



HAWKING

Company
BROCHURE

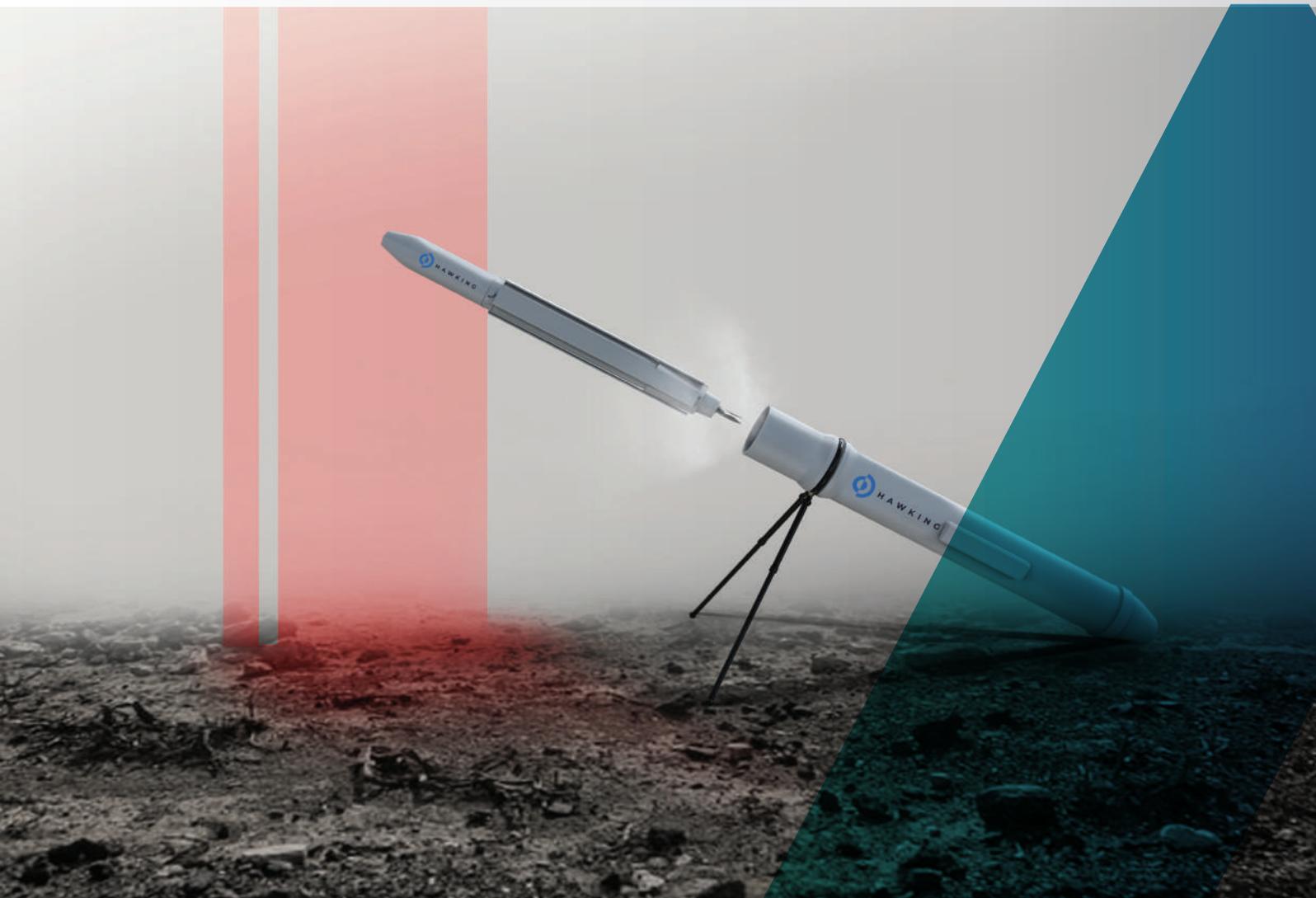
www.hawkingdefence.com

About Our BUSINESS



Hawking is a tech start-up specializing in all-terrain autonomous products, headquartered in Chennai, Tamil Nadu, with branches in New Delhi, India & Sydney, Australia. As the world progresses away from human-powered arms, at Hawking, we aim to be the first and the strongest layer of defence.

New-age technologies that we create and adapt to, decide our future for us. Indigenous technologies are a reflection of our evolution as a country. What it means is wide-range information access, all-terrain maneuverability, surveillance and service that does not tire, and most importantly, several lives saved at the frontline.



Our unmanned technological solutions are highly agile to customization. And, they are made in India. Powered by IoD (Internet of Drones) and high versatility, our drones can perform several operations including SWARM missions, heavy-lifting and ISR operation.



OUR TECH SOLUTIONS

AERIAL

Powered by IoD (Internet of Drones) and high versatility, our drones can perform several operations including SWARM missions, Kamikaze & ISR.

TERRESTRIAL

Our fully electric UGV, equipped with a modular chassis and convertible wheels, is rugged and ever ready for change of application (*Ready by 2023*).



MARINE

While most of our work is still in stealth mode, we are developing a swarm of unmanned underwater systems.



ANTI-DRONE - TECHNOLOGY



why HDS-ANTIDRONE?

Multi-layer Protection | Modular Systems | A complete anti-drone solution | 360 degree coverage | on the move capability | Unified chain of logistics | Field proven and fully operational

Over the last decade, military and federal agencies are faced with threats to national security as the number of drone incursions into restricted airspaces continues to escalate. This led DGCA to implement many restrictions on unmanned aircraft operators, creating "No-Drone" zones to deter drone operators from entering sensitive government facilities and ensuring national security. HDS has a range of Anti-Drone systems including wearable ones allowing ease of use and increased range of the product functionality (Kindly refer our Anti-Drone Brochure for more information)



Medium Altitude - LONG ENDURANCE UAV



FLAMINGO-HD

01

The FLAMINGO-HD is a fully autonomous remote piloted fixed-wing aircraft Manufactured in INDIA by HAWKING DEFENCE SERVICES PVT. LTD.

02

Can be easily customized to be used for a range of Military and Civilian Applications. Maximum Take-off weight extendable from 25kg's till 150kg's. Payload can be customised from 5 kg's till 30 kg's.

03

Designed and Developed by HAWKING DEFENCE SERVICES and Partners extremely low operating and Maintenance costs. Flying cost as low as US \$20 for a 10 hour flight.

04

Can FLY in acceptable weather condition with Maximum cross wind (Landing) upto 35-50Kph (Depending on MTOW) Operational Ceiling from 10,000 ft. (Can be customized)

APPLICATIONS:

ISR - INTELLIGENCE, SURVEILLANCE & RECONAISSANCE
MILITARY
BORDER PATROL
COASTAL SURVEILLANCE
EMERGENCY SERVICES AND DISASTER MANAGEMENT
ASSET MONITORING

BENEFITS:

EXCEPTIONAL PAYLOAD CAPACITY -
From 5.5 Kgs to 30 Kgs
FLEXIBLE -
Choose components to suit your needs.
AFFORDABLE -
Compared to other UAVs in this category. Low flying cost of INR 1000 per 15Hrs flight (Fuel Cost) & low maintenance cost.
LIGHT WEIGHT -
Usage of Ultra light and Strong Composite Materials
ENDURANCE -
Upto 18 hours flight time at maximum Take-off Weight, Simple to transport, Operate and Maintain.



The G-111 is an FAA certified Transport category amphibian aircraft with ability to transport up to 28 passengers and baggage, or over 5,000lb of cargo.

- ✓ **Low operating cost** produces high Revenue per seat per Kilometre.
- ✓ **Turboprop engines** for improved reliability and reduced maintenance cost
- ✓ **Equipped with** a galley, full-height cabin, separate luggage compartment and restroom with 28 seat capacity
- ✓ **Designed for the open ocean** - can handle high seas and wind conditions far exceeding the capabilities of float plane aircraft
- ✓ **Full landing gear**, so can use traditional runways
- ✓ The system also lowers the center of gravity, increasing stability in water



SWARM TECHNOLOGY - WARFARE



SWARM is an acronym which stands for Smart War fighting Array of Reconfigurable Modules. In the language of the Unmanned Aerial Systems (UAS), a swarm would refer to a body of a varying number of small autonomous vehicles which are gridded together to act as one whole (much like the locust swarm). Technology today allows such swarms to fly together based on their own pre-fed intelligence and without any dependence.

APPLICATIONS:

01

Missile Deterrence by forming a drone cover over key installations such as airports, nuclear reactors, power grids etc.

02

Attack enemy bunkers without exposing human soldiers. Kamikaze drones using kinetic movements can destroy enemy bunkers without loss of a single human life.

03

Battalions of such drone swarms can confuse and exhaust enemy defense systems thereby paving way for a more elaborate offence.

04

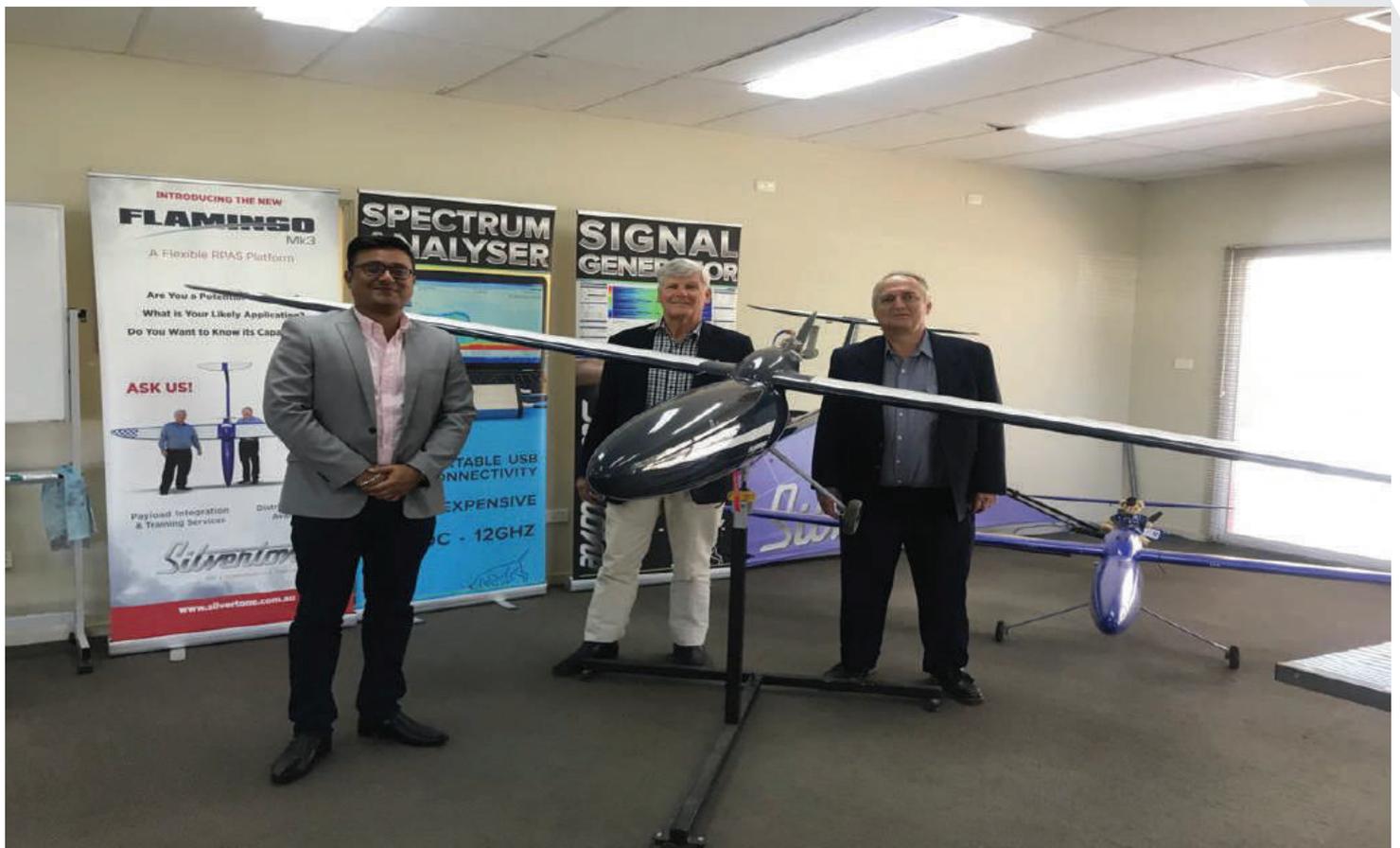
Search and Rescue.

05

Delivery support at high altitudes.



CUSTOMIZED SOLUTIONS - IN HOUSE



Meet With OUR TEAM MEMBERS

VIJAYANARAYANAN RAPALLI

Director



Bringing in corporate legal and management expertise, Vijay is one of Hawking's business leaders, directing the growth vision. Having set off on an unconventional path by pursuing law and then progressing in various fields. Vijay translates his passion for breakthrough technologies and philanthropy through his work and articulation.

Capt. AMBER SINGH UBAN

Director



Capt. Amber Singh Uban is a third generation Army Officer with both his father and grandfather having served as Generals in the Army. During his tenure with the Indian Army, Capt. Singh acquired qualities of Leadership along with Tactical and Strategic skills. Capt. Singh is currently focused on developing highly advanced technology to be integrated with various systems and products at Hawking Defence.

Dr. RAJEEV KOUNDINYA

CEO



After completion of his PhD in Biotechnology in Sydney, Australia, Rajeev operated as a successful independent cross country technology transfer consultant for several Australian companies interested in setting up their base in India. His business acumen is unparalleled. He is currently lending his expertise in knowledge transfer through his international contacts



Chennai - +91 9841 400 100 | +91 6383 189 933
Delhi - +91 9810 219 667
Sydney - +61 4300 234 54



info@hawkingdefence.com
enquiry@hawkingdefence.com



No:6 Ground floor, 2nd Cross Street, VOC
Colony, Kodambakkam, Chennai - 600 024