ABSTRACT

A laser welding device for large-diameter pipes includes a hanging unit which consists of two semi-circular pieces. A rotary displacement unit includes a gear. A welding unit includes a welding gun and a fixed base. The welding gun is connected to the fixed base, and the rotary displacement unit is connected to the fixed base. By hanging the hanging unit on a first workpiece, and butt-joining a second workpiece to the first workpiece, the rotary displacement unit drives the welding unit, enabling the rotary displacement unit and the welding unit to rotate circumferentially along the arc-shaped rack bars of the hanging unit to perform pipe welding.

Fig 2