



Prototype to collect vineyard pre-pruning biomass

Currently, in general basis, vineyard pruning from the pre-pruning and pruning operations are burned in the field or chipped and integrated into the soil. The prototype developed by Serrat Trituradoras aims to trigger a change on the pre-pruning operational mode by means of the innovation based on a new system which integrates the pre-pruning system and the collection of the biomass produced, a higher size reduction and storage in a container or trailer that will allow to later on valorize this resource. The final prototype has been developed based on previous prototypes that have been improved.

Based on the results achieved on the field trials carried out, in which the prototype was attached to the vineyard pruning machinery, the quantity of material collected after the pre-pruning reached 75 % therefore only 25 % of the material is left on top of soil or between the wires. The average operating speed is around 1.15 ha/h. The product obtained shows a moisture content of 45 % and a bulk density around 205 kg/m³(wb).

The equipment selling price is approximately around 20,000-30,000€. Considering the average productivity and taking into account the depreciations, service companies could sell the product at around 36€/t. If only the new equipment depreciation is taken into account (not the vineyard pruning machinery) the selling price could range around 11€/t.

The new equipment developed can significantly contribute to increase the sustainability and profitability of vineyards.



KEY WORDS

Integrate agricultural operations, vineyard pruning, biomass collection

COUNTRY/ REGION

Spain

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ABOUT BRANCHES

BRANCHES is a H2020 “Coordination Support Action” project, that brings together 12 partners from 5 different countries. The overall objective of **BRANCHES** is to foster knowledge transfer and innovation in rural areas (agriculture and forestry), enhancing the viability and competitiveness of biomass supply chains and promoting innovative technologies, rural bioeconomy solutions and sustainable agricultural and forest management.



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