MANUFACTURING PROCESS OF AUTOMOTIVE SHEET METAL PARTS WITH COMPLEX SURFACES

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Rezumat. *Lucrarea are ca obiectiv analiza proceselor care au loc pentru realizarea pieselor de configurație complexă din industria auto și prezentarea fabricației unei astfel de piese.*

Abstract. *The work-paper focuses on the analysis of the processes that take place for the realization of complex configuration parts in the automotive industry and the presentation of the manufacturing process of the part.*

Keywords: Process, Complex configuration, Manufacturing, Automotive parts

1. Introduction

1.1. Manufacturing process

By manufacturing we mean the physical or chemical transformation of materials, substances or components into new products or components through a series of processes.

There are many elements that need to be considered when it comes to manufacturing. A very important factor for increasing productivity and increasing its efficiency is better communication and coordination between all the departments involved, taking into account certain terms such as: the time needed to prepare a production line, reducing production time and effectively reducing product manufacturing time.

A production process is described as the use by raw materials and materials of a type of activity which, after going through such a process, ends up being called a finished product or service [1].

1.2. Manufacturing systems

The manufacturing system is a component part of the production system, which achieves the configuration and final properties of a product. By means of a manufacturing system the chemical or physical transformation of the flows of raw materials and materials is realized by means of the information flows and the energy flows.

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