CONSTRUCTION OF FRICTION DAMPER
WITH VARIABLE DAMPING FORCE REGULATION

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ABSTRACT

Article describes shortly the role of friction dampers in construction of drum type rotating machines based as an example on the classic domestic washing machine. The phenomenon of force transmission between rotating drum and device chassis was also included. The applicability of friction force dampers with variable force regulation has been also described in order to adjust the optimal amount of attenuation force based on actual working condition of device. Articles presents author’s design friction damper with variable damping force using electromechanical method based on the DC motor. The force transmission analysis in designed construction has been presented and the method of force controlling has been proposed.

Keywords: damper, vibration, washing machine