

MARQUES™

A V I A T I O N



Next generation multi-mission multi-payload UAS

MA THOR Twin UAS

www.marquesaviation.com



MA THOR Twin UAS

MULTI-MISSION DIVERSE-PAYLOAD VEHICLE

The MA THOR Twin is a versatile vehicle used in missions as diverse as remote sensing and mapping, land and maritime border patrol, sea and land search and rescue, long endurance intelligence and reconnaissance, surveillance of oil and gas installations, inspection of natural disasters, ecological work, environmental monitoring, wildlife surveys, precision agriculture aerial mapping, weather monitoring, communications relay, law enforcement, fire fighting, and many other. The vehicle accommodates a large variety of payload.

ADVANCED AERODYNAMICS

The MA THOR UAV utilizes enhanced aerodynamics and flight stability for missions in the most demanding flight conditions.

CAPABILITIES

Long-endurance over-the-horizon capabilities.

Flight altitude of 6000 m.

Large payload capacity (100 kg).

Unique 5 m long internal payload bay allows quick modular payload installation.

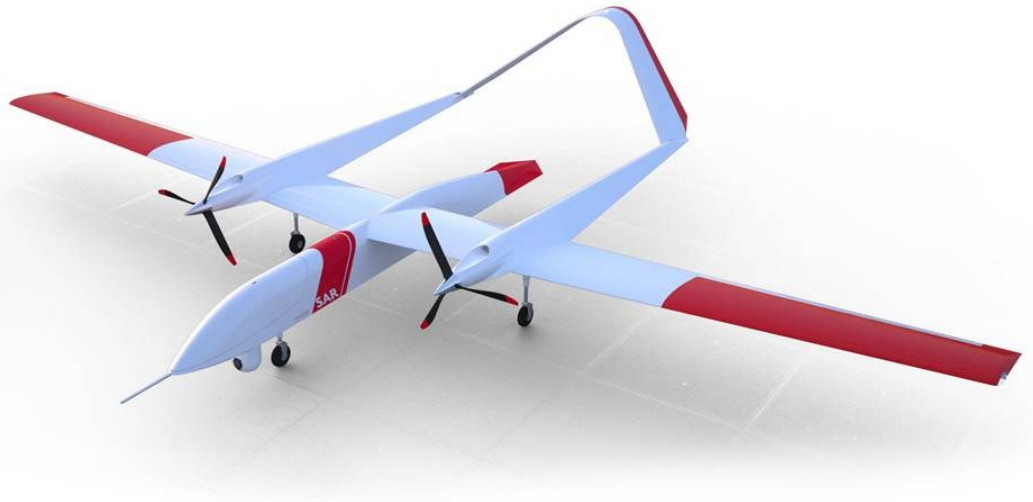
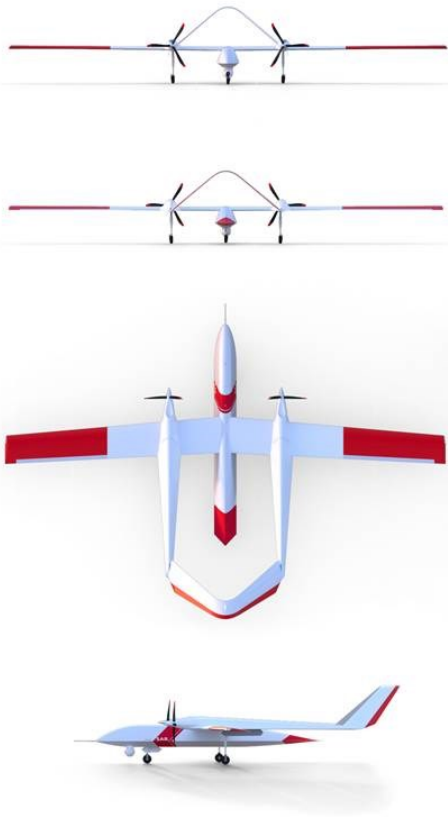
Additional payload installation at two hard points under the wings.

Innovative avionics and electronic systems.

Low noise engine.

Sense & avoid capabilities for safe integration into the relevant air space.

Control of two concurrent missions from the same Ground Control Station (GCS).



SPECIFICATIONS

Cruise speed: 140 km/h
Stall speed: 75 km/h
Max. climb rate: 300 m/min
Ceiling: 6000 m
Operation radius: 200 km,
 800 km using BLOS
Endurance: 10 hrs gasoline/oil
Flight range: 1200 km
Takeoff distance: 250 m asphalt
Dimensions: 7.40 m long, 1.90 m high,
 5.50 m fuselage, 11.00 m wingspan,
 10 AR, 10 m² wing surface.
Empty weight: 470 kg
Fuel weight: 170 kg
MTOW: 700 kg
Max. payload weight: 100 kg
Engine power: 180 HP one engine
Robust datalink; Comms link

CONFIGURATION

AIRFRAME

High-wing twin-tail-boom inverted-V-tail aircraft.
 Fuselage shaped for low radar detection.
 Airframe of reinforced graphite, Kevlar and epoxy resin.
 Airframe sealed for long life in hot and humid environments.
 Airframe can be fitted with a pod under each wing for carriage of external stores.

ENGINES

Italian-made 4-stroke twin-opposed cylinder engines.
 Drive three-blade fixed-pitch propellers.
 Extend the vehicle's flight endurance .

SOPHISTICATED PAYLOAD

Sophisticated pay-loads for land and maritime surveillance and search and rescue missions for day and night (e.g., FLIR systems, UK).

HYPERSPECTRAL IMAGING

Innovative hyperspectral imaging technology enables imaging of the region of interest at different wavelengths. The unique payload is able to track the spectral signature of the imaged materials, which is unique to every material in nature.

INVESTORS & SALES

MARQUES AVIATION LTD welcomes international investors for the MA THOR UAS program.

Contact our representatives to discuss your UAS requirements.



MARQUES AVIATION LTD.

Dr Pascual Marqués

President

p.marques@marquesaviation.com

Dr Emaid Abdul Retha

Director of Engineering R&I

e.abdulretha@marquesaviation.com

Mr Sönke Dierks

Director of Aircraft Design

s.dierks@marquesaviation.com

Dr Osato Osemwengie

Director of Engineering R&I

o.osemwengie@marquesaviation.com

MARQUES[™]
A V I A T I O N