



CHOPPED  
CARBON FIBERS  
MEETS WOVEN FABRIC

**YOUR SECRET WEAPON**

PRODUCT BROCHURE



WEIGHT  
SAVING



CERTIFICATION



SEAMLESS  
LAY-UP



3 - COMPONENT  
COMPOSITE



HIGH PRESSURE  
CORE



UP TO 70%  
ENHANCED  
INERTIA



RTM  
TECHNOLOGY  
RESIN  
TRANSFER  
MOLDING



CHOPPED  
CARBON  
FIBERS

# YOUR SECRET WEAPON



## ABOUT THE BULLET WHEEL



The Rotobox Carbon Fiber Wheels are ultra-light motorcycle wheels for racing and road application and an upgrade product to any model of motorcycle. Our wheels have been designed to meet the highest level of performance and due to one-piece carbon cast construction the wheels develop a safe and controlled advantage in speed, providing the lowest moment of inertia and the lowest gyroscopic effect. Rotobox Bullet carbon fiber wheels take things to another level: more riding performance, more design and more technology to accentuate the sportiest side of each motorcycle. Our R&D team was challenged to develop a new technology of solid spokes and a light alloy-like wheel design. The result is a unique, top performance, forged carbon wheel with a daring appearance. Your secret weapon that will get you in front!

## dotEJW COMPLIANCE

The wheels conform to the JASO T203-85 /ISO-8644 safety standard. They also passed all tests according to the TÜV Road Traffic No.287 standard, Section 30StVZO 2018 without preconditioning, according to testing procedures below.

FRONT 17"X3.5"	TEST	TEST LOAD	No. OF CYCLES
	Radial fatigue test	3533 N	3,000,000
	Cornering fatigue test	340 Nm	1,000,000
	Torsional fatigue test	471 Nm	1,000,000
	Impact test	400 kg	1

REAR 17"X6.0"	TEST	TEST LOAD	No. OF CYCLES
	Radial fatigue test	6180 N	3,000,000
	Cornering fatigue test	475 Nm	1,000,000
	Torsional fatigue test	967 Nm	1,000,000
	Impact test	420 kg	1

## COMPATIBILITY

Direct replacement for original wheels, except for rear symmetric wheel which use specific sprocket pattern, 5-hole M10 PCD 100mm ID 76mm.

## LIMITATIONS

	FRONT WHEEL	REAR WHEEL
Max. permissible static load	160 kg (353 lbs)	280 kg (617 lbs)
Max. permissible operating temperature	100°C (212°F)	100°C (212°F)
Max. permissible tire pressure	4 bar	4 bar

## BULLET SYMMETRIC WHEELS IN SIZE 17"X3.5"/6.0"



**FRONT:**  
2.72 KG (5.99 LBS)

**REAR:**  
4.06 KG (8.95 LBS)

**COMPLETE SET:**  
6.78 KG (14.94 LBS)

Including sprocket carrier, steel bearings, spacers, bushings, valve stems, cush drive rubbers, Titanium sprocket bolts.

Note: Weight may vary depending on fitment.



## BULLET CONVEX WHEELS IN SIZE 17"X3.5"/6.0"



**FRONT:**  
2.72 KG (5.99 LBS)

**REAR:**  
2.80 KG (6.17 LBS)

**COMPLETE SET:**  
5.52 KG (12.16 LBS)

Including valve stems and (in front wheel supplied) steel bearings, spacers and bushings.

Note: Weight may vary depending on fitment.



## TECHNICAL DESCRIPTION

### ULTRA THIN LAYER OF SPECIAL CLEAR COATING

The carbon cast is protected from radiation with a very thin layer of special clear UV protective coating. The rim surface is very clean, smooth and UV resistant and ensures our wheels zero notch effect on the surface.

### PENTAGON SHAPED HUB

The hub is locked into the carbon part with pentagon shape for ultimate transmission of torque.

### ANODIZED 90° ANGLED VALVE STEM

We use 90° angled valve stem to ensure air pressure resistance at high speed. Default color of valve stem is red, on request we provide also black, silver, gold, green or blue color option of valve stems.

### SOLID THIN SPOKES

To create solid thin spokes we use special carbon fiber yarn developed for military use. Because of the extreme mechanical properties of the fibers that we use (tensile strength 6000 MPa) and high density forging process, the cross section of spokes becomes small and compact.

### FLAT EDGE OF THE RIM

Due to our advanced technology variable, wall thickness is possible. That is how the flat edge of the rim is made. This feature contributes to cleaner design and better aerodynamic properties of the wheel.

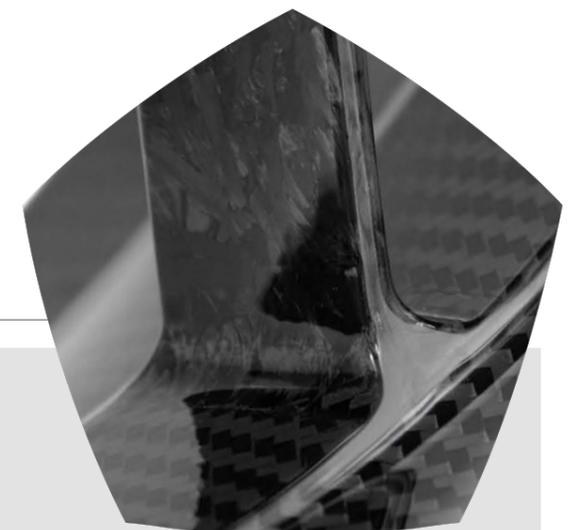


### ONE-PIECE CARBON CAST

New technology was developed to be able to combine woven carbon fabric, string and chopped fibers in one part. To be able to inject the resin into the highly compressed part, high pressure vacuum assisted resin transfer molding is used (over 20 bars RTM). The result is a unique, beautiful, high performance part with high grade repeatability and consistent production. With high stiffness and strength-to-weight ratio construction the wheel represents originality and it is raising the bar in technology of carbon fiber reinforced plastics.

### 3-COMPONENT COMPOSITE RIM

Produced using Rotobox's unique 3-component composite - combining carbon, epoxy and stainless steel. The stainless 2.5mm steel wire is integrated in each side of the rim increasing its impact resistance of the rim edge, yet keeps the rim edge ductile.



### CHOPPED CARBON FIBERS MEETS WOVEN FABRIC

Our unique technology enables combining chopped carbon fibers with woven fabric seamlessly in one-piece monocoque.



THERE'S NO BETTER PROVING  
GROUND THAN **RACETRACKS!**

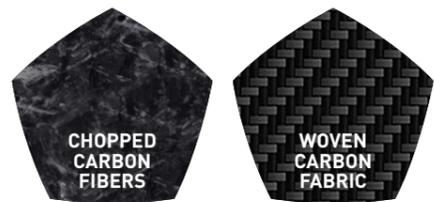


Yamaha Austria Racing Team  
Official ROTOBOX Testing Team



# PERSONALIZE YOUR BULLETS

Let your personality and style shine through in the design of your wheels. We allow you to personalize your wheels with your very own graphic. Additionally, you can choose between various colors of logo labels, valve stems, colors used for anodizing the centre parts of the wheel, as well as the transparency of coating - either glossy or matte. Dare to be different. **IT'S YOUR BIKE, RIDE IT YOUR WAY.**



## FULL CHOPPED CARBON WHEEL

Possibility to order complete chopped carbon wheel, not only the spokes, which are part of regular order.



## CHOOSE YOUR COLORS

We offer various color options for the ROTOBOX logo label and valve stems. The color possibilities for the logo are endless, while for the valve stem you can choose between red, blue, green, silver, gold, or black.

Color options for valve stems:



## CHOOSE TRANSPARENCY OF COATING

Depending on your taste, we can lacquer your wheels with glossy, saten or matte finish coating. Both options guarantee the highest level of protection from scratches, dents and UV rays. The glossy finish enhances the brightness of the carbon weaving, while the matte option enhances the natural look of the carbon fiber.



## OPTIONAL TRANSLUCENT COLORS



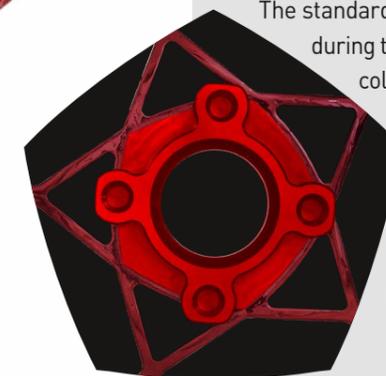
## DESIGN YOUR GRAPHICS

Based on your taste, you and the ROTOBOX Design Team can produce a unique graphic design of the wheel on the rim line area.

Choose your very own color combination and image and our ROTOBOX Design Team will create a graphic design tailored exactly to your imagination and desire. Your graphic is produced and printed on a special thin foil, which is hand placed on the carbon rim during the production phase and protected with a transparent coating finish.

## CHOOSE THE COLOR OF YOUR CENTER PARTS

The standardized center parts color is black. However, during the production process of anodizing, we can color all the center parts of your wheel according to your taste. You can choose between the following anodizing colors: red, blue, green, silver, or gold. Every color combination you choose guarantees an excellent hard surface and impeccable corrosion protection.

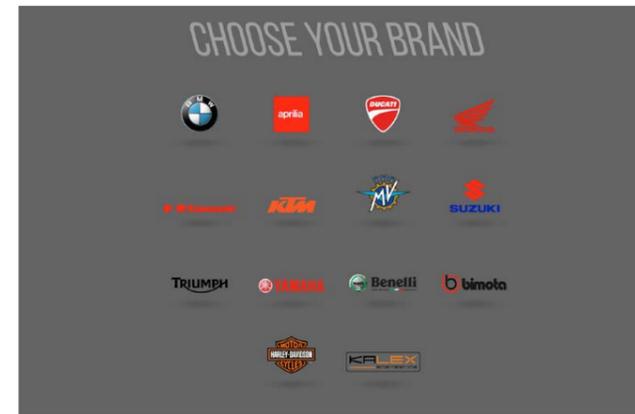
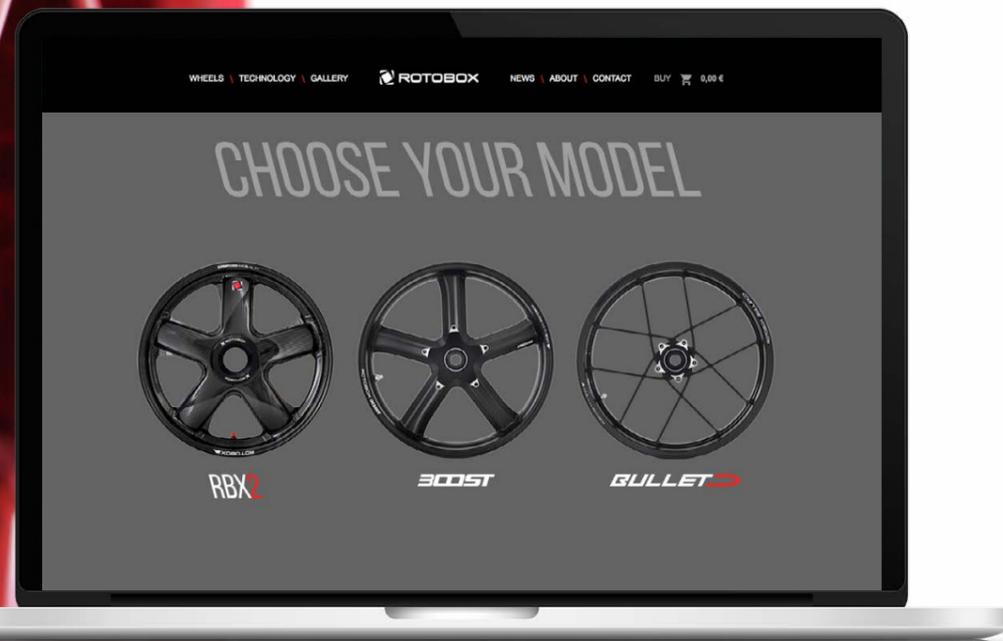


Color options for center parts:



# YOUR WHEELS. YOUR STYLE.

VISIT OUR WEBSITE FOR  
FULLY CUSTOMISABLE WHEELS



**STEP 1:** Find your motorcycle and model.



**STEP 2:** Choose your design of the rimline



**STEP 3:** Make your valves match your style.



**STEP 4:** Select hub colour.



**STEP 5:** You can select between matt or gloss finish and also between many translucent colors.





Designed by **Zadrga**

**ROTOBOX D.O.O.**

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