## Development of Hydrogen Gas Injection Method for

# Promoting Decarhurization of Illtra-low Carbon Steel

## in RH Degasser\*







#### Synopsis:

Kawasaki Steel has developed a hydrogen gas injection method at the RH degasser for promoting the decarburization reaction of the ultra-low carbon steel in the range of a carbon content of less than 20 ppm. Hydrogen gas is

#### 2 Study of Decarburization Behavior of Ultra-low Carbon Steel in RH and Techniques for Promoting Decarburization

The decarburization reaction ( $\underline{C} + \underline{O} = CO$ ) in the ultra-low carbon region in the RH is considered to be mainly controlled by the mass transfer of carbon in the molten steel, and can therefore be appropriately described using a first-order equation for the reaction rate







