STUDIES ON THE CONSTRUCTION AND FUNCTIONING OF MACHINES FOR FERTILIZER DISTRIBUTION

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SUMMARY

The researches were made on the machine of fertilizer distribution MA 3,5, which has a capacity of 3,5 m$^3$. It is used for transport and spreading solid chemical fertilizers. It is tracted by tractor U 650 and is actioned from the power prize of tractor and from the right support wheels.

This machine is formed of frame with catching equipment, bin, distribution equipment, transmision and mechanisms of adjustment and getting in function.

The metal frame is supported by 2 pairs of wheels with tires, which afford a big mobility during work to the machine.

The distributor is of centrifugal type, formed of a horizontal disc with 6 pallets with adjusted position. Above the disc is found an adjusting channel which conducts the material brought by the transporting band to the distributor.

In the paper are presented the researches made with the adjustments of this machine, such as: the adjustment of the quantity of distributed material depending on the ha doze realized through the change of section of evacuation window with the shut off valve; the adjustment of speed of transporting band through changing the transmission report between the motion wheel of machine and that of motion axe of transporting band; the adjustment of pallets on the distribution disc from the medium position through the oval holes depending on the distributed material; the adjustment of supplying channel from above the distribution disc for a proper distribution from it and the disc wall.

All these researches were made in order to improve the parameters of functioning of this machine, so that our agriculture to be competitive with that of European Union.

REFERENCES