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Abecedni popis časopisa

Časopisi po područjima  
Prirodne znanosti  
Tehničke znanosti  
Biomedicina i zdravstvo  
Biotehničke znanosti  
Društvene znanosti  
Humanističke znanosti

Uredništva  
Prijava novog časopisa



Croatian Journal of Forest Engineering, Vol.28 No.1 Ožujak 2007.

Izvorni znanstveni članak

### Morphological characteristics and productivity of skidder ECOTRAC 120V

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#### Sažetak

This paper presents the results of morphological analysis of the Croatian skidder ECOTRAC 120V, as well as the research of its productivity features in timber skidding from hilly terrain after preparatory felling and from mountainous terrain after selective felling. Morphological analysis was used for determining the dependence of morphological features of the skidder ECOTRAC 120V, as well as for establishing its belonging to the skidder's family. The characteristics of the researched skidder are small width relative to length, due to the requirements of its manoeuvrability in timber skidding on skid roads of up to 2.5 m in width, and higher engine power relative to skidder mass. Such considerations give justification for morphological analyses, because they provide the possibility of observing development trends of machines, as well as ways of finding the right design solutions for meeting the requirements for their use.

The comparison of two working sites in the research of productivity of skidders clearly shows that productivity primarily depends on harvesting density (working time at the felling site) and skidding speed, and that in this case a considerable difference in the size of the load is not a key factor of productivity in timber skidding.

#### Ključne riječi

skidder ECOTRAC 120V; morphological analysis; timber skidding; daily output; unit cost



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traži

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