BRAKE DUST
Highly Precise Particle Measurement

Nanoparticles from vehicle brake wear are suspected to have negative health effects. To minimize these effects, the current European Union emission legislation is in the process of being amended to include non-exhaust emissions.

Based on the proven MEXA-2x00SPCS we developed a new brake dust measurement method for the highly precise particle counting (10 nm to 2.5 µm) in real-time with a measurement frequency of up to 10 Hz. This new option can easily be integrated into existing brake test systems and the STARS Brake automation software. In addition to the measurement of particle number (PN), options are available for the measurement of particulate matter (PM), particle size distribution and the elemental analysis of the particles.

FEATURES

• Specimen enclosure to prevent particle loss and improve measurement repeatability
• Proven reliability of test set-up and measurement process
• Measurement options available for PN, PM, particle size and elemental analysis
• Service offering for Brake Dust testing with extensive application and engineering know-how at Brake Test Center Floersheim a. M. (Germany)
KEY BENEFITS
Be Prepared for Upcoming EU Particle Emission Legislation

FLEXIBLE
» Easy upgrade of existing brake test systems
» Flexible use on various test stands
» Can be used as a stand-alone system or integrated into STARS Brake automation
» Brake Dust measurements integrated into conventional brake tests

EFFICIENT
» Based on proven emission measurement system
» High repeatability due to separate specimen enclosure
» Correlated data processing of brake test cycle and Brake Dust measurements
» Comprehensive approach with excellent expertise in both emission measurement and brake testing

FULLY AUTOMATED TESTS WITH STARS BRAKE