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This paper deals with the methods used for efficient de-sign of multipurpose modern pistons that were developed by public “AVTRAMAT” corporation. Some consideration is given to identification of computation results for strained and stresses state of piston using the method of finite elements and experimental data. Application of the inverse problem of elas-ticity theory while designing the components for internal com-bustion engines is reviewed. Il. 3. Bibliogr. 10 names.