



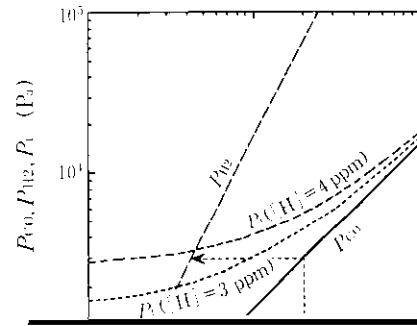
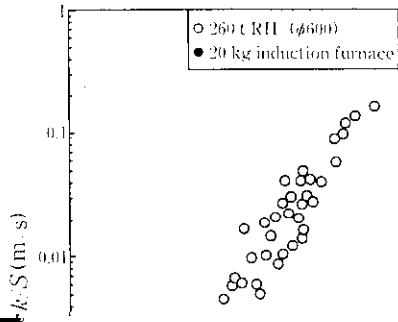
超低温鋼の脱炭素化促進のための

## Development of Hydrogen Gas Injection Method for Promoting Decarburization of Ultra-low Carbon Steel in RH Degasser



要旨

RH脱ガス装置において[C] < 20 ppmの極低碳素濃度域の脱炭素化促進のために、注口から水素ガスを吹き入る装置を開発した。この装置は、注口から水素ガスを吹き入ることで、脱炭素化を促進し、超低温鋼の脱炭素化を促進する効果がある。



norm./min以上、 $[H] \geq 3 \text{ ppm}$ の場合でも約 $0.9 \text{ m}^3\text{-norm/}$

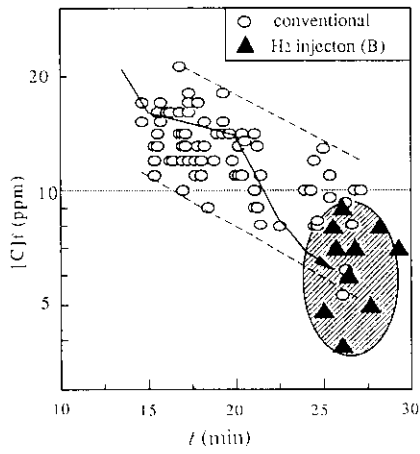


Fig. 6 Relation between final [C] and decarburization treatment time in H<sub>2</sub> injection method (B) and conventional method

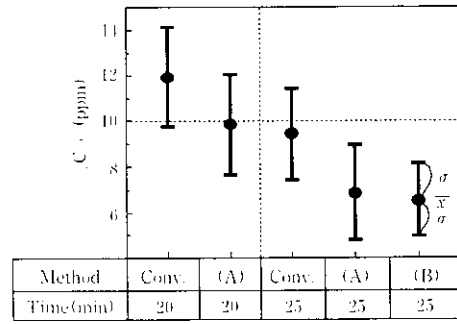
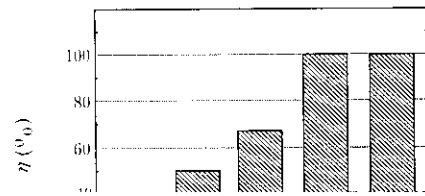


Fig. 7 Comparison of final [C] obtained by H<sub>2</sub> injection method (A) and (B) with those by conventional method



η (%) (A) 法では [C] < 20 ppm において 100% 程度が