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420 MPa and 500 MPa Yield Strength Steel Plates with High HAZ Toughness Produced by TMCP for Offshore Structures

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Synopsis:

Steel plates for offshore structures with satisfactory welded joint toughness were produced by both continuous casting and thermo-mechanical control processes. These plates were 101.6 mm thick with YP 420 MPa fo r large structures, 60 mm thick with YP 420 MPa for arctic use, and the 50 mm thick with YP 500 MPa. The chemical

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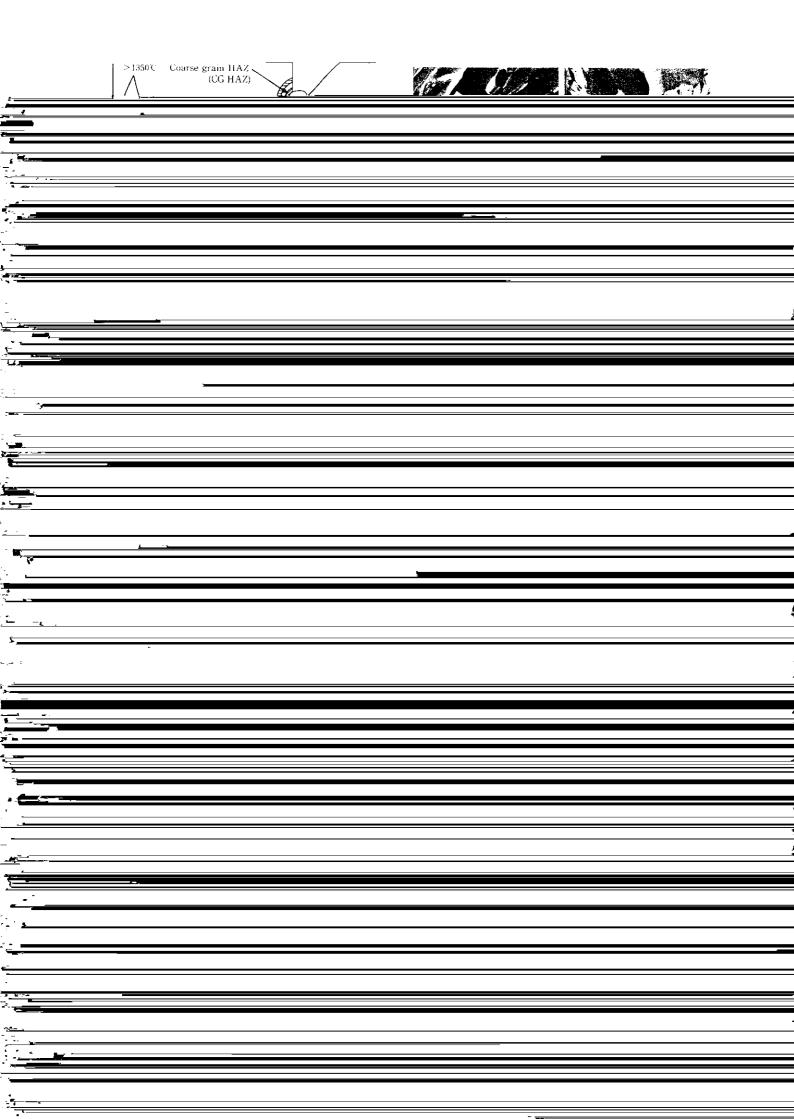


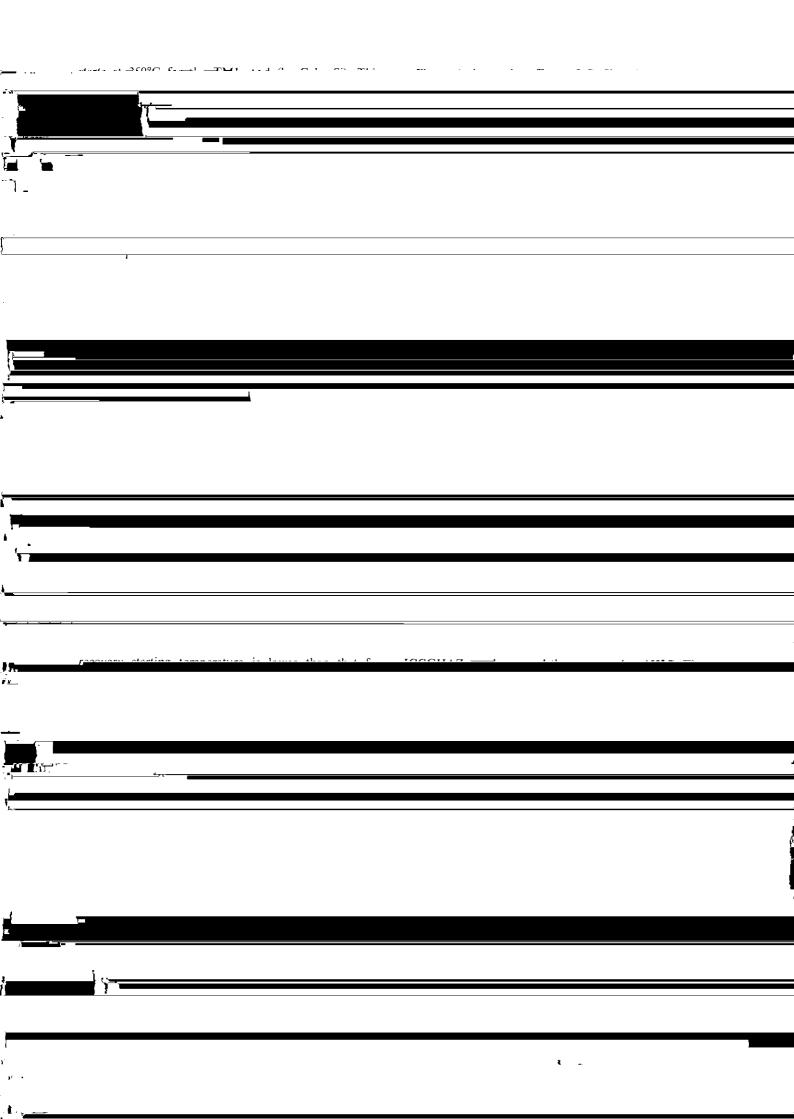


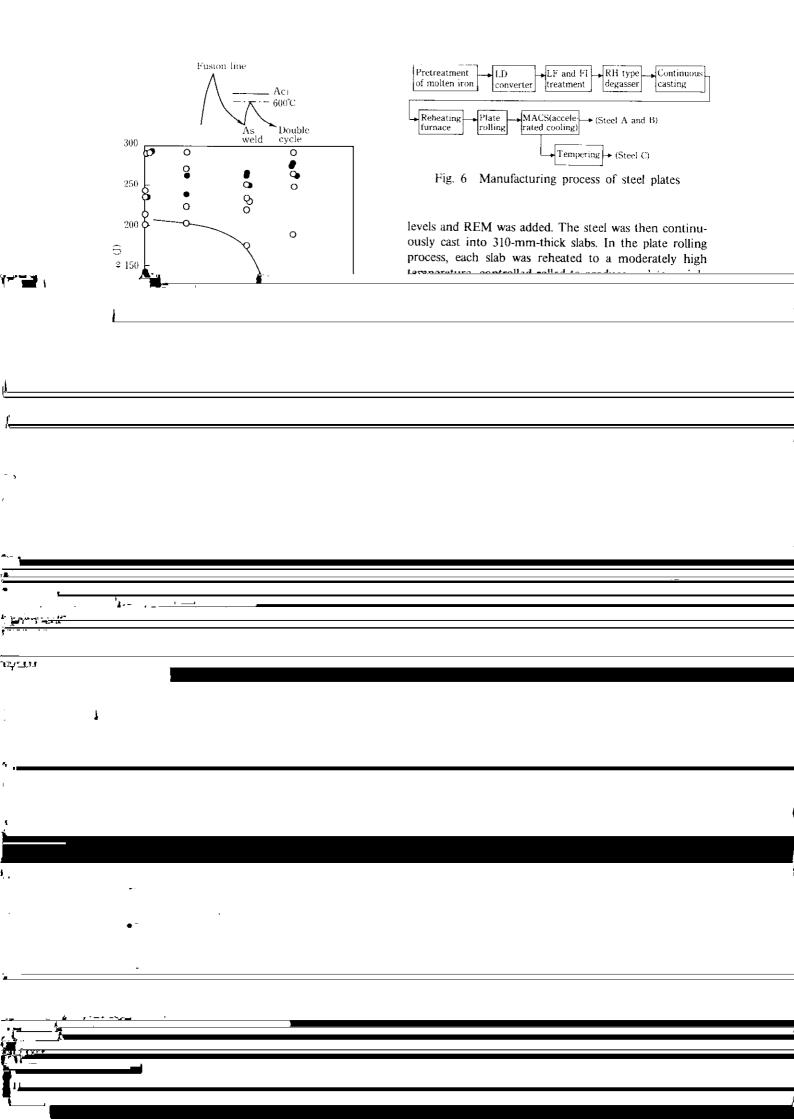
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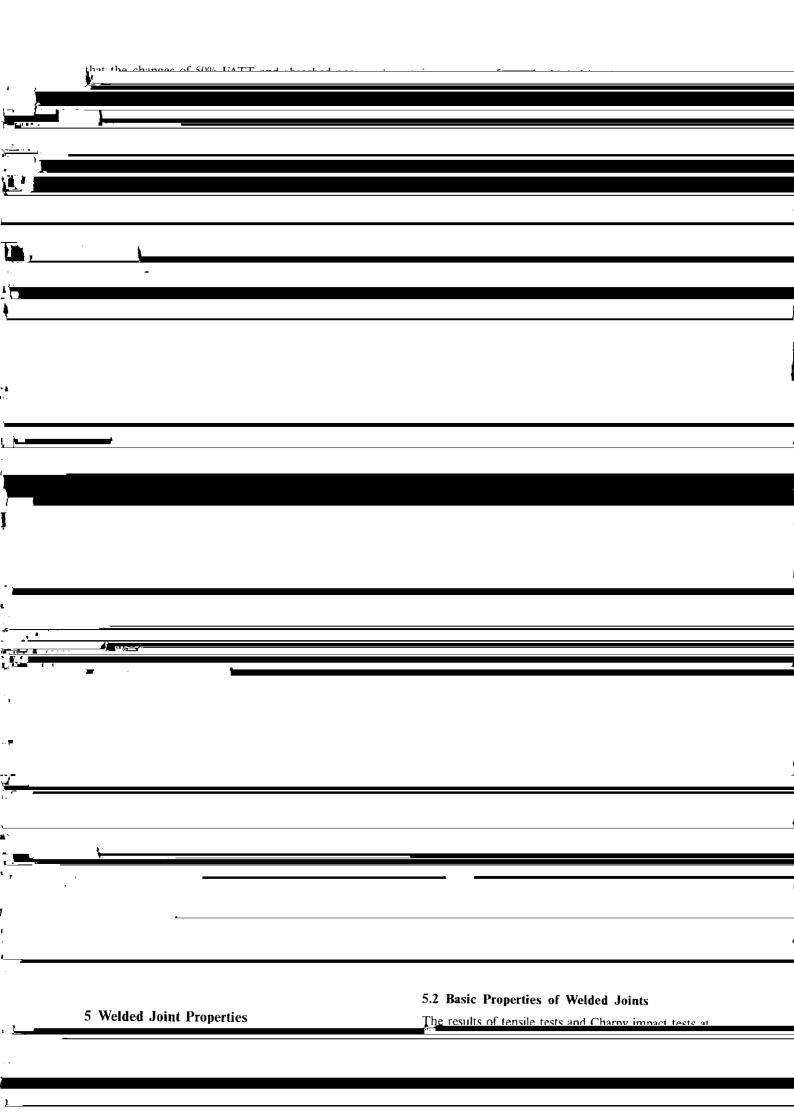


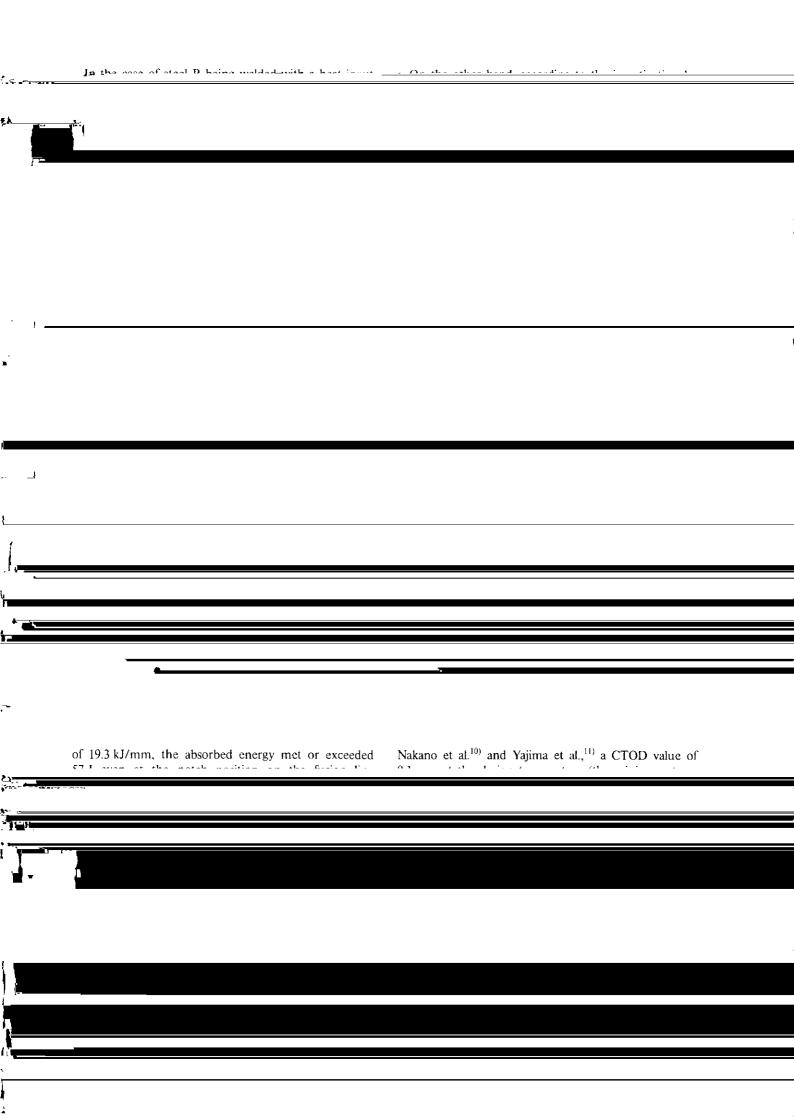


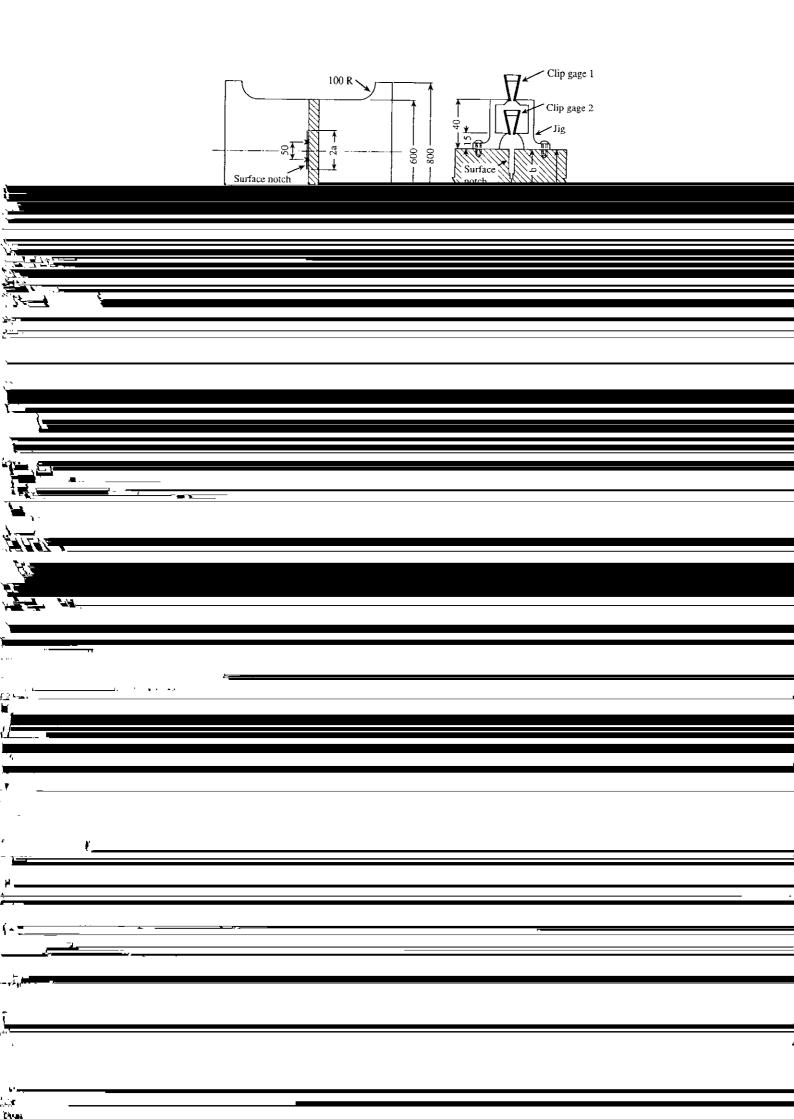
Steel	Thick- ness (mm)	25 <i>µ</i> m ├──

was investigated by the Y-groove cracking test specified in JIS Z3158.

The preheating temperature without cracking was lower than 25°C for steels A and B, and 25°C for steel







	6 Conclusions On the basis of fundamental studies to improve the	References 1) E. Kobayasi, S. Deshimaru, I. Hirai, T. Ogawa, K. Amano, and Y. Nakano: <i>Kawasaki Steel Giho.</i> 19(1987)2. 105-110
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