

Abstract

The present invention provides a suspended drilling and bolt mounting system, including a main frame, where a sling is arranged on the main frame, supporting mechanisms are arranged on two sides of the main frame in a length direction, the supporting mechanisms are used for preventing a large shaking amplitude of the main frame in a lifting process, the supporting mechanisms are further used for fixing a position of the main frame during drilling and bolt mounting of the system, a wall supporting mechanism matched with a side wall of a shaft is arranged on a side, close to a to-be-machined surface, of the main frame, a drilling and bolt mounting mechanism is arranged below the main frame, and a driving mechanism used for driving the drilling and bolt mounting mechanism to move along an X-axis, move along a Y-axis and rotate along a Z-axis is arranged between the main frame and the drilling and bolt mounting mechanism. According to the suspended drilling and bolt mounting system provided by the present invention, a supporting mechanism, a wall supporting mechanism, a driving mechanism, and the drilling and bolt mounting mechanism are arranged on the main frame to be matched with each other, and a hole position perpendicular to the ground is drilled on the wall of the shaft, so that a position of a bolt driving into the hole position is accurate, the structural strength of a bracket fixed to an inner wall of the shaft is guaranteed, and the stability of a lifting apparatus is guaranteed.

[Fig. 1]