



# **FIRE & SECURITY MANAGEMENT**

---

**YOUR IMPULSE OF SAFETY**

## Existing Approach

- Traditional fire fighting method relies heavily on availability of water supply
- Uses gallons of water or foam for large scale fires / oil and gas burning
- Current method for extinguishing gas and petroleum gushers are complicated and require large number of manpower and special equipment.
- Current forest fire control tactics are defensive in nature:  
Deny the fire fuel by cutting firelines with heavy equipment, aircraft or manually.

*According to Fire & Safety Group, current conventional methods have a global success rate of 48% and rely greatly on environmental factors i.e water supply, difficult terrain etc.*

---

## Exploding an explosion?

In the United States, firefighters were unable to put out a burning oil well that scorched for over 10 months. Various efforts and methods were used including using oceans of water but of no avail. Finally, a barrel of dynamite was thrown into the flame to force-extinguish the flame. The method was not only dangerous, it posed great wastage in resources.



# Introducing Impulse Storm

*click to play movie*



- Developed in Ukraine
- With over 23 years development by specialist in New Impulse Technology.
- Multifunctional machine of explosive pulverization of materials
- Effectively extinguishes fires of different classes by means of volley feed of fire-quenching compositions to the fire center.
- It is capable of delivering to the fire center only within four seconds of 1.5 tons of fire-quenching powder.
- The powder being in a pulverized form considerably increases its heat-absorbing capacity.



# Introducing Impulse Storm



Advantages of this unique technology that is one in its kind worldwide are as follows:

- The technology is unique and very efficient
- It extinguishes fire faster than other systems
- It is safe and environmental friendly, no negative impact on environment.
- The use of this system is harmless to human life or property
- High accessibility to difficult terrain and its considerable maneuverability
- The system offers maximum protection to its crew who is sufficiently fortified by the armor
- Capability to extinguish fire from a distance makes fire fighting safer.
- Suitable for different climatic condition.



# Impulse Storm - Tanker/Truck

[click to play movie](#)



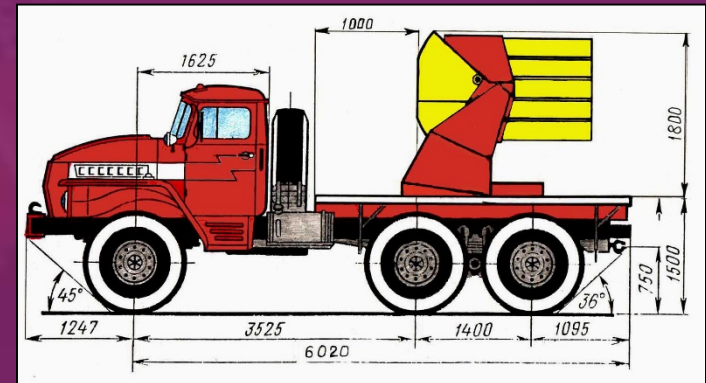
## Capabilities

- 50 barrels each containing 30kg of fire extinguishing powder
- Able to reach distance of about 120m
- Single douse is capable of putting out fire in an oil well
- High accessibility to difficult terrain and its considerable maneuverability



## Successfully Used For

- Large scale fires
- Oil and gas wells
- Nuclear and Thermal stations
- Ammunition Depots
- Chemical Plants
- Power Plants
- Internal Premises
- Airports
- Ports



# Impulse Storm - Airborne



- Conventional airborne fire fighting methods are unsafe, requiring the aircraft to fly close to the fire.
- Performed under low visibility
- Water based extinguisher have minimal impact on fire i.e. wildfire
- Water evaporates with marginal percentage of liquid reaching the targeted area.
- Impulse Technology allows fire-extinguishing from most aircraft / helicopter.
- Allows to bring 100% of fire-extinguishing compound in the fire area.
- Helicopter with 3-4 tones load capacity can extinguish highly-intensive fires on the square exceeding 4000 m2.





# Anti Ejection Equipment



## Effective Method

- Pre - installed at location
- Instant action upon detection of hazardous situation
- Saving on valuable resources since fire is put out faster
- Faster and more efficient compared to relying on 'call and wait' system for Fire Fighters
- Safer since there is no direct manual intervention
- Do not require Fire Fighters, only in-house fire team.



# Impulse Storm – Stationary System

## Remote Control / Intelligence Systems

The system control computer, receiving and analyzing data from fire sensors, independently or with the participation of the operator takes decisions on activating the impulse powder extinguishing system.

---

## Features of System

- possibility of detecting fire at the first stage of its development
- addressing information on fire or on any other event within the system
- use of digital information transmission methods
- locally automated industrial controllers monitor changes in environment 24/7
- able to control the process and arrangements of fire extinguishing effectively
- high fire extinguishing efficiency at different stages of fire



# Impulse Storm - Handheld



- Effective range of 4-5 meters
- Effective area of 3-4 sq meter
- Have one or more barrel with the capacity of 0.5 liters each



## Successfully Used For

- Conditions of life:  
apartments, basements, cars, offices and etc.
- Local inflammation centers:  
television sets, computers, electric panels, cars
- Initial stage of inflammation
- For holding the flame front till the arrival  
of specialized teams
- Handicap wheelchairs





**THANK YOU**