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[Drvena industrija, Vol.57 No.1 Kolovoz 2006.](#)

Izvorni znanstveni članak

**Investigations of cutting power versus clearance of a circular saw blade over the workpiece and feed speed**

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[Puni tekst \(Engleski\) Str. 13 - 17](#) (pdf, 605.67 KB) downloads: 899

#### Sažetak

This paper presents the results of experimental measurement of cutting power in sawing spruce wood (soft wood) by circular saw as a function of clearance and feed speed. Two kinds of circular saw blades made by the company Pilana (CZ) were used for the experiment. The measurement was carried out on the test stand designed at the Department of Woodworking of the Technical University in Zvolen. The results have shown that the feed speed proved to be the most significant factor having impact on energy demand in the process of cutting, the second most significant factor was the clearance of circular saw over the workpiece, while the saw blade type (with the same geometry) had the lowest impact on the cutting power.

#### Ključne riječi

circular saw; power cutting; clearance; feed speed



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