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Croatian Journal of Forest Engineering, Vol.29 No.1 Lipanj 2008.

Prethodno priopćenje

### Application of RFID (Radio Frequency Identification) in the Timber Supply Chain

**Sven Korten**; Chair of Forest Work Science and Applied Computer Science Technische Universität München

**Christian Kaul**; Chair of Forest Work Science and Applied Computer Science Technische Universität München

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#### Sažetak

This paper deals with the use of Radio Frequency Identification (RFID) in the timber supply chain. A distinction is made between the use in motor-manual and highly mechanised timber supply chains. A technical specifications profile is elaborated for both types. As a result it can be summarised that the use of RFID in the timber supply chain is technically feasible. In motor-manual harvesting, it was possible to mark the logs with RFID tags manually. Several tag types could be read out at all stations between the forest and timber industry. A RFID tag-fixing device for harvester heads was developed for the use in highly mechanised timber harvesting. Thus it was possible to attach RFID tags automatically to the logs. Automatic reading of tags during loading processes for skidding and transportation could also be realised. The tag-fixing device and the antennas that were developed are preliminary models. For the practical use of RFID technology in the timber supply chain, further research is necessary for the development tag design and fixing and reading methods.

#### Ključne riječi

timber supply chain; logistics; RFID; tag-fixing device; log identification; technical requirements



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