



Inspection system for internal and surface rail defects



Rail defect inspection field test



Rail defect inspection system

Phased Array Ultrasonic Testing (PAUT) inspection system is used to quantitatively determine the position, scope and direction of propagation of an inner rail defect. For a more accurate determination of the scope of the error, the rail is irradiated by phased array search units, each with different angles. The previous problems with defect detection in the dead zone are also now a thing of the past. The phased array ultrasonic testing also extends the life of the wedge. The Eddy Current Testing (ECT) inspection system is a multi-channel plus point sensor which is less sensitive to noise and lift-off. By applying an algorithm to determine the depth, width and length of the defect, surface errors on the rail head can be detected with greater accuracy. This inspection system gives the operator an optimal defect detection solution so that he can easily evaluate the condition of the rails.

Korea Railroad Corp

Subject to further change



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