



## Tires in Our Society

Tires are the foundation of a vehicle, but in reality the part of a tire in contact with the road is only about the size of a postcard.\* This small area fulfills the fundamental vehicle functions—driving, turning, and stopping.

When it comes to tires, “peace of mind” is always on our mind. We have worked to earn the trust of our customers through the constant pursuit of performance and driver comfort in the tires that we make.

The Bridgestone Group delivers a wide range of tires to customers around the world. These include not only tires for passenger cars, light trucks, and trucks and buses, but also tires for aircraft, construction and mining vehicles, motorcycles, agricultural equipment, and industrial equipment. \* In the case of passenger tires

Since our founding, we have endeavored to answer a fundamental question: “What do customers want?” Moving forward, this question will be a key theme in our tire development initiatives, especially in regard to products that contribute to reducing our environmental impact. We will strive to contribute to a pleasurable driving experience by responding to the diverse and sophisticated needs of society.



### Reduction by 68%

After the original tread (part of the tire that touches the ground) is worn away, any remaining tread rubber is buffed away and a new precure tread is applied to the casing. Tires that have gone through this process are called retread tires. The Bridgestone Group contributes to resource conservation through its retread tires, which use two-thirds less raw materials compared to new tires. Retreading also contributes to reducing the number of tires scrapped by maximizing the life of the casing.

\* Source: Kosei Tire Zenkoku Kyogikai (JAPAN RETREADER'S ASSOCIATION)



### Zero Air Pressure

Even after a puncture causes complete air loss, runflat tires can be operated at predetermined speeds for a limited distance. Runflat tires allow the driver to drive the vehicle to a safe location, thereby avoiding dangerous roadside tire changes and eliminating the need for spare tires. As a result, runflat tires can also reduce the environmental burden of tire manufacturing and tire disposal.



### Temperature Variance of Approximately 300 Degrees Celsius

Aircraft tires are exposed to wide-ranging temperatures: down to -45 degrees C in flight and up to more than 250 degrees C during landing. They are often used in extremely harsh conditions, undergoing repeated takeoffs and landings while supporting the weight of the aircraft at high speeds. The production of aircraft tires requires advanced technical capabilities, not only to continually improve performance, but also to enhance abrasion resistance and reduce the weight of the tire.



### Tires with an Overall Diameter of Four Meters

The tires for 400-ton trucks used in open mines are among the largest in the world, with an overall diameter of about 4.02 meters and a weight of 5.3–5.6 tons. Advanced production technologies and large-scale specialized facilities are needed to manufacture these tires. As a result, there are only a few companies in the world that are capable of making them.