SMARTElectrode 13.0.0.0

What's New

Multibody support

What	• Support for new multibody features introduced in Creo Parametric 7.0 [https://redmine.buw-soft.de/issues/9973]
Who needs it	• All customers working with Creo Parametric 7.0

Details/Usage	SMARTElectrode supports multibody features in following modes/models/features:
	
	• Assembly creation for all available methods (original model, merge, copy-geom, inheritance)
	
	• Electrode design
	   – Features creating a solid are automatically created in default body or body selected implicitly by references
	   – Features without geometrical references like base or support are created in active or default body

Impact/ Compatibility	• Additional features may be added with new releases from PTC

Improvement

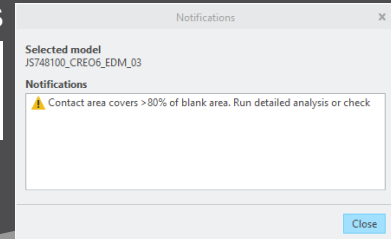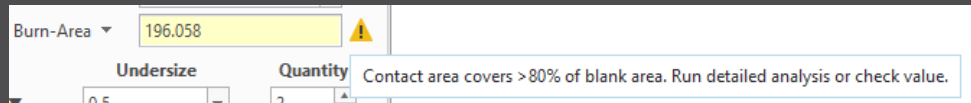| What	• Added threshold to show a warning if contact area covers more than defined percentage of blank area [https://redmine.buw-soft.de/issues/10357]
Who needs it	• Users who output effective contact area for EDM programming
Details/Usage	• SE performs a fast contact area calculation when Base UI is opened and contact area is 0
	• Slower more exact calculation can by started by user in UI
	• Check UI always performs the exact calculation
	• Option "CONTACT_AREA_MAX_COVERAGE" defines valid percentage

CREATE_TOUCHING_SURFACES_FEAT	YES	Create feature for result of touching surfaces analysis.
CONTACT_AREA_MAX_COVERAGE	80	Maximum valid coverage of the blank area with contact areas in percent.

• Warnings are shown in Base UI and Burnsheet notifications

Burn-Area ▾ 196.058 ⚠

Undersize   **Quantity**

⚠ Contact area covers >80% of blank area. Run detailed analysis or check value.

Notifications

Selected model
JS748100_CREO6_EDM_03

Notifications

⚠ Contact area covers >80% of blank area. Run detailed analysis or check

Close

Fixed error

Description	• Edited base values are reset on next change [https://redmine.buw-soft.de/issues/10218]

Cause	• Edited values are not correctly saved to template data

Solution	• Problem is fixed

Fixed error

Description

- Some electrodes are not processed during output [https://redmine.buw-soft.de/issues/10191]

Cause

- SE validates every electrode during export and skips suppressed, disabled or incomplete components.
- Check for completeness includes a check of electrode base group
- Check for completeness fails on imported or legacy electrodes as base is not created by UDF.

Solution

- SE now looks for existence of mandatory EDM coordinate system
- Legacy electrode use "EDM_ORIGIN" or "EDM_ORIGIN_TOP" depending on option value "'USE_POS_CSYS_TOP"
- Electrodes beginning with version 8.0 use csys name defined in option "EDM_ORIGIN_NAME"