

Development of the Track-side Friction Moderating System to Low-rail of Sharp Curves

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RTRI has been developing a friction moderating system (FRIMOS) applied to the top of low rail for the last ten years, and this system was confirmed to markedly reduce squealing noise, corrugation growth in sharp curves, and improve vehicle running safety and track environment compared with other lubrication systems. Conventional FRIMOS is an on board system, therefore it is advantageous to lines with a large number of curves, but not efficient to lines with a few curves or through service lines. Taking these conditions into consideration, the authors are developing a track side FRIMOS and applying it to the RINKAI LINE. This paper describes the concept and setup of the above new system, as well as the results of track site measurements.