

Mechanization for conservation soil cultivation and direct seeding

VADERSTAD and Massey Ferguson – seeders for direct seeding and machinery for conservation soil cultivation: Top Down multitiler, Cultus gruber, Carrier shallow drill for stubble exfoliation.

Low income in field crops production during last several years sets new standards in the acquisition of new technologies and in their justification. The need of work operation rationalization is imposed in order to make the profit.

The focus of new technologies application in cereals seeding is set on work operations reduction, on decreasing the number of working machines and working hours spent and on application of new standards in environment and soil protection.

By introducing the conservation soil cultivation system, the advantages from agricultural point of view are: moisture conservation, less soil tamping, smaller number of walkthroughs, soil structure preservation, equal growth in short period of time even with significant lack of precipitation, favorable water-air soil regime and enhancement of mechanical characteristics of the soil.

From agro-economic point of view, there are significant savings in working hours, seed, fuel and shortening of technological production line. All of that directly makes possible the profit increase through investment savings, but also indirectly, through soil quality enhancement and so potentially improves the income.