

GIM Commercial Products & Technologies

Graphene Innovations Manchester UK



What is Graphene?

- 1-atom thick carbon sheet, 200x stronger than steel, transparent, ultra-light & flexible
- World's best conductor of heat & electricity
- Discovered at The University of Manchester (2004), Nobel Prize (2010)
- Easily scalable—safe, cost-effective

About GIM

- **GIM (UK):**
World leader in graphene compounding & AI-driven robotic manufacturing
- Technology Development and Commercialisation
- Rapid Commercialisation Company

1. GIM Concrete – World's Most Sustainable High-performance Concrete

- Low environmental footprint (no cement & no water)
- Can use recycled polymers
- Ultra-high strength yet lightweight
- Fast curing (fully cure in several hours)
- High durability with low permeability
- High fire retardancy
- Strong earthquake damping



2. GIM GrapheneFibre – At Least 2x Stronger

- Exceptional Strength & Lightweight
- Enhanced Flexibility & Durability
- High Thermal Conductivity & Heat Resistance
- Superior Electrical Conductivity
- Chemical & Environmental Resistance



3. GIM Composites – Improving Mechanical, Electrical & Thermal Properties

- High strength, durable & lightweight
- Excellent electrical and thermal conductivity
- Strong resistance to corrosion, chemicals, wear & friction
- Customisable, multifunctional material system
- Sustainable & eco-friendly

Transportation Vehicles



Space Sector



4. GIM Cooling System – Smart Data Centre Cooling System Powered By Graphene

- Higher heat removal & computing efficiency
- Lower cooling costs, energy use, and space needs
- Greater system reliability and longer lifespan
- Supports high-performance computing and AI
- Reduced environmental impact through lower emissions

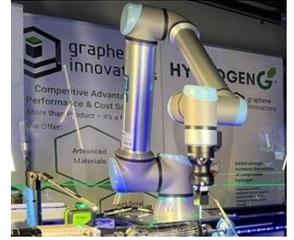


Smart Data Centre Cooling System

Graphene + Other 2D Materials

5. GIM Winder – Bringing Carbon Composite Winding To A New Level

- Lower Costs & Less Waste
- Accurate & Consistent Production
- AI-Powered Quality Control
- Faster & More Efficient Manufacturing
- Flexible & Scalable
- Stronger & More Reliable Products



6. GIM Hydrogen – World's 1st Type V Hydrogen Storage Container

- Ultra-lightweight with high-pressure, efficient gas storage
- Corrosion-free, long-lasting, and highly safe
- Eco-friendly and sustainable solution



7. GIM Rebar – Highest Tensile Strength In The Market

- Corrosion-Free
- Stronger & Lighter
- Longer Lifespan
- Non-Conductive
- High Durability
- Eco-Friendly



8. GIM PPE – Active Cooling Apparel For Workers And Active Lifestyles

- Real-time health and hazard monitoring
- Smart temperature regulation for comfort
- Accurate location tracking for safety
- Improved overall efficiency and user comfort



9. GIM Paint – The Future Of Paint: Stronger, Smarter, Cleaner

- UV & Chemical Resistance
- Superior Barrier & corrosion resistance
- Exceptional Durability & Mechanical Resistance
- Extended lifespan
- Hydrophobicity & Cleanliness



10. GIM Hydrogel – Sustainable Hydrogels Designed for Stronger, Healthier Soil

- Renewable Materials.
- Biodegradability
- Structural Stability
- Nutrient Loading Capability



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