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## **ENGINEERING SERVICE OF MACHINERY FOR FORESTRY WORK IN FORMATION OF SEATS CLEARINGS**

*Tanaś Wojciech, Doctor of Technical Science, Professor  
University of Life Sciences in Lublin, Lublin, Poland*

In the forestry sector of our country a considerable part of lacoultre Fund is cutting. Despite many years of experience of tree-planting works, the problem of recovery of the forest clearings remains one of the most difficult tasks in forestry.

The basis for the rational recovery of forest plantations on clearcuts is to prepare the soil, providing optimal conditions for the survival and growth of seedlings and saplings of forest species. It is necessary to create optimal water regime on drained soils, to prevent excessive entry of moisture to the root system of plants in waterlogged soils to reduce competition from herbaceous vegetation.

Reforestation of clearings expensive process. The most energy-and labor-intensive when applied to current technology based on continuous linear execution of all types of work, is the grubbing of stumps and preparing the soil for planting. Moreover, the preliminary band or continuous grubbing of stumps is a prerequisite to ensure the mechanization of the following technological operations.

Existing domestic and foreign experience shows that to reduce material and labor costs, to reduce to a minimum the harmful environmental effects of the use of mechanized methods for preparing seats, and at the same time to increase the level of mechanization of technological operations, is possible if you follow the path of the wide use of machines and tools of discrete.

In this case, is not required lane clearing and logging slash areas located in the plains, and in mountain forests does not reduce the fertility of the soil, virtually eliminates the risk of water erosion, etc.

More positive results can be obtained if done with the same setup at the same time preparing the ground and planting seedlings and saplings, for example, with closed root system.

To implement a discrete method of producing seats designed design universal gruntovogo guns with a combined working body, designed for mechanical preparation of discrete seats in micropaving (in areas of temporarily waterlogged soils) or micropolitan (for areas with drained soils), the formation of holes for planting of seedlings and saplings of forest species with the closed root system.

Development of new design universal gruntovogo work requires research related to the definition and optimization of the parameters of the combined working body, which ensures formation of discrete seats.