

ABSTRACT

A split-type aerostatic bearing for supporting a moving table to move frictionlessly on a platform (4) is disclosed. The split-type aerostatic bearing includes an aerostatic bearing plate (6), air floating elements (2'a, 2'b, 2'c, 2'd) disposed on a bottom of the aerostatic bearing plate (6) and a vacuum pre-tightening structure (7) disposed on the aerostatic bearing plate (6). The vacuum pre-tightening structure (7) is coupled to the aerostatic bearing plate (6) in a split fashion. Separation of the air floating elements (2'a, 2'b, 2'c, 2'd) from the vacuum pre-tightening structure (7) prevents the aerostatic bearing plate (6) from bending under a vacuum pre-tightening force, and hence will not affect the air floating area.



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