

Roller Rig Dynamic Bench Test of Rail Brake using Linear Induction Motor

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We have been studying the rail brake using LIM (Linear Induction Motor). This brake system is capable of generating brake force without contact. In addition, the temperature rise of the rail can be decreased, and no on-board supply is required by using a linear motor. On the other hand, it is necessary to install this brake between front and rear wheels in the bogie. Then we have manufactured a prototype rail brake system and examined its electromagnetic characteristics in a roller rig dynamic bench test equipment. By this examination, it has been found that this linear rail brake system can be expected to be applicable in the practical use.