CLAIMS

[Claim 1]

A stage device for a laser processing machine, including

a stage which has lower portions thereof on opposite sides in a horizontal direction supported on linear guides including a pair of guide rails and sliders, and is provided to be movable in a longitudinal direction of the guide rails, the guide rails being disposed in parallel with each other, the sliders being configured to be guided respectively by the guide rails to move along the guide rails, and

linear servomotors which move the stage along the guide rails,

wherein a linear servomotor with a core is used as each of the linear servomotors,

stators of the linear servomotors are disposed at outer sides of the guide rails at a higher level than the guide rails in parallel with the guide rails while facing the stage, and

movers of the linear servomotors are disposed on opposite lateral side portions of the stage at such positions as to face the stage sides of the respective stators, and facing surfaces of the stators and the movers are oriented in the vertical direction to generate the attractive force between the stators and the movers in the direction of cancelling out force which occurs when the stage bends downward in the center.