

**Method for Reducing Vibration Generated by Rotating Machinery
of Railway Vehicle Carbody Using an Active Mass Damper**

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Railway vehicles use rotating machinery such as engines, motors and compressors. Vibrations generated by rotating machinery affect the ride quality of the passengers since the vibrations are transmitted to the floor of the carbody. In order to isolate these vibrations, rubber isolator generally supports the rotating machinery. However, depending on the mounting structure, it is difficult to obtain a sufficient vibration isolation effect in some cases. This paper proposes a method to reduce the vibrations by setting an active mass damper near the rotating machine for such cases.