

SAFEGUARDING DEFENSE

# Fire protection solutions for military applications



**GIELLE**

fire protection since 1965

Protection  
matters



[www.gielle.it](http://www.gielle.it)





## **| Mission-critical safety**

In the defense sector, safety is inseparable from mission readiness. Fires in military environments can escalate rapidly, fueled by high-energy systems, flammable liquids, and tightly confined spaces. Unlike in civilian contexts, a fire on board a military vehicle, vessel, or aircraft is not just a technical issue—it is a potential threat to lives, operational capability, and national security.

For this reason, Gielle has developed fire protection systems specifically designed for military applications. Our solutions combine rapid detection, instant suppression, and long-term reliability, ensuring that forces remain operational even under the harshest conditions. From armored vehicles in desert operations to naval vessels at sea and aircraft in the sky, Gielle systems provide protection where it matters most.



# **| Military ground vehicles**

Armored personnel carriers, tanks, and support vehicles are constantly exposed to the risk of fire. The combination of fuel, hydraulic fluids, and high-density electrical systems creates conditions where even a minor spark can lead to catastrophic consequences. Moreover, these vehicles often operate in combat zones, far from external firefighting assistance.

## **Engine and Crew Protection**

Gielle solutions are designed to act within seconds. Automatic suppression in engine compartments prevents fuel or oil fires from spreading and damaging propulsion systems.

Crew compartments are equipped with safe, non-toxic extinguishing systems that protect personnel without reducing visibility or oxygen levels.

## **Electronics and Mission Readiness**

Battery enclosures and electronic modules are critical components in modern military ground vehicles. Gielle solutions provide clean-agent suppression, including gaseous or aerosol systems, specifically designed to protect these sensitive areas. By rapidly extinguishing fires without leaving residues, our systems ensure that vital communication, navigation, and control equipment remain fully functional.

With fast-acting, robust, and compact systems, Gielle not only keeps ground forces safe and vehicles fully operational, but also ensures that critical equipment, communications, and navigation systems remain protected.

This comprehensive approach gives personnel the confidence to carry out their missions effectively.







# I Navy and military vessels

Fire at sea is one of the most dangerous scenarios a crew can face. Isolated from external support, naval vessels must rely entirely on onboard systems for protection. Machinery rooms, engine compartments, and electrical spaces are particularly exposed, while crew quarters and galleys also require dedicated safety solutions.

## Protection across all compartments

Gielle provides comprehensive naval fire protection. In engine and machinery rooms, gaseous or watermist systems deliver rapid suppression, stopping fires before they escalate. Oil mist detection adds safety by identifying hazards before ignition. Electrical control rooms are protected with residue-free agents that eliminate risk without damaging electronics, while crew areas and kitchens benefit from systems safe for use in occupied spaces.



## Uninterrupted operations at sea

Gielle systems guarantee that naval operations remain uninterrupted—even in the most challenging maritime conditions.

- ✓ **Rapid Suppression**  
Fires are controlled within seconds, preventing escalation.
- ✓ **Crew Protection**  
Safe systems for occupied areas like quarters and galleys.



# **| Military aviation and aircraft**

In military aviation, fire safety is critical to mission success and the protection of lives. Aircraft operate in extreme conditions, where high-performance engines, advanced electronics, and fuel systems present unique fire risks.

## **Tailored Protection for Every Mission**

Gielle provides fire protection for military aircraft, ensuring that every component—from engine compartments to avionics bays and cargo holds—is safeguarded by proven, high-performance suppression technologies. Our systems are designed to minimize weight, operate automatically within seconds, and use clean agents that avoid damage to sensitive equipment.

## **Supporting Operational Readiness**

By combining speed, reliability, and adaptability, Gielle fire protection systems and solutions help maintain operational readiness for every type of military aircraft and operational requirement, ensuring that crews can focus on their missions with confidence.

- ✓ **Helicopters**
- ✓ **Bombers**
- ✓ **Fighters**
- ✓ **Surveillance Planes**

Gielle combines innovation, reliability, and military-grade standards to deliver fire protection solutions that adapt to evolving operational challenges.

Every system is engineered to integrate seamlessly with aircraft design and mission requirements, maintaining peak performance throughout the lifecycle of the aircraft.







# Hangars and base facilities

## Comprehensive Facility Protection

Air and ground bases are critical hubs for military operations, where the protection of personnel, aircraft, vehicles, and equipment is essential. Fires in hangars or storage areas can spread rapidly due to the presence of fuels, lubricants, and other flammable materials, posing serious risks to both assets and mission readiness. Effective fire protection is therefore crucial, not only for safety but also to ensure uninterrupted operations and the rapid return to service of critical equipment.

Gielle provides tailored fire suppression systems for hangars, maintenance facilities, and operational bases. From large-scale watermist, foam, or sprinkler systems to localized clean-agent or aerosol solutions, every area is protected according to its specific risk profile.

Our systems are engineered for rapid detection and suppression, minimizing damage while safeguarding personnel, aircraft, vehicles, and valuable assets, giving base operators confidence that their facilities remain secure under all conditions.



## Wide range of fire protection solutions

Our range of fire suppression solutions is tailored for hangars and base facilities. Each solution is designed to address specific fire risks, ensuring rapid response and maximum protection for personnel, aircraft, and equipment.

- |                    |                             |
|--------------------|-----------------------------|
| ✓ <b>Foam</b>      | ✓ <b>Clean-agent</b>        |
| ✓ <b>Watermist</b> | ✓ <b>Aerosol</b>            |
| ✓ <b>Sprinkler</b> | ✓ <b>Fire extinguishers</b> |

# | Service and Support

## **Always ready, Always protected**

Gielle goes beyond simply providing fire protection systems. Our comprehensive service solutions are designed to ensure that every system—whether aerosol, gaseous, or watermist—remains fully operational at all times.

Routine maintenance, inspections, and the rapid replacement of components help prevent downtime and extend the life of your equipment. Refilling and testing of extinguishing cylinders are carried out by trained technicians, following the highest safety standards,

With a global support network and dedicated expertise in military applications, Gielle guarantees that all fire protection assets are mission-ready, reliable, and fully effective at all times. Our commitment to service goes beyond routine maintenance, ensuring that every system is inspected, replenished, and ready to perform under the most demanding conditions. This comprehensive approach provides continuous protection for personnel and equipment, giving military forces the confidence to carry out operations safely and efficiently, no matter the environment or mission complexity.



### **360° Maintenance**

Routine inspections and component replacements keep systems operational.



### **Fast Refills and Repairs**

Extinguishing cylinders and parts are serviced quickly to minimize downtime.



### **Global Support**

Expert technicians ensure all fire protection assets remain mission-ready worldwide.





Shaping the future together







# | Gielle Industries

**For over 60 years**, we at Gielle have been dedicated to advancing fire protection with passion, innovation, and reliability. Since 1965, we have grown into an international reference point, offering complete **fire safety solutions** for every requirement—from detection and suppression systems to maintenance and consultancy services.

Today, we operate in **more than 40 countries worldwide**, combining global expertise with local presence. All our products and systems are certified and rigorously tested, ensuring maximum safety and compliance with the highest international standards.

## Our Mission

With our constant focus on innovation and reliability, we set new standards in fire protection. Through our comprehensive solutions, we help companies worldwide to...

... safeguard people and property in every environment,  
... ensure compliance with international safety standards,  
... minimize downtime with reliable and residue-free technologies, and  
... protect the planet with sustainable fire protection solutions.



MINING  
INDUSTRY



INDUSTRIAL  
FACILITIES



MARINE AND  
OFFSHORE



PUBLIC  
BUILDINGS



RECYCLING  
INDUSTRY



SERVER  
ROOMS



ARCHIVES AND  
MUSEUMS



CUSTOM  
SOLUTIONS

## Solutions for every application

We offer a turnkey approach to fire protection by offering solutions that are designed, supplied and installed complete and ready to operate.

Visit our website **[www.gielle.it](http://www.gielle.it)**

## Innovation in Fire Protection

Every environment has its own fire risk profile. That's why Gielle offers customizable solutions, whether for industrial facilities, transport vehicles, commercial buildings, or technical spaces.

If you want complete and dependable fire protection, look no further. Gielle offers expert solutions designed to meet your unique needs, protecting people, property, and operations across all industries.







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