

New Brembo ventilated brake disc for commercial vehicles with “star” pillars

Brembo presents a new ventilated disc for commercial vehicles, featuring pillars with a new “star” type of geometry and manufactured from special cast irons having a high carbon and low silicon content.

Key advantages deriving from the material adopted and from the new exclusive ventilation system:

- weight of the disc reduced by between 7 and 10%;
- lower operating temperatures;
- less risk of thermal shock, consequently less risk of failure;
- longer service life — pads and discs alike;
- increased active safety thanks to the special shape of the pillars, designed to halt the progression of any surface cracks in the disc.

Created and patented by Brembo, the new ventilation system with star shaped pillars considerably improves resistance to cracking that can occur on the braking surface.

These surface cracks are induced by heat and tend to spread further and further with increasing wear on the disc.

Thermal shock tests conducted by Brembo engineers and technicians have shown that, after 100 brake apply cycles, the length of cracks on vented discs with Brembo pillars is restricted to 8 millimetres, whereas on conventional discs with vanes, the cracks can extend to 31 millimetres.

This translates ultimately into increased safety of the brake system, and longer disc life.

With better dissipation of heat — which means lower operating temperatures — there is less stress on the pads, and these too will last longer.

The new disc is manufactured from special low-silicon cast irons, which also help to minimize noise and vibration. These metals are not easily obtainable in standard manufacture, as they require hi-tech production media and specific metallurgical know-how — both of which Brembo possesses.

Brembo SpA

Brembo SpA is the world leader and acknowledged innovator of the 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 only. Moreover, Brembo is also a leader in the racing sector and has won more than 200 championships. Today the company operates in 15 countries of 3 continents, with 36 production and business sites, and a pool of around 6000 employees, about 10% of whom are engineers and product specialists active in the R&D. 2010 turnover is € 1,075.3 million. Brembo is the owner of the Brembo, Breco, Bybre, Marchesini, Sabelt brands and operates through the AP Racing brand.

Stezzano, March 2011

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