

Method for producing bimetallic wear-resistant flat castings for the working parts of flour milling apparatus and mills involves heating metal blanks under a layer of oxygen-impermeable synthetic slag and pouring a working layer of weld metal onto the blanks in casting molds. After cleaning the working surfaces of the steel blanks and applying a protective oxygen-impermeable coating to them, the blanks are placed and secured in the horizontal plane of the casting mold cavity, which is installed inside a solenoid-type inductor. They are heated to a temperature of 1100 ± 100 °C under the influence of high-frequency electromagnetic fields. A rain-like pouring of the molten wear-resistant alloyed cast iron is performed until it appears in the cavity of the casting mold's spout.