

Technology of overlay laser welding of durable powdery into blade edge of miller

Zvezdin V., Hisamutdinov R., Rakhimov R., Israfilov I., Saubanov R.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. In this paper the laser welding technology features of wear-resistant powders on the hob's cutting edge with laser radiation (LR) focus positioning control are described. It is shown that the quality of the welding process depends on the processing regimes, the energy characteristics of the laser technological complex (LTC), the positioning accuracy of the LR focus and its perpendicularity relative to the plane of a router bit. In this paper we deal with the questions of stabilization of LTC parameters and LR positioning as well.

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