

ABOUT US



432
TECHNOLOGIES

432 TECHNOLOGIES is a technology company founded in 2022. Relying of rich experience in aviation and maritime operations, it focused on improving operational efficiency these complex domains.

432 TECHNOLOGIES designs sea proven & airborne proven multi-award-winning decision-support systems of aeromarine sector, as well as critical communication protocols (search & rescue etc.)

IN COLLABORATION

SIREHNA is an expert in the control of the dynamic behavior of, ships, rigs and facilities and a major actor in the fields of naval hydrodynamics, fluid mechanics, prediction of platforms movements as well as piloting control laws and related embedded systems.

SIREHNA has been active since 1986 in more than 30 countries and in a wide range of companies form oil and gas to maritime ship industry.



In 2024, the **MARGO Mk.Z** reached full operational capability and has been certified for use on French Navy vessels and all French government helicopters.
It is now the standard system for landing procedures for pilots and FDO/AIRBOSS personnel.



CONTACT US

432 TECHNOLOGIES

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MARGO Mk-Z is the VTOL part of MARGO system

MARGO Mk.Z has been awarded in 2021 with the prize for the French Navy by the Maréchal Leclerc Foundation and the French ministry of Armed forces under the name of ZEPHYR-HEOL



MASTER HELIDECK LANDING & TAKE OFF



VTOL OPERATIONS CONSTRAINTS

VTOL aircraft are subject to environmental constraints during landing and take-off. Beyond **certain conditions**, the maneuver may be:



Impossible to achieve
for a *standard skilled*
pilot



Incompatible with the
aircraft's capabilities

These critical maneuvers are even more complex on **mobile helidecks** (ships – rigs)
or **urban spots**



Lack of stable
references and
fluctuating and
unique aerology
around the deck



Platform **movements**
at sea



Imposed flight path in
urban areas

“ Optimising
operational limits
based on
safe employment
conditions ”



MARGO

HELIDECK OPS SAFER, EASIER

MARGO is a **DYNAMIC SHOL**
and a **COURSE PREDICTION** system ensuring
a **maximum efficiency** for your VTOL operations.



GAIN
LAUNCH & RECOVERY
CONDITIONS



INCREASE
AIR-SAFETY

A suite adapted to **SEA-BASED & LAND** air operations including incoming
urban air mobility, and developed by experienced Navy & Naval aviation crew.

TAILOR-MADE
For all kind of equipment

**SMART
DECISION**
Course predictor & aid tools

SECURE
landing & take-off

DATA
Collection & analysis

