ABSTRACT

Provided is an automatic leveling method for a heating tray, comprising: determining whether the heating tray is parallel to the showerhead based on the distance information fed back by the sensors; when the heating tray is not parallel to the showerhead, calculating the current pose of the heating tray, and controlling the plurality of link rods to move to allow the heating tray to be parallel to the showerhead. The parallelism between the heating tray and the showerhead can be quickly adjusted, which is more convenient, faster, and more accurate compared to manual leveling, thereby ensuring the uniformity of thin-film deposition. Moreover, during the process, by adjusting the parallelism between the heating tray and the showerhead, the film thickness on a substrate can be adjusted, improving the uniformity of thin-film deposition.