

MOMODESIGN

GRAPHENE PROJECT

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In keeping with its reputation for innovation, Momodesign, since the '80s a pioneer in the production of everyday objects using hi-tech materials like carbon fibre, magnesium and titanium, continues today on its evolutionary journey thanks to graphene.

The company that has established itself over the years as a leading name in Italian design and style, having revolutionised the concept of the Demi Jet motorbike helmet with its FGTR model, Momodesign is tackling safety measure issues, by investing in the development of a graphene helmet with unique performances in terms of resistance to impacts and heat dissipating with a consequent comfort improvement.

The project has come about thanks to the close and prestigious partnership between IIT's Graphene Labs and the Momodesign Style Center.

Research, innovation and use of two-dimensional materials: the new era of Momodesign helmets stars from here.

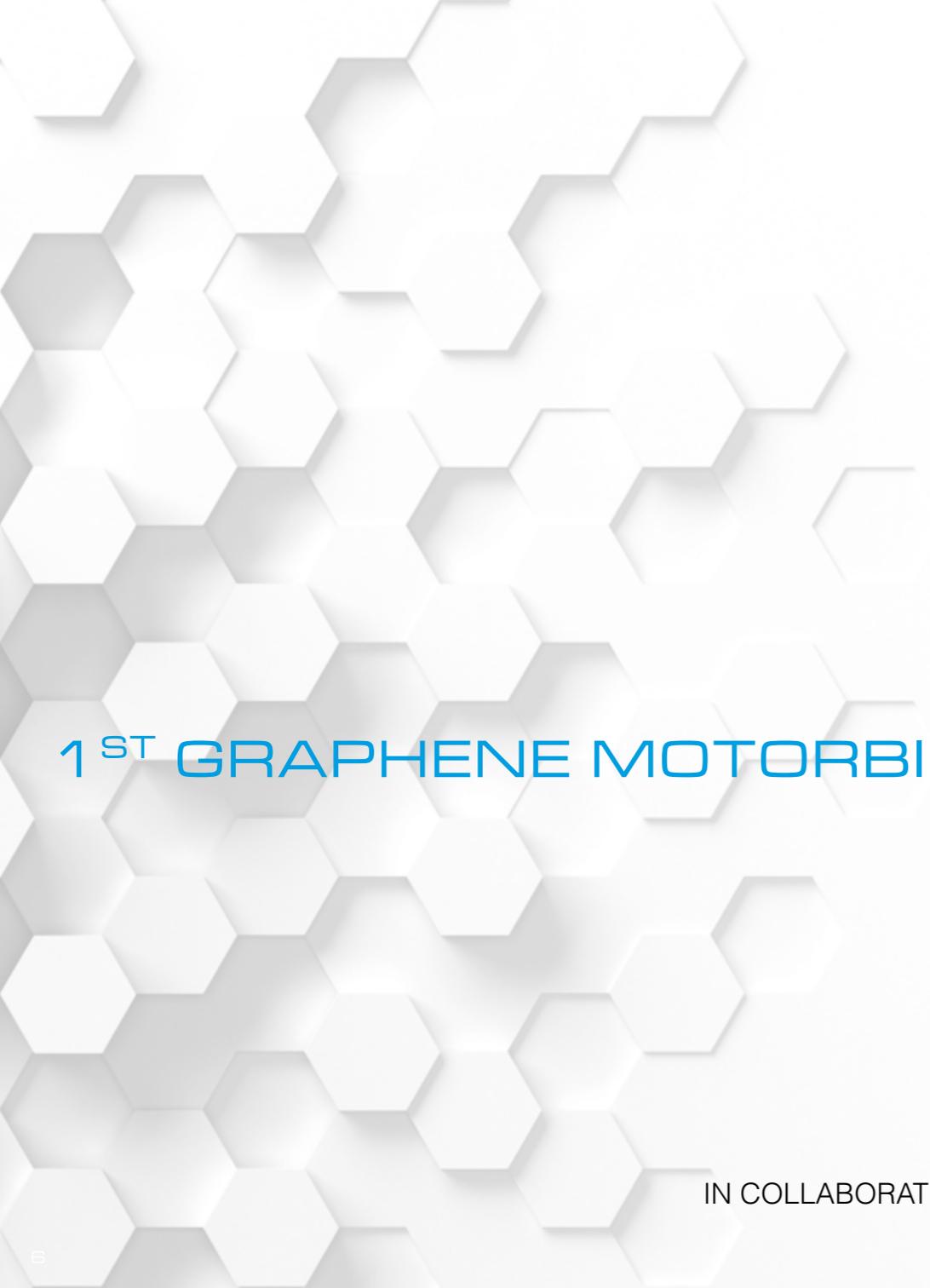


RESEARCH
INNOVATION
TECHNOLOGY

GRAPHENE LABS

Graphene is the strongest and thinnest material known to man. Consisting of a single sheet of carbon atoms one atom thick, it has mechanical properties that are superior to those of steel or of any other material. Its tensile strength is approximately 20 times higher and its modulus of elasticity is double that of carbon fibre, a material generally considered to be among the most revolutionary materials for industrial use.





1ST GRAPHENE MOTORBIKE HELMET

STRENGTH

Graphene distributes the impact force better than any other material. This allowed us to produce a more durable helmet, improving the safety.

PERFORMANCES

The impact resistance is guaranteed even in extreme conditions of environmental heating.

COMFORT

Graphene due to its high thermal conductivity allows a reduction of the internal heat and improves thermal comfort.

IN COLLABORATION WITH



GRAPHENE 1.0

The first graphene helmet ever made, result of the material quality, production process and reached performances.

The Graphene due to the material's particular properties, it is able to distribute the force of an impact better than any other material.

Graphene is also an excellent conductor of heat. This additional property has enabled us to create a avant-garde helmet whose high impact resistance is maintained even under conditions of extreme ambient temperatures.

Due to graphene's capacity for dissipating heat, the helmet's thermoregulatory outer shell allows the wearer to feel comfortable even during direct exposure to the sun.



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