

we optimize your process

tl-Elektrode

A field-tested solution for moldmaker



Easy to learn and simple to use with an average of about 84% saving of time compared to manual electrode construction. It-Elektrode covers nearly all time consuming routines of electrode design by automated calculation. Just a few clicks are required to create project reports that contain all necessary data for the EDM process. It-Elektrode reduces significantly the time needed for electrode design and eliminates human errors caused by wrong insertion of coordinates.

Suitable selections for burning areas

Automatic selection

- User define only one solidface and the System find automatically all faces of burning area Manual selection
- User defined surface selection

Selection by boundaries

- Recognition by given boundary faces

Area selection by custom contour

- Circular, rectangular or free contour for electrode area

Rib selection

- Generation of rib-electrodes, gaps are closed automatically

Selection for sprue electrodes

- Automated creation of geometry for sprue electrodes



Stock model optimization saves up to 80% of material



Automatic area selection

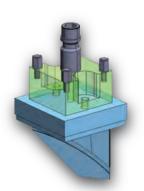
Automatic extension of faces

Automatic calculation of electrode position and stock size

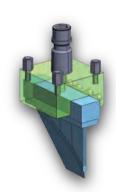
Automatic holder selection

electrode and work piece

Calculation of burning area and undersize



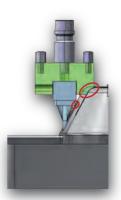
Without stock optimization



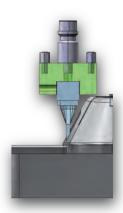
With stock optimization

Secure processes through reliable collision avoidance Automatic face extension in case of collision between

Automatic box extension in case of collision between holder and work piece



Without collicion avoidance



With collision avoidance

Multiple positioning

Multi-cavity-machining through global positioning

- Rotation and translation

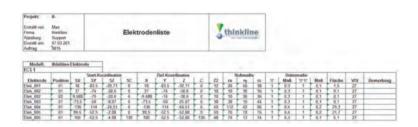
Mirrored positions

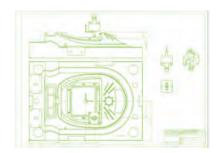
- Machining of mirrored cavilies by global or local mirroring



Clear lists of stock, electrodes and 2D documentation

User defined template for the electrode supplementary sheet Customizable export as xls, html, CSV, PDF, etc..





Transfer of parameters to the CAM system

In combination with hyperMILL parameters like undersize, machining depth, milling area, zero point, stock dimension etc. are transferred automatically to the CAM system. HM-Interface selects from a user defined library automatically a suitable electrode milling template and start the calculation.

Average effort per electrode

	Wilhout II-Elektrode	With II-Elektrode	Saving
Manual electrode design	I O min	2 min	8 min
Making of starting sheets	5 min	I min	4 min
Writing of electrode lists	2 min	O min	2 min
Making of milling programs	I 5 min	2 min	I 3 min
Programming for EDM	5 min	I min	4 min
	37 min	6 min	ca. 84 %

Support of many common EDM systems

It-Maschine automatic transfer technology and positions to the eroding machine. This includes all relevant parameters as start-end-position, undersize, excursion strategy, electrode and work piece material, etc. and could be used by the machine control. At any time manual intervention by the operator is possible.













From design to production - consistent data base and user interface

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