

**CONTRIBUTII PRIVIND STUDIUL ASPECTELOR TEHNICO-ECONOMICE LA
PRELUCRAREA COMPONENTELOR AUTO PE MASINI-UNELTE CU COMANDA
NUMERICA**

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ABSTRACT

Teza de fata a fost realizata in vederea imbogatirii studiilor de specialitate privind aspectele tehnico-economice la prelucrarea componentelor auto pe masini unelte cu comanda numerica, fata de prelucrarea pe masini unelte clasice si cuprinde 8 capitole, 153 pagini, 41 tabele, 38 figuri din care 4 grafice , 326 relatii si 39 titluri bibliografice, dintre care la 8 doctorandul este coautor.

Lucrarea trece in revista stadiul actual si perspectiva fabricarii componentelor auto in Romania, avantajele fabricarii componentelor auto si tehnologiile actuale de fabricare a componentelor auto.

Din punct de vedere stiintific, lucrarea aduce contributii cu privire la modul de studiere a rezultatelor obtinute din calculul aspectelor economice la prelucrarea componentelor auto pe masini unelte clasice, comparativ cu prelucrarea pe masini unelte cu comanda numerica.

Din punct de vedere practic, prezenta teza de doctorat completeaza literatura de specialitate cu calculul concret al aspectelor economice ce reies in cazul prelucrarii unor repere auto pe masini unelte clasice si pe masini unelte cu comanda numerica.

In concluzie, teza de doctorat ofera o baza pentru calculul fezabilitatii unor investitii in vederea prelucrarii componentelor auto, cat si a altor produse, de serie mare si de masa, pe masini unelte cu comanda numerica.

**CONTRIBUTIONS TO THE STUDY OF TECHNICO-ECONOMICAL ASPECTS RELATED TO
AUTOMOBILE COMPONENTS MACHINING ON NUMERICAL CONTROL MACHINE TOOLS**

DOCTORAL THESIS- Eng. Adrian Alexandru Breazu

ABSTRACT

This thesis is aimed at enhancing the specialized studies on the technico-economical aspects of automobile components machining on numerical control machine tools, as compared to machining on classical machine tools, and includes 8 chapters, 153 pages, 41 tables, 38 figures, out of which 4 graphs, 326 relations and 39 bibliographic reference titles, the graduand being a co-author to 8 of them.

The work surveys the current stage and perspective of automobile components manufacture in Romania, as well as automobile components manufacture advantages and current technologies in use.

From a scientific point of view, the paper makes its contribution to the modality of studying the results obtained from the calculation of the economical aspects of automobile components machining on classical machine tools, as compared to their machining on numerical control machine tools.

Practically, this thesis comes to complete the specialized literature with the concrete calculation of the economical aspects resulted in the case of machining automobile components on classical machine tools and on numerical control ones.

In conclusion, the thesis provides a basis for the feasibility calculation of various investments with a view to machining automobile components, as well as other products, of large serial and mass production, on numerical control machine tools.