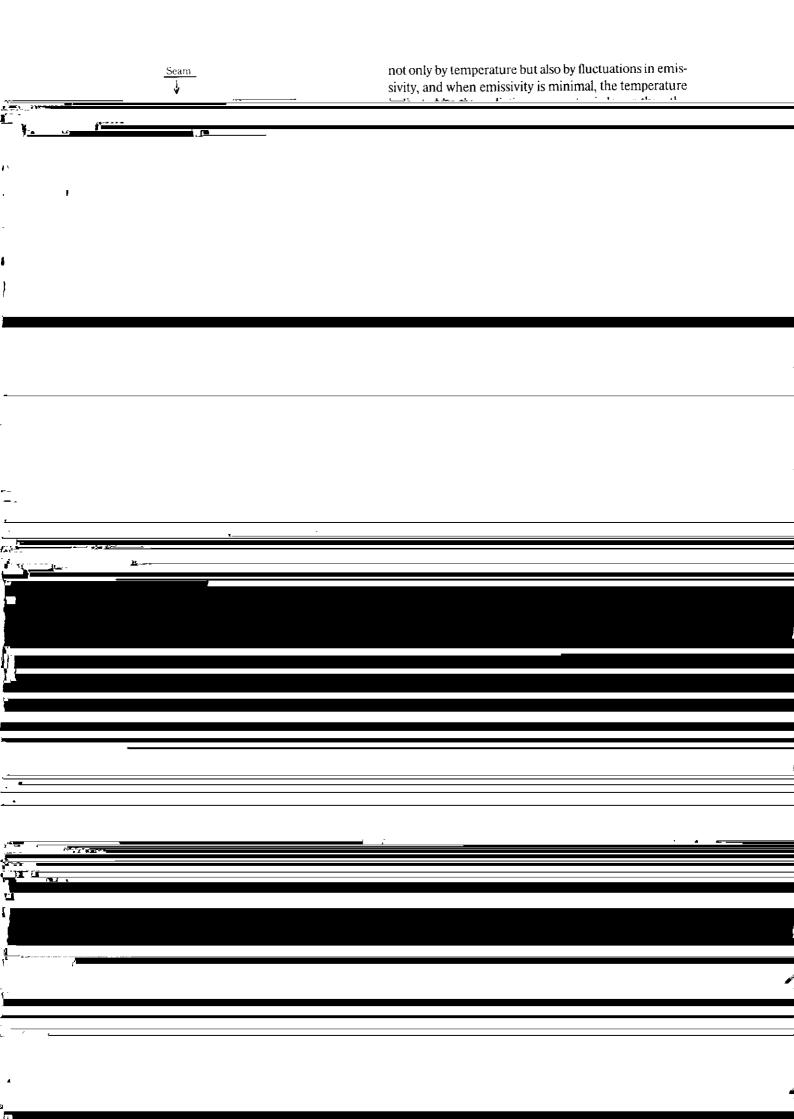
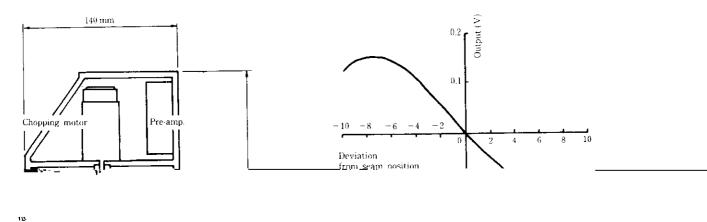


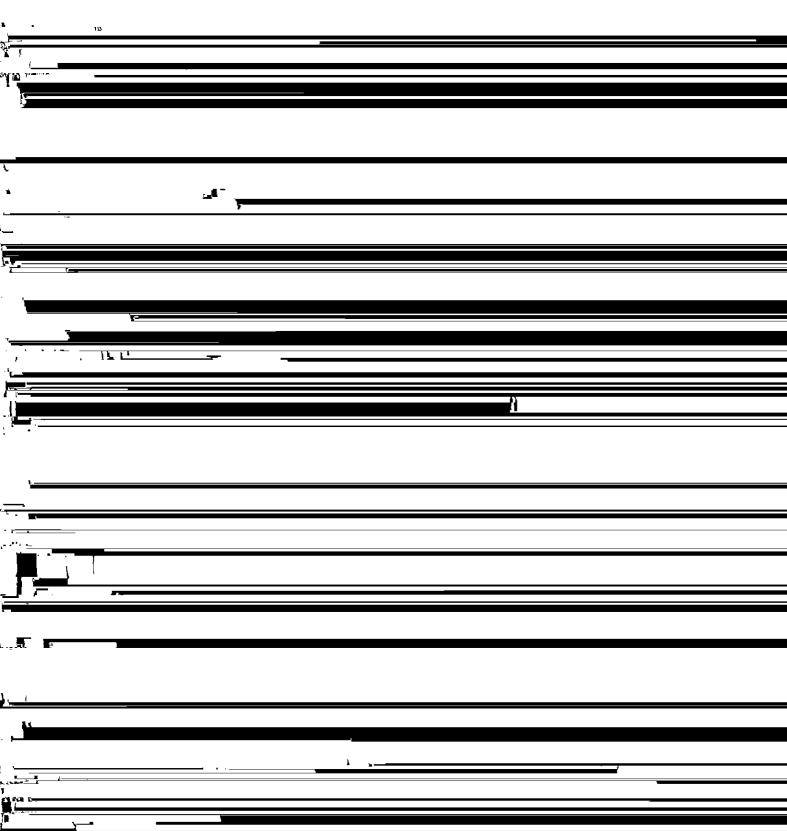
Fig. 1 Manufacturing process of ERW pipe

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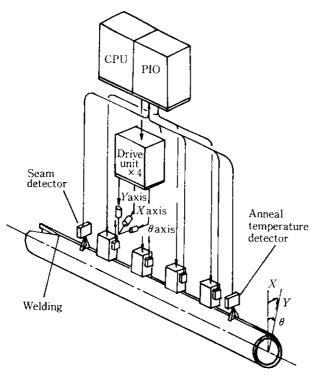


Fig. 9 Seam annealer control system using absolute seam position detector

Detector Standard position of heat Pipe Drive roll Absolute seam position detecting system installed in 26" ERW mill

Motor

Fig. 10

1 min Drive side Operator side -length of one coil-

constant value (500 mm). Since the pyrometer is of a rotery-scanning this prevents changes in dimensional

