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# INFLUENCE OF TECHNOLOGICAL PROCESSING TECHNIQUES ON LOAD-CARRYING CAPACITY OF GEAR WHEELS

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## Abstract

We consider the main processing techniques of gear wheels of different modules and note the advantages and disadvantages of every method. The special attention is given to finishing operations (gear grinding, honing, lapping, burnishing). Due to these the surface layer microrelief is formed. Findings of the research show that the choice between the mechanical finishing or control processing operations depends on the purpose and precision of gear wheels.

## Keywords

Load-carrying capacity of gear wheels, technological processing techniques, surface roughness, surface layer microrelief

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