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Izvorni znanstveni članak

Influence of specific pressure on cutting power and wood removal by disc sander

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[Puni tekst \(Engleski\) Str. 5 - 11](#) (pdf, 780.01 KB) downloads: 533

Sažetak

This paper presents the testing results of experimental measurements of cutting power during sanding of natural and modified beech wood depending on the value of specific pressure of 0.66; 0.84; 1.04; 1.47 N-cm⁻². The sand discs with a diameter of 150 mm and grit size of 40, 80 and 120 made by the firm SIAFAST (Germany) were used in this experiment. The measurement was carried out on experimental equipment designed by the Department of Woodworking at the Technical University in Zvolen. The highest values of wood removal at the cutting speed $v_c = 4.57 \text{ m}\cdot\text{s}^{-1}$ in transverse direction were at the grit size 120 and the lowest at 40 for natural beech wood, as well as for hydrothermally treated wood. The influence of hydrothermally treated wood on the value of wood removal is the least important in terms of significance (unit pressure, grit size, hydrothermally treated wood).

Ključne riječi

sand disc; specific pressure; wood removal; cutting power; grit size; grain direction

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