

ABSTRACT

The present disclosure provides a furnace tube assembly and disassembly auxiliary device configured to support a furnace tube when the furnace tube of horizontal semiconductor equipment is mounted to a furnace body or is removed from the furnace body. The furnace tube assembly and disassembly auxiliary device includes a base configured to detachably be connected to a loading and unloading mechanism of the horizontal semiconductor equipment to cause the loading and unloading mechanism to drive the base to ascend and descend vertically, and a supporting body arranged on the base and moving along a first horizontal direction relative to the base. The supporting body includes a rolling support structure. The rolling support structure is configured to support the furnace tube, and the rolling support structure is roll-cooperated with the furnace tube to cause the furnace tube to move along a second horizontal direction. The second horizontal direction includes a predetermined angle with the first horizontal direction. The furnace tube assembly and disassembly auxiliary device has stronger operability for furnace tube installation and removal to reduce the difficulty in equipment installation and maintenance.

FIG. 1