THE EFFECT OF INDUCTOR SYSTEMS ON THE EFFICIENCY OF MAGNETIC PULSE FORMING

Central Design Bureau “Progress”

The paper presents the results of investigations related to the realization of efficient technology of magnetic pulse working. Higher process efficiency is due to the optimization of energy transfer in a discharge circuit and the transformation of pulse field pressure into deformation work and blank kinetic energy. The basic expressions that make it possible to determine the amount of losses of energy stored in the system’s capacitors as it is transformed into blank deformation work.

Pulse magnetic fields, forming, inductor systems, overload factors, part deformation

Kirilin, Alexander Nikolayevitch, general director, doctor of Technical Science, professor, Central Design Bureau “Progress”.

Palamartchuk, Yuri Yefimovitch, head of department, Central Design Bureau “Progress”.

Vershigorov, Vyacheslav Mikhailovitch, Deputy General Director for General Matters, Central Design Bureau “Progress”.