

2026



GAMMA ROTORS

INVESTMENT PITCH DECK



About the Company



GAMMA ROTORS

Pioneering Innovation

Gamma Rotors Ltd., based in Delhi, India, is a renowned OEM specialising in precision-engineered, high-quality drones for surveillance and military applications.

Company Name

Gamma Rotors Ltd.

Established in

2018

Annual Sales (FY2026E)

~₹30 Crores

PAT (FY2026E)

~₹3 Crores

Esteemed Clientele:

- Central Armed Police Forces
- Indian Armed Forces
- State Police Forces

Our Assurance





Technological Expertise

Focusing on Advanced Remote Controlled Weapon Systems (ARCWS) and Unmanned Aerial Vehicles (UAVs).



DPIIT & GEM Certified

As a DPIIT licensed and GEM certified OEM, the company delivers compliant and innovative solutions, ensuring top-tier quality.



Resilience & Sophistication

Engineering high-performance drones capable of thriving in complex, challenging environments.



Client-Centric Approach

Delivering customised, precise solutions tailored to client requirements.

The Company has a Strong Track Record, Validating its Technology Through Successful Operations



8+ Years of
experience



10000+
Hours in air



650+
Drones sold



2K+ Drones
serviced



3000+
Soldiers trained



500+ Part of
live operations



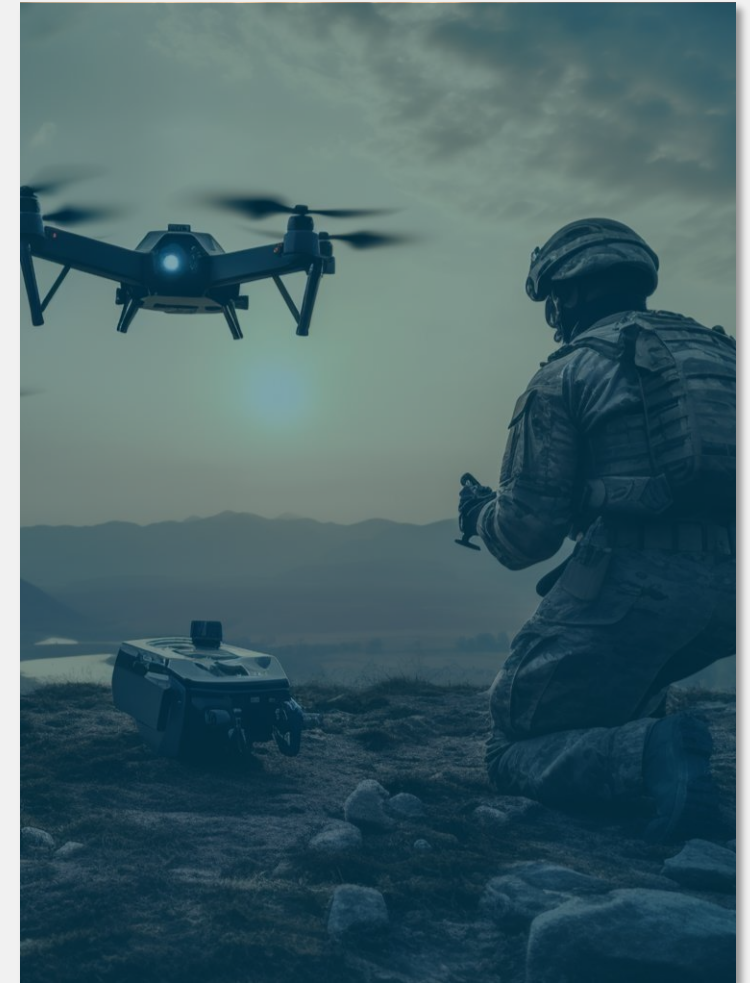
1000+
Happy users



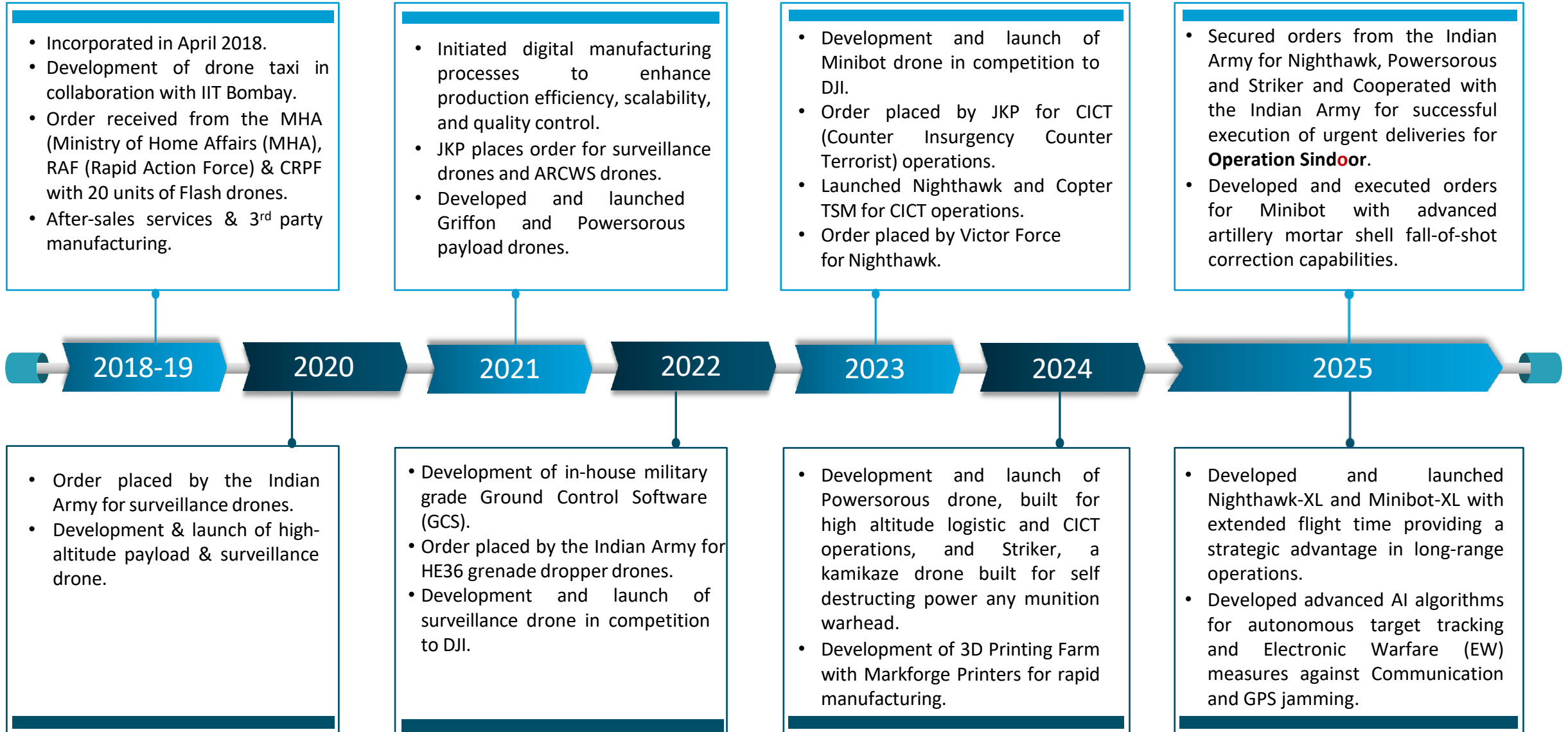
₹60 Crore
Order book
size



₹30 Cr
Crore
FY26(E)
Revenue



A Clear Growth Roadmap, Backed by Proven Operational Excellence and Technological Validation





Product Portfolio

Gamma Rotors Designs Advanced Drones for Military Surveillance, Logistics, and Aerial Combat Operations



Nighthawk

A high-endurance, all-weather surveillance drone with dual day/night cameras and integrated grenade dropper, designed for long-range, precision intelligence and tactical missions.

Griffon

A flexible drone, offering versatile support for grenade deployment, surveillance, ammunition resupply, and first aid, with a fully modular design for easy transport.

Minibot

A compact, stealthy mini-drone weighing just 2kg, equipped with day and night cameras for round-the-clock surveillance in critical missions.

Powersorous

A heavy payload drone engineered for military operations, capable of carrying arms, ammunition, and medical supplies, enhancing mission success while minimising human risk.

Powerhawk

A robust drone with advanced technology and defined navigation, designed for carrying heavy payloads over long distances in both autonomous and remote-control modes.

Copter MMGH

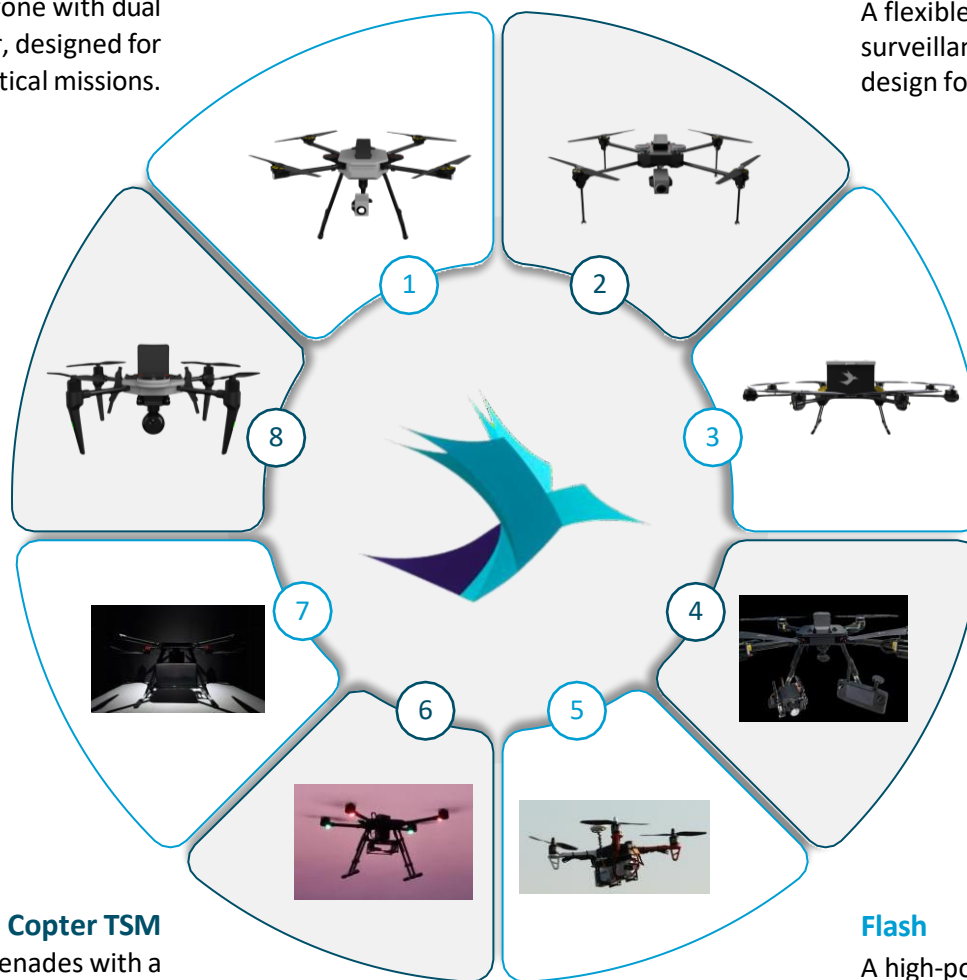
A versatile military drone with a one-click grenade deployment system, ensuring swift and efficient field support during critical operations.

Copter TSM

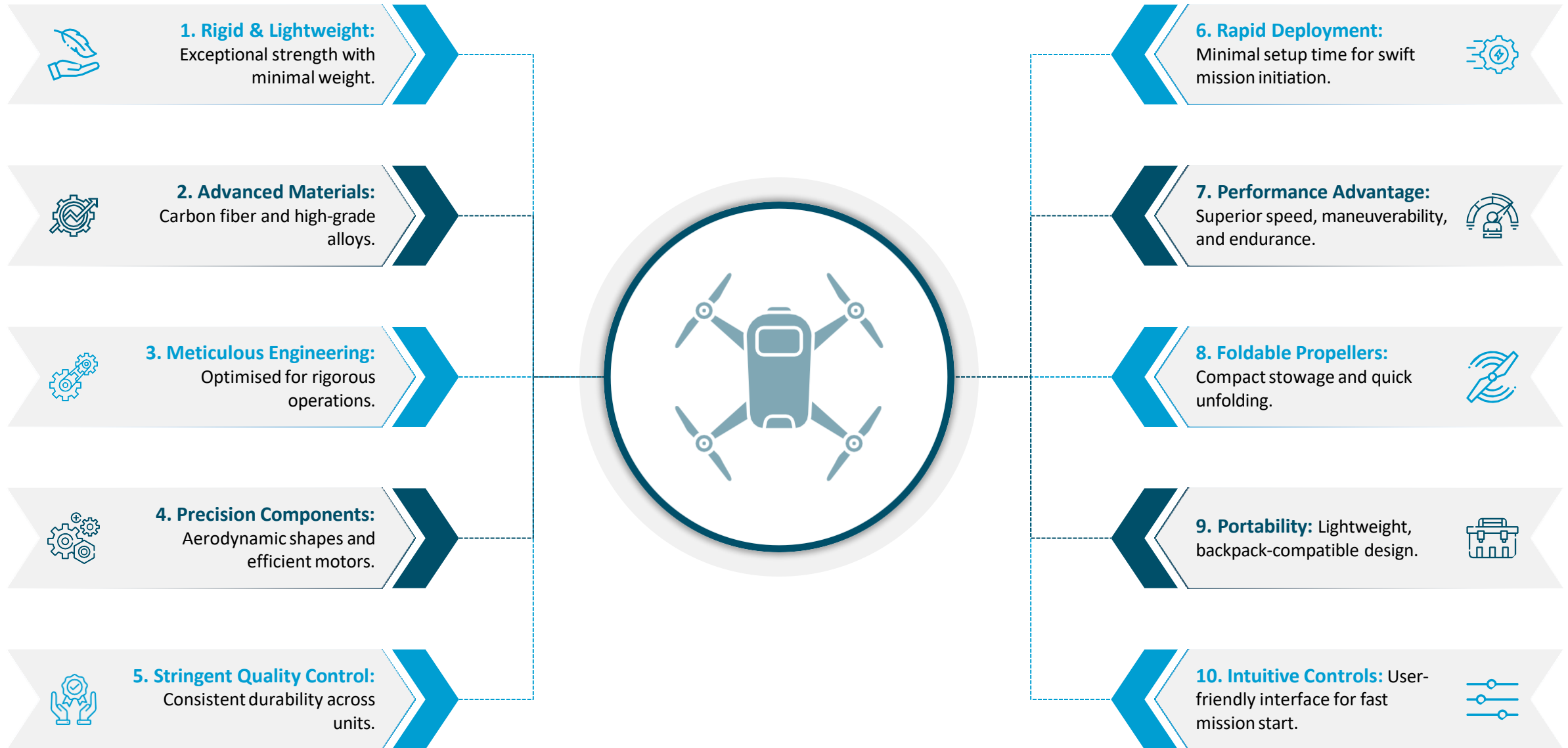
A tactical drone for deploying smoke and tear gas grenades with a user-friendly one-click mechanism, improving operational effectiveness in high-pressure scenarios.

Flash

A high-power drone designed to carry TNT slabs, enabling precise demolition of buildings and structures with minimal collateral damage.



The Products Display Exceptional Performance and Versatility for Rapid Deployment and Efficient Operations



The Gamma Rotors Advantage



The Company Redefines Industry Excellence by Setting new Standards in Meticulous Design and Manufacturing



Strategic Ideation Process

Comprehensive ideation incorporates critical factors such as center of gravity (COG), aerodynamics, and payload capacity, ensuring optimised performance from the outset.

01



Advanced CAD and Rapid Prototyping

The use of cutting-edge CAD (Computer-aided Design) software and state-of-the-art 3D printing enables rapid prototyping, accelerating concept validation.

02



Iterative Design Refinement

A focused, iterative approach in the design phase allows for continuous refinement, leading to enhanced functionality and efficiency.

03



Hybrid Production Techniques

Combining precision 3D printing and CNC (Computer Numerical Control) machining for component production results in high-quality, custom-fitted parts.

04



Rigorous Quality Control

Comprehensive quality checks at each manufacturing stage ensure consistency, precision, and adherence to top industry standards.

05



Seamless Integration of Processes

The cohesive blend of innovative ideation, focused design considerations, iterative prototyping, and meticulous manufacturing drives unparalleled product reliability and performance.

06

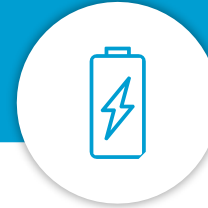
Gamma Rotors Upholds Exceptional Quality and Performance Standards Through In-house Manufacturing



The company manufactures **key drone components in-house** to ensure superior quality and performance.



Advanced cameras and specially designed gimbals deliver clear and stable aerial footage, crucial for defence applications.



Gamma Rotors sources and supplies **batteries and charging stations** that offer extended flight times and quick-charging efficiency.



The **GCS**, paired with a user-friendly handheld **controller**, simplifies field operations.

Additionally, the company supplies sturdy, portable **transport cases** to protect equipment and facilitate easy transportation for any mission.

Commitment to internal production allows Gamma Rotors to maintain strict quality standards.



Revolutionary Digital Inventory

Virtual catalog replaces physical stock, enabling efficient component management.



On-Demand 3D Printing

Rapid component production directly from digital designs.



Lifelong Product Support

Digital manufacturing ensures longer serviceability and easy maintenance.



Cross-Brand Compatibility

Seamlessly supports components for multiple brands, enabling rapid market penetration.



Just-in-Time Production

Eliminates the need for storing inventory, reducing waste and delays.



Zero Inventory Costs

Zero dead stock and storage expenses, maximising operational efficiency.

Ground Control Software and LiveOps Platform Empower Smooth Navigation and Real-Time Intelligence



With customisable waypoints, automated flight paths, and real-time telemetry, Gamma Rotors' Ground Control Software (GCS) ensures seamless navigation in complex environments. Continuously evolving through user feedback and technological advancements, GCS keeps customers at the forefront of drone control. Whether for aerial surveys or search and rescue missions, Gamma Rotors' GCS empowers users to achieve their goals with rigour.



LiveOps is an advanced live streaming platform that effortlessly integrates with the GCS, providing military personnel instant access to live drone feeds. This cutting-edge solution enhances situational awareness and decision-making by allowing commanders and operators to securely view real-time footage from anywhere with an internet connection. LiveOps ensures synchronised streaming, providing military teams with immediate visual intelligence for mission success. This platform is also sold to 3rd parties, generating an additional revenue stream, thereby enhancing the company's overall financial growth.

Navigation Display

Pilots are offered a streamlined and efficient view of the aircraft's live status, including heading, trajectory, pinpoint information, and home point projection.

Flight Information

The flight data, encompassing aircraft attitude, altitude, and velocity, is displayed in a concise way for easy pilot access.

The View Pinpoint Feature Ensures Precision and Accuracy in Every Operation



Mark Targets on Map - Users can easily mark target locations on a map interface, streamlining mission planning and execution.



Automatic Camera Focus - The drone's camera automatically adjusts to focus on marked locations, ensuring clear visuals for inspection or surveillance.



Structured Process - Eliminates the need for manual adjustments, enhancing efficiency in missions such as surveillance, search and rescue, and inspections.



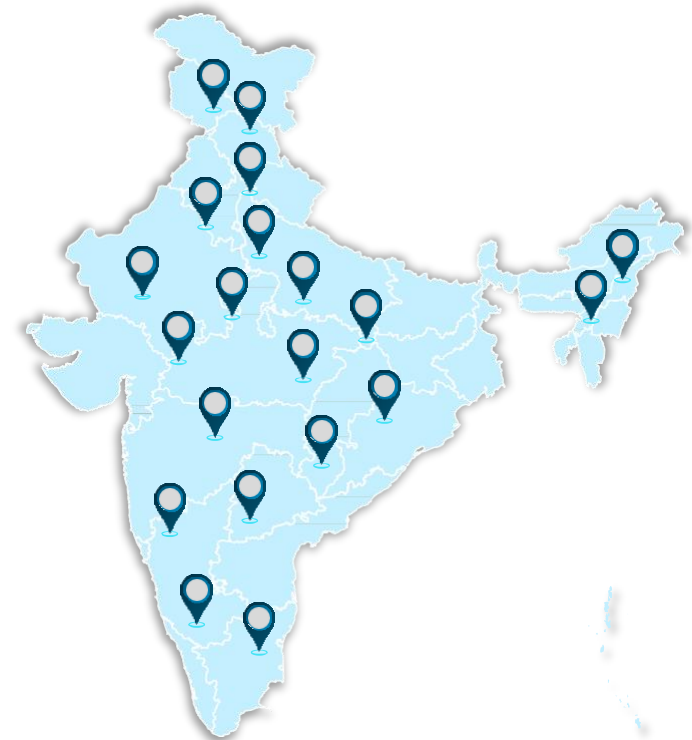
Smooth Integration - Integrates real-time camera control with map data, allowing for informed, effective decision-making during missions.



Operational Efficiency - Enables users to experience a new level of operational effectiveness, making drone operations smarter.



Unparalleled Accuracy - Enables detailed visual inspection and data gathering with exceptional precision, improving mission outcomes.



The Company Provides Comprehensive Drone Training for Versatile Applications



The company's training facility provides comprehensive programs for both own and 3rd party drones, covering everything from basic flight operations to advanced mission planning.



Classroom instruction: Detailed lessons on mechanics, navigation, safety, and regulations.



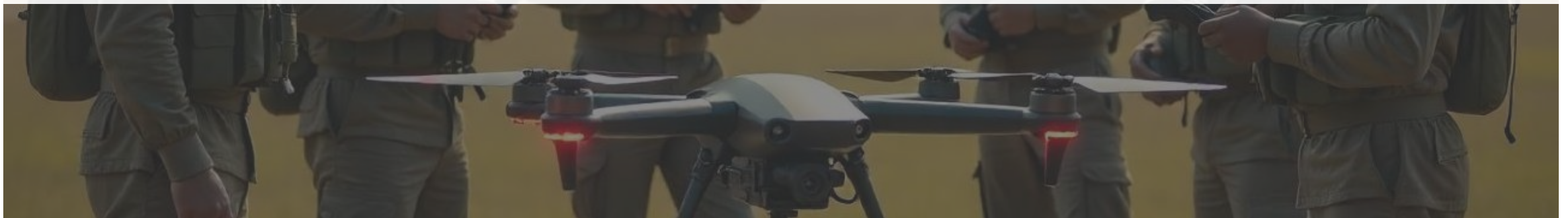
Customised modules for various industries: Tailored for industries including operations, mapping, and weapon training for RCWS.



Practical outdoor flight areas: Practice in diverse environments for various operational conditions.



Specialised training is offered for military and law enforcement in tactical operations, surveillance, and reconnaissance.



Licenses and Certifications Provide Exceptional Visibility and Enhance the Company's Operational Credibility



DPIIT License

- **Regulatory Compliance:** Ensures adherence to government standards, fostering trust among stakeholders.
- **Investment Attraction:** Signals regulatory credibility to investors, boosting market confidence.
- **Innovation Support:** Provides access to government incentives, driving R&D advancements.



ISO 9001:2015 Certification

- **Quality Assurance:** Demonstrates commitment to high standards, ensuring customer satisfaction.
- **Market Differentiation:** Enhances reputation, distinguishing the company from competitors.
- **Operational Efficiency:** Streamlines processes, improving cost-effectiveness and efficiency.



QCI OEM Recognition

- **Credibility and Trust:** Validates the company's commitment to top-tier quality, reassuring customers and partners.
- **Access to Government Contracts:** Opens doors to defence sector contracts, boosting competitiveness.
- **Networking Opportunities:** Facilitates collaboration with recognised entities, enabling strategic partnerships.

Embracing recognised accreditations fortify the company's operational integrity and market positioning.

Esteemed Clientele Affirm the Superior Performance and Unwavering Reliability of its Drones



Central Armed Police Forces

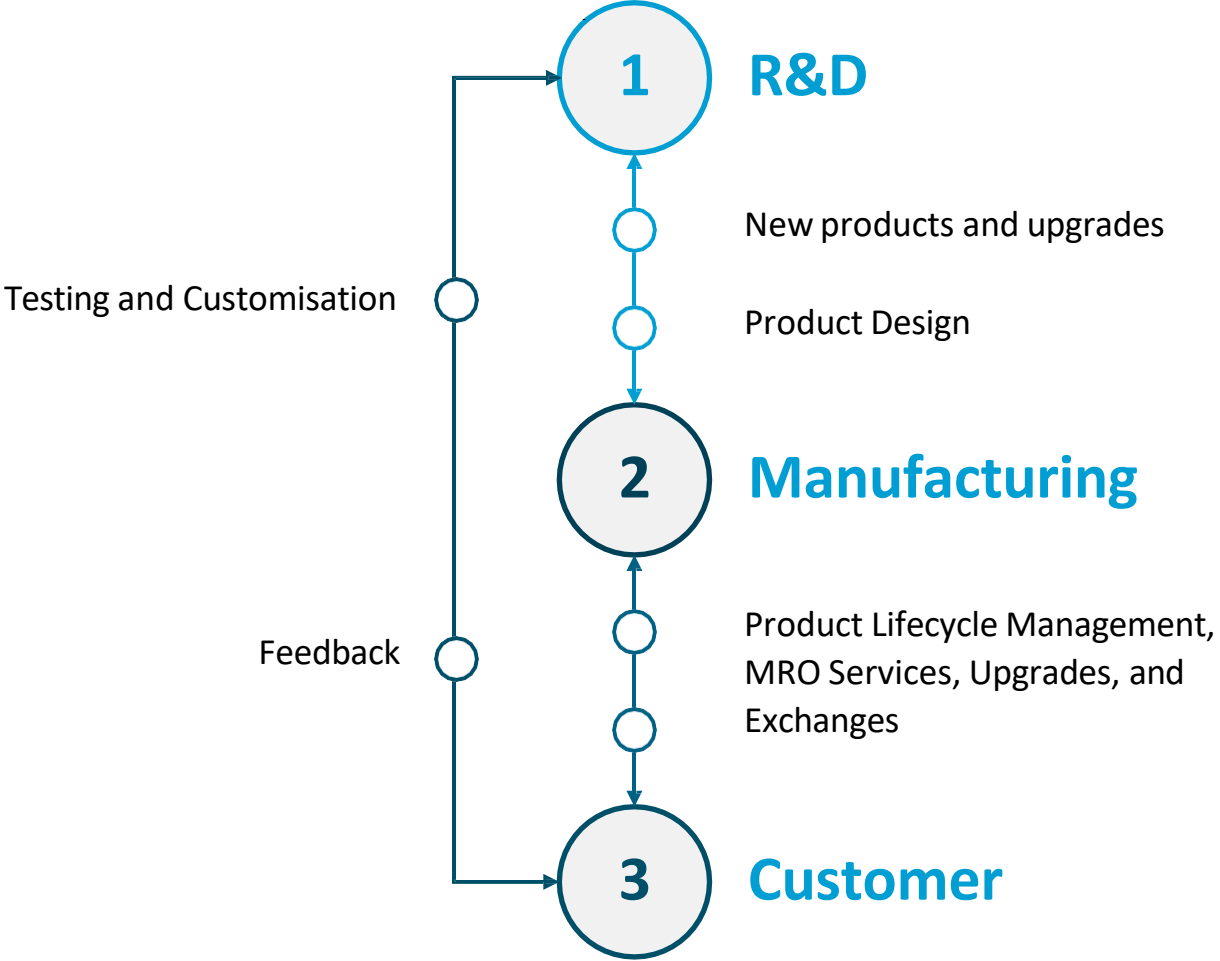
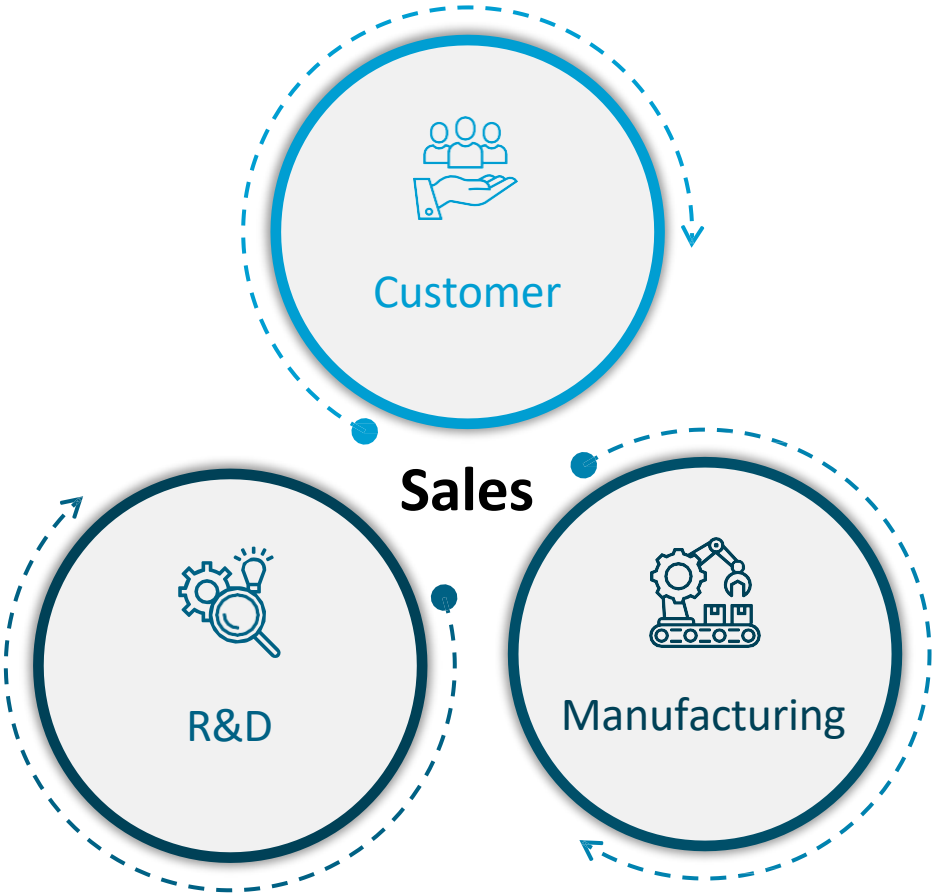


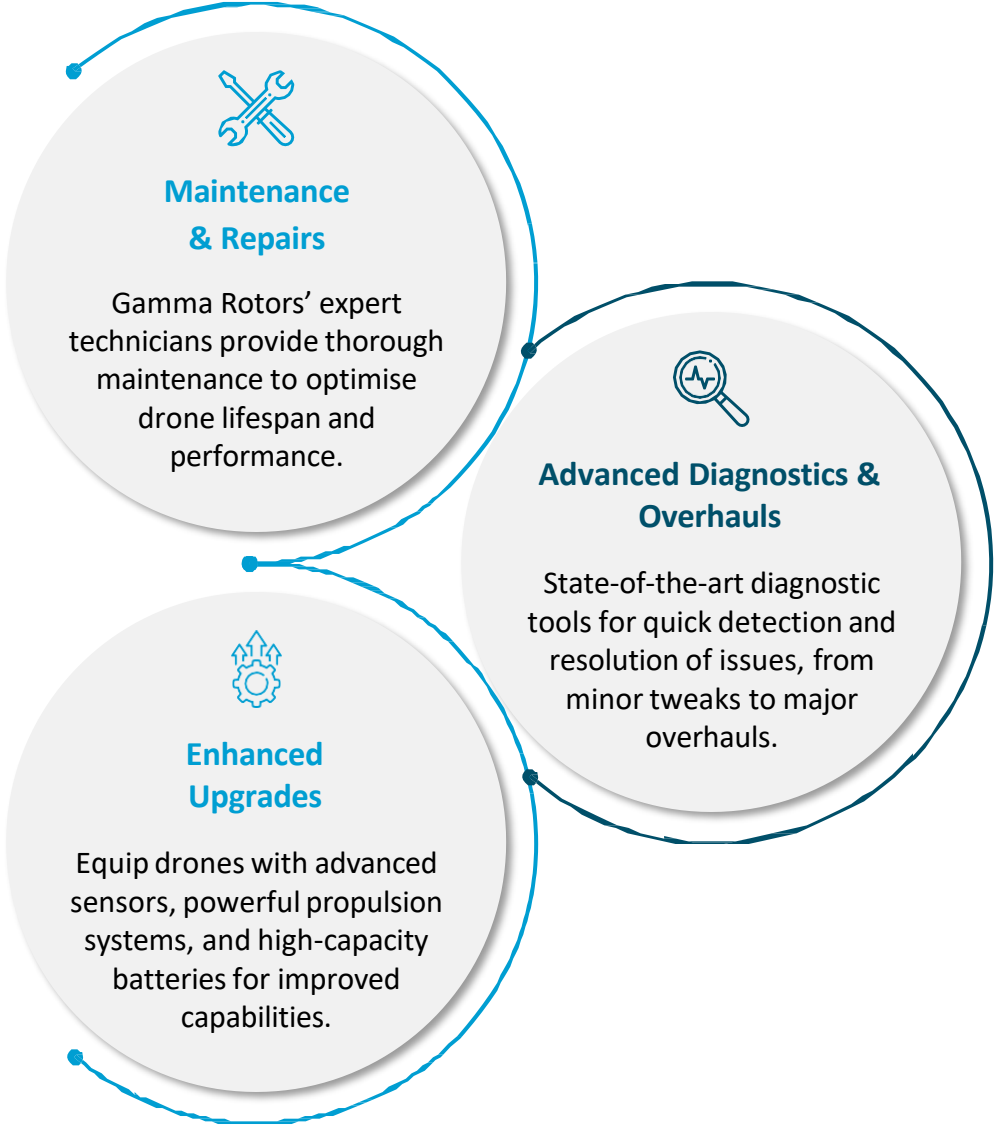
State Police Force



Indian Armed Forces







Serviced Models & Partners				
				
Ideaforge	Asteria	Proxdynamics	Aerodyne Group	DJI
Netra, Ninja	A20, A200-XT	Black Hornet		Mavic, Phantom, Inspire, Enterprise, Matrice



Customisation for Extreme Environments

- Tailored solutions for diverse terrains: high-altitude, dense forests, and arid deserts.
- Mission-specific adaptability ensures performance in challenging environments.
- Optimised for the unique needs of the Indian Defence Forces.



Low-Cost, High-Value Proposition

- Focused on providing strong ROI through:
 - Reduced operational costs
 - Enhanced mission success rates
 - Improved resource allocation
- **Price vs. Value:** Affordable yet superior performance, providing a competitive edge over global alternatives.

Customisation and cost efficiency make Gamma Rotors the go-to choice for the Indian Defence Forces.

Gamma Rotors Demonstrates Unmatched Excellence in Every Aspect of Drone Design and Operation



1

Certified for Excellence

As a DPIIT licensed and GEM certified OEM, Gamma Rotors upholds the highest standards of quality and regulatory compliance.

2

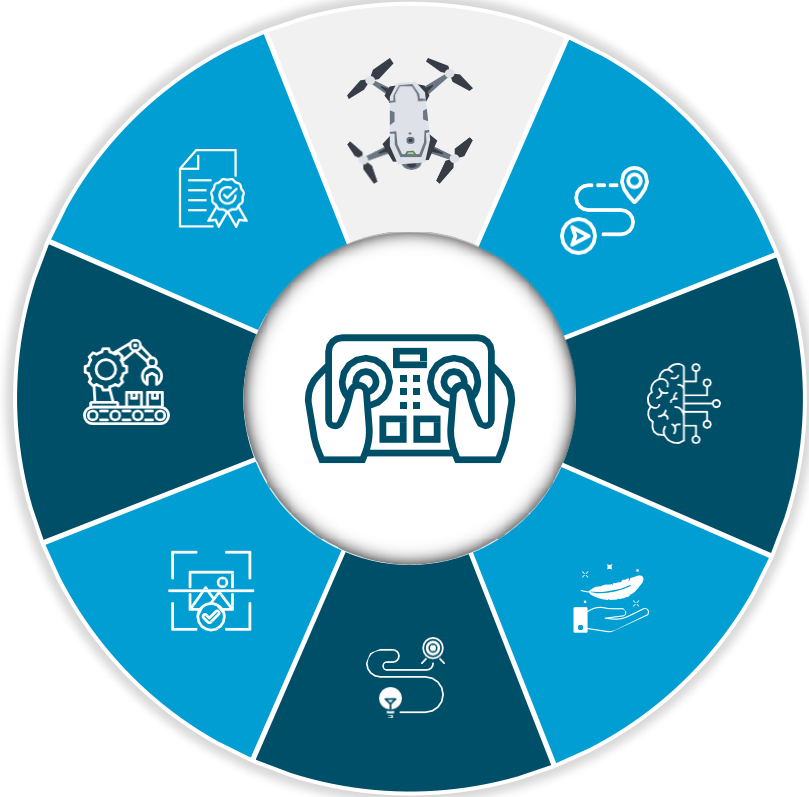
Advanced Manufacturing Excellence

Employing 3D printing and precision machining, the company ensures rapid prototyping and customisation, while prioritising eco-friendly practices.

3

Superior Imaging Capabilities

The drones integrate state-of-the-art cameras and sensors for high-quality aerial photography and videography.



4

Long-Range Connectivity

Equipped with advanced communication technologies, the drones ensure reliable connectivity over extended distances.

7

Accurate Navigation & Control

Advanced algorithms provide precise navigation and stability, ensuring safe flight operations even in challenging environments and complex weather conditions.

6

Autonomous Flight & Smart AI

With integrated AI, the drones perform autonomous flight, obstacle avoidance, and smart decision-making, minimising human intervention.

5

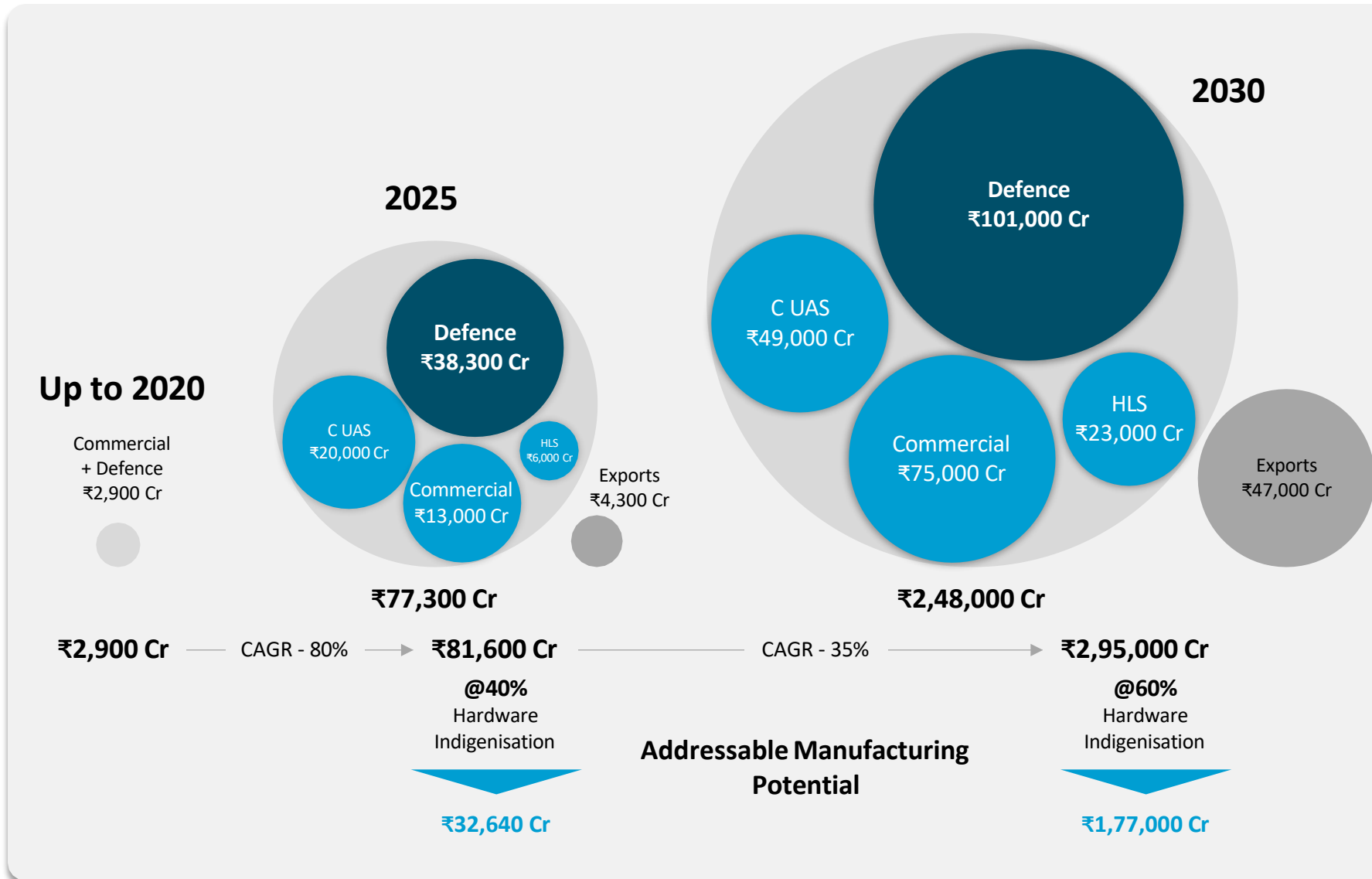
Lightweight & Durable Design

Utilising carbon fiber and titanium materials, Gamma Rotors' drones offer superior agility, high payload capacity, and innovative folding mechanisms.



Industry

The Indian Drone Industry is Expected to Witness a Remarkable Growth Trajectory



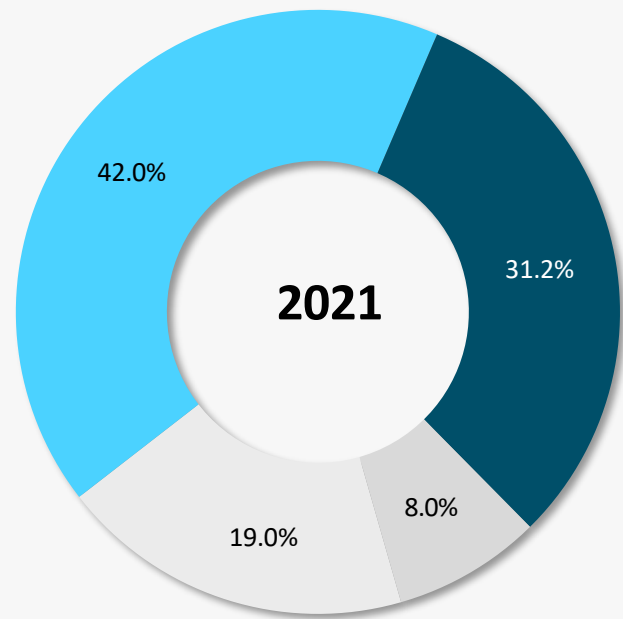
With a strong **CAGR of 35% from 2025 to 2030**, the growing Indian drone market offers significant opportunities for Gamma Rotors. According to a KPMG report, the drone MRO services, and drone training and education services segments are expected to grow at CAGRs of 46.8% and 45.2%, respectively, until 2030.

As hardware indigenisation increases and defence remains the largest segment, Gamma Rotors is well-positioned to capitalise on these trends, especially with its own training facility and MRO services, further enhancing its competitive advantage.

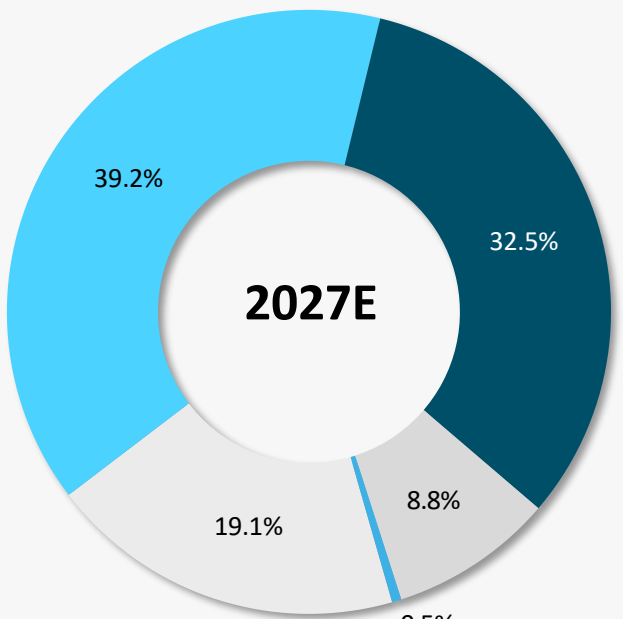
Based on Payload Capacity, the “Under 25kg Payload” Segments Account for Majority of the Market Share



Indian Drone Market, By Payload Capacity



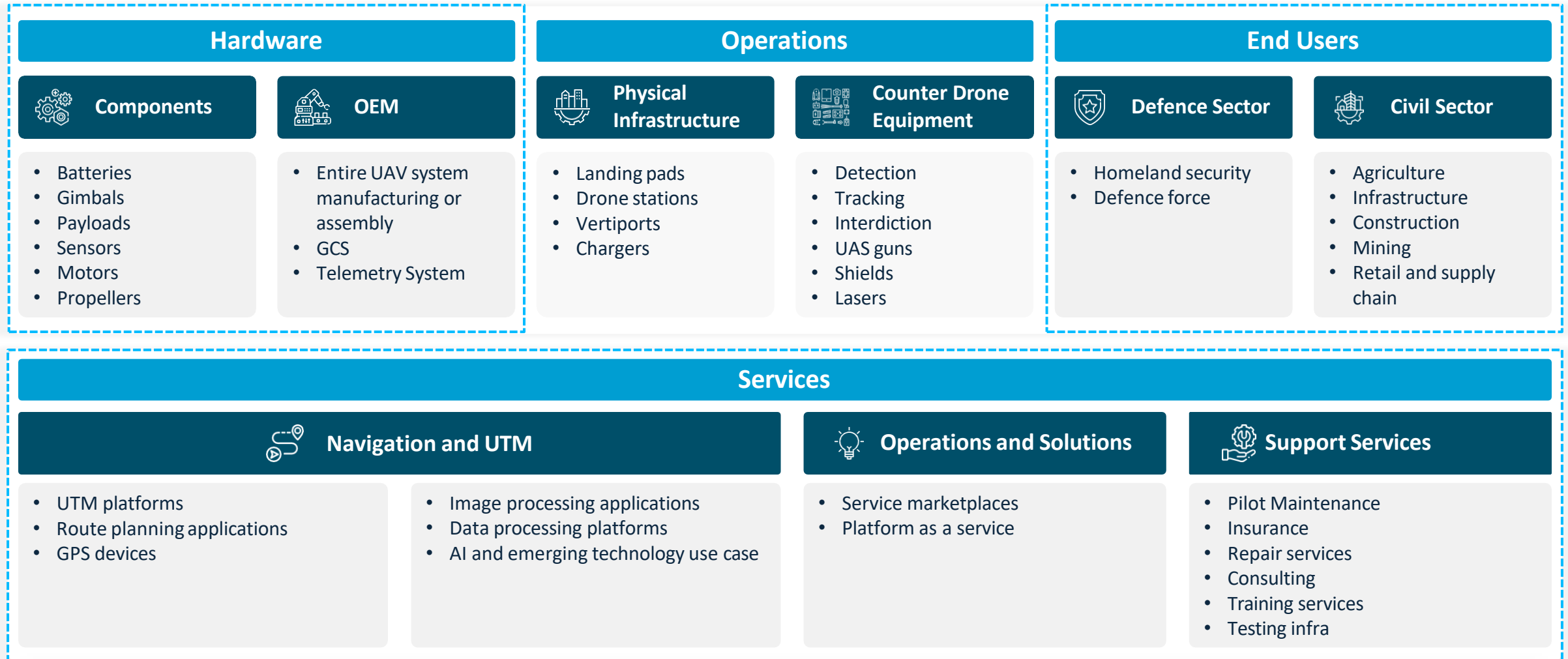
<250gm 250gm - 2kg 2kg - 25kg
25kg - 250kg >250kg



<250gm 250gm - 2kg 2kg - 25kg
25kg - 250kg >250kg

The payload segments **under 25kg** are projected to experience the most rapid growth during the forecast period, capturing **over 90% of the market share**. Notably, a significant portion of the company’s product portfolio aligns with this segment, positioning it strategically to capture the burgeoning opportunities within the promising Indian drone market.

The Drone Value Chain Encompasses a Broad Range of Services, Catering to an Extensive Spectrum of End-users



Notably, the company's strategic presence across the majority of the value chain places it in a sweet spot, allowing it to leverage diverse opportunities and solidify a robust position within the industry.

The Indian Drone Industry is set to Witness Exponential Expansion Backed by Favourable Government Policies and High Sectoral Demand



- Import of drones banned except for R&D, defence, and security.
- Requirement for a drone pilot license eliminated.
- No permission required for operating drones in green zones.
- No license needed to fly non-commercial drones weighing up to 2 kg.
- Remote pilot certificate issued by DGCA-approved drone school is sufficient.

The Drone Rules (amendment), 2022



- Growing demand from sectors including:
 - Defence and security
 - Commercial
 - Government and law enforcement
- Domestic manufacturing push: Initiatives such as “Make in India” and “Atma Nirbhar Bharat”.

Rising Sectoral Demand



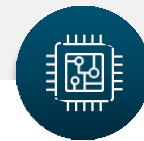
- A total incentive of ₹1.2B, spanned over three fiscal years.
- A constant PLI rate of 20% for three years.

Production-Linked Incentive Scheme (Sept 2021)



- Startups are encouraged to provide drone-as-a service.
- Manufacture more economical drones.
- Increase domestic manufacturing and create jobs.

Drone Shakti, 2022



- Advancements in AI, batteries, and lifting power.
- Some of the emerging trends in drone technology include autonomous capabilities, longer battery life, enhanced sensors and cameras, 5G connectivity, and image intelligence features.

Technological Advancements

The government has also created a single platform “Digital Sky” to self-generate permissions, register and transfer drones, and download standard operating procedures and training manuals.

Though Gamma Rotors currently focuses on defence drones, the company has plans to tap into the commercial drone market. The import restrictions on commercial drones create a favorable environment for Gamma Rotors, enabling the company to leverage its defence expertise and enter the commercial drone market.

The Asymmetric Operational Capabilities of Drones Amplify Their Strategic Value, Rendering Them Pivotal in Both Warfare and Insurgencies



The Indian Air Force deploys UAVs in the Northeast for surveillance and counterinsurgency.

In 2019, India issued guidelines on drones' subversive use for surveillance, airspace interference, smuggling, and attacks.

By June 2024, China registered 1.875M drones; the country has allocated \$70B for a "low altitude economy."

Turkey deployed drones for strikes against the Syrian Arab Army in Northern Syria.

The Indian Army increasingly uses drones in Ladakh for enhanced operations.

The Israeli Army uses quadcopter drones for surveillance, displacement orders, intimidation, bomb drops, sniping, and infiltration.

Russia launched its largest drone attack on Ukraine (Nov 25, 2023), damaging critical infrastructure and buildings.

Globally, militaries are prioritising UAS acquisitions, with significant defence budgets earmarked for drone missions.

UTTAR PRADESH

Drone industry gets 'Make in India' push

VIRENDRA SINGH RANA
Lucknow, 8 September

The nascent domestic drone industry in Uttar Pradesh has received a Make in India shot in the arm with the state planning to deploy drones for agricultural purposes.

The drones will be used for spraying pesticides, fertilisers, and farm nutrients in the cultivated land.

Considering that Uttar Pradesh is among the top agricultural and horticultural producers with a cultivated area of almost 17 million hectares, there is a huge potential for local drone units, service providers and allied industry. According to reports, India's drone sector is projected to clock a turnover of ₹12,000-15,000 crore by 2026. The government has



announced plans to establish a Centre of Excellence dedicated to drones at the Indian Institute of Technology (IIT), Kanpur, to foster research and facilitate setting up of drone units in the state.

According to UP Agriculture Minister Surya Pratap Shahi, the state was committed to integrating modern technology with the farm sector to ensure farm prosperity and higher rural income.

"The application of drones will not only help in crop yield but also help in better farm yield owing to the use of pesticides and fertilisers and soil nutrients," said, adding the Centre will provide 32 drones for natural research. Besides, the government will encourage the farmers to use drones through field demonstrations. The government announced a subsidy for drones. The Centre has recently been liberalising the policy framework to boost the indigenous drone industry. Drones or unmanned aerial vehicles are verifiably positioned as a major technology disruption even as Prime Minister Narendra Modi has set the target of making India a drone hub by 2030.

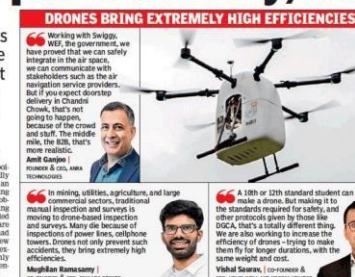


Drones will save human lives, but pizza delivery, not now

India's new drone policy has generated huge excitement. But 'blood before burritos,' say experts

India liberalised the drone policy and rules so drastically recently that there has been an explosion in interest in using drones to solve a variety of problems. New ventures are emerging in the space. Older ones in allied areas like electronic devices are getting into it. And those who had started working on drones a few years ago - when India had an extremely strict policy - suddenly find themselves dealing with a potential goldmine.

Public imagination has been captured by the idea of planes and a-commerce packages being delivered to people's homes by drones. But that will likely take years, if at all, said Amit Gangop, founder of CEO of Washington-based drone company ANOVA Technologies, at the 'Future of Drones' event in New York. Drone delivery will make a lot of sense in the long run, but it will first have to be used for more immediate needs like disaster relief, surveillance, and security.



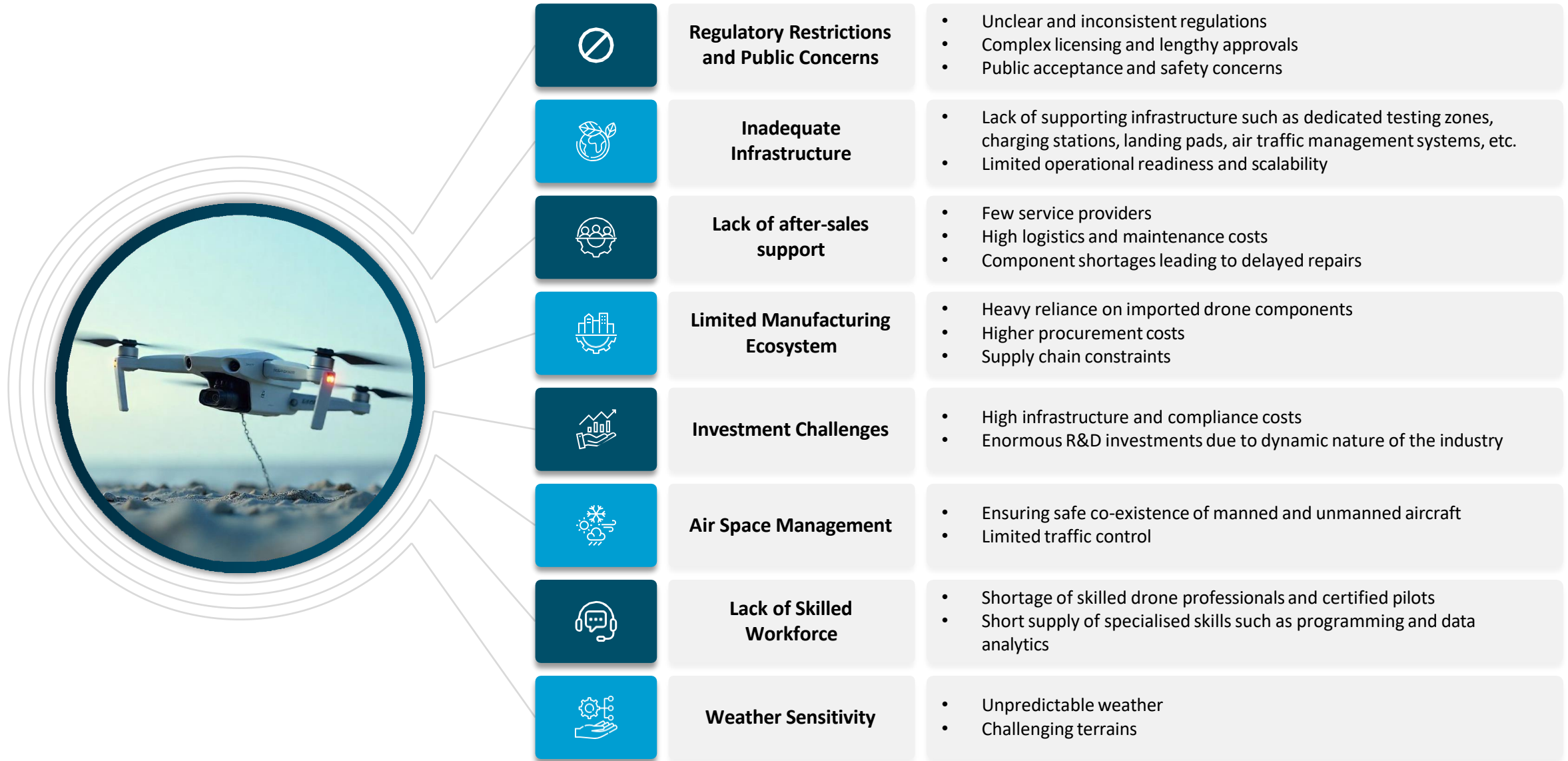
In mining, utilities, agriculture, and large construction sites, traditional manual inspection and surveys are being replaced by drones. Many of these drones are equipped with cameras, sensors, and GPS. They can fly over a site and capture high-resolution images and data. This data can then be used to create 3D models of the site, which can be used for planning and construction. Drones are also being used for surveillance and security. They can fly over a site and capture high-resolution images and data. This data can then be used to create 3D models of the site, which can be used for planning and construction. Drones are also being used for surveillance and security. They can fly over a site and capture high-resolution images and data. This data can then be used to create 3D models of the site, which can be used for planning and construction.

The drone world will create new kinds of jobs. Most prominently, it will need lots of drone pilots. Gangop said all kinds of manual work will be replaced by drones. He said, "In the future, 'Rites will have to be done on the phone, and by using drones, look at the disruption even as Prime Minister Narendra Modi has set the target of making India a drone hub by 2030."

Centre weighs ₹3,000 cr lift for drone ecosystem
Proposed amount is an 18x jump from the previous PLI scheme's ₹165 crore outlay



Challenges Faced by the Indian Drone Industry Underscore the Necessity for Enhanced Solutions



Gamma Rotors' Unique Capabilities and Client-Focused Approach Provide a Distinct Competitive Edge, Effectively Addressing Industry Concerns



Focus on R&D

A dedicated R&D team to upgrade products in sync with the dynamic market requirements



State-of-the-art Designs

Ultra-light, foldable drones offering a user-friendly experience



Digital Manufacturing Capabilities

Digital warehouse system optimises supply chain efficiency



Robust After-Sales Support

Enhances credibility and trust among customers



3rd Party Drone Servicing

Helps extend market reach and generates cross-selling opportunities



DPIIT License

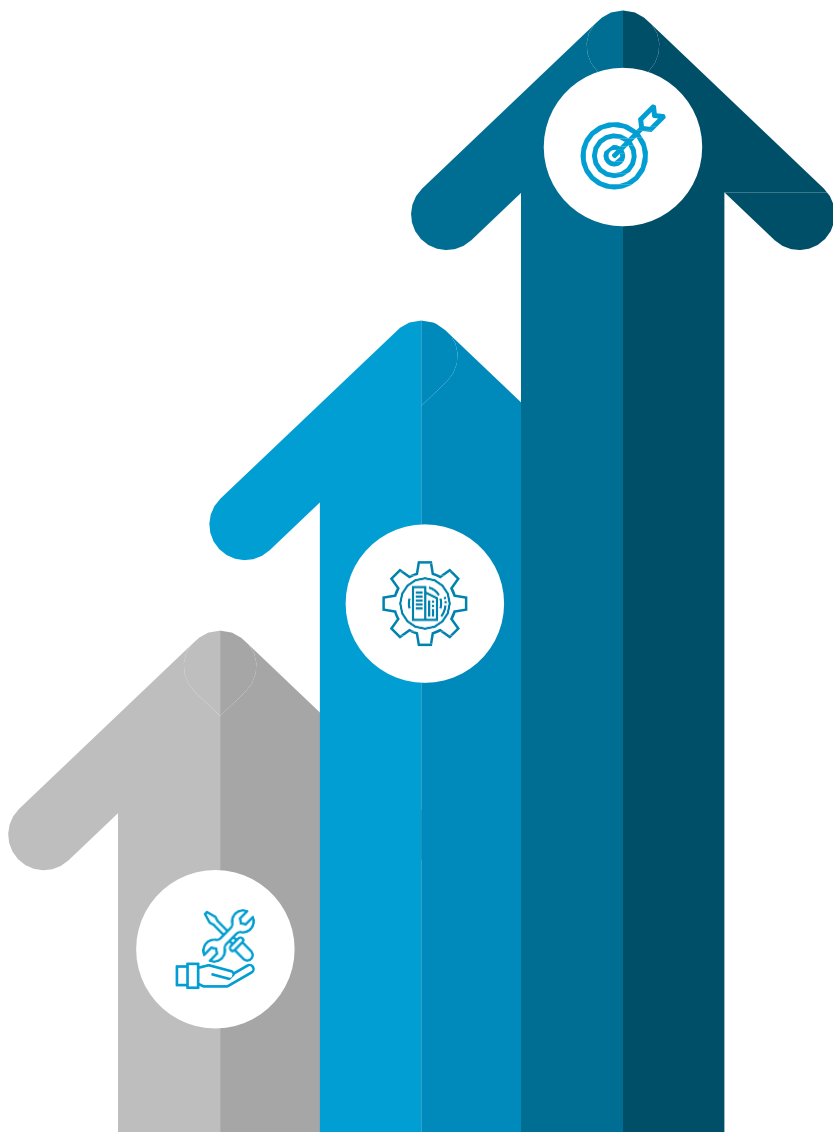
The defence drone manufacturing license requires clearance from seven ministries. Only a few Indian drone manufacturers currently hold this license.

A background image with a blue tint. It shows a hand holding a pen, drawing a line that starts from the bottom left and goes diagonally upwards to the right, ending in an arrowhead. The word "Target" is written along this line. Below the line is a bar chart with seven bars of increasing height from left to right.

Target

Growth Plans

Poised for Growth Through Significant Investments in R&D, Manufacturing, and Advanced Technologies



R&D Focus

- Next-Generation Sensors: Multi-spectral & hyperspectral for defence.
- AI & Autonomous Systems: Enhanced autonomous navigation and mission planning.
- Hybrid Propulsion: Increased flight endurance and operational range.
- Cybersecurity: Robust data protection for military technologies.
- User-Centric GCS: Improved ground control systems for seamless military integration

Advanced Drone Manufacturing Facility

- Advanced drone manufacturing facility powered by digital manufacturing systems for precision production and scalable operations.
- Smart digital warehouse with proper rack management, optimized inventory tracking, and efficient storage of parts, components, and finished goods.
- Streamlined production and logistics workflow ensuring faster assembly, quality control, and dispatch operations.

Advanced Machinery & Equipment

- Equipped with advanced machinery, industrial power tools, and dedicated in-house fabrication capabilities.
- Large-scale Markforged 3D printer farm enabling rapid production of high-strength components.
- Strong rapid manufacturing capabilities that supported timely production and delivery requirements during **Operation Sindoor**.

The Company has Laid a Strong Foundation for Next Phase of Growth, Underpinned by Strategically Sound Initiatives



Integration of Emerging Technologies

- The company is strategically focused on integrating emerging technologies such as Artificial Intelligence, Machine Learning, Swarm Technology, Counter-Drone Systems, Quantum Communication & Cryptography, Advanced Battery Technologies, and 5G/Satellite Communication.



Geographic Expansion

- Geographically, the company's current focus is on serving the Indian market, particularly the defence forces. However, there are ambitious plans to expand into international markets in the future.



Diversification into New Applications

- In addition to defence, Gamma Rotors sees significant potential in applying its drone technology to the non-defence sector, particularly in essential logistics delivery.



Team Extension

- R&D Team: Doubling the size over the next 12 months to enhance AI integration, materials development, and endurance.
- Manufacturing Team: Increasing by 50% to support the new facility.
- Sales & Business Development Team: Targeting 70% growth for business collaborations and international & non-defence market entry.
- Customer Support Team: Expanding by 60% for enhanced customer service.
- Regulatory Team: Growing by 40% to manage compliance in both defence and commercial sectors.





Investment Rationale

Despite the Presence of Industry Giants, the Company is Rightly Positioned to Carve a Niche in the Indian Drone Industry



Gamma Rotors a nimble, innovative, and highly competitive player, well-positioned to challenge the dominance of larger entities in the drone sector. Further, the Indian Defence Forces have placed orders with Gamma Rotors, reflecting a significant headroom for industry players to grow.

The Adoption of Gamma Rotors' Drones by the Indian Defence Forces Validates Technological Excellence



Real-World Testing and Trust

The Indian Defence Forces' adoption of Gamma Rotors' drones for critical missions demonstrates trust in their performance under demanding conditions.

Rigorous Standards Met

Gamma Rotors' drones meet or exceed stringent military requirements for durability, reliability, and security.



Enhanced Technology Credibility

Military adoption serves as a powerful validation, boosting Gamma Rotors' reputation in the global defence sector.



With CDS Vipin Rawat

The Indian Defence Forces' adoption validates Gamma Rotors' technology, enhancing the company's standing in the defence and drone industries.

Ancillary Services, Including the Reconstruction of 3rd Party Drones, Serve as a Significant Growth Catalyst



Repair and Reconstruction of 3rd Party Drones

Gamma Rotors offers expert **repair and reconstruction services for 3rd party drones**, ensuring high-quality restoration and extended operational lifespan.



Trade-in Programme

The company offers a **unique trade-in program**, where 3rd party customers can cost-effectively exchange their old drones for upgraded models. This initiative not only provides customers with access to cutting-edge technology at an affordable price but also drives customer loyalty and repeat business.



Sales of Spare Parts for Own and 3rd Party Drones

The company also supplies a wide range of **spare parts** not only for Gamma Rotors drones but also for various **leading drone brands**. This diversification enhances the revenue streams and strengthens the company's market position.

Ancillary services contribute significantly to Gamma Rotors' overall growth, enhancing customer loyalty, fostering new business relationships, and ensuring continuous revenue generation beyond just product sales.



Management Team



ARPAN GHOSH



Arpan Ghosh

Company Founder

Education: B.Tech. (Electronics and Telecommunication)
Amity University, Noida

With over a decade of experience in UAV design and piloting, Arpan's passion for electronics began at a young age. His curiosity about circuits led to the creation of "Human Droid," a robotic system designed to help bomb squads safely defuse explosives. This innovative project earned him the CBSE Regional Science Exhibition award in 2013.

Building on this success, Arpan developed "Alpha Droid," the world's first aerial bomb disposal robot, which won the CBSE National Science Exhibition in 2013 and secured him a place at the Intel IRIS Fair. In 2014, he was honored with the Prime Minister's Award and received commendations from government organisations for his groundbreaking work on Alpha Droid.

Arpan graduated with a B.Tech from Amity University, UP, in 2018. He is now the founder and director of Gamma Rotors, where he focuses on transforming complex technologies into accessible, user-friendly solutions. As the driving force behind many of Gamma Rotors' most innovative products, Arpan continues to push the boundaries of UAV technology, inspiring new advancements in the industry.

The Synergy of Diverse Expertise Drives Collaborative Innovation and Aids in Exceeding Strategic Goals



Praveen Kumar (Chief Design Officer)

Education: Research Project Assistant at IIT Bombay

Praveen Kumar serves as the Chief Design Officer at Gamma Rotors, where his expertise and passion for innovative design are pivotal in advancing the company's UAV technology. With a strong foundation from his time as a Research Project Assistant at IIT Bombay, Praveen gained hands-on experience by developing a coaxial helicopter for air taxi applications. This project ignited his enthusiasm for the drone industry, fuelling his dedication to creating advanced UAV products that provide crucial technological advantages for national defence.



Sarthak Agarwal (Software Engineer)

Education: B.E. Mechatronics, Thapar University, Patiala

Sarthak Agarwal is a dedicated technology enthusiast with a focus on advancing automation. As a Software Engineer at Gamma Rotors, he plays a critical role in developing and maintaining the onboard software systems for drones. His collaborative work with the hardware team ensures that the software operates efficiently and safely, while his engagement with customers allows him to tailor solutions to meet specific needs. Driven by a passion for technological innovation, Sarthak is a key asset to the company's efforts in pioneering excellence in drone operations.



Bhuwan Joshi (Operations Executive)

Education: B.Com, SHUATS University

Bhuwan Joshi, serving as an Operations Executive, brings strategic leadership and strong operational acumen to Gamma Rotors. His role focuses on driving efficiency and fostering innovation by coordinating seamlessly across departments and optimising workflows. With a commitment to continuous improvement, Bhuwan excels in resource management and consistently implements best practices, contributing significantly to the company's growth and success. His dedication and expertise make him an invaluable asset to the organisation's operational excellence.



Sunil Thakur (Drone Technician)

Education: ITI Engineer

Sunil Thakur is a highly skilled professional whose expertise is essential to the efficiency, reliability, and performance of all drone operations at Gamma Rotors. With a sharp attention to detail and a strong grasp of advanced drone technologies, he oversees the meticulous maintenance, troubleshooting, and repair of the company's diverse drone fleet. Sunil's technical acumen ensures that each drone operates at peak performance, making him a crucial contributor to the company's operational success.

OUR TEAM



Annexure



Nighthawk

Surveillance

The NightHawk is a high-endurance, all-weather, all-terrain surveillance drone, designed for round-the-clock vigilance. This drone ensures unmatched situational awareness, tracking targets, securing areas, and gathering intelligence in any condition. The Nighthawk is designed for long flights over vast areas with unmatched precision, intelligence, and dominance. Weighing just 8kg with payload and battery, it offers exceptional agility. Equipped with dual day and night cameras, it ensures clear visibility up to 2km, supporting around-the-clock operations. Additionally, an integrated grenade dropper enhances its tactical effectiveness, making it ideal for high-stakes missions.



50 mins

Max Flight time

EO/IR

Payload Camera

7000m

Service Ceiling

5 KMs

Max Range

MMHG Grenade

Dropper

30x

Zoom Camera

View Pinpoint

LiveOps

Streaming Support

1.5 Kms

Distances Visible

-20°C to 50°C

Operating temperature

The Company's Surveillance Drones Combine Tactical Versatility and Precision Support for High-stakes Missions



Griffon

Surveillance

The Griffon modular tactical drone is specifically engineered for special forces, delivering essential support in live operations and serving as a significant force multiplier. Designed for versatility, it provides aerial capabilities for grenade deployment, real-time surveillance, ammunition resupply, and first aid delivery. Its advanced aerodynamic design enables swift maneuvers, ideal for intricate surveillance missions. Whether hovering discreetly or navigating challenging environments, Griffon masters the skies effortlessly. Griffon's fully modular design allows for quick unfolding, making it ideal for dynamic and high-stakes mission scenarios.



Minibot

Surveillance

The latest addition to the surveillance drone family, this compact yet powerful mini military drone is built for immediate action. Weighing just 2kg with payload and battery, it delivers a big impact in a small size. Designed for extreme stealth, it operates nearly silently and is equipped with integrated day and night cameras, ensuring round-the-clock precision in surveillance missions.



40 mins
Max Flight time

EO/IR
Payload Camera

6000m
Service Ceiling

5 KMs
Max Range

-20°C to 50°C
Operating temperature

35 mins
Max Flight time

EO/IR
Payload Camera

4000m
Service Ceiling

5 KMs
Max Range

-20°C to 50°C
Operating temperature



Powersorous

Logistics

The Powersorous is a groundbreaking military payload drone, engineered for heavy payloads. With advanced propulsion and intelligent control systems, it ensures stability and reliability in transporting supplies, conducting surveys, and delivering aid. Crucial for modern warfare, Powersorous supports ground troops by efficiently carrying arms, ammunition, and medical resources, minimizing human risk while enhancing mission success.



30 mins
Max Flight time

20-30 kgs
Payload

5000m
Service Ceiling

10 KMs
Max Range

-20°C to 50°C
Operating temperature

Powerhawk

Logistics

The Powerhawk drone combines advanced technology, precise navigation, and a powerful propulsion system, offering exceptional flexibility in both autonomous and remote-control modes. Its robust construction allows it to carry heavy payloads over long distances, making it invaluable for military operations and combat scenarios.



30 mins
Max Flight time

05-10 kgs
Payload

5000m
Service Ceiling

5 KMs
Max Range



Copter MMGH

ARCWS

- The Copter MMHG is a cutting-edge aerial asset designed for military and emergency applications.
- It offers precise grenade deployment with an intuitive one-click mechanism, ensuring swift, efficient support in critical scenarios.
- With seamless maneuverability, it enhances operational agility and adaptability, providing reliable field support when it matters the most.



Copter TSM

ARCWS

- The Copter TSM is a disruptive drone designed for military and emergency operations, enabling flawless deployment of smoke and tear gas grenades.
- With a user-friendly, one-click mechanism, it ensures quick, efficient action in critical missions, enhancing operational effectiveness.



30 mins

Max Flight time

01 MMHG

Grenade Payload

30 mins

Max Flight time

4 type

Of Grenade Payload

5 KMs

Max Range

5000m

Service Ceiling

5 KMs

Max Range

5000m

Service Ceiling



Flash

ARCWS

- Flash combines agility and raw power to carry TNT slabs, enabling precise leveling of buildings and structures.
- Its targeted demolition capabilities ensure controlled destruction, minimising collateral damage and promoting safe, efficient practices.



07 mins

Max Flight time

01 TNT

Grenade Payload

2 KMs

Max Range

3000m

Service Ceiling

The Nighthawk Outperforms DJI M350 RTK in key Performance Metrics



Due to its superior design and advanced engineering, the Nighthawk outperforms the DJI M350 RTK in several performance metrics, highlighting its capability to exceed even one of the world's most renowned drones.

Nighthawk



50 mins
Max Flight time



MMHG Grenade Dropper



LiveOps Streaming Supported

DRI of Nighthawk's Night Camera	Human (1.8m x 0.5m)	Vehicle (2.3m x 2.3m)
Detection	1850m	4470m
Recognition	460m	1120m
Identification	230m	560m



DJI M350 RTK



35 mins
Max Flight time



Flighthub2 Streaming Supported

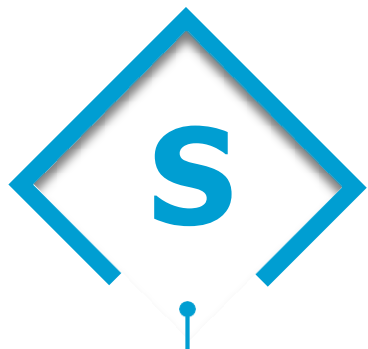
DRI of H20T Night Camera	Human (1.8m x 0.5m)	Vehicle (2.3m x 2.3m)
Detection	1000m	2430m
Recognition	250m	610m
Identification	130m	300m



Drone Competitive Analysis



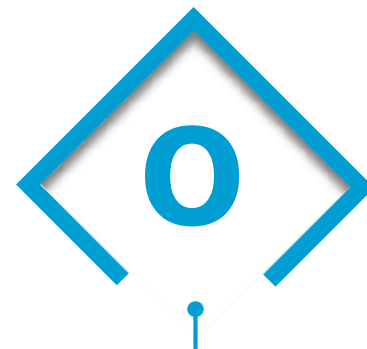
Features	Nighthawk (Gamma Rotors Pvt. Ltd.)	M350RTK (DJI)	Netra v4+ (Ideaforge)	A410-XT (Asteria)	Survigator DH-Q4 (DUMS)	Spectre (Sagar Defence)
 Flight Time	50 mins	35 mins	50 mins	50 mins	40 mins	40 mins
 Time on Target (@5km)	25 mins	13 mins	20 mins	only 4km range	only 2km range	Only 4km range
 Range	5km	5km	5km	4km	2km	3km
 Payload	Day/Night Camera + MMHG Dropper Payload	Day/Night Camera Payload	Day/Night Camera Payload	Day/Night Camera Payload	Day Camera	Day Camera
 Weight (without grenade dropper)	<7kg	8kg	6.5kg	<8kg	<5kg	<7.5kg
 Ingress protection	IP64	IP55	IP53	IP43	IP43	IP43
 Crew members needed for setup	2	2	5	5	5	5
 Live Video Streaming	Yes	Yes	Yes	Yes	No	No
 Origin	India	China	India	Uses parts from china	Copied from Chinese company T-Drone	Uses parts from China



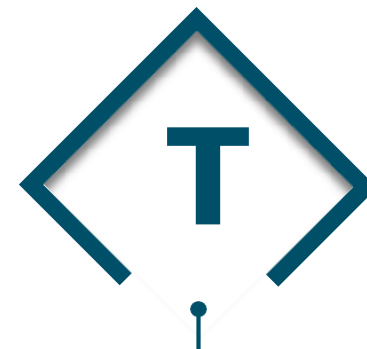
- Low purchase and operational costs compared to peers.
- Versatile operational capabilities coupled with extended flight endurance.
- Strategic emphasis on securing government contracts.
- A well-established rapport with Indian Government entities.
- Focus on customisation and robust after-sales support.
- Unique trade-in program.



- Highly capital-intensive industry.
- Restrictive regulatory frameworks and dependence on government contracts.
- Limited manpower, infrastructure, and scalability as a smaller enterprise.
- Vulnerability to supply chain disruptions and high R&D costs.
- Limited international market presence.



- Fast-growing drone market with increasing government focus.
- Access to readily available components for system development.
- Early mover advantage and expanding demand in defence and commercial sectors.
- Potential for drones as a propaganda tool.
- International market expansion opportunities.



- Constant need for investment in evolving technology.
- Intense competition from rapidly advancing startups.
- Regulatory changes and security/privacy concerns.
- Dependence on government contracts and economic downturn risks.
- Supply chain disruptions and pricing pressures from competitors.



Thank You