

GRIFFINMARK

ROBOTICS PVT LTD

ENGINEERING
AUTONOMOUS
DEFENCE SYSTEMS
FOR A SELF-RELIANT
INDIA

www.griffinmark.com



GRIFFINMARK
ROBOTICS

ABOUT GRIFFINMARK ROBOTICS

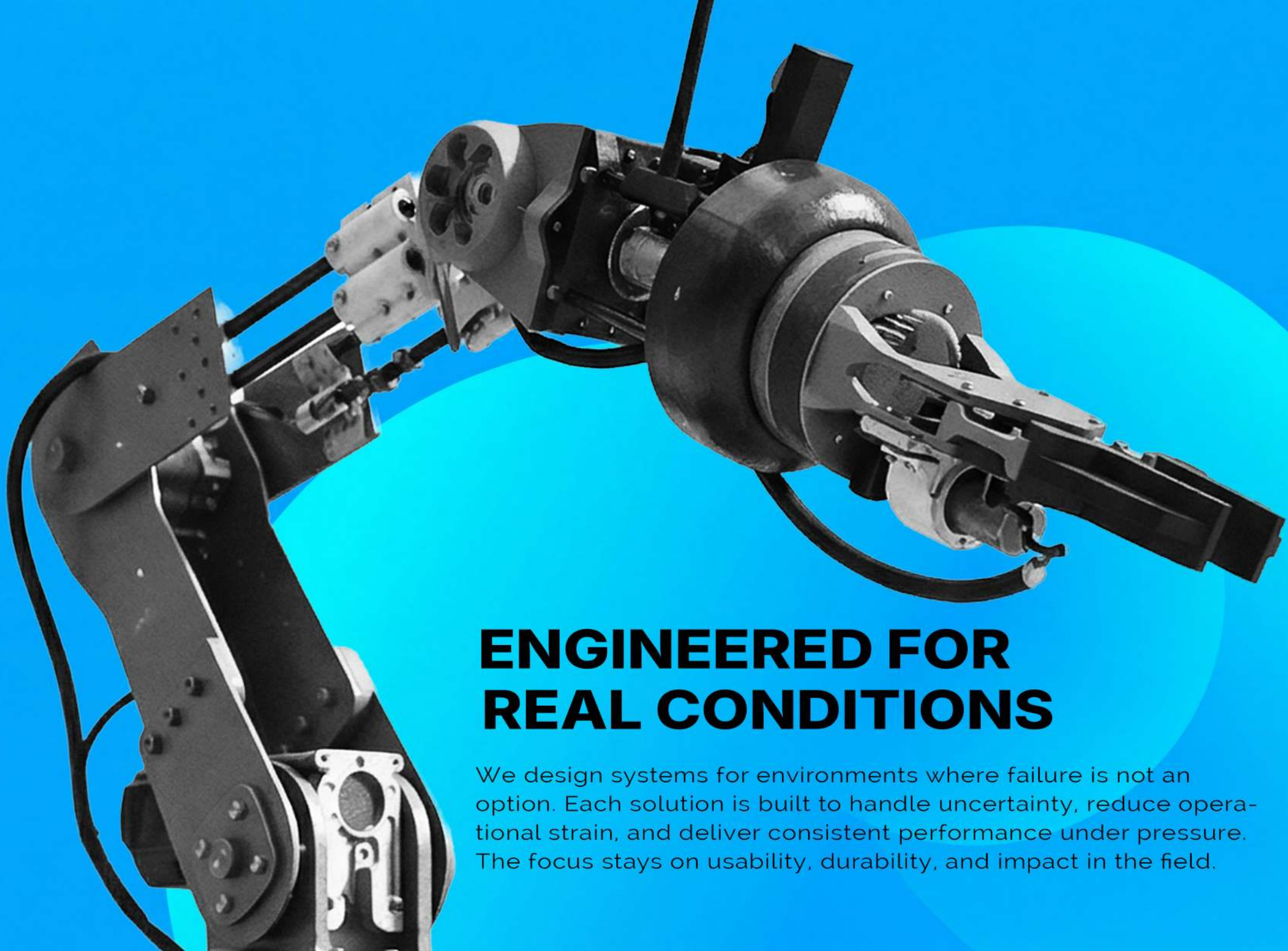
Griffinmark Robotics Pvt Ltd is a next-generation defence technology company focused on building indigenous robotic and autonomous systems for modern warfare.

Aligned with India's national priorities:

-  Atmanirbhar Bharat
-  Defence Indigenization
-  AI & Robotics-led Modern Warfare



Reduce human risk. Enhance operational efficiency. Build sovereign defence technologies.



ENGINEERED FOR REAL CONDITIONS

We design systems for environments where failure is not an option. Each solution is built to handle uncertainty, reduce operational strain, and deliver consistent performance under pressure. The focus stays on usability, durability, and impact in the field.

INDIA'S DEFENCE LANDSCAPE

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STRATEGIC INDICATORS

- 🤖 India ranks among the Top 3 global defence spenders
- 🤖 Defence Budget: ₹6+ Lakh Crore (2024–25)
- 🤖 75%+ capital procurement reserved for domestic industry

Increasing focus on

- 🤖 Autonomous systems
- 🤖 AI-enabled warfare
- 🤖 Soldier modernization



CRITICAL GAPS IN CURRENT OPERATIONS

Current defence operations face significant challenges that impact soldier effectiveness and mission success. Addressing these gaps is essential for modern warfare readiness.

High-Risk Bomb Disposal Operations

Manual intervention still required in many EOD missions

Leads to avoidable casualties in armed forces & police units

Soldier Fatigue & Undernourishment

Low nutrition reduces endurance

Poor intake weakens focus and reaction

Fatigue increases injury risk and lowers effectiveness

Physical Load & Mobility Constraints

Soldiers carry 20–40 kg loads in extreme terrains

Fatigue

Reduced endurance

Long-term injuries

GMR-HANUMX

Advanced Bomb Diffusion & Tactical UGV

Specifications

- 100 kg rugged metallic body
- 4WD with Ackermann steering
- Upgradeable to tracked mobility
- Speed up to 60 km/h
- 10 km control range (extendable)
- 6 DOF robotic arm (multi-tool compatible)
- LiDAR-based mapping
- Gas & metal detection sensors
- AI-based human detection

Applications

- Bomb neutralization
- Wire cutting & hazardous handling
- Door/fence breaching
- Remote surveillance
- Multi-tool compatible operations

GMR-STRIDE

Next-Gen Soldier Exoskeleton System



Features

- Load-bearing support system
- Assisted mobility
- Terrain-adaptive sensors
- Energy-efficient actuation
- Modular design

Strategic Impact

- Reduces strain from 20–40 kg loads
- Enhances endurance in extreme terrains
- Lowers injury risk

GMR-AMRIT

Smart Tactical Nutrition & Recovery System

Features

- Automated protein & electrolyte dispensing
- IoT-enabled monitoring & analytics
- Real-time inventory tracking
- Customizable nutrition based on mission profile
- Hygienic, rapid dispensing

Strategic Value

- Reduces fatigue-related performance drop
- Improves endurance in long missions
- Enables real-time nutrition delivery system



GLOBAL BENCHMARKING INSIGHT

INCREASING FOCUS ON:

Soldier augmentation systems

Smart nutrition programs

Autonomous battlefield robots

India is rapidly moving in the same direction—creating a strong opportunity for indigenous innovators



WHY GRIFFINMARK ROBOTICS

Indigenous, mission-focused R&D
Integration of AI + Robotics + Smart Systems
Modular, scalable defence solutions
Focused on real battlefield problems



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**BUILT FOR THE BATTLEFIELD.
DESIGNED TO SAVE LIVES. POWERED BY INDIA.**