

RECENT DEVELOPMENTS OF HIP EQUIPMENT IN JAPAN

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The toll services have been increased in the recent Japanese HIP market. This trend leads to larger HIP equipment and shorter cycle times for productivity improvement. In addition, longer life cycle of pressure vessels are demanded to reduce the costs in conformance with the requirements of the relevant laws and regulations of Japan.

To meet such demands, the HIP equipment with a new rapid cooling system has been developed and the first product was delivered. This new cooling system ensures a rapid cooling rate while achieving the design life cycle by low design temperature of the pressure vessel.

At the development stage of the new cooling system, the numerical analysis of the heat flow during rapid cooling was conducted using new techniques including a real gas model and a new model for thermal insulator.

This article will introduce this new rapid cooling system and describe other related topics.

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HIP Process

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