



- ROTOR TECHNOLOGIES



**EXTINGUISH** MIST.



'change that doesn't cost the earth'



# EFFECTIVE & SUSTAINABLE

- Directional control of stream allows for fire extinguishing from any angle
- Increased safety for system operators as compared to other technologies
- Nozzle creates a mist “halo” that protects fire fighter/system operator from radiated heat and smoke. Stream can be used to protect trapped victims from flames, heat and smoke
- A totally sustainable technology: Completely safe for people, property and the environment
- The key Extinguishing Agent is simply WATER! applied in very small amounts

	Usage Versatility*				Economic Factors		Sustainability		Safety Considerations	
	Ordinary Combustibles Class A	Flammable Liquids & Gases Classes B & C	Electrical Equipment up to 245 kV Class E	Cooking Oil or Fat Class F	Resource Efficient	Minimal/No Collateral Damage	Environment Friendly	Human Friendly	Thermal Protection of Fire Fighter	Can use to rescue/ secure victims threatened by Class B, C, F fires
High Pressure Water	yes	no	no	no	no	no	depends	yes	sometimes	no
AFFF Foams	yes	yes	no	no	no	no	no	no	no	no
CO2	no	yes	no	yes	yes	no	no	no	no	no
Dry Chemical/Powder	yes	yes	yes	no	yes	no	no	no	no	no
Telesto EXTINGUISHmist	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

# EXTINGUISHING LIVE ELECTRICAL EQUIPMENT

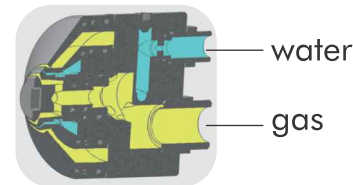
TELESTO system extinguishes live electrical equipment with no risk of electrocution to firefighters.

TELESTO Mist causes no thermal shock to equipment. This means there's no risk of damage to ceramic or other sensitive and costly elements.

TELESTO systems (as opposed to other mist systems) can be used to protect equipment such as turbines located in large, high ceiling-ed hangars and halls.

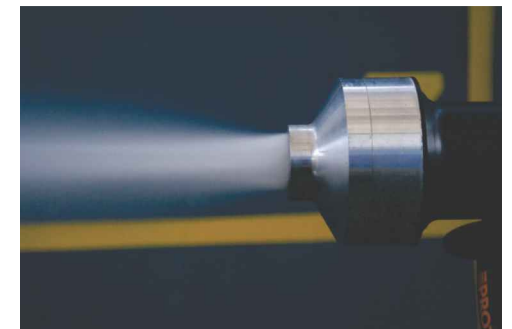


FEN Nozzle



water

gas



EXTINGUISH ANY TYPE OF FIRE WITH MINIMAL COLLATERAL DAMAGE

## ADVANTAGES OF FIREFIGHTING MIST

- **High firefighting effectiveness**

Only about 5% of water directed at the fire effectively applies to extinguishing the fire. The remaining 95% floods the surroundings, causing post-fire damages. Mist, thanks to a vast evaporation surface, depending on the dispersion degree, evaporates in the fire at 100%.

- **Extra safety for people - screening**

The mist, thanks to a big total surface of the cross-section of water drops creates a perfect barrier for thermal radiation, being thus an effective protection against fire.

- **Post-fire damage reduction**

About 80% of damages resulting from a fire are not caused directly by the flames, but by the extinguishing action: flooding with water, contamination with foam or active chemical extinguishing powder. Since the mist with an appropriate (high) degree of dispersion fully evaporates in the fire environment, it causes no damage.

- **Low water usage with mist of <100 microns**

The existing systems generate mist with drop sizes between 50 and 1,000 microns. With drop sizes below 100 microns, Telesto systems use exponentially less water than conventional water jets.

- **Safe for people and environment**

When mist is used, people and the environment do not come into contact with any chemically active substances except a mist made of water or inorganic salt solutions. This allows the use of Telesto systems on or near people without any negative medical effects.

## SECURE ENVIRONMENT FOR FIREFIGHTERS AND VICTIMS OF FIRE

Perfect screening characteristics of the mist are beneficial not only for firefighters, but also for other people involved in a fire. The mist with a high degree of dispersion allows protecting people against fire, smoke and thermal radiation.

### Telesto system protects against asphyxiation

The mist contains air, thus the people it protects can breathe freely, at the same time avoid the risk of asphyxiation. Smoke very often poses a much bigger threat to people than the fire itself especially in case of fires inside buildings.

### Telesto system protects against thermal radiation

The mist generated by the Telesto system is characterized by a high degree of dispersion and at the same time it provides a large screening surface. People protected by means of an effective mist barrier can survive even in close vicinity of a powerful fire.

### Telesto system can extinguish fire on people

Because the mist is an ideal neutral extinguishing means, it causes no irritation, or burns. The Telesto mist can not only effectively protect people but also extinguish fire on them! The mist current generated by the Telesto system is completely safe for people. Despite a high speed of the mist, there is no risk to people even in case of directing the jet to delicate, unprotected parts of the body.





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I-CAT Environmental Solutions is an authorized Telesto distributor and provides hazard analysis, quotations, installations, service and support on Telesto systems, to reliably and effectively protect your assets.

**The unique extinguishing effectiveness of the Telesto system has been proven and confirms the extinguishing effectiveness of mist generated by the Telesto system in case of:**

- solid substances (extinguishing a wooden stack)
- plastics (extinguishing polystyrene PS and polypropylene PP)
- light oil fractions (extinguishing heptane)
- medium oil fractions (extinguishing heating oil)
- heavy oil fractions (extinguishing mazute)
- polar liquids (extinguishing ethanol)
- edible oil (extinguishing rapeseed oil)

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