

The Research of Options for the Innovation Heat Treatment of the Tools for Coinage in Order to Increase their Lifetime

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This paper describes research in technology of the heat treatment for tool steel Böhler K455 designed for cold work. The aim of the research was based on operational experiments to draft procedures for heat treatment of the tools in a vacuum hardening furnace. Testing of two alternative methods and comparison of the state of microstructure and the mechanical properties with the current state of these indicators of dies quality will highlight the importance of introducing innovations to achieve higher lifetime of dies and the justification for the purchase of new technological equipment.

Keywords: coining dies, heat treatment, innovation, quality of properties, lifetime

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Paper number: M201656

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