

¹ R&D TRACTORS FROM ASPECTS OF ERGONOMY AND DESIGN

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Abstract

Research is done with goal to define ways of development and going with latest trends in domestic tractor manufacturer developments. Average mileage of agriculture mechanization in our country was 20. to 25. years in two last years. Today, thankfully to certain stimulation and benefits from Serbian Government average mileage is from 15. to 20. years of age. However our country has manufactures of tractors and agriculture mechanization with long term experience and tendency in development, its own goal is to increase level of research and development in all organisations, which will lead to gaining higher technical and technology level. Course of research in world in last 10-15. years, are drifting to development of tractors which include ecological, safety, economical, efficiency and influence of tractor manufacturer in better expense towards to customers. The results of this research are modern products and according to that new standards and directive which tractor manufactures must be accomplish. Aim of paperwork is to show the most important fields and directions in research and tractor development as ergonomics and design. Beside that it will be given elemental view in conditions in this field in our country and possible directions of developments.

Key words: tractor, design, ergonomics.

ISTRAŽIVANJE I RAZVOJ TRAKTORA SA ASPEKTA ERGONOMIJE I DIZAJNA

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Rezime: Istraživanje je rađeno sa ciljem da se definišu pravci razvoja i osavremenjavanja traktora domaće proizvodnje. Prosečna starost poljoprivredne mehanizacije u našoj zemlji do pre dve godine kretala se između 20 i 25 god. starosti. Danas se zahvaljujući određenim podsticajima i olakšicama vlade ona nešto poboljšala i kreće se između 15 i 20 god. Obzirom da naša zemlja ima proizvođače traktora i poljoprivredne mehanizacije sa dugogodišnjom tradicijom razvoja i proizvodnje, potrebno je i podići nivo istraživanja i razvoja u ovim organizacijama, čime bi se i proizvodi ovih organizacija podigli na viši tehnički i tehnološki nivo. Pravci istraživanja u svetu zadnjih 10-15 god. kreću se ka razvoju traktora koji uključuju očuvanje čovekove okoline, bezbednost, ekonomičnost,

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efikasnost i uticaj traktora kao proizvoda na korisnika-operatera. Rezultati tih istraživanja su savremeni proizvodi i novi standardi i direktive koje proizvođači traktora moraju da zadovolje. Cilj rada je da prikaže najznačajnije oblasti i pravce u kojima se rade istraživanja i razvoja traktora kao što su ergonomija i dizajn. Osim toga biće dat osvrt na stanje u ovoj oblasti u našoj zemlji i pravci mogućeg razvoja.

Ključne reči: traktor, dizajn, ergonomija.