

Abstract of the Disclosure

A rolling mill with high precision in which its rolls are automatically supported in two dimensions at their mid-portions for controlling their flexures, comprising a housing, cluster of rolls and roll chocks. Said chocks consist of mid-chocks, side chocks which are horizontally sliceable and middle supporting means there between. In order to minimize the flexible deflection of the rolls during rolling, the rolling mill of the present invention is further provided with a bi-dimensionally mid-supporting automatic system, which is comprised of the housing, the chocks, a first mid-supporting means between the mid-chocks and the side chocks, a second mid-supporting means between the housing and the chocks, a third mid-supporting means between the housing and the side chocks. Said mid-supporting means comprise a screwdown means, horizontal supporting blocks, vertical supporting blocks and supporting blocks between the mid-chocks and the side-chocks. With such structure of the rolling mill, the flexible deflection of the rolls is significantly suppressed, thereby reducing the deviation of the rolled strips or plates in the cross-sections.