

HELICOPTERS

FLEXROTOR

The VTOL UAS shaping the future
of autonomous military and
commercial operations



AIRBUS



FLEXROTOR

FLEXROTOR is a highly expeditionary Vertical Takeoff and Landing (VTOL) UAS designed for land- and sea-based operations.

Engineered for a wide range of demanding missions, FLEXROTOR combines advanced intelligence, surveillance, target acquisition and reconnaissance (ISTAR) capabilities with unmatched endurance, making it the go-to solution for both military and commercial applications. Whether you're looking to provide intelligence, secure borders, map fires, or find threats, this agile Group 2 UAS delivers.



Key Features:

Expeditionary:

airborne in less than 30 minutes;
includes fueling and GCS setup

Transportability:

compact, modular design allows for
easy transport and rapid deployment
on boats, pickups and special
operations aerial insertions

Autonomous:

fully autonomous during VTOL (no
human-assistance) and wing-borne
phases of flight

Endurance:

average of 12-14 hours endurance
assures superior ISR performance,
with no break in contact

Confined space:

VTOL capability allows for Zero
Launch and Recovery Equipment
(LRE) in confined spaces (4 m x 4 m)

Uptime:

capable to take -off and land in winds
up to 27 knots; invariant to wind and
magnetic north directions, therefore
higher uptime

Quiet:

inaudible at 500 m; at altitude, the
engine can be shut off for short
periods and restarted to enable silent
loitering above targets

Engine options:

availability of both c-10 racing fuel
and heavy fuel engine options

Proven operations:

mission-proven in extreme land and
maritime conditions, including high-
temperature, high-altitude launch and
six hours in a -40°C cold chamber

Upgradeable:

sizable space, weight, and power
afford best-in-class payloads today
and seamless integration of emerging
payloads tomorrow

Payload versatility:

8 kg /18 lb payload capacity supports
a wide range of interchangeable
payloads, including high-resolution
cameras, sensors, and communication
systems, customizable to mission
requirements

ITAR-free:

commercial product in
base configuration



Applications

FLEXROTOR's adaptability and performance make it ideal for a variety of mission-critical applications:



ISTAR Maritime

intelligence, surveillance, target acquisition, and reconnaissance

FLEXROTOR offers superior performance in over-water missions, delivering real-time intelligence for naval reconnaissance, maritime surveillance, and coastal monitoring. Its extended endurance ensures continuous coverage and enhances mission effectiveness across large water areas.



ELINT-SIGINT

electronic and signal intelligence

FLEXROTOR excels in electronic and signal intelligence, offering accurate, discreet data collection. It detects and tracks electronic emissions and communications, providing vital insights for intelligence, electronic warfare, and situational awareness.



ISTAR Land

intelligence, surveillance, target acquisition, and reconnaissance

FLEXROTOR's advanced ISTAR capabilities give a tactical edge for military and border operations, providing precise intelligence that enhances decision-making and boosts mission success.



Commercial

FLEXROTOR supports various commercial uses, such as firefighting, infrastructure monitoring, search and rescue, environmental assessments, and agricultural surveillance. Its advanced features ensure reliable intelligence, boosting safety, efficiency, and effectiveness.

Product Specifications

System

rotor diameter: 2.2 m / 7.2 ft

length: 2 m / 6.6 ft

wingspan: 3 m / 9.8 ft

case: 2.05 m x 0.6 m, x 0.38 m / 50 kg

loaded launch weight: 25 kg / 55 lb

max. gross take-off weight (MTOW): 25 kg / 55 lb.

Performance

payload capacity: 8 kg / 18 lb

cruise speed: 48 kts (87km/h)

dash speed: 77 kts (140km/h)

endurance: average 12-14 hrs

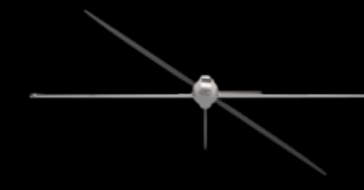
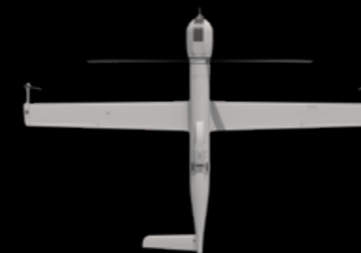
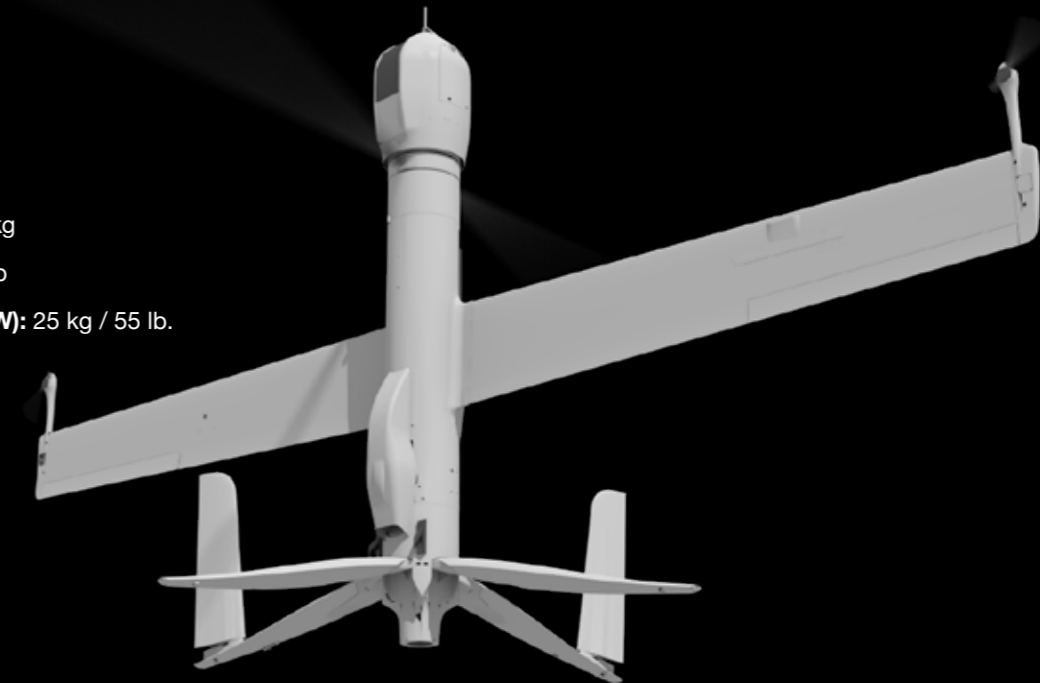
ceiling: 6.5 km / 21,000 ft

engine: 28 cc 2 stroke; gasoline & heavy fuel capable

stowage to flight: 30 min

landing zone: 3.7 m x 3.7 m (12 ft x 12 ft)

auditory: inaudible at 500 m; shut-off capability for silent loiter



Field Proven

With thousands of flight hours under its wings and multiple deployments around the world, FLEXROTOR has been field-proven in the most challenging environments. Its reliable performance and unmatched endurance have made it the preferred choice for mission success. Trust in a UAS that consistently delivers results, mission after mission: FLEXROTOR.

AIRBUS HELICOPTERS, INC. — FLEXROTOR

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