



The future of firefighting™

## Unifire is the future of firefighting.

Since 1969, Unifire AB of Sweden has been a globally renowned and trusted manufacturer of advanced, high quality firefighting equipment.

Unifire has continually pushed the envelope in the development of the most effective and cutting-edge firefighting tools available.

In the 21st Century, Unifire has taken its expertise to new heights with the development of what are undoubtedly the world's most advanced and intelligent remote-controlled water/foam cannons (monitors), the FORCE™ monitor series.

All of Unifire's products are designed and manufactured in Sweden to the highest level of quality and craftsmanship and attention to detail.

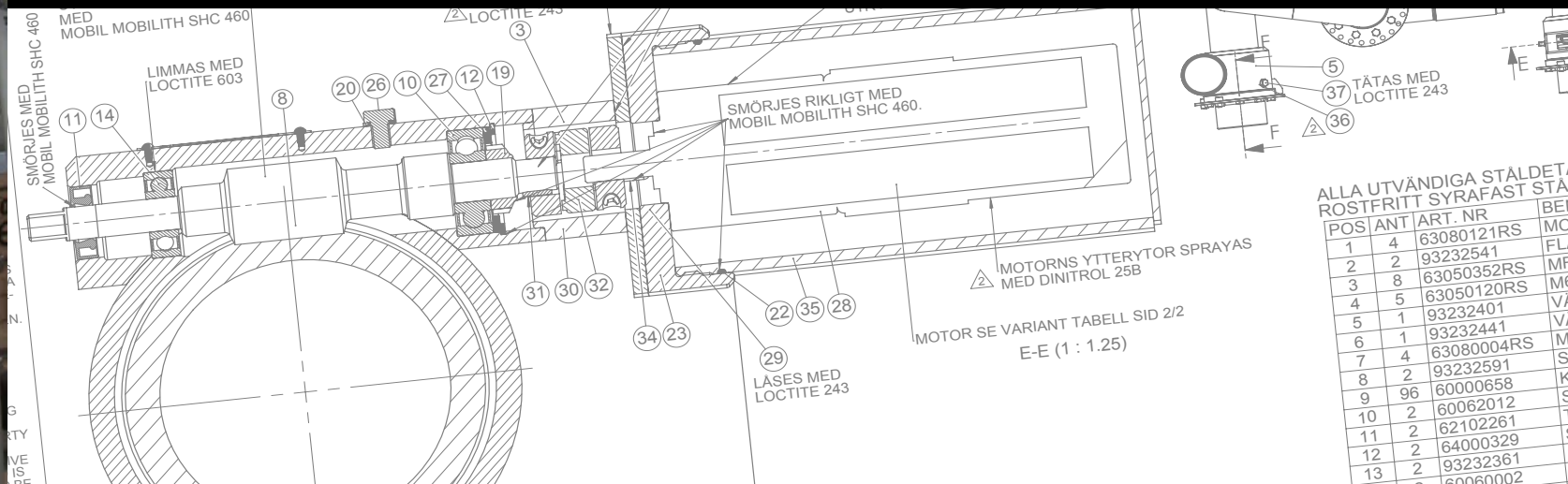
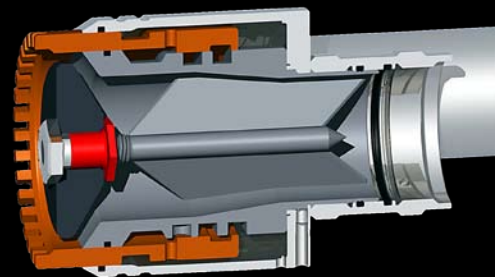




# Sleek Design. Unparalleled Performance. Unmatched IQ.

Unifire's focus remains singular—to offer fire fighters and industry the best and most effective tools available for directing water, foam and other agents.

And while the physics of fighting fires has not changed, Unifire employs cutting-edge technologies to precision engineer and manufacture the most advanced tools available for maximum efficiency of fire extinguishing and water delivery.



# Fire brigades

It is no wonder that fire brigades choose Unifire monitors and turrets.

Light weight, precision controls, built-in position feedback on all joysticks, record and playback at the press of a button, variable speed, simple to install and repair, unmatched performance.

Complimented by Unifire's famous hand-line nozzles, fire brigades have the best tools available for fighting fires under the most extreme conditions.





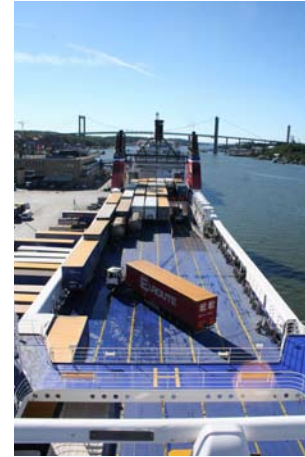
## ARFF and Air Force



Unifire's advanced control systems, combined with highly effective spray properties, make them ideal for the demands of aircraft rescue fire fighting and air force applications.



Unifire systems can control not only the turrets, but lights, valves, cameras, booms and virtually any electronic device.



## Marine Firefighting

For four decades, Unifire has been a leader in fire protection at sea.

With high quality chrome-plated brass nozzles and marine-grade stainless steel (type 316L) monitors, Unifire equipment is specifically designed for harsh marine environment.



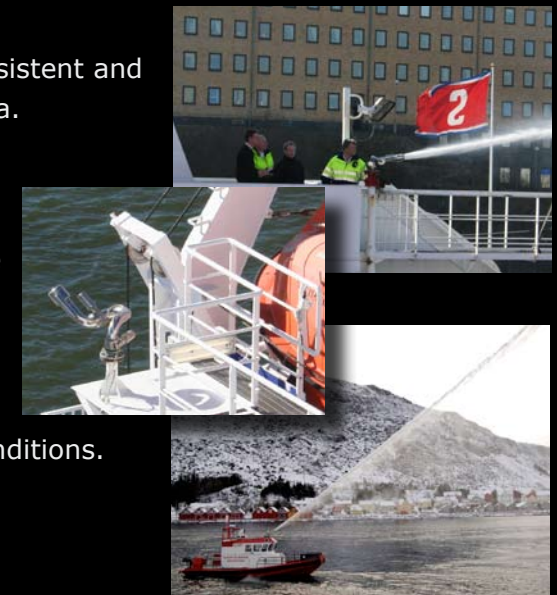
When Volvo sought the most effective and advanced water/foam monitor available to outfit its new firefighting tender for the Swedish Air Force, it surveyed the entire market. Volvo chose Unifire.

Force80™ monitors are outfitted on these advanced fire trucks and serve to protect under the most challenging circumstances.

Durable, reliable, corrosion-resistant and unbeatable performance at sea.

Whether for the protection of your crew, cargo, heli-decks or platforms, Unifire offers the right equipment for the job.

FORCE Monitors have been proven reliable and durable under the harshest marine conditions.



## Industrial Fire Protection

Oil & gas facilities, petrochemical plants, paper mills, warehouses, factories, incineration pits and waste-to-energy plants, storage facilities, aircraft hangars, train and airport arrival halls, tunnels, tanks, buildings, stadiums, opera houses—these are just a few of the numerous industrial fire protection applications for which Unifire nozzles and monitors are ideally suited and relied upon.

With a range of products from hand-line nozzles to manually-operated stainless steel monitors to our remote-controlled Force monitors, and our cutting-edge, fully-automatic fire detection and extinguishing systems, Unifire has the right solution for you.

Industrial operations run very real risks of fire. When fire does break out, it must be contained and extinguished at a very early stage to prevent catastrophic disasters.

Unifire's industrial solutions are designed to be highly reliable and effective in the toughest of industrial environments.

Offering a range of products that are ideal for industrial uses, Unifire is also leading the way in some of the most advanced automatic fire detection, pin-point location and extinguishing systems on the market.





## Automatic Extinguishing Systems



Unifire's networked systems of monitors and cutting-edge fire detection technologies allows for reliable and highly accurate detection, location and extinguishing of fires.

Unifire takes full advantage of 21st Century technologies to offer the most effective, fully-automatic systems on the market.



By combining Unifire's advanced remote-controlled monitors with state-of-the-art infrared and other fire detection technologies, Unifire systems can locate hot spots in 3D space even before fire breaks out.

Within seconds of detecting a fire or predefined temperature range, Unifire monitors can automatically respond with great accuracy.

At Unifire, the future of firefighting is already here.



## Waste-to-Energy Plants



Waste-to-energy plants pose unique and difficult firefighting risks and challenges.

In addition to Unifire's many installations, Unifire has thoroughly and independently researched the firefighting demands and approaches at numerous waste-to-energy plants and has published in-depth reports on its findings.

Trust Unifire's expertise and experience to provide a variety of innovative firefighting solutions designed specifically to meet the demands of waste-to-energy facilities.

Unifire's automatic systems are ideal for numerous applications, such as:

- Waste-to-energy plants
- Warehouses & Large Indoor Spaces
- Underground facilities
- Tunnels
- Shopping Malls
- Airport & Train Arrival Halls
- Aircraft Hangars
- High-Risk Assets
- Factories
- Petrochemical Plants
- Nonlethal Defense (e.g., prisons)



## Anti-Piracy

Unifire is committed to doing its part to reduce the problem of piracy and to help protect its victims.

That is why Unifire has joined INTERTANKO, where Unifire serves on the Security Advisory Board. It is our goal to collaborate with maritime professionals to better understand and deal with the many aspects of the piracy problem.

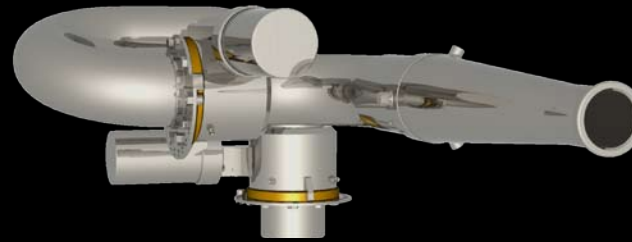
As a manufacturer of equipment that helps protect lives and property at sea, we take the growing piracy problem seriously.

## Special Problems Require Special Solutions

To address the very real threat posed by pirates, Unifire has specially developed the SeaSerpent™ series of remote controlled anti-pirate water cannons.

With the ability to protect the ship safely from the bridge and/or other protected areas of the ship, both automatically and under manual control, the SeaSerpent system is a specially designed solution to nonlethally protect marine vessels of all types.

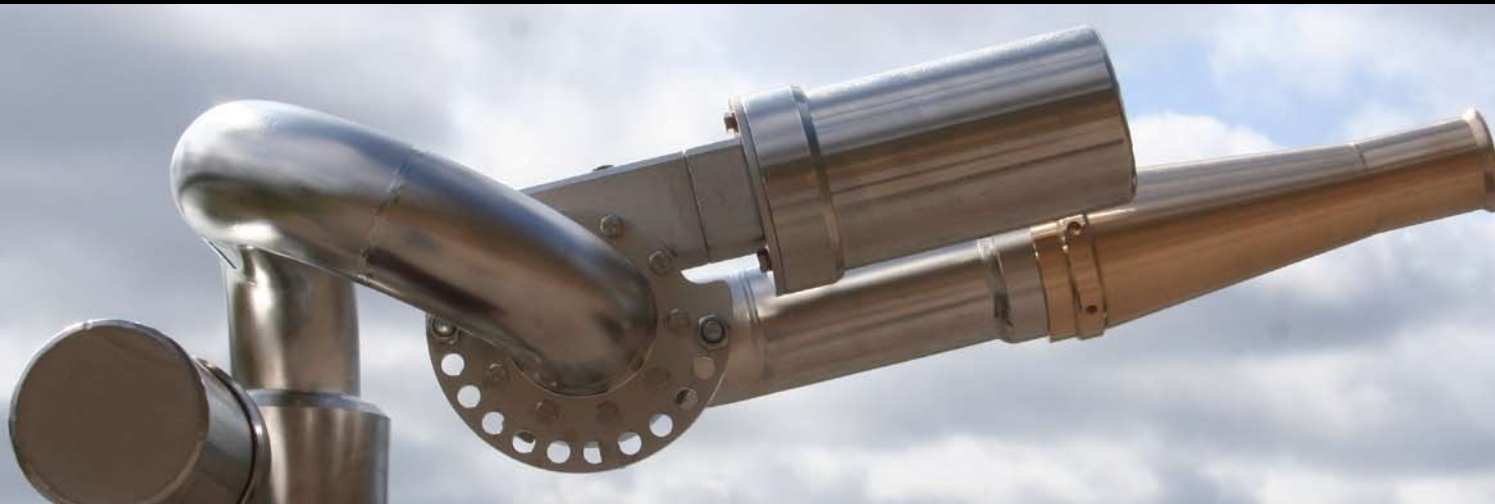
With both portable and fixed solutions available, Unifire continues the fight against pirates at sea.



Unifire is a proud Associate Member of



**INTERTANKO**





## Infinite Possibilities



### **RIOT CONTROL**

Unifire has developed special software and hardware for riot control vehicles to protect the public in a humane manner.



### **ZOOS**

Force monitors serve at zoos to help keep large animals cool and clean.



### **FOUNTAINS & ART**

In this example, world-famous artist Fernando Sanchez-Castillo turned to Unifire for his "Rainbow Warrior" fountain.



### **ROBOTIC SOLUTIONS**

We work with a number of robotic platform manufacturers for mobile firefighting solutions, like this one made in cooperation between Unifire and Segway.



### **OPERA HOUSES & PUBLIC SPACES**

We are working behind the stage to protect you at the new Oslo Opera House (pictured above) and numerous other public buildings and spaces.



### **MINING & WATER TRUCKS**

Mining and water truck manufacturers of many kinds turn to Unifire for our robust, acid-proof stainless steel Force monitors for wash down and dust control.



## Unifire Highest Quality Nozzles

Since 1969 Unifire has been known around the world for its high quality, long-lasting line of nozzles.

Serving fire brigades, ships, oil & gas platforms and facilities, and industries of all kinds, Unifire's nozzles are trusted around the globe.

All of our nozzles are made of chrome-plated brass and manufactured at high-tech, ISO9001:2000 and ISO14001:2004 certified facilities in Sweden to rigorous quality control standards.

Relied on at sea and on land for over four decades, most of Unifire's original nozzles are still at work saving life and property.

Our line of nozzles suit almost every need for industry and firefighting and come in a variety of flow capacities and spray properties, and with and without pistol grips.







**Position Feedback LED's**



<b>Monitors Technical Specifications</b>	<b>FORCE80</b>	<b>FORCE50</b>
Flow range @ 10 bar (Max. recommended)	2000-5500 lpm	400-2000 lpm
Max. Reach @ 10 bar	85 m	65 m
Max. fog angle	120°	120°
Size mm including nozzle	710x495x330 mm	510x350x220 mm
Inside pipe Ø	80 mm	50 mm
Weight in Kg incl. nozzle	30 kg	18,5 kg
Material	Stainless 316L	Stainless 316L
Vertical/Horizontal movement	+/-90° / 360°	+/- 90° / 360°
Limitbolts every 15 degrees	YES	YES
Max turning velocity (fast version)	24 deg/sec	38 deg/sec
Ambient temperature	-25 - +70° C	-25 - +70° C
Power consumption normal/Max. (@24V)	5A/15A	5A/15A
Voltage	12 or 24V	12 or 24V
Cable length Monitor-CPU	5 m	5 m
Max cable length Joystick (option up to 3000 m)	400 m	400 m
Fire resistant, EMC shielded cables	YES	YES
Multi-connectors on all connection points	YES	YES
CANBUS communication	YES	YES
Progressive, optical CANBUS joystick	YES	YES
Synchron nozzle control on Joystick tip	YES	YES
Multiple Joysticks (2 COM-ports)	YES	YES
Valve control from joystick and CPU	YES	YES
Record / Playback	YES	YES
Position feedback on Joystick as Standard	YES	YES
Selectable park position	YES	YES
CE marked	YES	YES
EMC tested	YES	YES
<b>OPTIONS</b>		
Synchron "point-and-shoot" Joystick (fully compatible)	YES	YES
Telescopic pipe (60cm) as option	NO	YES
Radio remote control (various options)	YES	YES



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