



# PELICANO

## Automatic Vertical Take-Off & Landing (AVTOL) Remotely Piloted Air System (RPAS)

Indra is one of the first companies offering an unmanned helicopter prepared to cover the operational necessities of the Armed Forces: the Operational AVTOL RPAS System of rotary wing called Pelicano.

Pelicano system architecture is made up of three or four unmanned helicopters and one control station, allowing capacity to operate 24 hours per day during long periods of time. Its design has been developed to comply with the requirements and necessities of the armed and security forces.

Pelicano's capacity of Automatic Vertical Take-Off & Landing (AVTOL) and small size make this RPAS a perfect solution to support any kind of naval operation.

It has been designed to support surveillance tasks, maritime traffic control, frontiers control, fight against activities of illegal immigration, drugs trafficking, arms traffic, piracy and for rescue operations, deploying from a naval platform or a ground base. Likewise, it will be prepared to be used, both in intelligence missions and emergencies management, like natural or environmental disasters, implying tracking, surveillance and reconnaissance of wide areas, avoiding any human lost.

The system is based in a medium size helicopter and incorporates the most advanced technological systems adapted to military and civilian operational necessities.

Indra also designs the ground segment controlling the RPAS and receiving in real time images, taking care of the data link. Pelicano System will be integrated in command and control systems C4I, so it will be an extension of the ground/naval surveillance systems, complementing the rest of the onboard radars and sensors.

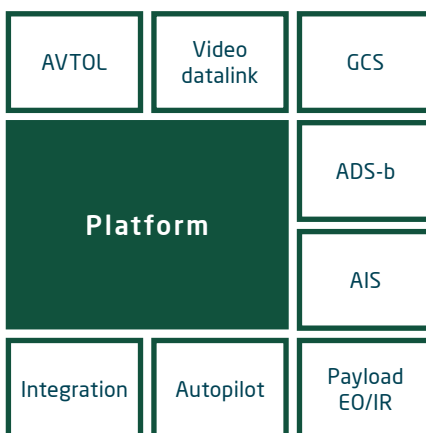
In respect to logistics, it can be transported easily in 20ft shelters and in transport aircrafts / helicopters.

### Autonomous Tactical AVTOL UAV with advanced capacities

- Heavy fuel engine (Jet A1, JP5 y JP8).
- Payload: Gyro-stabilized EO/Thermal (IR).
- ADS-b.
- AIS (Automatic Identification System).
- Automatic Take-Off and Landing (ATOL) System for vessels, suitable also to be use on ground operations.
- Simultaneous Operation with two H/Cs and one GCS.
- Operation 24h/24h 30 days with 3-4 H/Cs + GCS.

### Growth potential

- Light Radar Ka-SAR.
- CBRNe Sensors.
- Light Armament / Weapon.
- Electronic intelligence systems.



### Technical characteristics

<b>Wing</b>	
Main rotor diameter	3.94 m
<b>Fuselage</b>	
Fuselage length	3.58 m
Overall length (rotors turning)	4.64 m
Maximum width	1.00 m
<b>Height</b>	
Total height	1.27 m
<b>Weight</b>	
Maximum Take-Off Weight (MTOW)	220 kg
Maximum payload weight	50 kg
Maximum Fuel Capacity	65 liters
<b>Actuations</b>	
Maximum Velocity (VNE) MSLISA	90 KIAS (166 km/h)
Cruise Velocity	41 KIAS (76 km/h)
Maximum Range Velocity	63 KIAS (116 km/h)
Typical Endurance	4h – 6h
Maximum mission range / Data Link distance	>50 NM (80 km)
Maximum operation altitude	>3,600 m (MSL)
Maximum withstand wind to take-off and landing	10 m/s = 36 km/h
Take-off and landing characteristics	Automatic Vertical Take-Off & Landing (AVTOL)
<b>Environmental Conditions</b>	
Temperature limitations (operational)	From -30°C to +49°C
Rain and snow operation	Moderate
Storage conditions	From -10°C to +60°C

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Indra reserves the right to modify these specifications without prior notice.

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