

Presented Paper at 2007 JSAE Annual Congress

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1. TITLE

Development and Production System for Homogeneous Brake Discs to Reduce Judder

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2. AUTHORS

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3. ABSTRACT

We studied the relationship between disc thickness variation (DTV) and casting material properties and clarified that the circumferential homogeneity of brake discs has significant effects on brake judder. We have established a development and production system for homogeneous brake discs to reduce judder by making the most of our integrated manufacturing system from R&D through production including in-house foundries. The developed system consists of the following elements: casting engineering to obtain homogeneous discs, original flake graphite structure index (K-FGI) to assure the homogeneity of our products, and accelerated wear tests on a brake dynamometer to estimate DTV growth potential.

4. CONTACT

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