

AUTOMATIC WORK PIECE CHANGING FUNCTION (AWPC) BY ROBOT ON MODULAR FIXTURE SYSTEM USABLE AT THE HORIZONTAL MILLING CENTER TMA-AL 550

PANCU Rares, GANEA Macedon, BUNGAU Constantin, Groza Mihai
University of Oradea

Keywords: AWPC-Automatic Work Piece Changing

At the horizontal milling center and flexible cells at APC system have the possibilities to be automatized assisted with the help of the robot.

This concept is standard and is named AWPC-Automatic Work Piece Changing, which means the load-unload of the working parts by the robots on the universal flexible device located on the board of the pallet.

The load-unload options is assured by the robot on the passive pallet in the machining time at the parts on the active pallet.

About the conditions and the functions requested at the horizontal machine centre TMA-AL 550 also the fixture assembly about.

The present paper work tries to define these functions.



Fig. 1– TMA-AL 550

BIBLIOGRAPHY:

- [1] - TMA AL 550, Instruction Manual, Italy, 1996;*
- [2] –Ganea M. - Masini si Echipamente Tehnologice pentru Prelucrarea in 4-5 axe CNC, Ed. Univ. din Oradea, 2004.*