Multibeam Pulsed Accelerator for Electron Beam G.V. DOLBILOV, **Processing** System, A.A. FATEEV. G.I. DOLBĬLOVA, I.N. IVANOV, N.I. LEBEDEV, A.V. MAZHULIN, I.M. HOKHLOV, JINR (DUBNA); V.A. PETROV, T. RUSKOV, INRNE (SOFIA); P. GORANNOV, TU (SOFIA) -Electron Beam Processing is widely used in a variety of applications: modification of industrial goods, surface treatment, sterilization, environment protection, and so on. This report describes the design and experimental study of prototype of a Multibeam Pulsed Accelerator for EB-Processing. The accelerator produces an electron beam with the energy up to 200 keV, the peak current up to 1 A, the pulse duration about 10 microsec. and the repetition rate of 18 kHz. The electron pulses are produced by a cold pyrolitic cabon mosaic cathode with a threshold volt-ampere characteristic.