

SOFTENING OF HALF-FINISHED PRODUCTS FROM TITANIC LOW-ALLOY BY LASER ANNEAL

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Experimental researches of cold work's removal and formation recrystallized structures conditions by laser heating have shown an opportunity of passing these processes in a range of recrystallization temperatures titanic low alloys. Researches properties of the processed materials have shown that laser anneal application for local softening before shaping of half-finished products from metal alloys allows to increase accuracy of manufacturing of details, to reduce springing and bending radiuses.

Softening, low alloy, laser annealing, shaping, springing, bending radius, work hardening, recrystallizational structure

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