

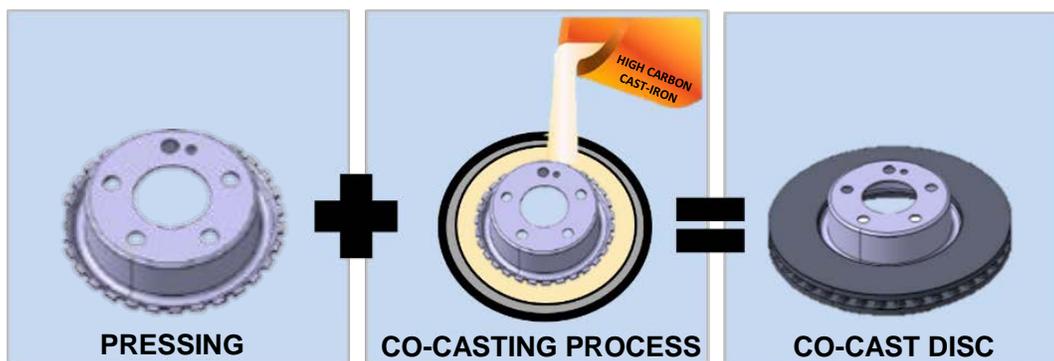


BREMBO'S CO-CAST BRAKE DISC RECEIVED A SPECIAL ACKNOWLEDGEMENT FROM THE INNOVATION GALLERY OF MOTORTEC

Brembo's brake disc for the aftermarket is an innovative solution that combines both lightweight and resistance

Brembo's co-cast brake disc has been specially acknowledged by the Innovation Gallery in the category of Maintenance Components. The disc has been added recently to the aftermarket range, and is made, to replace the composite discs which were introduced for the most current premium Mercedes applications, where Brembo is already the OE manufacturer, respecting the technical characteristics and performances, thanks to a highly innovative solution.

A steel hat is obtained through a pressing process and is then positioned in the mold during the casting before the liquid cast iron is introduced at a temperature of 1,400°C. It is subsequently connected to the braking surface as the cast iron solidifies around special steel teeth on the hat.



The result is a lightweight disc made up of a **high-carbon cast iron braking surface** and a **steel hat**, which are properly coupled during a special casting process that ensures perfect interchangeability with the original disc as well as **increased performance** and **reduced weight**.

Brembo co-cast disc has the following characteristics:

1. Resistant

The special conformation of the steel hat and its connection to the cast iron surface through casting enable unifying the two parts and the two different materials, while increasing the disc's resistance to thermo-mechanical strains.

2. Lightweight and drivable

The steel hat guarantees about a **15%** reduction in the weight of the disc, compared to an integral disc of the same size. Since the brake disc is part of the unsprung weight of the car, reducing the weight improves handling, which results in more precise and stable vehicle dynamics and ensures more driving comfort.

3. Low environmental impact

In recent years, environmental impact has taken on an increasingly important role.

The co-cast solution adopted by Brembo respects the environment by reducing the weight of the disc, which in turn ensures an increase in the available force and a **reduction in consumption** and **emissions** of the car.



4. UV-treated surface

The disc surface is coated with UV technology, a highly innovative, state-of-the-art option. By choosing to do this, Brembo guarantees a disc that is more resistant to corrosion, humidity and elevated temperatures. Plus, the UV coating is water-based and does not require solvents, which makes the coating process very efficient from the point of view of energy: it generates a saving of 98% in energy and CO₂-emissions.

For the new Brembo range - UNECE R-90 certified - special attention was paid to full compliance with the strictest requirements of **strength** and **safety**, by ensuring **equivalent performance** to the original product, in any driving condition.

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