

ElectroWorks Product Overview

ElectroWorks™ the only electrode creation solution within **SolidWorks®**

ElectroWorks allows you to create electrodes with just a few clicks of the mouse.

FEATURES

- User extendable parametric library of holder and electrode shapes.
- Positioning and burn area dialogue.
- Automatic electrode extraction.
- Modification.
- EDM technology definition and output.
- Burn area calculation.
- Automatic 2D drawings.



ElectroWorks begins the creation of electrodes after we have used **SplitWorks®** to create the core and cavity inserts.

Choose the holder and electrode blank shape from the standard, user extendable parametric shape library, and select the part reference axis.

Dynamically position the electrode by pointing with the mouse relative to the user defined machining reference coordinate system. After the initial positioning, ElectroWorks updates the dialogue and allows the user fine adjustment of electrode positioning and orientation.

Shape parameter definitions and the shape scheme are made available and can be adjusted to define the exact burn area.

Extraction of the electrode shape is then automatically performed.

Modification of the position and definition of the Electrode through dedicated menu.

Technology is defined through a dedicated dialogue which defines material and allows you to scroll through the built in surface finish standards according to the E, Rmax and Ra.

Process setup of the rough to finish spark gaps and the pattern method and definition are defined through the same dialogue, as well as safety z-level penetration for each of the different spark gaps. The exact burn area is also calculated.

Manufacturing information including the zero point for machine positioning and orientation as well as the previously defined technology is managed and stored within the electrode and can be printed through a dedicated print icon.

Auto Drafting functionality saves the user hours of the tedious task of dimensioning the electrodes.

Associativity of the electrode geometry created by ElectroWorks means that if the original part is modified then the electrode as well as the detailed drawings will be automatically updated ensuring integrity of the design at all levels.



ElectrodeWorks /Technical Specifications

SINGLE ENGINEERING MODEL FOR ADVANCED CORE/CAVITY DESIGN DEVELOPMENT

- Based on SolidWorks tools.
- Seamless ensemble to perform modeling, detailing, and core/cavity development.
- Desktop integrated solution without external file translation.
- Integration takes place quickly and efficiently in a tight loop.

PARAMETRIC HOLDER LIBRARY

- Includes standard elements from Erowa library.
- Integrates any user created SolidWorks parametric shapes, automatically displaying parameters in electrode dialogue box.
- Productivity tool to free designers from the tedious work of electrode creation.

ELECTRODEWORKS FUNCTIONALITY

Creation

- Initial positioning according to screen location.
- Fine tune adjustment relative to part zero reference allowing exact coordinates.
- Adjust shape parameters according to burn area.
- Automatic surface extraction and electrode creation.

Modification

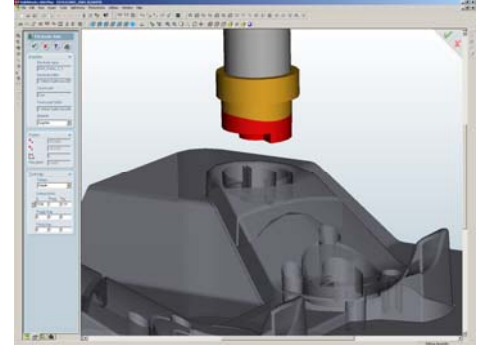
- Modify position.
- Change parameters.

Technology

- Material selection.
- Surface finish definition according to the E, Rmax, Ra standards.
- Pattern method definition.
- Rough and finish spark gap series definition.
- Safety z-level definition for each spark gap series.
- Storage of technology as part properties.

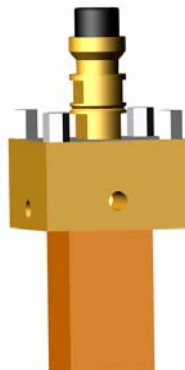
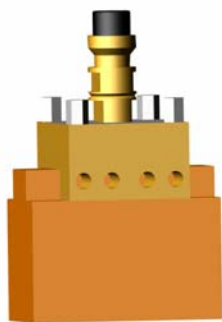
Output

- Icon to print stored technology information.
- Automatic 2D drafting.



System requirements

- Microsoft Windows XP Professional or Windows 2000 recommended; also runs on Windows NT
- Intel Pentium® or AMD Athlon™ class processor
- 512 MB to 1 GB or greater recommended.
- Graphics adapter
- Pointing device
- CD-ROM drive
- Prerequisites: SolidWorks.



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