

INTELLIGENT FIXING SYSTEMS ON MULTIFUNCTIONAL MACHINE TOOLS

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Abstract: The paper starts from defining the concept of intelligent technological system and it presents some types of intelligent technological systems and specific functional and technical features of them. In order to cover the operations of the developed process on multifunctional machine tools are defined solutions for modular fixing structures for the pieces. To answer technological and functional needs the developed structures are equipped with sensors, drive systems, command and active control. Fixing developed systems are able to respond in real time to the requirements of the technological process, changing the functional characteristics depending on changes in process and in the working limits initially set.

Key words: Modular System, Sensors, Intelligent Tools, Multifunctional Machine Tool