



2013, Volume 371, pag. 158-162

Simulation of the Pressing Process with Combined Forces by Using ABAQUS Software

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<https://doi.org/10.4028/www.scientific.net/AMM.371.158>

Abstract

Actual for machines building is it the problem of finding technological solutions to increase the quality of parts, increase productivity and save resources. Greater interest in it shows the materials that incorporate a range of mechanical proprieties. In this category it is joining metal powder as material, and parts thereof, which occupies a significant share in parts manufacturing having improved and special proprieties. The present work is carried out simulating metal powder pressing process by application of combined forces. To describe properties of metal powder was used Drucker-Prager cap model.