
Simulation of the process of cross-wedge rolling of billet for crankshaft hot forging

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The article covers technological processes of crankshaft production using bending operation. It also describes a procedure of selection of cross-wedge rolling as a method of producing a preform. We used Qform program to model the preform wedge rolling process taking into consideration different friction conditions and to check adequacy of the formula to determine the friction on the contact surfaces of the tool.

Keywords: cross-wedge rolling, hot forging, crankshaft.

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