e d · ¾ m ^
KAWASAKI STEEL GIHO
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¾ 9 o ! 6 ¡ n x s - ¡ n m µ

Welding Materials and Technologies Expanding the Application of Steels

` ª U N (Koichi Yasuda) c Z j p (Tadamasa Yamaguchi)

¸ u :
¡ n V f 0 Á 8 6 [¨ { T ¼ 1 P / E M @ 9 q ¦ (Å & 7 5 0 a i) 6 e d · ¾ 1 v » 1 ¡ n x s Å ¡ n m µ 9 ° Q) 6 ¡ n x s 1 T ¼ , 2 Ä ² ¥ Å Ä] º 9 ® - 0 Å ¡ n ± l 1 « W ¤ k 9 z ~ 0 \ O ' * 6 ¡ n x s 4 ¡ n ? F C B 1 ¬ § ½ # ³ (% b / CO2 : M < ¡ n © A K C D L ; J Å | Y ¿ y 1 Ä ² ¥ _ R ¢ 1 F ? = G I M > : M < ¡ n t / . 9 À ¬ (+ ¾ ¿ x s 1 ¡ n k 0 Á) 6 m µ T ¼ , 2 Å ´ ¿ y 1 ¶ Ã S ¦ X Å Y ¿ y 1 Ä h g X 0 a i (+ ¡ n m µ / . 9 À ¬ (+

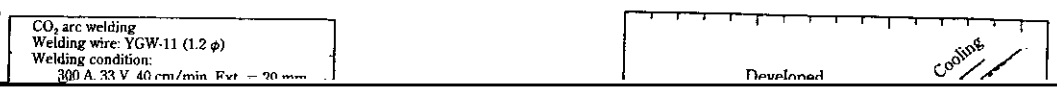
鉄を支える溶接材料と溶接技術*

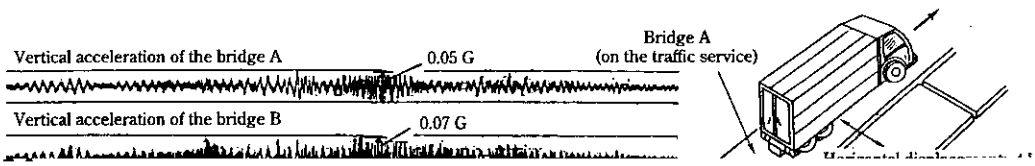
川崎製鉄技報
32 (2000) 3, 239–244

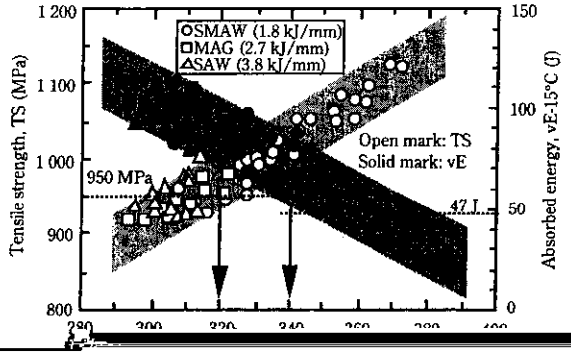
Welding Materials and Technologies Expanding the Application of Steels

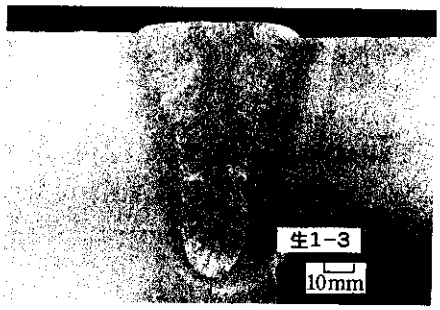
要旨

溶接加工に関わる各産業分野の主なニーズを整理し，これらに対応する川崎製鉄の最近の溶接材料，溶接技術を紹介する。溶接材料


5
CO_2 arc welding
Welding wire: YGW-11 (1.2 φ)
Welding condition:
300 A, 33 V, 40 cm/min, Ext. = 20 mm
Developed
Cooling


Vertical acceleration of the bridge A
0.05 G
Vertical acceleration of the bridge B
0.07 G
Bridge A
(on the traffic service)


SMAW (1.8 kJ/mm)
MAG (2.7 kJ/mm)
SAW (3.8 kJ/mm)
Open mark: TS
Solid mark: vE
950 MPa
47 J
Tensile strength, TS (MPa)
Absorbed energy, vE-15°C (J)
1 200
1 100
1 000
900
800
150
100
50
0


生1-3
10mm

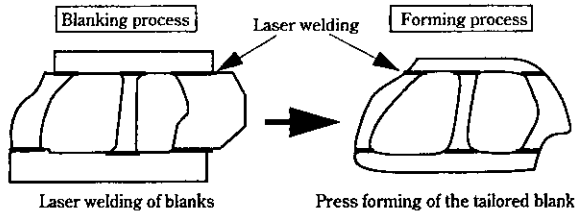
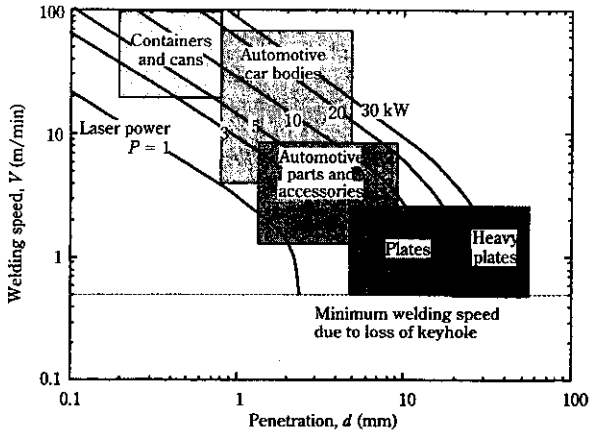


Fig. 9 Example of the press forming process with tailored blanking technology



による高能率サブマージアーク溶接方法の開発」，溶接学会全国大会講演概要，63(1998)，172

14) 池田倫正，安田功一，山口忠政，志賀千晃：「合金化亜鉛めっき鋼板