

PRODUCT BROCHURE

REVOLUTIONIZING MOBILITY

CUTTING-EDGE CARBON FIBER WHEELS



AGENDA

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C-INERTIA

LEADING **THE FUTURE OF MOBILITY** WITH CARBON FIBER

At C-INERTIA, we are redefining the future of carbon fiber technology with our disruptive, patented industrial process, which allows us to produce high-performance carbon fiber wheels at a price point never seen before in the industry.

This breakthrough in manufacturing scalability enables us to deliver products that are lighter, stronger, and more competitive without compromising on quality.

Having passed the test by TÜV Sud and designed with a focus on precision engineering, our wheels meet the highest standards of safety and performance. We are committed to working with the world's leading OEMs, providing cutting-edge solutions that push the boundaries of innovation and increase safety, in the automotive and motorcycle sectors.

C-INERTIA is not just a product—it's a revolution in carbon fiber technology, driving the future of more secure mobility with unparalleled value of performance and technical excellence.



THE POWER OF CARBON FIBER

LIGHTER, STRONGER, FASTER.

CARBON FIBER TECHNOLOGY

Utilization of advanced carbon fiber composites results in superior strength-to-weight ratios, enhancing vehicular dynamics without compromising structural integrity.

PERFORMANCE ADVANTAGES

The integration of carbon fiber wheels significantly enhances vehicle agility and response times, revolutionizing both everyday driving and competitive racing.

WIDE VEHICLE APPLICATIONS

C-INERTIA wheels are adaptable across a variety of platforms, including sports cars, electric vehicles, and even within aerospace technology.

EFFICIENCY INNOVATIONS

These wheels contribute to a marked reduction in mass, translating to improved overall efficiency in vehicle performance and fuel economy.



PATENTED TECHNOLOGY

BEHIND C-INERTIA'S WHEELS



100% CARBON FIBER TECHNOLOGY

Using aerospace-grade materials to create lightweight, high-performance wheels.



PATENTED DISRUPTIVE TECHNOLOGY

Innovative Resin Transfer Molding (RTM) process for unmatched durability and precision.



CERTIFIED FOR SAFETY

TÜV-tested for track and road, ensuring maximum safety and reliability.

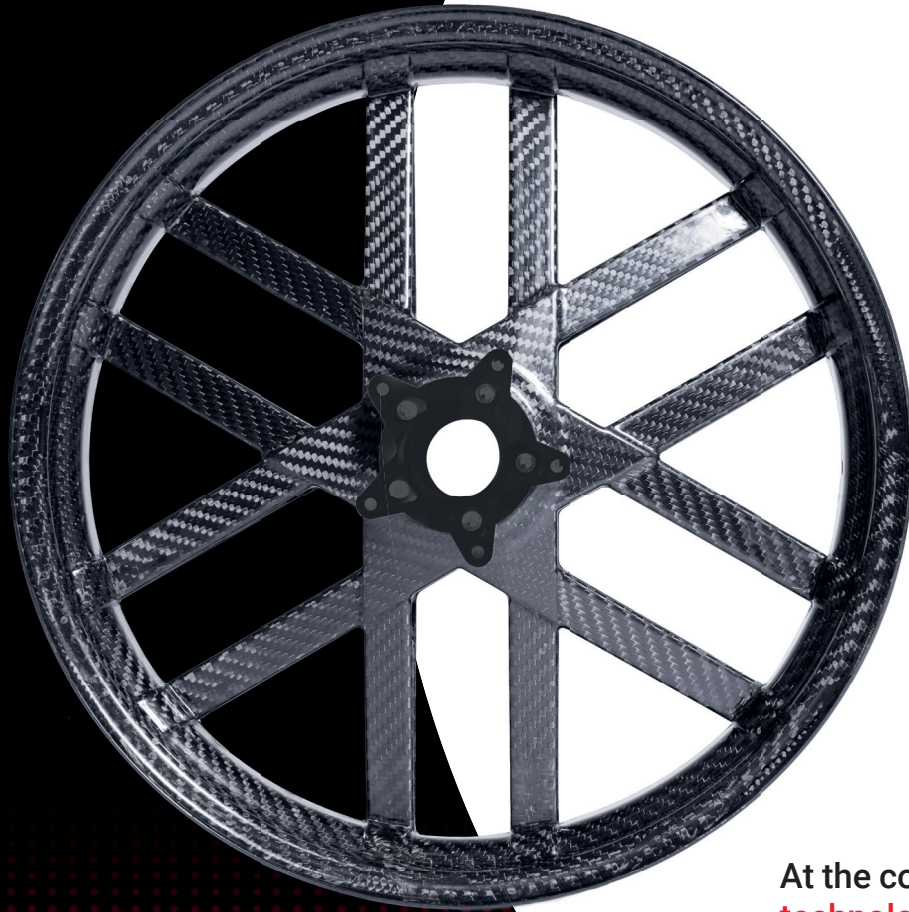


REVOLUTIONIZING AGILITY AND HANDLING WITH CARBON FIBER WHEELS

C-INERTIA is revolutionizing the carbon fiber wheel industry with cutting-edge technology. Our patented Resin Transfer Molding (RTM) technology allows us to produce 100% carbon fiber wheels that offer superior lightness, agility, performance, and durability.

By using aerospace-grade materials, we've crafted wheels that enhance acceleration, improve handling, and are TÜV-certified for maximum safety both on the track and the road.

TECHNOLOGY



PATENTED TECHNOLOGY BEHIND C-INERTIA'S WHEELS

RTM PROCESS



Our patented RTM process optimizes carbon fiber layering for maximum strength and precision.

AEROSPACE-GRADE MATERIALS



Our carbon wheels, made from aerospace-grade fibers, deliver lightweight, high-performance results. Each wheel is numbered for full traceability, ensuring precision and quality.

PROVEN DURABILITY



Extensive testing ensures the wheels meet international standards for handling, agility, performance and durability.

At the core of C-INERTIA's innovation is our **Resin Transfer Molding (RTM) technology**, a process that creates high-strength, lightweight carbon fiber wheels.

By using aerospace-grade materials, we ensure top-tier reactivity and performance while keeping the wheels incredibly light. Rigorous testing guarantees that these wheels meet the highest standards of durability and precision.

OUR WHEELS

MAXIMIZED AGILITY, MINIMAL WEIGHT: THE C-INERTIA ADVANTAGE.

By alleviating unsprung mass, the performance of the vehicle's suspension system is enhanced, yielding a smoother ride and improved road contact.

Additionally, lower rotational mass minimizes inertia, facilitating quicker acceleration and braking, which is crucial for both track performance and everyday driving. The cumulative impact of these reductions not only enhances performance metrics but also contributes to greater efficiency, more security and sustainability in vehicle operation.

UNSPRUNG MASS REDUCTION



The decrease in unsprung components enhances suspension performance, resulting in improved ride quality and better contact with road surfaces.

PERFORMANCE GAINS



The overall reduction in mass translates into better lap times and a more responsive driving experience, whether on the track or in daily driving. So, you can drive more safely.

EFFECTS ON ROTATIONAL MASS



Lower rotational mass leads to decreased inertia, allowing quicker acceleration and deceleration, with tangible gains in responsiveness and efficiency on the road, day after day.

EFFICIENCY IMPROVEMENTS



Lightweight wheels contribute to improved fuel economy and lower energy consumption, making vehicles more sustainable without sacrificing performance.

COMET SERIES

PRODUCT HIGHLIGHTS



LIGHTWEIGHT CONSTRUCTION

Up to 50% lighter than traditional alloy wheels for improved agility and handling.



INERTIA REDUCTION

The lightweight design of COMET carbon wheels reduces inertia, allowing for improved reactivity and sharper braking responses.



IMPROVED HANDLING

Lighter wheels require less force to move, enhancing responsiveness during acceleration and deceleration, crucial for everyday driving to improve anticipation and reaction to danger.



REDUCED STOPPING TIMES

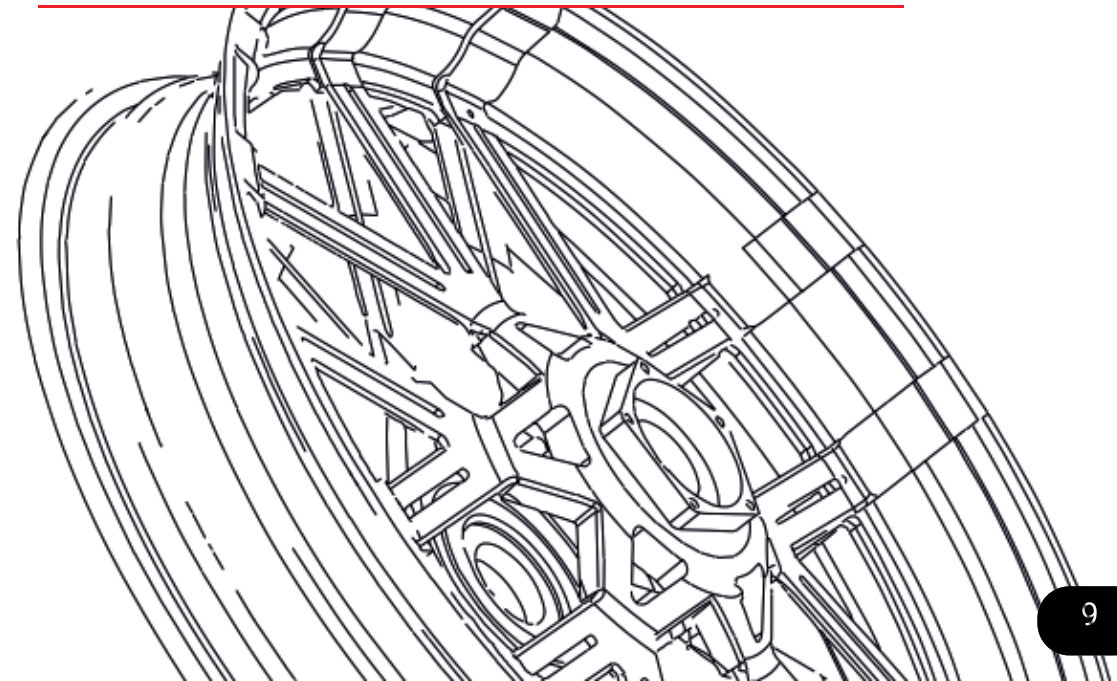
The combination of lower mass and better heat dissipation leads to shorter stopping distances, significantly improving safety.

100% CARBON FIBER FOR OPTIMIZED SAFETY

The COMET series represents the peak of carbon fiber innovation, offering up to 50% lighter wheels compared to traditional alloys.

This reduction in weight improves acceleration, handling, and fuel efficiency. Each wheel is TÜV-certified for safety and performance, making them ideal for both road and track use.

Customers can also personalize their wheels with a variety of color and finish options to match their style.





RIGOROUS TESTING FOR MAXIMUM SAFETY

IMPACT AND LOAD TESTING



Extensive testing for strength and durability under extreme conditions.

LONG-TERM RELIABILITY



Engineered to maintain performance and safety over time.

TÜV SUD



Tested and certified for road use and track, ensuring maximum safety and reliability.

At C-INERTIA, safety is our top priority. Our COMET series wheels are TÜV-certified, passing stringent safety standards for both road and track use.

The wheels undergo rigorous testing, including impact and load assessments, to ensure they withstand extreme conditions. Engineered for long-term reliability, you can trust C-INERTIA to deliver consistent performance, year after year.

PRECISION ENGINEERING

COMET SERIES SPECIFICATIONS



COMET

FRONT WHEEL

SPECIFICATIONS

SIZE AND DIMENSIONS

17" x 3.5"

Options to fit various motorcycle models.

WEIGHT

2.42 Kg



CERTIFICATIONS

Tüv Sud - JASO Standards



PLUG & PLAY

Sold with extensions adapted to your motorcycle model and bearings + dust covers.

MATERIAL

Carbon

Multiple valve stem and finish colors available for personalization.

TEST



RADIAL IMPACT LOAD CAPACITY

The wheel exhibits a remarkable radial impact load capacity of 630 kg, making it resilient against external impacts during operation.



CORNERING FATIGUE LOAD HANDLING

With a cornering fatigue load of 632 Nm, the design facilitates agility in turns, maintaining grip even under significant force.



TORSION FATIGUE LOAD PERFORMANCE

The rear wheel handles a torsion fatigue load of 874 Nm, indicative of its robust design resisting twist under varying loads.



COMPLIANCE AND TESTING UPDATES

Passing stringent impact tests of 420 kg at a drop height of 150 mm, this wheel adheres to top standards for safety and reliability.

DATA SHEET

FRONT WHEEL SPECIFICATIONS



SIZE AND DIMENSIONS

The front wheel has a size of 17 x 3.50 inches, providing a balance between agility and stability, suitable for a variety of bikes.



WEIGHT CONSIDERATIONS

Weighing in at only 3.27 kg, this wheel facilitates a rapid transition between speed and braking, as well as improved handling, making it a perfect match for emergency situations on the road or optimized performance on track.



MATERIAL COMPOSITION

Constructed in carbon fibers combined with innovative Resin Transfer Molding (RTM) process, the wheel boasts enhanced strength-to-weight ratio, optimizing both performance and handling characteristics, pivotal for maneuvers requiring great responsiveness.



LOAD RATING AND COMPATIBILITY

The maximum load rating stands at 150 kg, complementing the tire compatibility of 120/70 R17, ensuring a stable and reliable match for various riding conditions.

DATA SHEET



COMET

REAR WHEEL

SPECIFICATIONS

SIZES

17" x 6"



WEIGHT

3.64 kg



CERTIFICATIONS

Tüv



PLUG & PLAY

sold with extensions adapted to your motorcycle model and bearings + dust covers

MATERIAL

Carbon fiber

Multiple valve stem and finish colors available for personalization.

TEST



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OVERVIEW OF TESTING

DOT E, JWL, ISO STANDARDS

TESTING METHODOLOGIES AND STANDARDS

TESTING OVERVIEW

Each COMET wheel undergoes a rigorous testing regime to guarantee superior performance in real-world environments, with consistency in the assessment.

DOT E AND JWL STANDARDS

Compliance with DOT E regulations and JWL standards signifies that each wheel meets or exceeds safety requirements in the automotive industry, providing assurance of performance integrity. (TBC)

ISO COMPLIANCE

ISO standards ensure international consistency in quality and manufacturing processes, reflecting COMET's commitment to excellence. (TBC)

QUALITY ASSURANCE PROTOCOLS

A comprehensive quality assurance process is in place, including continuous monitoring and assessments of production procedures to maintain high safety standards and performance.



COMET SERIES

PRODUCT HIGHLIGHTS

PRICING AND PACKAGES

The COMET series offers high-performance wheels at a competitive price point. A front wheel is priced at **€1080**, and a rear wheel is **€1319**. Customers can purchase a full, PLUG & PLAY, set of both front and rear wheels for **€2399**. This package delivers top-tier performance and durability, while offering excellent value for distributors and end users alike.



Front Wheel

€ 1080

Rear Wheel

€ 1319

Full Set

€ 2399



CUSTOMIZATION OPTIONS

Available in multiple colors and finishes, allowing customers to personalize their wheels.

€ 125



SIZES AVAILABLE

17" x 3.5" and 6" options to fit various motorcycle models.



PLUG & PLAY

Sold with extensions adapted to your motorcycle model and bearings + dust covers

COMPATIBILITY AND FITMENT GUIDE

PERFECT FIT: DESIGNED FOR YOUR RIDE



BRANDS

HONDA, DUCATI, KAWASAKI,
TRIUMPH, YAMAHA, KTM,
HARLEY DAVIDSON, MV AGUSTA



FITMENT DETAILS

17"x3.5"/6" sizes | Front and Rear Wheel
References available in detailed table.



MODEL

CBR 1000RR, ZX6R/RR, VERSYS
1000S, DAYTONA 675, STREET
TRIPLE 765, R1, R6, MT-10, DUKE
890R, SUPER DUKE, etc.

The COMET series wheels are compatible with a wide range of high-performance motorcycles, including models from Ducati, Honda, Kawasaki, Triumph, Yamaha, KTM, Harley Davidson, and MV Agusta.

The detailed fitment guide provides exact wheel sizes and references for each model, ensuring perfect compatibility. Full details are available in the product catalog.



COMPARISON WITH TRADITIONAL ALUMINIUM WHEELS



PERFORMANCE METRICS

C-INERTIA wheels outperform aluminium counterparts in acceleration, braking, and handling, leading to superior driving experiences.



MATERIAL DIFFERENCES

Distinct differences in material properties between carbon fiber and aluminium result in differing performance, weight, and durability characteristics.



ADHERENCE TO INDUSTRY STANDARDS

C-INERTIA wheels meet or exceed existing industry standards for safety and performance, positioning them as a viable alternative.



COST-BENEFIT ANALYSIS

While initial investment may be higher for carbon fiber, long-term performance advantages and reduced wear costs offset these costs over time.

CONCLUSION AND TAKEAWAYS

C-INERTIA : THE FUTURE OF MOBILITY IS HERE

SUMMARY OF BENEFITS

C-INERTIA wheels deliver weight reduction, performance gains, and enhanced efficiency across a variety of applications.

STRATEGIC IMPLICATIONS

Integration of carbon fiber technology into vehicle manufacturing represents a strategic advance in performance and sustainability.

RECOMMENDATIONS FOR ADOPTION

Incorporating C wheels into vehicle designs presents opportunities for enhanced performance and customer appeal.

FUTURE OUTLOOK

As technology evolves, the continued adoption of carbon fiber solutions points toward a future of high-performing, sustainable vehicles.

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THE POWER OF LIGHTNESS



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