cenit SOFTWARE

DIE SINKING ELECTRODE

Automated creation, documentation and machining of EDM electrodes in CATIA V5

DIE SINKING ELECTRODE is a completely integrated CATIA V5 solution to automate the design, the 2D documentation and the NC programming of electrodes to be used in EDM sinking processes. Due to a seamless integration into the leading Product Lifecycle Management (PLM) solution CATIA V5, a significant gap in the mold and tooling design process has been closed.

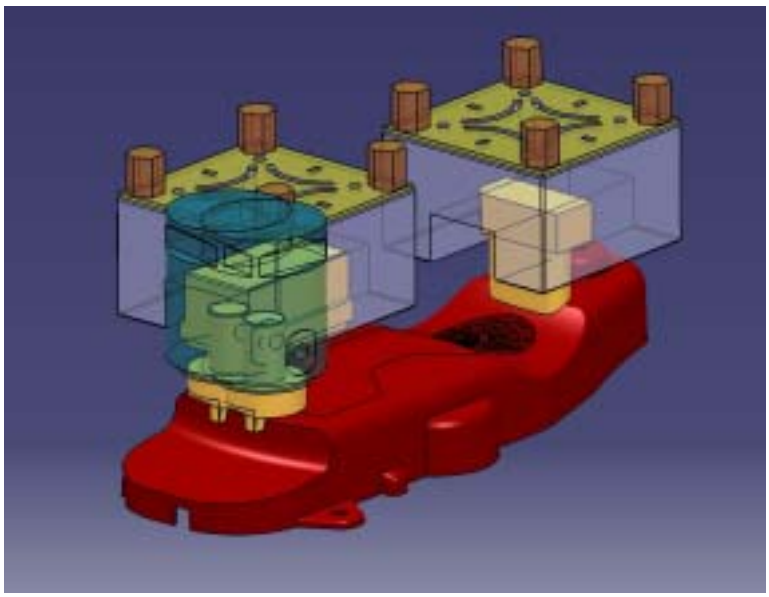
Product features

- Setup of electrode assembly configuration in combination with the mold insert. Ensuring a consistent product tree (BOM).
- Mold geometry data can be both surface or solid based; native CATIA or via external interface systems.
- Easy extraction of electrode faces from the mold geometry.
- Integrated operations to extend and complete the cavity geometry.
- Electrodes generated in surface or solid geometry.
- Stock material profiles, reference frame and electrode holder can be selected from default catalogues. Catalogues can be modified using standard CATIA V5 functionality.
- User specific catalogues can be added.
- User defined technological parameters can be added.
- For multiple use of the electrodes instance copies can be generated.
- Extract of 2D documentation of electrode parts and assembly in the formats CATDrawing, MS- Excel, xml and txt.
- The 2D documentation exports several product views and all the technological parameters based on template documents. A set of sample templates is delivered with the software.
- Automated NC programming of electrodes.

Benefits

- Explicit user interface to prepare complex electrode geometry with a minimum of interactions.
- Full integration of CAD functions for optimal 3D geometry extraction.
- Complete parameterisation of the electrode: all entries can be modified at any time.
- Full process integration and transparent data flow up to NC machining and shop floor connection.
- Company standards can easily be integrated in the template documents for 2D- documentation and NC-programming.
- Time savings for engineering the electrodes and enabling concurrent engineering through fast response to mold geometry changes.

DASSAULT SYSTEMES Gold Software Partner



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