

ABSTRACT

DETERMINATION OF A MOVABLE GANTRY POSITION

5 The position of a working point relative to a working space, such as a working point of a carriage on a gantry beam of an XY positioning table, is determined by measuring at least two sets of displacements. A first set of displacements, of the working point relative to an intermediate component, such as the gantry beam, includes a relatively large displacement (X) in a first linear degree of freedom and
10 relatively small displacements (Y_1' , Y_2'), in at least two of the five degrees of freedom other than the first. The second set of displacements, of the intermediate component relative to the working space, includes a relatively large displacement (Y_1 , Y_2), in a second linear degree of freedom, and relatively small displacements (X_1' , X_2'), in at least two of the five degrees of freedom other than the second.

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Figure 3