



NEW BREMBO LIGHT BRAKE DISC CONCEPT

A 10-15% lighter brake disc - excellent results in terms of reducing fuel consumption and lowering the impact on the environment.

The new light weight brake disc, conceived by Daimler AG with Brembo's partnership proving to be fundamental in developing the product, is a partnership project which allowed the company to launch a product on the market with absolutely innovative characteristics.

Brembo, which has always been committed to advanced research in new technological solutions which respect the environment and aim to meet the increasingly stringent market requirements in terms of weight, has developed a disc that combines two different materials: cast iron and steel.

In fact, the most important advantage is drawn from the steel housing which is only 2.5 mm thick, as opposed to the 7.5 - 9 mm of a traditional cast iron housing, with the same performance. This significant reduction in weight produces a disc which, depending on the geometry of the housing, is 10-15% lighter: the larger the housing, the greater the weight reduction.

This new light brake disc concept achieves an important result in the search for weight reduction, allowing the vehicle to significantly reduce fuel consumption and consequently have a lower environmental impact: one of the musts in car component design.

The main contributory factor in Brembo's development was the design of the housing's gearing which was obtained by using precision sprocket technology found in the mechanisms in famous Swiss watches. This particular housing form also enabled us to successfully pass the severe mechanical resistance tests on the torque bench that Daimler required.

The new light weight brake disc will be the first Brembo product to be made all over the world since it will be produced simultaneously in its European, Chinese and American plants. This global production is made possible by the characteristics of the steel required to make the housing. These characteristics are the same everywhere.

For Brembo this new concept will represent a trend-setting innovation in terms of the materials used: steel combined with cast iron – aimed for a future Mercedes-Benz model range.

About Brembo SpA

Brembo SpA is the world leader and acknowledged innovator of disc brake technology for automotive vehicles. Brembo supplies high performance brake systems for the most important manufacturers of cars, commercial vehicles and motorbikes worldwide, as well as clutches, seats, seat belts and other components for racing. Brembo is also a leader in the racing sector and has won more than 200 championships. Today the company operates in 16 countries on 3 continents, with 22 production and business sites, and a pool of about 7,000 employees, about 10% of whom are engineers and product specialists active in the R&D. 2012 turnover is € 1, 388. 6 million (31.12.2012). Brembo is the owner of the Brembo, Breco, Bybre, Marchesini, and Sabelt brands and operates through the AP Racing brand.

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