



TRULY THE LIGHTEST  
AND STRONGEST  
CARBON FIBER WHEELS





THERE'S NO BETTER  
PROVING GROUND  
THAN RACETRACKS!



Yamaha Austria Racing Team  
Official ROTOBOX Testing Team





ABOUT THE R O T O B O X W H E E L

The Rotobox Carbon Fiber Wheels are ultra light motorcycle wheels for racing and road application and an upgrade product to any model of Sport motorcycle. Our wheels have been designed to meet the highest level of racing performance and due to one-piece hollow carbon cast construction the wheels develop a safe and controlled advantage in speed, providing the lowest moment of inertia and the lowest gyroscopic effect.

The Rotobox wheels are **the lightest and the strongest carbon fiber motorcycle wheels**, due to use of premium materials and advanced technology. Our process of producing **one-piece hollow carbon cast** is an adaptation of high pressure Resin Transfer Molding technology to ensure the best quality, the continuity of the procedure and subsequent safety of our products.



R B X 2

RBX2 wheels in size: 17"x 3.5" / 6"



R B X 2  
C O N V E X

RBX2 Convex wheels in size: 17"x 3.5" / 6"



S A F E T Y

The wheels conform to safety standard JASO T203-85 for JWL dotE Certification. Before riding on public streets, make sure about conformity with local regulations.



C O M P A T I B I L I T Y

Direct replacement for stock wheels, except for the sprocket which must be replaced with specific sprocket, five-hole M10 on wheelbase diameter 100 mm for any chain 520, 525 or 530.

L I M I T A T I O N S



		FRONT WHEEL	REAR WHEEL
Limits:	Maximal allowable static load	150 kg (330 lbs)	250 kg (551 lbs)
	Maximal operating temperature	100°C (212°F)	100°C (212°F)
	Maximal tire pressure	4 bar	4 bar



## TECHNICAL DESCRIPTION

### ULTRA THIN LAYER OF SPECIAL CLEAR COATING

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

### HIGH ACCURACY OF CENTRE PARTS

The centre parts of the wheel include aluminium alloy 7075 T6 hubs, spacers and sprocket carrier. All parts are CNC machined at accuracy of  $\pm 0.02$  mm for each bike model specifically and designed to be direct replacement for stock wheels, except for sprocket.

### 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.

### VENTING HOLE

Each rim spoke has special venting hole placed on the bottom of the spoke to prevent from condensation.



### THE LOWEST UNSPRUNG WEIGHT

Unique design of the wheel yields the maximum output for each specific motorcycle model while significantly reducing overall weight for top performance.

### ONE-PIECE HOLLOW CARBON CAST

The shape, structure and dimensions of each wheel are defined by highly precised aluminium tool CNC made in-house specifically for a wheel design. Our process of producing one-piece hollow carbon cast is special high pressure Resin Transfer Molding technology to ensure the best quality, the continuity of the procedure and subsequent safety of our products.

### ANTI-SLIP ADHESION RIM TO TIRE

We apply special anti-slip compound on adhesion rim-tire area to prevent rotation of the tire during acceleration and breaking.

### RIM REINFORCED WITH STAINLESS 2.5 mm STEEL WIRE

For greater impact resistance of the rim we insert stainless 2.5 mm steel wire inside each side of the rim.



### ROTATIONAL AERODYNAMICS

Eliptical cross-section of spokes for lower aerodynamic coefficient during rotation.



### A RIB FOR TORQUE RESISTANCE

Each spoke of the wheel has a special rib to improve torque resistance.



# PERFORMANCE



## SAFETY FIRST

The construction of one-piece hollow carbon cast of the Rotobox wheel develop the safest and most controlled advantage in speed. Rotobox wheels are truly the first safe carbon wheels for motorbikes on the market.



## GO FOR BETTER RESPONSE

The Rotobox wheel gives great response, because of faster acceleration and better braking. This is a great advantage in turns allowing higher speed entering into the turn and faster accelerating after the turn. Rotobox wheel gives your bike clever performance.



## EMBRASE GREATER STIFFNESS

The Rotobox wheel has greater stiffness, because of the construction of one-piece hollow carbon cast. The wheel is produced with high pressured RTM technology, which ensures a clean, smooth and hard surface.



## SPEED IS THE GOAL

In seven years of intensive R&D work we have made the most powerful wheel for road and racing motorcycles. We are focused on Sport motorbikes, because when the bike uses Rotobox wheels it becomes at least 5 kg (11 lbs) lighter than stock and that is a huge amount of unsprung mass shaved from the bike; it is basically like adding some hp to the engine.

# ADVANTAGES



# WEIGHT COMPARISON

## STOCK OEM WHEELS

11.7 kg (25.8 lbs)

## BEST AFTERMARKET FORGED ALUMINIUM DOT E JWL WHEELS

9.5 kg (21 lbs)

## BEST AFTERMARKET MAGNESIUM DOT E JWL WHEELS

8.15 kg (18 lbs)

## BEST AFTERMARKET CARBON DOT E JWL WHEELS

7.4 kg (16.3 lbs)

## ROTOBOX RBX2 CARBON DOT E JWL WHEELS

6.7 kg (14.7 lbs)

Weight comparison for the set of Rotobox RBX2 wheels. Presented is the complete mass of the both rims without the sprocket and without the braking discs for the motorcycle BMW S1000RR.

# MOMENT OF INERTIA COMPARISON

## STOCK OEM REAR WHEEL

257000 kg/mm<sup>2</sup> (878 lbs/in<sup>2</sup>)

## BEST AFTERMARKET FORGED ALUMINIUM DOT E JWL REAR WHEEL

145000 kg/mm<sup>2</sup> (495 lbs/in<sup>2</sup>)

## BEST AFTERMARKET MAGNESIUM DOT E JWL REAR WHEEL

109000 kg/mm<sup>2</sup> (372 lbs/in<sup>2</sup>)

## BEST AFTERMARKET CARBON DOT E JWL REAR WHEEL

88000 kg/mm<sup>2</sup> (300 lbs/in<sup>2</sup>)

## ROTOBOX RBX CARBON DOT E JWL REAR WHEEL

72000 kg/mm<sup>2</sup> (246 lbs/in<sup>2</sup>)

Moment of inertia comparison for the rear wheel of the SUZUKI GSXR1000.



BREATHTAKING  
EVEN AT 0 KM/H.



## PERSONALIZE YOUR WHEEL



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.

### 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.

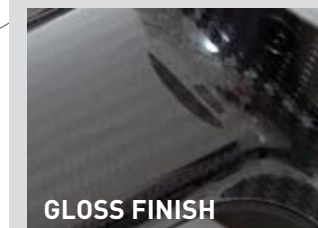


Color options for valve stems:



### CHOOSE TRANSPARENCY OF COATING

Depending on your taste, we can lacquer your wheels with a glossy 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.



GLOSS FINISH



MATTE FINISH

### DESIGN YOUR GRAPHICS

Based on your taste, you and the ROTOBOX Design Team can produce a unique graphic design of the wheel on various components:

- Rim Line Area
- Spokes
- Inner Rim Area

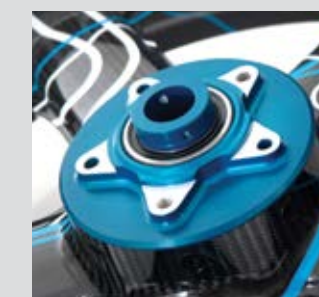
Choose your very own color combination and image and our ROTOBOX Design Team will create a graphic design tailored exactly to your imagination and desire. Your graphic is produced and printed on a special thin foil, which is hand placed on the carbon rim during the production phase and protected with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

### CHOOSE 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:







MY BIKE.  
MY RULES.  
MY STYLE.



