
ANALYSIS OF INFLUENCE OF WHEEL MOVER STRUCTURAL CHARACTERISTICS ON SUPPORT-COUPPLING FLOTATION ABILITY OF VEHICLE

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The article gives a comparative analysis of the main types of wheel movers used on vehicles of high flotation ability. We analyzed the most common types of wheel movers such as toroid tires of adjustable pressure, high flotation tires, arch tires and pneumocytes. The comparison is justified by well known geometrical and structural characteristics of these movers. The paper identifies the main operational properties and characteristics of tires, describes the main advantages and disadvantages of each one. As a result, we give recommendations on using specific types of pneumatic tires on vehicles and indicate supporting surfaces on which the usage of these tires is the most effective. We provide a summary table providing basic information on the design of the types of wheel movers under consideration.

Keywords

Wheel mover, vehicle, analysis, toroid tire of adjustable pressure, high flotation tire, arch tire, pneumocytes, supporting surface, flotation ability

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