MODULAR DEVICE FOR MANUFACTURING OF THE 800 W MAGNETRON ANODIC BODIES BY MEANS OF ELECTRIC DISCHARGE MACHINING

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Abstract: this paper shows the design and realization of a modular device for working the anodic bodies of the 800 W magnetrons, made at the University of Oradea. The magnetron anode bodies are made of OFHC copper, which features low mechanical strength and reduced chipping workability. The authors have designed this modular device to be used with the ELER-type electrical discharge working machines. Different shapes can be obtained by conveniently exchanging the components of the modular device, according to the operations to be done. This device ensures high dimensional precision and reproducible results, because the worked anodic body is not distorted during working.
Key words: electrical discharge machining, magnetron, modular device, anodic body.