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The Influence of Teeth on the Earth-Working Processes

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The new experimental program of laboratory tests was presented, performed in a soil bin on cohesive soil. Model tools in a shape of an excavator's bucket equipped with teeth of different geometry were used in that study. The change in geometry simulated different subsequent stages of material wear. The experimental verification of the influence of teeth (number of teeth, and the position of teeth on the bucket's inside lip) on the efficiency of the digging cycle is discussed. Three different types of soil samples (dense, medium dense and loose) were used.

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