

## **Proposal of New Maintenance Standard Values of Track Irregularity for High-speed Type Turnout**

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Maintenance standard values for track irregularity at high-speed type turnouts where trains pass through the main line of the turnout at a speed of 120 km/h on a conventional line, are managed with stricter values than those for general turnouts. These values were empirically determined from past running tests. In this study, we constructed turnout running simulation models which enable us to quantitatively evaluate the effects of track irregularity on turnout component damage and vehicle dynamics, in order to establish new maintenance values on the basis of mechanical evidence. Furthermore, we carried out various studies on track irregularity using each constructed simulation model and proposed new maintenance standard values.