











It is established that when processing steels 30HGSA cutting force components reach the maximum value than when processing materials 40HN2MA, St. 45 and St. 3sp.

It is established that the strength and stiffness of the cutting Cupped cutter is sufficient for processing optimal cutting conditions:  $n_{sp} = 1000$  rpm;  $S = 0.42$  mm/rev;  $t = 1.0$  mm.

Modern methods used in scientific and industrial practice for modeling processing processes, created on the basis of computer and analytical studies should be accompanied by additional experimental researches.

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