

Presented Paper at 2009 JSAE Annual Congress

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1. TITLE

Increasing Thermal Strength by Using Homogeneous Brake Discs

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3. ABSTRACT

Today, weight reduction concerning global environment is one of the most significant issues in automotive industries. It, however, is difficult to replace the cast iron as disc material with others. We 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. Disc homogeneity also affects the thermal strength of brake discs, which will be increased by improved homogeneity. Applying the developed system for homogeneity, we can optimize brake disc's design for reducing its weight and contribute toward sustaining our global future.

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