

ABOUT PLM SYSTEMS AS AUTOMATION TOOLS FOR CONCURRENT ENGINEERING ACTIVITIES

Vasile V. Merticaru¹, Gavril Muscă¹ & Elena Muscă²

¹Technical University “Gheorghe Asachi” of Iasi - Romania, Department of Machine Manufacturing Technology

²Institute of Computing Science of Iasi - Romania

Corresponding author: Vasile V. Merticaru, merticaru@tcm.tuiasi.ro

Abstract: The present paper proposes an overall vision upon the PLM systems, which are identified as effective automation tools that can assure productivity for concurrent engineering activities. The scientific approach and the considerations and conclusions presented in the paper are considered very important and useful, both for academia and for industrial specialists, as they come to outstand the PLM systems as solutions able to help in solving the problems of the productive companies like manufacturing enterprises, which act in a fast changing market environment and usually have to manage a great number of variants in their product portfolios. There can not be forgotten that manufacturing enterprises also must be agile and achieve short delivery times, as long as most of the customers ask for specific, individually developed solutions for their demands.

Key words: concurrent engineering, PLM, product development, automation, CAD.