

The application of plasma-electrolysis boronizing of parts

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Abstract

© Published under licence by IOP Publishing Ltd. The article deals with methods of increasing the working capacity of parts due to the improvement of structural condition of the surface. There were analyzed the characteristic features of the borating method and plasma-electrolysis processing, the necessity for joint use of these methods. On the basis of the review the author suggests the application of plasma-electrolysis boronizing of parts. By increasing the working capacity of parts due to the improvement of structural condition of the surface by means of borating method and plasma-electrolysis processing, it is possible to use more rational application of alloyed materials for manufacturing various parts that have high physical and mechanical, operational characteristics, which is certainly actual for modern machinery production.

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