



FAST TRACK TO FUN

2025 PRE rCARBON PUSH BIKE

GIANT



PRE rCARBON

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There's never been a push bike like this. Crafted almost entirely from recycled composite materials, the Pre rCarbon has a superlight weight of just 2.5kg that makes it fast, fun and easy to push. The carbon chassis is paired with 12-inch carbon wheels that have a 3-spoke design and low-resistance hubs, along with 1.75-inch tires to help it glide smoothly along variable surfaces. A forward-leaning rider position allows for efficient push motion, and the steering geometry is slightly steeper for more agile handling.

Designed to be elegantly simple and durable, it features innovative one-piece recycled carbon components including a handlebar/stem unit, combined saddle/seatpost, and carbon wheels. Kid-friendly touch points include soft grips mounted on smaller diameter handlebars, an ergonomic, non-slip saddle and protective padding on the the stem. And the entire bike arrives 90% pre-assembled right out of the box.

EFFORTLESS INTEGRATION

The integrated design features a superlight, strong and durable frame crafted from recycled carbon material. The frame is paired with innovative one-piece components including the 12-inch, 3-spoke carbon wheels, stem/handlebar unit, and combined seatpost/saddle. By eliminating the need for most small parts, including spokes and screws, it comes 90% assembled. The user-friendly setup also includes an auto-aligned handlebar and fork along with built-in protective padding on the stem and handlebar ends.



SMOOTH, STABLE AND FAST

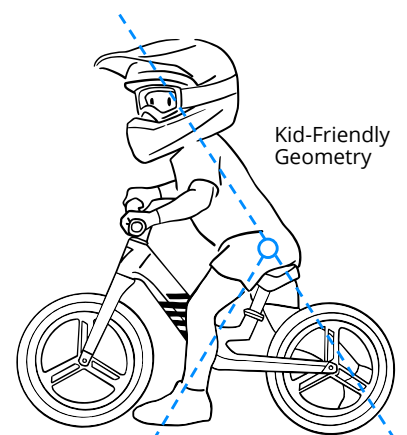
Designed with a superlight and incredibly strong carbon frameset, a low center of gravity, and geometry that puts riders in a forward-leaning posture for a natural, efficient push position, the Pre rCarbon combines confident stability with playful handling and speed. Its unique 12-inch carbon wheels use low-resistance hubs, and the 1.75-inch tires help it glide over bumpy roads and paths for a fast, fun experience that every kid loves.



PRE r CARBON

KID-FRIENDLY DESIGN

All the angles, geometry and touch points are designed specifically for smaller bodies and the unique dynamics of a push bike. The head tube and fork are adjusted to a slightly steeper angle to improve cornering, agility and quickness. The carbon handlebars have a smaller diameter and soft grips for a secure, comfortable hold. And the kid-sized saddle is ergonomically designed with a soft, non-slip material to ensure comfort during long riding sessions.





A PUSH FOR SUSTAINABILITY

The all-new Pre rCarbon push bike marks a major milestone in Giant's efforts to produce more eco-friendly bikes, components and gear using recycled materials and sustainable manufacturing processes. The frame, fork, wheels, handlebar/stem unit and seatpost are crafted with eco-friendly carbon fiber, making it the world's first push bike to use this proprietary technology.

In addition, the tires, grips, saddle and other components use recycled materials such as nylon made from discarded ocean plastics. It all adds up to a significant step forward in Giant's commitment to lead the bike industry toward more sustainable practices. Beyond the in-house innovations, Giant has partnered with trusted vendors producing recycled materials with proven performance.

The recycled materials used to produce the major components on the Pre rCABRON are rigorously analyzed and verified. As a result, in terms of carbon emission, the Pre rCarbon has a 50% lower carbon footprint than the same product made with virgin fibers and materials.

Next, look at some of the key materials and technologies in this cutting-edge push bike.

rCARBON

Carbon fiber is prized for its high strength and light weight, but the production of virgin carbon fiber is energy intensive. One way to lessen a product's carbon footprint is to use recycled carbon fibers. In the past, these recycled carbon fibers have primarily been used for simpler parts such as bottle cages, but Giant has now developed a groundbreaking innovation that uses recycled long-strand carbon fibers to produce frames. This process features a proprietary resin formula and 3D fusion compound with high-pressure, low-void molding. As a result, the Pre rCarbon benefits from the same increased strength and light weight as traditional carbon fiber products, while reducing its carbon emissions by more than 50%.*

RECYCLED
CARBON FIBERS
WITH rCARBON
TECHNOLOGY

LOW-VOID

RECYCLED
CARBON FIBERS
WITHOUT rCARBON
TECHNOLOGY

VOID

-50%

In material phase
carbon emissions

**The carbon reduction percentage is calculated by comparing the same weight of virgin materials and eco-friendly materials during the raw material phase.*

rTPR

Thermoplastic rubber (TPR) is a material with excellent wear resistance, elasticity, and chemical resistance. Discarded TPR can be recycled from post-consumer or post-industrial waste into a material that acts like both a thermoplastic and a rubber compound. This makes it injectable for molding components with excellent elasticity and durability, such as the grips found on the Pre rCarbon push bike, while also reducing carbon emissions of the raw material by more than 11%*.



rTPR

-11%

In material phase
carbon emissions

rPP

Polypropylene (PP) is a thermoplastic polymer with impressive heat resistance and strength, so it can be recycled and used many times. We source discarded PP from everyday products and industrial applications to turn it into saddles and other components made with recycled plastic. This reduces carbon emissions of the raw material that's used in the Pre rCarbon by more than 20%*.



rPP

-20%

In material phase
carbon emissions



**The carbon reduction percentage is calculated by comparing the same weight of virgin materials and eco-friendly materials during the raw material phase.*



-20%

In material phase
carbon emissions

rEVA

EVA (ethylene vinyl acetate) is a soft and flexible plastic that is not biodegradable. But recycling this material can significantly reduce the amount of waste entering landfills. By washing, crushing and reheating post-consumer or post-industrial EVA, we can create a thermoplastic polymer with similar performance properties as non-recycled EVA while reducing carbon emissions of the raw material used to produce the Pre rCarbon by 20%*.



SEAWASTEX

Made from discarded ocean plastics that get recycled into new, usable materials, Seawastex nylon helps reduce marine plastic waste. Once it's reprocessed, the material retains the strength characteristics of the original plastic and offers excellent chemical resistance and weatherability, ensuring durability that makes them ideal for products such as the tire casings used on the Pre rCarbon push bike. Using Seawastex this way reduces the overall carbon footprint of the raw material more than 11%* compared to virgin fibers of the same weight.



-11%

In material phase
carbon emissions

*The carbon reduction percentage is calculated by comparing the same weight of virgin materials and eco-friendly materials during the raw material phase.

PRE rCARBON

Combining lightweight agility, balanced geometry and efficient pushing speed, the Pre rCarbon introduces a host of new technologies that make it a one-of-a-kind push bike. Using recycled materials in the frame, fork, wheels and other components, it all adds up to an innovative step toward more sustainable performance.



TECHNOLOGY

1 LIGHTWEIGHT CHASSIS

The superlight and durable frameset is crafted with rCarbon technology that's seamlessly integrated with one-piece wheels, a sleek stem/handlebar unit and one-piece saddle/seatpost to achieve a weight of just 2.5kg.

2 PLAYFUL GEOMETRY

A lower center of gravity adds stability, while a forward-leaning rider position with steeper head and seat tube angles creates an efficient push motion and agile steering.

3 KID-FRIENDLY TOUCH POINTS

Smaller diameter handlebars with soft grips and an ergonomic, non-slip saddle provide comfort and control.

4 EASY SETUP

The bike comes 90% pre-assembled right out of the box and has an auto-aligned handlebar and fork to help make the setup process simple.

5 rCARBON

The frame, fork, wheels, handlebar/stem unit and one-piece saddle/seatpost are made from recycled long-strand carbon fibers and proprietary resin formula with a high-pressure, low-void molding process. It delivers the same super-strong, lightweight performance as traditional carbon fiber while reducing carbon emissions by more than 50%*.

6 rEVA

The saddle top is made with a thermoplastic polymer using recycled ethylene vinyl acetate (EVA) for a soft feel and long-lasting durability. Producing this material reduces carbon emissions by 20%* compared to non-recycled EVA.

7 rPP

The grips are made using discarded polypropylene, a thermoplastic polymer with impressive heat resistance and durability. Using this recycled material reduces carbon emissions of the raw material by more than 20%*.

8 rTPR

The grips also use recycled thermoplastic rubber (TPR), which offers excellent wear resistance and elasticity while reducing carbon emissions of the raw material by more than 11%*.

9 SEAWASTEX

Made from discarded ocean plastics that have been recycled into a reprocessed nylon material, Seawastex is used in the tire casings to deliver excellent durability while reducing the carbon footprint of the raw material by more than 11%*.

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FEATURES

- Integrated carbon frame and parts made with sustainable recycled materials
- One-piece components including wheels, stem/handlebar, and seatpost/saddle
- 12-inch, 3-spoke carbon wheels with low-resistance hubs and 1.75-inch tires
- Auto-aligned handlebar and fork
- Small-diameter handlebars and soft grips for small hands
- Ergonomic saddle design with soft-touch, non-slip material
- Light, durable frame with a total bike weight of just 2.5kg
- Lower center of gravity for stable ride and effortless balancing
- Forward-leaning rider position and natural arm extension for smooth push and glide motion
- Bumper zone protectors on stem and grips
- Slightly steeper head tube and fork angle for agile steering
- 90% pre-assembled out of the box

SPECIFICATIONS

Frame	Recycled carbon frame
Fork	Recycled carbon fork
Headset	Fsa no.8b
Handlebar	Recycled carbon one-piece handlebar/stem
Stem	Recycled carbon one-piece handlebar/stem
Grip	Giant ESG kids grip with rPP and rTPR
Seatpost	Recycled carbon one-piece seatpost/saddle base
Saddle	Recycled rEVA saddle
Wheel	12-inch 3-spoke recycle carbon wheel
Tires	Cst 12*1.75 with Seawastex casing
Extras	5mm hex key Recycled TPE protector pad



#RIDEUNLEASHED

