



Study of stability in work for tillage aggregates

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In this paper there is shown the importance of stability in work for tillage aggregates from the point of view of work quality and fuel consumption necessary for work completion.

There are analysed, from the point of view of stability in work, the classic ploughing aggregates as agricultural milling cutler and aggregate plough – agricultural milling cutler, accentuating the way in which the soil reaction over socket-rod can be influenced.

Value of socket-rod pressure over the vertical furrow wall must be optimized, because a bigger value for this force leads to friction force increase and to the destruction of the vertical wall, while a smaller value leads to the aggregates instability in work.

From this point of view the aggregate made of plough and milling cutler carries through all the stability conditions and plus, (in case of rotation of the rotor from soil surface to bottom of furrow) helps to the aggregate motion.