

ABSTRACT



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APPARATUS FOR MEASURING DISTORTION OF CYLINDRICAL BODY

An apparatus for measuring distortion of a cylindrical body includes: a stationary straight rail provided on a flat surface; a cylindrical-body transfer mechanism for rolling the cylindrical body such that a peripheral surface of one end of the cylindrical body remains in contact with the stationary straight rail; a reference pole disposed at a position separated a predetermined distance from the cylindrical body in a direction perpendicular to the rolling direction of the cylindrical body; a laser scan micrometer capable of simultaneously scanning the top end of the cylindrical body and the reference pole by means of laser beam projected toward the rolling direction to thereby measure a distance between the cylindrical body and the reference pole; and a control section for processing measurement data so as to obtain radial distortion of the cylindrical body.

Figure 1



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