

PRESS RELEASE  
Trade press



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## **Driving filtration for a clean world – MANN+HUMMEL at Filtech 2019:**

### **MANN+HUMMEL and Chassis Brakes International confirm effectiveness of brake dust particle filter**

Ludwigsburg, September 10, 2019 – Road traffic in cities is one of the main causes of fine dust pollution created by humans. A fact, which has not been widely known up to now, is that a large part of these particles is generated during braking. Every time vehicles brake, there is wear on the brake disc and pads and this creates fine dust. Up to 90 percent of this dust consists of fine particles, which can have a negative effect on the health of people.

In 2017 MANN+HUMMEL presented the concept of the brake dust particle filter and now the further developed product will be presented at this year's **Filtech in Cologne**. The passive brake dust particle filter made with non-woven metal fibers is fitted directly to the brake caliper and retains the particle emissions directly at the brake. The solution fits in almost any installation space and can be easily adapted to different brake sizes and concepts. The company has therefore registered considerable customer interest already before the start of the series.

In cooperation with development partner **Chassis Brakes International**, MANN+HUMMEL has now completed extensive pre-series tests. The tests confirmed the technical performance and robustness of the filter and the reduction of brake dust emissions. In the test center of Chassis Brakes International in Paris and the MANN+HUMMEL Technology Center in Ludwigsburg the filters were subjected to extensive tests. The tests focused on the three areas of strength and mechanical characteristics, temperature stability, and environmental conditions.

In order to examine the mechanical strength, for example, endurance tests were carried out with different oscillation, acceleration and vibration profiles. The temperature stability was confirmed with the aid of temperature shocks and trials high up in the Austrian Alps. In addition, the filters were subject to the impact of fine granules and large iron balls in order to test the influence of ambient factors such as stone chips.

The brake used in the tests from Chassis Brakes International is produced in series. Thanks to the easy integration of the brake dust particle filter, it was not necessary to modify the brake for the tests. This also enables a retrofit solution for the brake dust particle filter to existing vehicles. The tests confirmed the operational capability of the filter and indicated where there is further potential on the way to a series release. In addition to tests carried out on test benches and the validation processes carried out by MANN+HUMMEL, further coordinated vehicle tests are planned in future.

**Further information is available directly at the MANN+HUMMEL stand at the 2019 Filtech in Cologne. You will find us in hall xxx stand xxx.**

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**Press picture: MANN+HUMMEL's passive brake dust particle is fitted directly to the brake caliper and retains the particle emissions directly at the brake.**

#### **About MANN+HUMMEL**

*MANN+HUMMEL is a leading global expert for filtration solutions. The company group with its headquarters in Ludwigsburg, Germany, develops solutions for motor cars, industrial applications, clean air in interior spaces and the sustainable use of water. In 2018 the group achieved sales of approx. 4 billion euros worldwide with more than 20,000 employees at more than 80 locations. The products manufactured by the group include air cleaner systems, intake manifold systems, liquid filter systems, plastic components, filter media, cabin filters, industrial filters and membrane filters.*

*Further information about MANN+HUMMEL is available at <http://www.mann-hummel.com>*

