

ABSTRACT

In an alignment stage, a top table 4a, which holds a work piece on which a moving load acts, is disposed above a base 1, and a supporting unit 13 each having three
5 degrees of freedom of X, Y, and θ and driving units 14A, 14B, 14C, and 14D, each having a one-axis direction ball screw linear motion mechanism 9 in addition to the same configuration as that of the supporting unit 13, are interposed between the base 1 and the top table 4a to be disposed at locations corresponding to the center and four corner
10 portions of the top table 4a, which are disposed in a zigzag fashion in a load movement direction L. The ball screw linear motion mechanisms 9 of the driving units 14A and 14B of diagonal positions on one side and the ball screw linear motion mechanisms 9 of the driving units 14C and 14D of diagonal positions on the other side are disposed to be at right angles to each other. A moving load which acts on the top table 4a through a
15 work piece while moving in the load movement direction L is continuously received by the respective driving units 14A and 14C, the supporting unit 13, and the respective driving units 14B and 14D, so that deformation of the top table 4a is suppressed.



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