

ABSTRACT

Disclosed is a sliding structure matched between a standard section (1) and a jacking sleeve frame (2) of a tower crane, the sliding structure comprises the standard section (1) and the jacking sleeve frame (2), wherein the standard section (1) is of a space truss structure composed of four first main limbs (10) and supporting rod members, flange plates (11) are fixedly arranged on an upper end face and a lower end face of each of the first main limbs (10), each flange plate (11) comprises an end right-angle sliding block (12), and each end right-angle sliding block (12) is located outside of the cross section of a corresponding first main limb (10). An intermediate right-angle sliding block (13) is arranged between the upper end face and the lower end face of each of the first main limbs (10). The jacking sleeve frame (2) is of a space truss structure composed of four second main limbs (20) and a supporting rod frame, sliding ways (21) are fixedly arranged on inner sides of lower portions of the second main limbs (20), the jacking sleeve frame (2) is sleeved outside the standard section, and the jacking sleeve frame (2) matches the end right-angle sliding blocks (12) and the intermediate right-angle sliding blocks (13) on the standard section (1) by means of the sliding ways (21) so as to slide up and down. By means of the structure, sliding between the standard section (1) and the jacking sleeve frame (2) is more rational and smoother.

Fig. 1 for publication.