

## **Rail Gas Pressure Welding Process without Using of Expert Skills**

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Gas pressure welding is commonly adopted for rail welding in Japan. This technique however requires specialist skills for the rail end surface grinding process and rail heating process using a burner. In consideration of prediction of a decrease in skilled welders, a new simplified and standardized gas welding method with minimal requirement of specialist skills has therefore been studied and, as a result, has been developed. This paper describes this newly developed gas pressure welding process, and the performance test results for the gas pressure welds prepared according to this process are also shown.