



ESTHEL

Emergency and Shooting Trainer for HELicopters



Training Centre for Hoisting Operations (Search And Rescue, Civil Security, ...)

Main goals

- To be part of the training program of SAR crews (pilot + hoist operator + eventual door gunner)
- To be used either in **military** (all Forces) or **civilian** (offshore for example) areas.
- The system can be sold or rent via **training hours** at VSM Training Centre in Istres (France)

A 4-meter high Super Puma type cabin

On the left side :

A real hoist enables to practice hoisting, to deal with issues such as putting a stretcher in and out of the cabin, and also enables airlifted people to be part of the training process (rescuers, doctors, divers, dogs...).



On the right side :

A mixed hoist (simulated/virtual) is present. A virtual visual is projected on a 8m-diameter sphere part which is centered on the hoist operator's eye. The hoist operator has a very large vision field, especially down.

Virtual / Real

Taking advantage of simulation...

... but also meeting the prime needs of real environment

At a reasonable price, the system enables to be trained at non-reproducible situations, to change various settings (weather conditions, time of day, state of sea, failures, ...), and to take benefit of 3D databases with animated characters.



The cockpit environment includes harness, hooks, hoist handle and cable, mini stick, headlights. The system is realistic inside (volume, intercom) and outside the cockpit (footboard), and provides disturbing elements (wind wash, noise, vibrations).

Modularity

2 commutable heavy/ light cabins which are modular

- In terms of flying panels in the cockpit
- In the cabin (available volume, attachment points, ...)
- Regarding hoists and their accessories

Different procedures are taken into account thanks to the active and continuing participation of French military operationals and European advisors.

Basic scenarios

- Putting a bag on a fixed target / moving target
- Hoisting a castaway from the sea
- Hoisting a wounded person from a steep area

Possible sophisticated upon request scenarios

Complete SAR (Search And Rescue) missions with fire support (optional virtual shooting) and eventually on NVG

Capability of Crew Resource Management

