

PRODUCT BROCHURE

REVOLUTIONIZING MOBILITY

CUTTING-EDGE CARBON FIBER WHEELS



 **INERTIA**
THE POWER OF LIGHTNESS



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.



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.



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

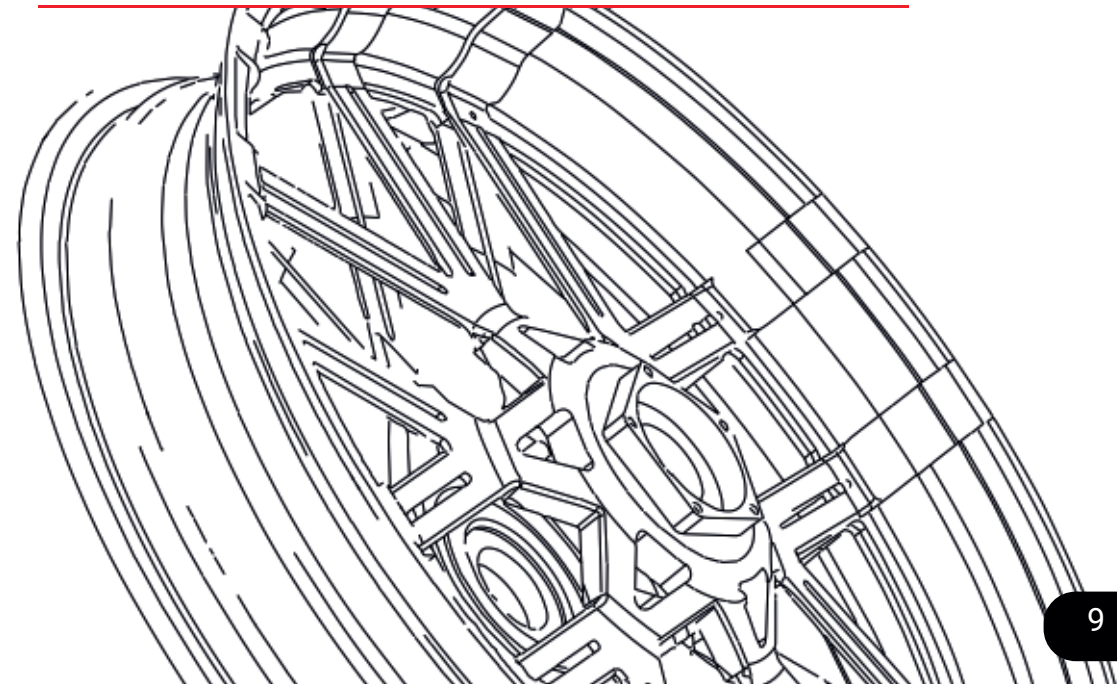
The combination of lower mass and better heat dissipation leads to shorter stopping distances, significantly improving safety.

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

At C-INERTIA, safety is our top priority. Our COMET series wheels are TÜV, 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 WHEEL LOAD — WEIGHT — VALIDATIONS

17" x 3.5" / 150kg

Options to fit various motorcycle models.

2.42 Kg



Tüv Sud



PLUG & PLAY — MATERIAL — CUSTOMIZATION

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

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 338 kg, making it resilient against external impacts during operation.



CORNERING FATIGUE LOAD HANDLING

With a cornering fatigue load of 427 Nm, the design facilitates agility in turns, maintaining grip even under significant force.



TORSION FATIGUE LOAD PERFORMANCE

The front wheel handles a torsion fatigue load of 424 Nm, indicative of its robust design resisting twist under varying loads.



COMPLIANCE AND TESTING UPDATES

Passing stringent impact tests of 375 kg at a drop height of 150 mm, this wheel adheres to top standards for safety and reliability.

COMET

REAR WHEEL

SPECIFICATIONS

SIZE AND WHEEL LOAD

17" x 3.5" / 280kg



WEIGHT

3.64 Kg



VALIDATIONS

Tüv Sud



PLUG & PLAY

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

MATERIAL

Carbon

CUSTOMIZATION

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



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.



CORNERING FATIGUE LOAD HANDLING

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



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.





COMET

OFFSET REAR WHEEL

SPECIFICATIONS

SIZE AND WHEEL LOAD

17" x 3.5" / 280kg

Options to fit various motorcycle models.

WEIGHT

3.57 kg



VALIDATION

Tüv



PLUG & PLAY

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

MATERIAL

Carbon fiber

CUSTOMIZATION

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.



TORSION FATIGUE LOAD PERFORMANCE

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



CORNERING FATIGUE LOAD HANDLING

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



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.

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



MODEL

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



FITMENT DETAILS

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

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.

INDUSTRIAL SCALE PRODUCTION WITH PATENTED TECHNOLOGY

C-INERTIA operates with a patented manufacturing process that ensures high-volume production capacity, allowing us to deliver significant quantities of carbon fiber wheels at an accelerated pace while maintaining rigorous quality standards. This innovative technology enables us to:



Rapid production timelines, ensuring quick delivery for high-demand orders.



Scalability, with the capability to produce significant quantities to meet large-scale OEM demands.



Consistency in quality through advanced automation and precision engineering.

Our production process is designed to support OEM partnerships, providing tailored solutions to meet specific technical requirements. The combination of speed, reliability, and cost-efficiency positions C-INERTIA as an ideal partner for large-scale industrial production.

We also have an in-house testing laboratory, equipped with multiple test benches, allowing us to conduct comprehensive development and performance tests. This capability ensures that our products meet the highest safety and quality standards, giving OEMs full confidence in the reliability and seriousness of our company.



C-INERTIA offers a dedicated range of carbon fiber wheels for the automotive industry, designed to deliver weight reduction, enhanced performance, and improved fuel efficiency, meeting the highest standards of safety and reliability.



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