

ABSTRACT

A misalignment calculation system comprising a misalignment calculator for calculating a misalignment amount occurring in butt welding of end portions of a first steel pipe and a second steel pipe by using profile data measured in a circumferential direction on the end portion of the first steel pipe by presetting a first angle datum, and profile data measured in a circumferential direction on the end portion of the second steel pipe by presetting a second angle datum, wherein the misalignment calculator calculates the misalignment amount in a state in which an angle formed between the first angle datum and the second angle datum is adjusted to an input angle and in which the center of profile data showing an external surface geometry at an end portion of the first steel pipe is aligned with the center of the profile data showing an external surface geometry at an end portion of the second steel pipe so that a misalignment occurring when performing butt welding can be quantified and evaluated.