LOADS IN THE COMPLETELY ENGAGED OPERATION FOR SAFETY CLUTCHES WITH BALLS AND SPHERICAL ACTIVE RABBETS RADIALLY DISPOSED

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Abstract: *Safety clutches with balls are frequently used in machine-tools transmissions, farm implements, technological equipments and so on, due to the accuracy of the transmitted torque limitation and of their reliability. To avoid engaging shocks, the obtaining of a surface contact between the balls and the active rabbets is followed. In this paper, the authors present a new solution of safety clutch with balls and spherical rabbets radially disposed. The paper also analyses the loads on the active elements of the clutch during the completely engaged operation.*

Key words: *safety clutch with balls, completely engaged operation, variation of torque.*

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