industry. It comes equipped with a 4-stage centrifugal pump that can be combined with 4 different 4-stroke gasoline Engines for up to 418 psi of maximum pressure and 105 GPM of maximum flow.

Features

- Compact and durable, easy to carry.
- Made of high-quality materials for intensive prolonged use.
- 4-stage centrifugal pump, interchangeable with a quick-release stainless steel clamp.
- Pump compatible with foam-forming agent.
- Features a maintenance-free cast aluminum increaser.
- Optional electric start.
- Check valve included.
- Built-in fuel tank on the BH4-13 (optional for the BH4-18 and BH4-23).
- Tubular hauling frame or a base for vehicle mount.
- Includes a manual priming pump and pressure gauge.

Applications

- Direct attack.
- Self-protection maneuvers with sprinklers.
- Tandem pumping over long distances.



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BH4-23



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BH4-13

Standards

UNE-EN 14466:2006+A1:2009

Fire-fighting pumps. Portable fire pumps. Safety and operational requirements, testing.

UNE-EN 1028-2:2003+A1:2008

Fire-fighting pumps. Fire protection centrifugal pumps with primer. Part 2: Verification of general and safety requirements)

4-stroke gasoline engines

Specs	 Honda GX390	 Briggs & Stratton Vanguard 18HP	 Honda GXH630	 Briggs & Stratton Vanguard 23HP
Pump engine	BH2-13	BH2-18	BH2-21	BH2-23
Power	11.7 Hp@3600rpm	18 Hp@3600rpm	20,8 Hp@3600rpm	23 Hp@3600rpm
Starter	Manual	Manual	Electrical	Manual
Fuel tank	Built-in (1.6 gal)	No	No	No
Emissions certificate	EU stage V, EPA, CARB	EU stage V, EPA, CARB	EU stage V, EPA, CARB	EU stage V, EPA, CARB

4-stage Centrifugal Pump

- Compact, efficient and reliable.
- Housing and impellers made of anti-corrosive aluminum.
- Shaft and other components made of stainless steel.
- Suction: 2" NPSH inlet, 1.5" NPSH outlet.
- Compatible with foam-forming agent.



Optional accessories

- Thread protector.
- Suction hose.
- vft strainer foot valve.
- Anti-return check valve (BH4-13).
- 3.2 gal (12 l) or 6.6 gal (25 l) portable fuel tank.
- Remote tank fuel line.



Technical specifications

	BH4-13	BH4-18	BH4-21	BH4-23
Engine	Honda GX390	Briggs & Stratton Vanguard 18HP	Honda GXH630	Briggs & Stratton Vanguard 23HP
Centrifugal pump	4-stage VFT	4-stage VFT	4-stage VFT	4-stage VFT
Weight (dry)	124.5 lbs 60.5 kg	134.5 lbs 68 kg	189.5 lbs 86 kg	136.5 lbs 68 kg
Maximum pressure	374 psi 25.8 bar	418 psi 28.8 bar	400 psi 27.6 bar	418 psi 28.8 bar
Maximum flow	100 GPM 380 l/min	105 GPM 397 l/min	103 GPM 390 l/min	105 GPM 397 l/min
Dimensions (in)	L: 33, W: 20 H: 18.5	L: 33, W: 20, H: 18.5	L: 33, W: 20, H: 19	L: 33, W: 20, H: 18.5
Dimensions (cms)	L: 83, W: 50, H: 47	L: 83, W: 50, H: 47	L: 83, W: 50, H: 48	L: 83, W: 50, H: 47

vft Black Panther

Light and powerful

Robust and powerful portable pump equipped with a 4-stage centrifugal pump and a 2-stroke 125 cc motor. This combination provides high flow and pressure at great distances and elevations.

Features

- Compact and durable.
- Made of aluminum alloy.
- Automatic electronic stop to protect the pump from overspeed due to a loss of prime.
- Detachable pump with a quick-release clamp, compatible with foam-forming agent.
- Electronic ignition for easy starting.
- Ergonomic frame for comfortable hauling.
- Intuitive user interface with a LED panel featuring indicator lights and a built-in tachometer for hours/rpm.

Applications

- Direct attack.
- Self-protection maneuvers (with sprinklers).
- Tandem pumping for long distances.
- Firefighting at great heights in mountainous areas.
- Parallel pumping for higher volumes.



Technical Specifications

	BP2	BP3	BP4
Engine	Polini Thor 130		
Centrifugal pump	2-stage VFT	3-stage VFT	4-stage VFT
Dry weight	20 kg	21 kg	22 kg
Maximum pressure	12.6 bar	21.2 bar	26.2 bar
Maximum flow rate	474 l/min	346 l/min	370 l/min
Dimensions (cm)	L:53, W:33, H: 37		

High-tech engine in a compact, light format

Polini Thor 130 Evo

- Dry weight: 27.5 lbs (12.5 kg).
- 2-stroke gasoline engine.
- 125cc displacement and 10HP.



2, 3 and 4-stage centrifugal pumps

- Compact, efficient and reliable.
- Body and impellers made of anti-corrosive aluminum.
- Shaft and other components made of stainless steel.
- 2" NPSH inlet, 1.5" NPSH outlet.
- Compatible with foam-forming agent.

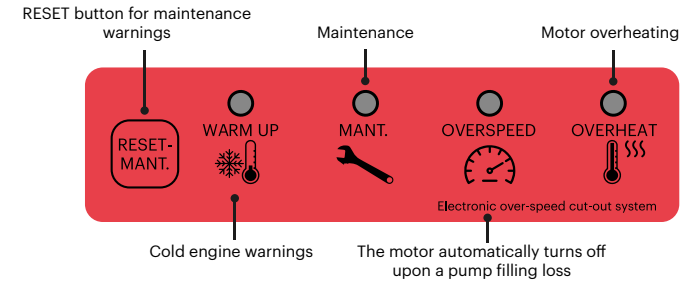


Optional accessories

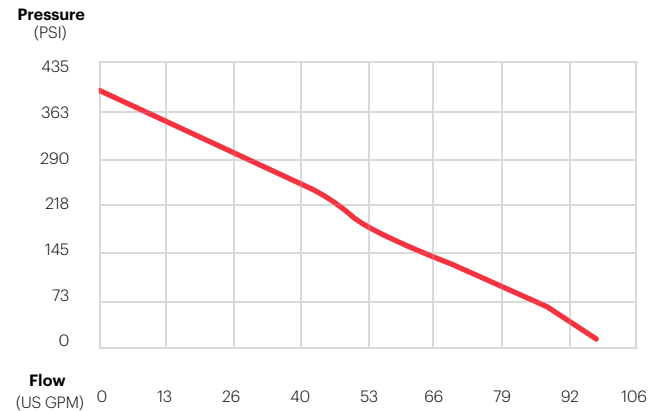
- Carrying backpack.
- Manual priming pump.
- Thread protector.
- Suction hose.
- vft strainer foot valve.
- 3.2 gal (12 l) or 6.6 gal (25 l) fuel tank.
- Remote tank fuel line.



User interface



Performance



Standards

- UNE EN 14466:2006+A1 2009** Fire-fighting pumps - Portable pumps - Safety and performance requirements, tests. (See page 56).
- UNE EN 1028 2:2003+A1 2008** Fire-fighting pumps - Fire-fighting centrifugal pumps with primer - Part 2: Verification of general and safety requirements. (See page 56)

Dronster

Flexible, quick and versatile multi-purpose emergency robot

Dronster is a high-performance professional machine specially designed to work in the emergency field, looking to improve the security and efficiency of the personnel that work in a risky environment.

A remote control device that's capable of working at a steady speed with uninterrupted performance and can triple hand crew performance.

One machine, multiple options

Dronster has been designed to work in the following incidents:

- Wildland fires
 - > Passive security: wildland management and safe areas.
 - > Active security: defense lines and fire perimeters.
- Structural / industrial fires.
- Chemical risks.

Total traction to overcome the demands of wildlands

The variable front attack angle, off-road chassis and built-in travel of the tracked system absorbs irregularities in the ground such as stones, trunks or small steps without destabilizing. Flexible mobility at a speed of 3 MPH (5 MPH).



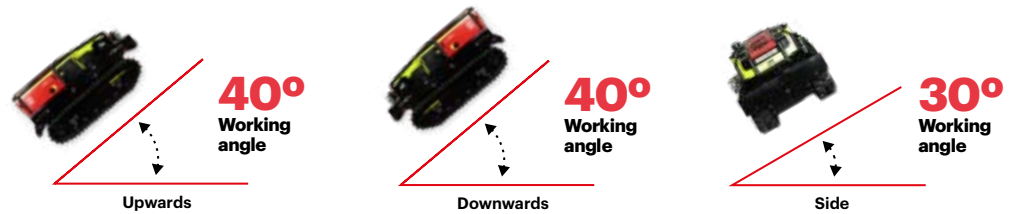
Remote control:

Light, intuitive and easy to use. Operate the machine at a distance of 164 yd (150 m). 116 hours of autonomy with rechargeable batteries.



Great operating capacity while minimizing field damage

Capable of working efficiently on slopes of more than 30°. The small size means it can easily pass through narrow 4 ft (1 m) passages. Suitable for cleaning work, fire prevention and controlled burns.



A combination of several tools

Dronster can simultaneously equip a front and rear implement as well as accessories over the top with capability that's difficult to beat.

Range of movement

The front arm on the Dronster can be raised up to 3 ft (1 m) and carry up to 661 lbs (300 kg) in weight.

Easy to move

The small size and low weight (2315 lbs | 1050 kg) means it can be moved by pick-up, ¾ ton van, helicopter, or by compact trailer... (offered as an optional accessory).



Wildland fire management and suppression

Dronster is the most versatile high-performance robot in the sector. In the wildland configuration, it can be coupled to a number of different implements for fire extinguishing, defense and perimeter line creation, forest management, restoration after the fire as well as safety zone creation. Plus, the transport tray can be used to carry backpacks, hoses, nozzles, motor pumps, saws and other tools.



Wildland brush chopper

Front tool



Wildland brush chopper which can be raised up to one meter off the ground that's capable of working between lines, on narrow paths and on highway and road banks. High cutting power with hybrid axles, blades/hammers and Forestry 360° features.

Specs

Cutting length	47 in 120 cm
Pressure	2900 psi 200 bar
Rotation speed	1980rpm
Oscillation	13° dx-sx
Hydraulic Engine	23-33cc
Weight	388 lbs 176 kg

Skid unit

Rear tool



High-pressure extinguishing kit with components of the highest quality in a compact design perfectly adapted to Dronster.

Technical data

May vary depending on the model and manufacturer.

Trencher

Front tool



A necessary tool for creating trenches and fire perimeters in organic matter or subsoils.

Technical data

May vary depending on the model and manufacturer.

Rear shovel

Rear tool



Used in combination with front implements and adapted to the back of the machine, it's used to move away and drag the remains of combustible materials produced by the chopper.

Technical data

Work length	33.8 in 86 cm
Weight	48.5 lbs 22 kg

Emergencies and rescue operations

In the emergency configuration, it can be coupled to a number of different implements for high-risk structural or industrial fire extinguishing as well as to fight the effects of adverse weather phenomena. Plus, it features a quick hook-up system so the top can be used as a stretcher to evacuate the wounded.



Monitor Front tool



An essential tool for remote high-risk structural or industrial fire extinguishing.

Technical data

May vary depending on the model and manufacturer.

Ventilator Front tool



Used to create positive pressure on smoke evacuation and convective heat conduction in closed areas and to increase water efficiency.

Technical data

May vary depending on the model and manufacturer.

Snowblower Front tool



Used to clear snow in paths or other areas.

Technical data

May vary depending on the model and manufacturer.

Robust, efficient and reliable

Dronster is built on a steel chassis capable of withstanding shocks and impacts. All components have been tested and certified to ensure maximum reliability and safety.



Features

Engine	Hatz 3 cylinder 4 stroke I 59 HP (44kW)
Hydraulic Group	PWG tandem 3 pumps C3-W1-W1
Fuel tank Oil tank	7,13 gal (27 l) 7,39 gal (28 l)
Tread	Axial piston engines I Rubber tracks
CPU	Bodas controller RC Serie 30 I 4 Ports CanBus
Protection of electronic components	IP 65 Protection

Remote control	Rechageable batteries - Up to 100m range
Control panel	5" touch screen I Hour timer I Levels I Temperature
Front winch	Allows drag of up to 4410 lbs (2000 kg)
Speed	0-3 miles/h (0-5 km/h)
Weight	Weight of the machine without implements, 3218 lbs - Up to 1700 lbs Front Implement load limit

Tactical Unit

A multi-functional module to handle any type of wildland fire emergency

Fires are becoming faster, more unpredictable and more devastating. The Tactical Unit module can be used to design a number of attack strategies adapted to the various scenarios that can occur in a wildland operation.



Tactical Unit 1

A multi-tool module for operations in remote areas

When it comes to wildland fires, having modern and efficient tools to do all sorts of operations is essential. The Tactical Unit 1 is the perfect complement to those classic fire trucks designed solely for direct attack with a waterline.

Designed to transport machinery and tools anywhere no matter how remote, it can carry the Dronster emergency robot, a Heliskid, tools, PPE, self-protection equipment and accessories. It also features a crane mast loading and unloading system for the Heliskid.



Characteristics

- Custom manufactured modules.
- Great storage capacity: up to 3,000 l in 4 cabinets with aluminum blinds + upper tray.
- Heliskid: 3,000 l in capacity. Up to 25 bar and 363 l/min.
- Crane mast to load and unload the Heliskid.
- Dronster multi-purpose robot.
- Steel and aluminum structure.
- Dimensions of the complete module: 270 x 220 x 166 cm.
- Total weight of the module: 2,170 kg*



*depends on the accessories



Tactical Unit 2

Large-capacity fire truck with high-performing off-road features

In version 2, the purpose of the Tactical Unit is to carry large quantities of water to the most inaccessible areas. It continues to be an independent and interchangeable module yet it's designed to equip the vehicle with wildland pump capacities. The water tank is larger than for any pick-up vehicle and it's easier to maneuver than traditional wildland firetrucks. It can be equipped with a Heliskid for more water capacity and more operational possibilities.

Characteristics

- An adjustable medium-pressure skid unit.
- Tank for up to 3,000 l of water with an inner breakwater.
- 2 cabinet blocks with a total capacity of 760 l.
- Upper loading tray with a surface area of 4 m².
- Steel and aluminum structure.
- Dimensions of the complete module*: 2640 x 2270 x 1340 mm.
- Total weight of the module: approx. 1100 kg.

*Height varies based on the tank capacity.



Adaptable to light trucks



Unimog 319



Iveco Daily 70C18HA8
Double cabin



Iveco Daily 70C18HA8
Single cabin



Maneuvering with the Tactical Unit 1

Maneuver 1



1

Firefighter movement to strategic places to fight fires from a helicopter.

2

Heliskid transportation and deployment.

3

Aerial tank filling.

4

Hose connection to the Heliskid fire pump and start attack with a water line.

Maneuver 2



- 1**
Aerial transportation of the Dronster and one operator to the point of action.

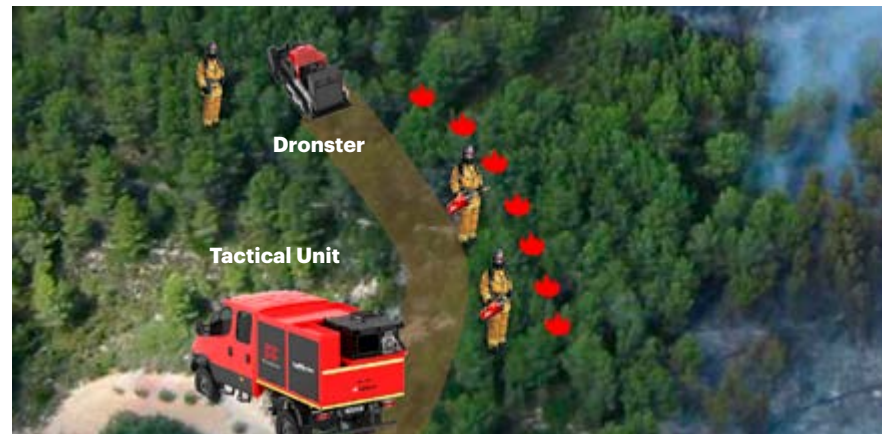
Means of Operation 1



- 2**
Dronster gradually opens a defense line (indirect attack).

- 3**
Hoses are laid from the defense line created by Dronster (direct attack with a water line).

Means of Operation 2



- 2**
Dronster gradually opens a defense line (indirect attack).

- 3**
Burn out from the defense line created by Dronster.

 frontline



Attack Nozzles



Adjustable flow nozzles

Made with high-durability materials that are resistant to high temperatures.

vft SG 540 Nozzle

Adjustable constant flow nozzle with rotary cogs.



Fire pump

NFPA 1964

Standard for spray nozzle tips.

EN 15182-1:2020

Manual hose service nozzles.

Characteristics

- Laser engraved symbols and usage indicators.
- Ergonomic handle, grip and bumper.
- Compatible with foam proportioners and CEP foam tubes.
- Easy maintenance.
- Cleaning position.

Specifications

Weight

1.58 kg.

Length

23 cm.

Adjustable flow rates

19-37-90-150

Deflater type

Rotary cogs

Operating pressure

7 bar at 100 psi | 16 bar at 228 psi.

Material

Anodized aluminum.

Rotating inlet

1 1/2" (25 mm) NH | NPSH | BSP | Barcelona

Positions

Stream, 30° fog and total fog.

Rylstatic

The latest in firefighting nozzles

Rylstatic is the latest technological advance in firefighting nozzles. This notched deflator enhances the features for rotary impellers as well as fixed cogs in the following ways:



- **Less headloss** since the water flow changes direction more gently **and greater reach** in the stream position of approximately 4.5%.
- The water mixes with the air for **smaller drops, a more even stream and better fog quality.**
- **No maintenance required:** the cogs don't break, don't bend and don't get obstructed.

Viper Attack 540 Forest Nozzle

A next-generation constant flow regulator nozzle featuring the all-new patented Rylastic system.



Fire pump

NFPA 1964

Standard for spray nozzle tips.

EN 15182-1:2020

Manual hose service nozzles.

Characteristics

- Laser engraved symbols and usage indicators.
- Ergonomic handle, grip and bumper.
- Compatible with foam proportioners and CEP foam tubes.
- Easy maintenance.
- Cleaning position.

Specifications

Weight	1.36 kg.
Length	22 cm.
Adjustable flow rates	25-50-125-175.
Deflater type	Rylastic system.
Operating pressure	40 bar at 580 psi.
Material	Anodized aluminum.
Rotating inlet	1 1/2" (25 mm) NH NPSH BSP Barcelona
Positions	Stream, 30° fog and total fog.

vft Orange Devil 3012 Nozzle

A next-generation constant flow regulator nozzle featuring the all-new patented Rylastic system.



Fire pump

NFPA 1964

Standard for spray nozzle tips.

EN 15182-1:2020

Manual hose nozzles for services.

Characteristics

- Laser engraved symbols and usage indicators.
- Ergonomic handle, grip and bumper.
- Compatible with foam proportioners and CEP foam tubes.
- Easy maintenance.
- Cleaning position.

Specifications

Weight	2.28 kg.
Length	29 cm.
Adjustable flow rates	115-230-360-465
Deflater type	Rylastic system.
Operating pressure	7 bar at 100 psi 16 bar at 228 psi.
Material	Anodized aluminum.
Rotating inlet	1 1/2" (25 mm) NH NPSH BSP Barcelona
Positions	Stream, 30° fog and total fog.



Self-Protection Systems



Complete protection for emergency situations

Designed to protect people and objects threatened in emergency situations due to wildland fires either because of an eruption of fires in urban areas or entrapment situations during extinguishing operations.

Self-Protection Kit

Protection against wildland fires

The all-new self-protection kit designed to protect developed areas, isolated homes, campgrounds, recreational areas and/or isolated structures in forested areas from fires.

Agile and customized use

Easily towable and scalable to adapt to the area to be defended.

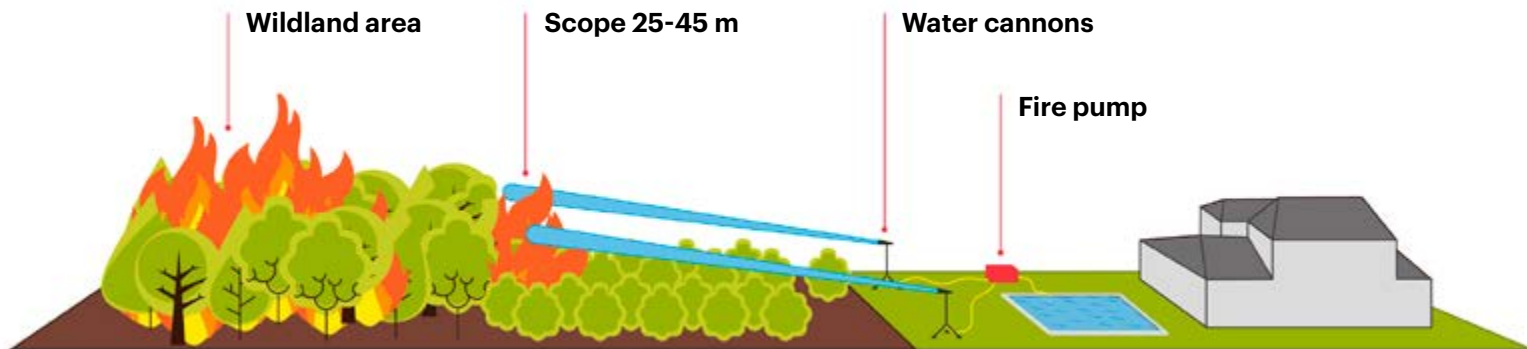
Components

- EN certified PPE (customer chooses quantities).
- BH4 portable fire pump (23 HP Briggs & Stratton Vanguard engine, 4-stage centrifugal pump compatible with foam-forming agent, up to 28.8 bar maximum pressure and 397 l/min maximum flow rate).
- Manual tools: Gorgui and fire swatter.
- SIDEINFO System (Approximate scope of 25 to 45 m. Can be rotated 360°. Protected surface area: 1,900 to 6,400 m². Can be connected to a hydrant, pool, tank, fire pump).
- Adjustable flow nozzle. Blindex 3-layer hose. Fuel tank. Connectors, wyes and all the accessories needed for proper installation and operation.
- Independent gas tank.



The most effective protection for an urban wildland interface

Used to quickly deploy a complete self-protection system. Includes all necessary PPE for operations.



How does it work?

1

Select the area to defend with greater precision.

2

Install the fire pump at the closest water source.

3

Connect all the hoses (from the fire pump to the cannons).

4

Set up the water cannons in a defense position.

5

Turn on the fire pump and it will begin spraying water.

Fire-Retardant Curtains

Thermal insulation for vehicles

Specially designed for entrapment situations during wildland fires. Custom-made for each vehicle model to guarantee complete coverage of the inside of the cab. Easy to assemble and can be moved from one vehicle to another as needed. For enhanced effectiveness, using in combination with self-protection nozzles and assisted breathing equipment is recommended.



Characteristics

- Comprised of 3 layers.
- Outer aluminum layer.
- Middle fiberglass layer.
- TECSTAR inner layer.



TECSTAR features

Thermal shock	> 300 °C
Ignition	A 435 °C with 100% O ₂
Maximum continuous operating temperature	260 °C

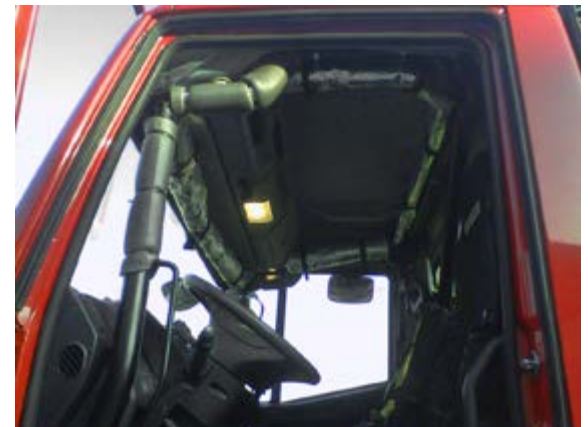
Standards

EN ISO 9151:2018

EN ISO 11612:2018

EN ISO 6942:2002

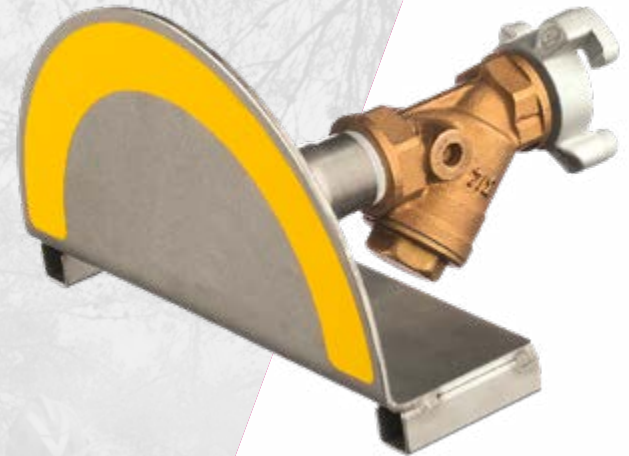
Levels: A1, B1, C4.



Self-protection Nozzle

High-pressure and low-energy nozzle for vehicles in entrapment situations

The cycloidal screen releases high-pressure water to create a fan-shaped protective shield over the survival area which dampens the vegetation and vehicle structure with artificial rain to absorb heat. The shape and volume of discharge vary based on the operating pressures (optimal pressure of 20-22 bar with a consumption of 120 l/min). All-new model with optimized hydraulics.



Recommended conditions of use

- 20-22 bar operating pressure
- 10-20 m of 25 mm hose
- 120 l/min consumption
- 11 m wide water screen
- 4 m tall water screen

Characteristics

Material	Stainless steel
Dimensions	10 x 12 x 20 cm
Weight	900 g
Connector	Barcelona (25 $\frac{3}{4}$ ") male UNE23400 (aluminum)
Stream (nozzle)	25 mm diameter
High-pressure semi-circular screen	Up to 35 bar
Guarantee	2 years







A new generation of helicopter tools

Gravity-based water discharge systems have not evolved in the last 30 years and do not meet the needs of today's fires. To improve their efficiency, Vallfirest has created the **vft** **aerial** division - a new generation of products designed with the highest technology to revolutionize fire extinction with aerial resources.

Heliskid

Water wherever and whenever you want

Heliskid is a compact and versatile skid unit for light vehicles designed for easier direct attack operations with a water line in remote areas. A device that can be moved on the ground or in the air, **it has 6 times more water capacity than a traditional skid unit and a high-performance motor pump.**

Quick and easy assembly

A completely operational system in less than 5 minutes.

Optimized loading time

The Heliskid tank is unique in that it can be supplied using aerial resources, thereby considerably reducing the time needed by standard trucks which use other trucks to load their water tanks.

Water available in difficult-to-access places

Can be heli-transported to remote areas where trucks and pick-ups can't go to have a tank in a strategic point for extinguishing work.



Flexible deployment and use

Quickly deploy the structure/tank with 4 hoisting points to be filled and pressure-feed the water from the tank through the motor pump and hoses.



Motor pump

Model 4 stroke

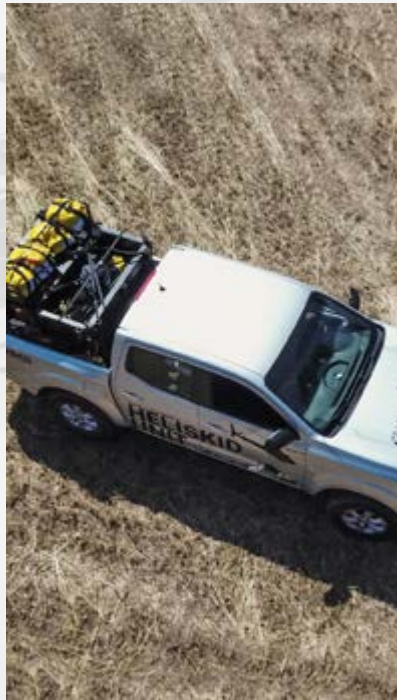
Power	145 psi (10 bar) pressure	290 psi (20 bar) pressure	363 psi (25 bar) pressure
23HP	96 GPM (363 l/min)	63 GPM (240 l/min)	45 GPM (170 l/min)

Features

Telescopic structure	Quick fix support system	Fuel tank	3 gal (12 l)
Hose pack	Can carry 3-4 hose-carrying bags for a total of 262-350 yards (240-320meters) of hose.	Hoisting points	4 points for helicopter transportation.
3,000 l. canvas tank	Fold-down canvas and detachable structure for transportation	People needed for assembly	A minimum of 2 people recommended.
Motor pump	23 HP	Weight	880 lbs (400 kg) without water 7385 lbs (3350 kg) with a full tank.

Heliskid

- Reinforced aluminum structure.
- Tools and 3 or 4 hose packs can be loaded without compromising helicopter transportation.
- 4 independent telescopic legs.
- 3,000 l fold-down canvas tank.
- 4-stroke engine and pump.
- Independent gas tank.



Sequence of use

1

Transportation

Easily moved in pickup vehicles because of the small size and low weight.

2

Loading and unloading

Telescopic legs to raise the Heliskid to load/unload it from the vehicle.

3

Helitransportable

Because of the low weight (350 kg) and 4 upper anchoring points, the Heliskid may be transported to difficult-to-access areas via helicopter.



4

Stabilization

The 4 independent telescopic legs can stabilize and level the Heliskid on any ground. Plus, it's equipped with a level indicator for better accuracy.



5

Tank assembly

A light structure for easy water tank deployment and assembly. Tank connection to the pump via a suction hose.



6

Filling

The tank can be filled from the helicopter or through suction from a hydrant, river, lake, truck, etc.



7

Use

A 45 mm connector output enables split coupling for two hoses.

Inflatable Tanks

Quick and easy to assemble large capacity tanks

Vallfirest self-inflatable tanks are the best choice for enhanced logistics when creating remote water points. They exponentially reduce assembly time and complications in comparison to traditional metal tanks, and they come with more efficient features than floating ring tanks.



Technical Specifications

Capacity	Height	Useful Height	Diameter	Weight
12.000 l	100 cm	85 cm	400 cm	75,2 Kg
25.000 l	200 cm	170 cm	400 cm	112 Kg
56.000 l	200 cm	170 cm	600 cm	220 Kg

- **Thickness** 10 cm
- **Connections** Two 2.5" threaded valves at the bottom
- **Color** Orange
- **Inflation Pump** 1200W (2 units)
- **Inflation time** 3 min

High-quality materials

PVC 2600 g/m2 structure with a double layer base

Anchor points

6 stainless steel perimeter rings for maximum stability

Connections

Two BSP 2.5" threaded valves at the bottom

Repair kit Included

Comes with patches for the base and structure, and a cap for the inflation valve



Standards

EN 16471:2014

Helmets for wildland fire fighting.

EN 16473:2014

Firefighter helmets. Helmets for technical rescues.

EN 397:2012+A1:2012

Helmets for industrial safety.

EN 12492:2012

Helmets for rescues, mountaineering and climbing.

EN 443:2008

Helmets for fire fighting in buildings and other structures.

EN 1385:2012

Helmets for water rescues.

NFPA 1977

Protective clothing for wildland fire. (US standard).

EN 166:2001

Personal eye protection.

EN 14458:2018

Personal eye protection equipment.
High-performance visors for use with safety helmets only.

EN ISO 11612:2015

Protective clothing. Protective clothing against heat and flame.

EN ISO 13688:2013 & EN ISO 13688:2013/A1:2021

Protective clothing. General requirements.

EN 1149-5:2018

Protective clothing. Electrostatic properties. Part 5: Material behavioral requirements and design.

EN ISO 15384:2020 & EN ISO 15384:2020/A1:2021

Protective clothing for firefighters. Laboratory testing methods and requirements for forestry clothing.

EN 659:2003+A1:2008

Protective gloves for firefighters.

EN 13794:2002

Respiratory protection equipment. Closed-circuit autonomous respiratory equipment for evacuation.

EN ISO 9151:2016

Protective clothing against heat and flame.
Determination of heat transmission on exposure to flame.

EN ISO 6942:2002 EN ISO 6942:2022

Protective clothing. Protection against heat and flame.

EN 14466:2005+A1:2008

Fire-fighting pumps. Portable fire pumps. Safety and operational requirements, testing.

EN 1028-2:2002+A1:2008

Fire-fighting pumps. Fire protection centrifugal pumps with primer. Part 2: Verification of general and safety requirements



Quality and Environmental Policy

In line with our slogan "Innovative Solutions for Wildland Fire Fighting", our mission seeks to change the world of wildland fires by equipping professionals with tools, equipment and services based on technological innovations and analyses of lessons learnt to efficiently and safely manage and fight 21st century fires.

Pursuant to our values, we want to be our customers' first choice. The quality of our products and their satisfaction are our priorities. We make an effort to constantly improve our products throughout their lifecycle.

The business activity VALLFIREST TECNOLOGIAS FORESTALES S.L. considers compliant with the Quality and Environmental Management systems required as per international standards 9001:2015 and ISO 14001:2015 is:

THE DESIGN, MANUFACTURE AND SALE OF WILDLAND FIRE FIGHTING EQUIPMENT AND MATERIALS

Our commitment in order to reach this goal:

1. Meeting our customers' explicit and implicit demands, requirements and expectations as well as all legal and regulatory requirements.
2. Disseminating the Quality and Environmental goals and criteria established as well as our policy throughout all levels of our organization.
3. Implementing Quality and Environmental indicators and monitoring their progress to understand and guarantee our products and the quality level desired by our customers in addition to ensuring rational use of natural resources.
4. Ensuring optimal work conditions by assessing all risks that may arise in the processes and eliminating them as possible as well as reducing those assessed.
5. Developing ongoing training plans tending to improve our workers' qualifications and thereby implicating all personnel in the achievement of all the goals established in this document.
6. Managing the processes that reduce the environmental impact on our activities and pre-assessing the environmental impact of new activities or services.
7. Encouraging rational use of natural resources and clear awareness in favor of our environment, not only through our work but also by getting all our suppliers and customers involved.
8. A commitment to protecting the environment, including the prevention of pollution and the sustainable use of resources.
9. Consolidating the ongoing improvement process in the performance of all activities carried out at the company with management undertaking the commitment to constantly improve our Quality and Environmental Management system.
10. Fostering and achieving a motivating atmosphere for everyone at the company.
11. Maintaining the vision of being the leading company in the European market and an international reference in the design and development of professional equipment and tools for wildland fire fighting by innovating as we design solutions that offer professionals greater safety, better ergonomics and more efficiency all while constantly enhancing these tools based on professionals' real needs and lessons learnt.

Thank you for your trust.



www.vallfirest.com

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