

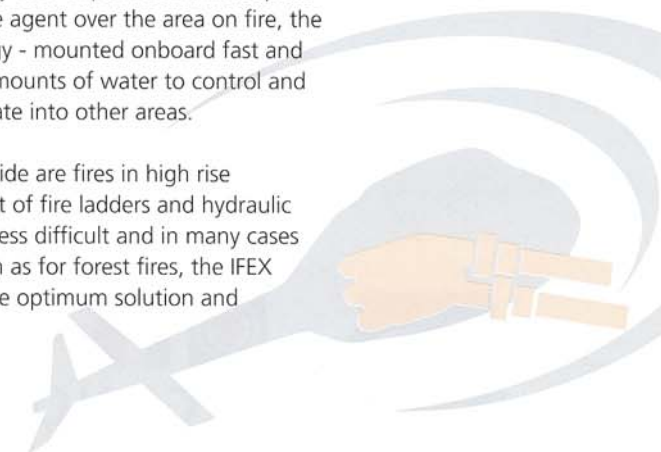


THE FIRECOPTER - IMPULSE TECHNOLOGY AIRBORNE



Forest, bush and wildland fires frequently occur in inaccessible areas where the transportation of equipment and water supply is a difficult operation. While conventional technology uses airplanes and helicopters equipped with water buckets to drop the agent over the area on fire, the IFEX impulse fire extinguishing technology - mounted onboard fast and versatile helicopters - needs only small amounts of water to control and suppress the fire or prohibit it to propagate into other areas.

A similar problem for firefighters worldwide are fires in high rise buildings within city areas. Limited height of fire ladders and hydraulic booms makes the fire extinguishing process difficult and in many cases impossible. Utilizing the same application as for forest fires, the IFEX helicopter extinguishing gear presents the optimum solution and application for these situations.



IFEX FIRECOPTER

THE FIRECOPTER SKID

The extinguishing tool onboard the FireCopter skid is the IFEX 18 liter Dual Intruder; the high performance dual cannon with the necessary shot range, momentum and flux density to allow immediate control of the fire from a distance. The water supply is carried by two water tanks with extra additive tanks; more than 300 liters allow for a long and efficient field duration. Refilling can be done easily while airborne.

A motor driven compressor with a buffer tank gives unlimited air pressure to release the impulse shots. The IFEX FireCopter application can be fixed at the helicopter's cargo slingshook and stabilized at the landing gear within a few minutes.

AIRBORNE INITIAL ATTACK

The IFEX FireCopter skid offers a significant contribution to conventional fire extinguishing technology and practice. It can be attached to different types of helicopters. With its high speed and independence from a supply infrastructure the FireCopter is the ultimate solution for an initial attack on any forest, wildland, industrial or residential fire.

The cannon tilt mechanism is easily operated by the pilot or copilot, with the impulse shot being triggered directly from the flight stick. A well trained pilot will easily be able to place his shots directly into the seat of the fire without any water spillage. For special operation requirements the helicopter will be equipped with an additional camera targeting system.



SYSTEM ADVANTAGES:

- Quick installation and removal – (in less than 5 minutes)
- Ready to shoot as soon as airborne
- 18 liter cannons with 60 meters range (optimum at 40 meters)
- Able to shoot any liquid agent (water, foam additive, retardant etc.)
- Fast cannon recharge time (2 to 3 seconds)
- Fast and easy water refilling while airborne

TECHNICAL INFORMATION

Impulse cannons, water and additive tanks and compressor with air tank: completely equipped for the airborne initial attack.



cannon cylinder	2 x 18 liters
water/agent capacity	2 x 155 liters
weight, empty	350 kg
length x width x height	2960 x 400 x 200 mm
material cylinders and frame	aluminum AL 52
operating pressure	25 bar
velocity (at muzzle)	120 m/sec
valve opening/closing time	20 milliseconds
max. shot length	60 meters
width of spray	4 to 7 meters
effective fire extinguishing distance	10 to 40 meters



IFEX
TECHNOLOGIES

INITIAL ATTACK POWER