framatome

ELECTRO DISCHARGE MACHINING (EDM) IN DRY CONDITIONS

Removal of cracks or defects on dry surfaces inside systems and components.

Framatome's innovative 4-axis EDM process with flushing technology for flexible operation on dry surfaces.

Challenge

Repair of cracks and defects inside components like steam generator or valve seats require machining and drilling as preparation of the next repair step i.e. welding. This approach comes always within the risk of foreign material introduced inside the affected system. Cracks and defects can also be in hard-to-reach positions where standard equipment can't be used to solve the issue. Interfering edges inside systems can affect the flow and lead to losses of efficiency.



Keep your plant operating safely with innovative, customized solutions to your machining challenges. Framatome's remote Electro Discharge Machining (EDM) process for dry conditions, allows the component repair even on complex surfaces or failure structures (i.e. cracks). EDM can be used even in difficult to access positions, due to our 4-axis movement and customized electrodes.

It allows to:

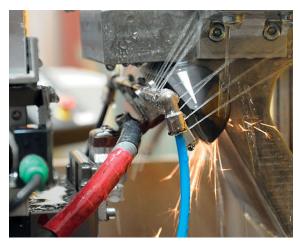
- Remove of a crack and do the weld edge preparation
- · Remove broken screws and repair of the screw thread
- Taking samples in different shapes, sizes and depths
- · Chipless drilling
- Smoothen surfaces, i.e. removal interfering edges to optimize flow in systems

EDM is the preferred technology for sensitive systems due to the high flexibility, accuracy and low risk machining technology.

Customer benefits

- In cooperation with our engineers customized solutions to any problem are found
- No risk of foreign objects in the system
- High accuracy due to 4-axis movement of the electrode
- Modular equipment design the fulfil the whole repair process with different tools

Your performance is our everyday commitment



Qualification of EDM with spray water.

Technical information

- Flexible usage on any position due to 4-axis movement.
- Any kind of shapes and forms due to customized electrodes
- High dose usability due to remote control station of the EDM generator
- Use of low amount of spray water incl. direct suction of flushing water

References

- Qualified and approved use by authority for repair of cracks in a Steam Generator divider plate
- Balancing hole in a explosion plug inside a steam generator tube

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