



Realizarea și experimentarea unui utilaj complex pentru prelucrarea solului în benzi, semănat și fertilizat

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Sustainable agriculture requires application of a complex measure system to determine soil preservation, to decrease energy consumption.

On this line of studies it is the present paper which shows the main aspects regarding design, realisation and testing by the research team of a complex equipment which realise at only one pass manufacture in stripes of the unploughed soil, sowing and fertilization.

The complex unit is made by horizontal rotary hoes sections, precision sowing machine and fertilization sections which incorporate in soil.

At the testing of these fertilizers' equipment was establish the working quality indexes, power and exploitation ones, it was establish that the equipment corresponds from the functional and agrotechnical point of view and indexes are in according with the impose demands.

The complex equipment main advantages are: keeps soil preservation by an important decrease of manufacture area, by compaction decrease due to the small number of passes and by increase of structural units' hydro-stability; the equipment determinate decrease of energy consumption and increase productivity.