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Patent Search

Invention Title	SYSTEM OF MODULAR UNIT ATTACHMENT FOR PERFORMING DRY AND NEAR-DRY ELECTRIC DISCHARGE MACHINING (EDM)
Publication Number	48/2021
Publication Date	26/11/2021
Publication Type	INA
Application Number	202121051703
Application Filing Date	11/11/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	B23H0001020000, B23H0001080000, B23H0001000000, B23H0009000000, C02F0001720000

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Abstract:

The present invention relates to System of modular unit attachment for performing dry and near-dry electric discharge machining (EDM). The objective of the presen to solve the problems in the prior art technologies related to dry and near-dry electric discharge machining (EDM). The present invention is used to eliminated the die requirement, which was the major constraint of the prior art process. The present Near-dry EDM with a mechanical manipulator is used to overcome this limitation. EDM utilizes a mixture of air and water as a dielectric medium that does not produce toxic fumes and health hazards.

Complete Specification

Claims:

1. A system for near-dry electric discharge machining (EDM) process, wherein the system characterized in that:

A mechanical manipulator, wherein a servo control micro slide is mounted on the mechanical manipulator, which can hold and give linear motion to a tool electrod wherein the Mechanical manipulator is configured to move the tool electrode in any angular direction along with 360° rotational direction; wherein mechanical manipulator, comprises,

A micro slide arrangement is used for mounting the micro slide on it and provides the linear and angular motion to the tool electrode,

A arm is used for angular motion to the too, &

A Rotating gear is used utilized for rotational motion to the tool electrode.

- 2. The system for near-dry electric discharge machining (EDM) process as claimed in claim 1, the wheels are mounted on a base structure which makes the med
- The system for near-dry electric discharge machining (EDM) process as claimed in claim 1, the micro slide arrangement is a servo control micro slide.
- The system for near-dry electric discharge machining (EDM) process as claimed in claim 1, a mixture of air and water is used as a dielectric medium in the near electric discharge machining (EDM) process.
- The system for near-dry electric discharge machining (EDM) process as claimed in claim 1, the further comprises a DC Power supply, an Air Compressor and a 5. unit

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Page last updated on: 26/06/2019