

SmartElectrode™ for Pro/ENGINEER

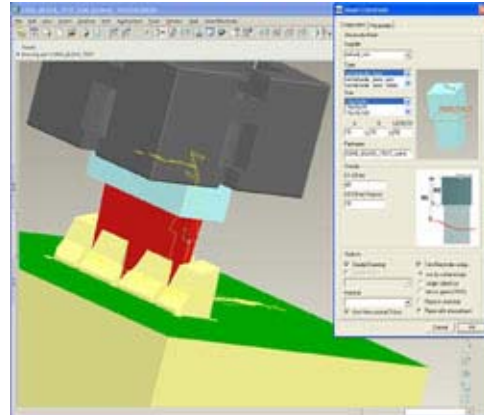
Radical productivity improvement for your Pro/ENGINEER implementation

What is SmartElectrode?

SmartElectrode is software developed for Pro/ENGINEER that automates all aspects of extraction, design, management, documentation and manufacturing of EDM electrode. Through its GUI-driven process, SmartElectrode guides the user through the electrode design and production process. The user simply deals with the electrode design; the burn setup sheets, the electrode drawings and machining files are all created automatically.

Key Features

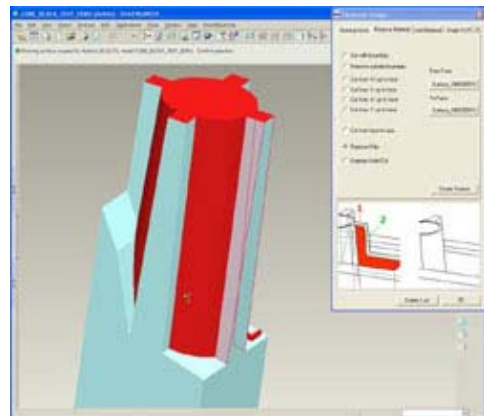
- Automatic electrode extraction
- Automated initial electrode placement based on selected burn feature geometry
- Exact placement and orientation of electrode
- Standard catalogs of electrode blanks and holders - fully customizable and extendable
- Single and multi-extract electrode assemblies
- Specialized modeling features to quickly cleanup the extracted geometry
- Full control of burn surface extensions through and easy to use GUI
- Multi-placement of the same electrode
- Automatic generation of burn setup sheets and electrode drawings
- Automatic creation of Pro/NC machining files
- Graphical display of burn areas where electrode are already designed
- Automatic naming of all deliverables based on user-defined convention
- Burn area analysis



Specialized GUI creates electrode and holders quickly and easily

How It Works

- Choose a holder and electrode blank from the available library (user extendable)
- Graphically position, orient and fine-tune the electrode placement. The extraction is done automatically
- Detail-design the electrode using the GUI to tweak the burn areas and neighboring areas.
- Setup sheets, electrode drawings and manufacturing files are created automatically.



Electrode detail GUI offers flexibility for handling different geometric conditions

Key Benefits

- Significant savings over the use of Pro/ENGINEER alone
- Consistent quality – all electrode creation follows the same process and feature map
- Organizes multi-electrode jobs – eliminates electrode setup problems
- Precise control of extension surface details gives excellent EDM surface quality
- Immediate burn set-up sheets and electrode drawings
- Automation and organization of the process minimizes costly mistakes
- Eliminate repetitive tasks such as creating electrode drawings, setup tables, etc.
- Automatic machining setup with Pro/NC practically eliminates NC programming lead-time
- Easy to learn logical process with a dynamic and easy to use interface offering unrivalled flexibility

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