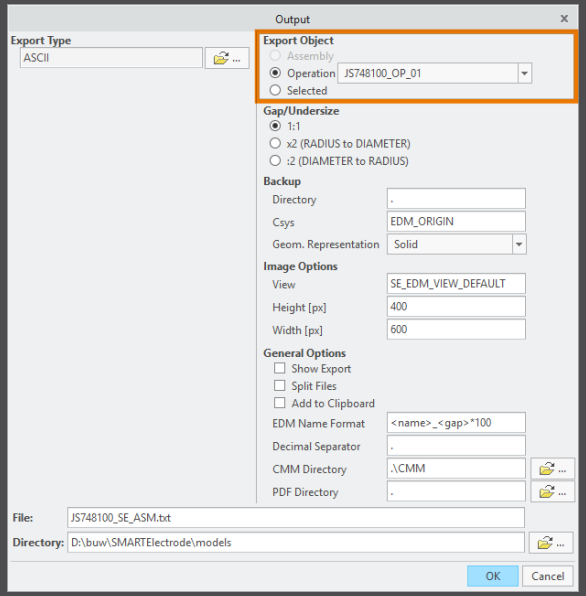
What‘s new

SMARTElectrode 11.0.1.0

Output UI

ENHANCEMENT

- Select operation or electrodes for export



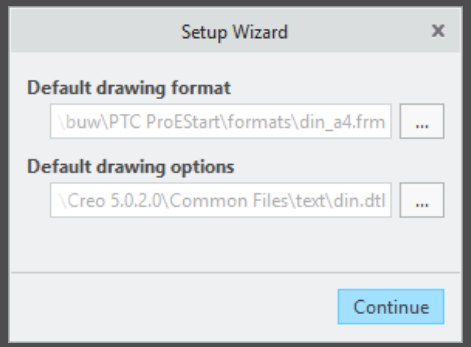
TECHN. INFORMATION

- Current operation is selected by default

Setup Wizard

IMPROVEMENT

- Users can select default drawing format and drawing options for new configurations



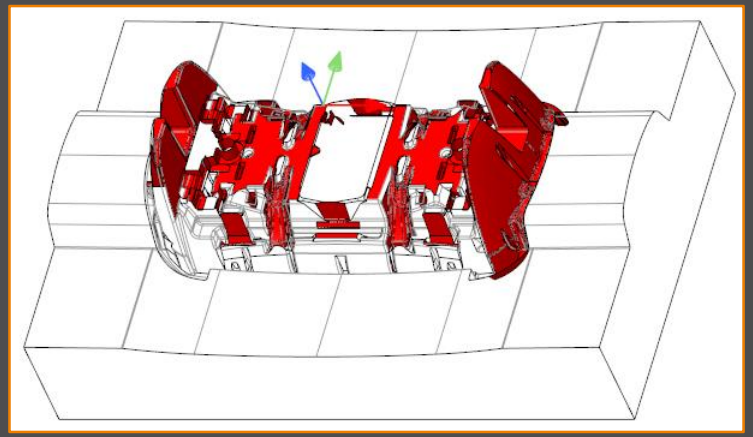
TECHN. INFORMATION

- Selected format and options will be assigned to drawings in configuration folder
  - \templates
  - \electrode\default_mm
  - \electrode\default_inch

Touching Faces

IMPROVEMENT

- Improved display of result in analysis model



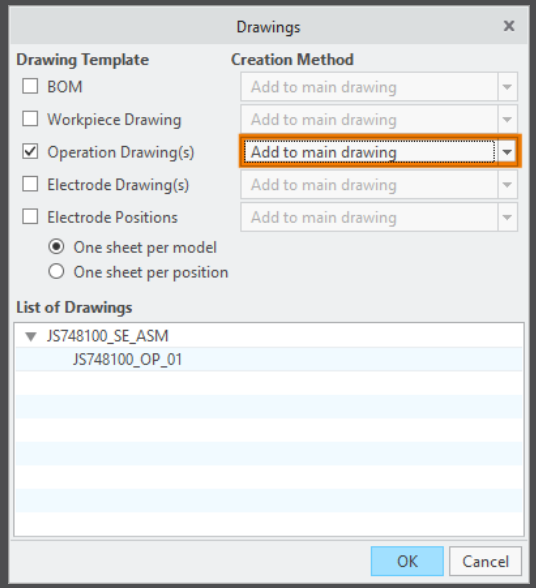
TECHN. INFORMATION

- Set option CREATE_TOUCHING_SURFACES_FEAT=YES to get results as features
- Usage of copy-geom instead of import feature

Drawing Templates

IMPROVEMENT

- Added new drawing templates for operation sheets



TECHN. INFORMATION

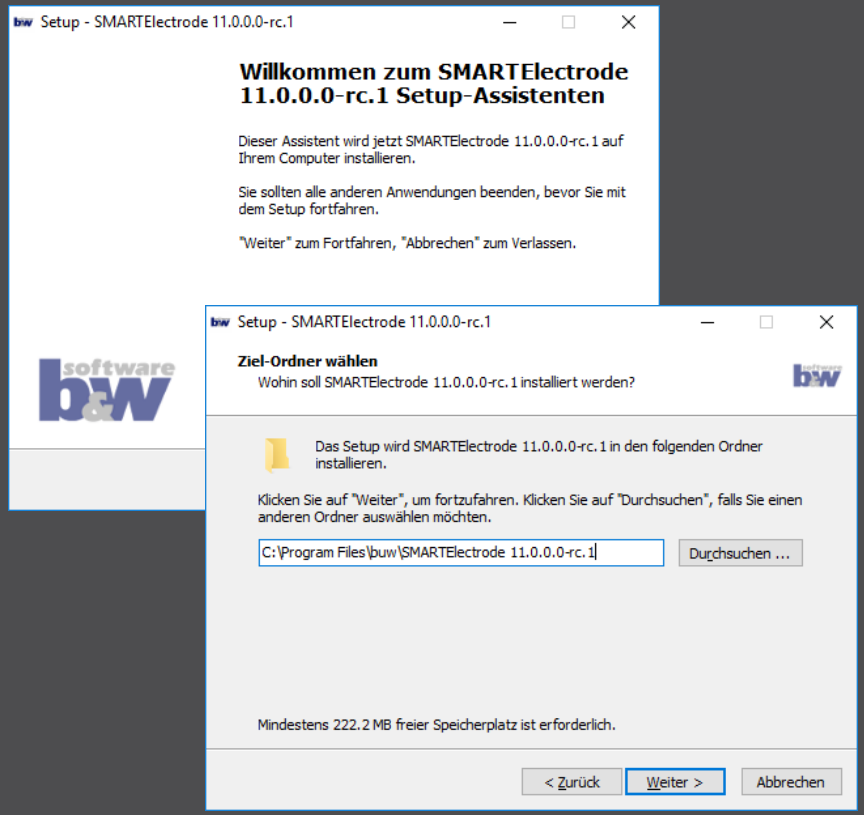
- Operation sheets list all electrodes that belong to a specific csys
- Use option CREATE_OPERATION_DRAWING to control behavior:
  - 0: Don't create operation drawing(s).
  - 1: Create operation drawing(s).
  - 2: Create operation drawing(s) and add to main drawing.

Name	X	Y	Z	C	Effective Area	Roughing	Q1	Comment
JS748100_EDM_01	-15.800	3.375	-12.478	0.000	3.186	0.0000	0	-
JS748100_EDM_02	15.800	-3.375	-12.478	0.000	3.186	0.0000	0	-
JS748100_EDM_01	15.800	3.375	-12.478	0.000	3.186	0.0000	0	-
JS748100_EDM_02	-15.800	-3.375	-12.478	0.000	3.186	0.0000	0	-
JS748100_EDM_03	15.500	0.000	-12.778	0.000	4.881	0.0000	0	-
JS748100_EDM_03	-15.500	0.000	-12.778	0.000	4.881	0.0000	0	-

What‘s new

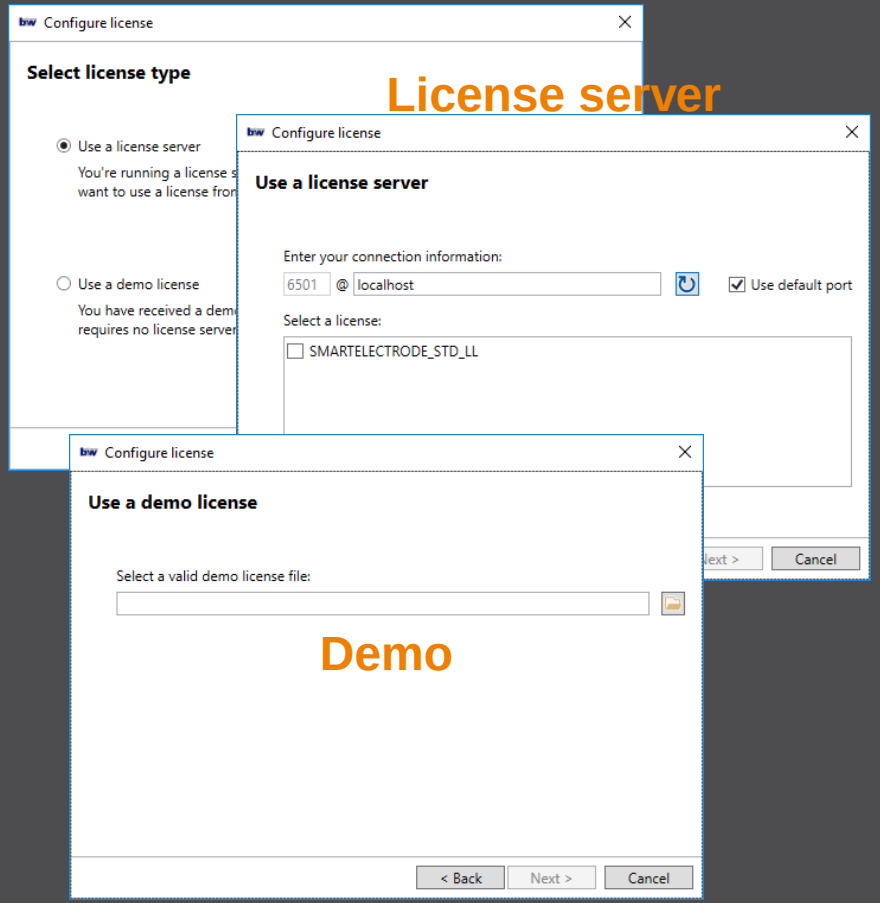
SMARTElectrode 11.0.0.0

Setup



- New Setup for installation
- Easier updates

License configuration



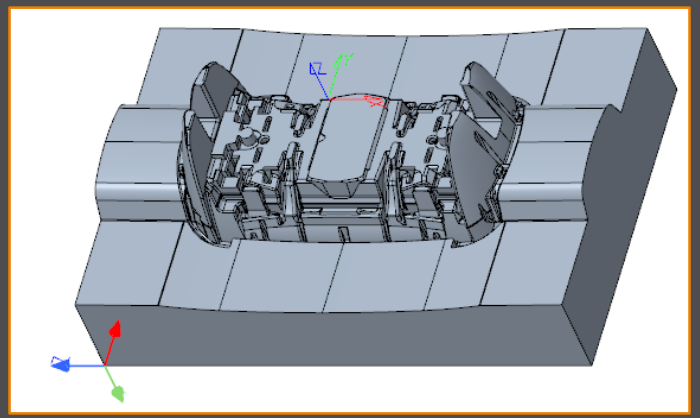
HOW TO USE

- Automatically after installation
- Supports
  - License server
  - demo licenses
- Start from Installation: „Configure license“

Operation Zero

ENHANCEMENT

- Support of several operations



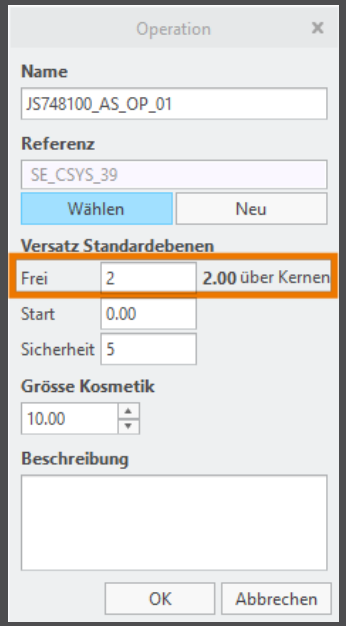
COMPATIBLITY

- No restrictions for existing assemblies

Operation Zero

ENHANCEMENT

- Offset FREE_FACE from ref. csys



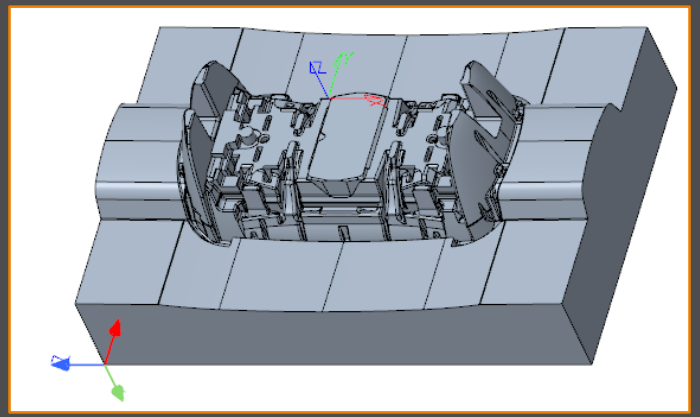
TECH. INFORMATION

- INCREMENT_POS used to round offset
- Shows distance to workpieces as additional information

Operation Zero

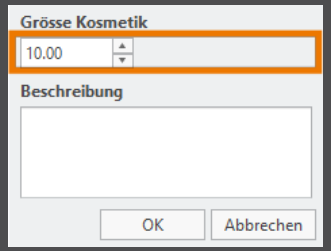
ENHANCEMENT

- 3d-symbols replaced by normal features



TECH. INFORMATION

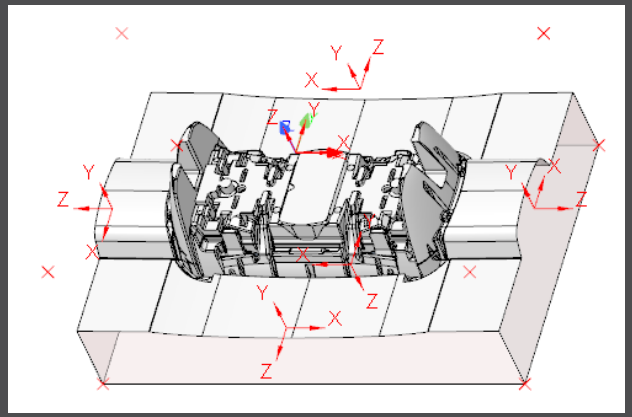
- Customizable in <configuration>\operation
- Size customizable in UI



Operation Zero

ENHANCEMENT

- Csys on every workpiece side and
- Corner points on bounding box



TECH. INFORMATION

- Available in new assemblies
- Automatic update

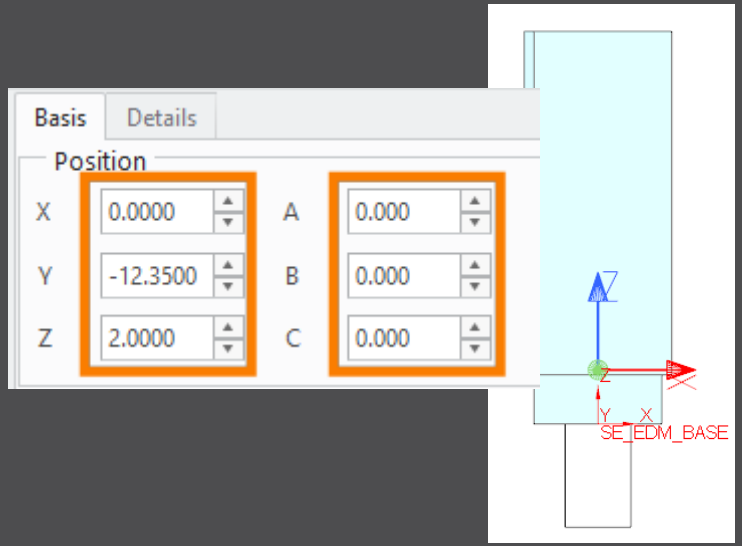
UI Base

ENHANCEMENT

- Displayed position is always for electrode base

TECHN. INFORMATION

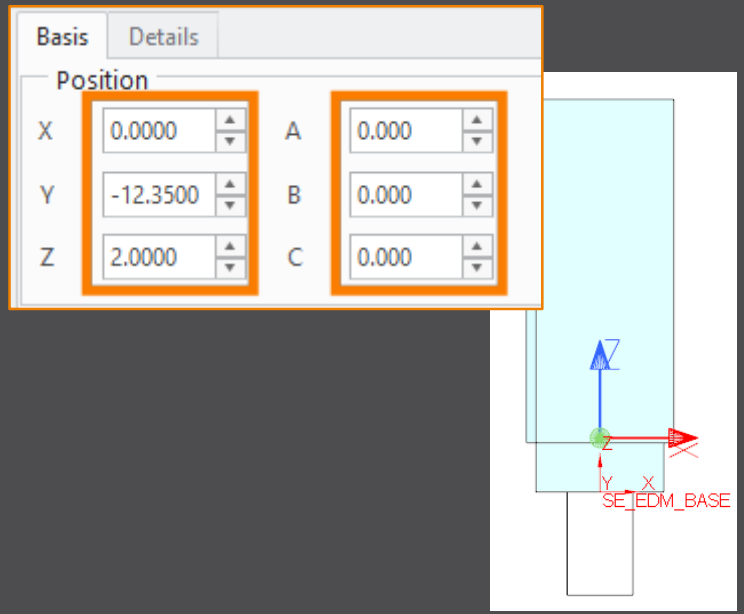
- Easier positioning of base



UI Base

ENHANCEMENT

- Displayed position is always for electrode base



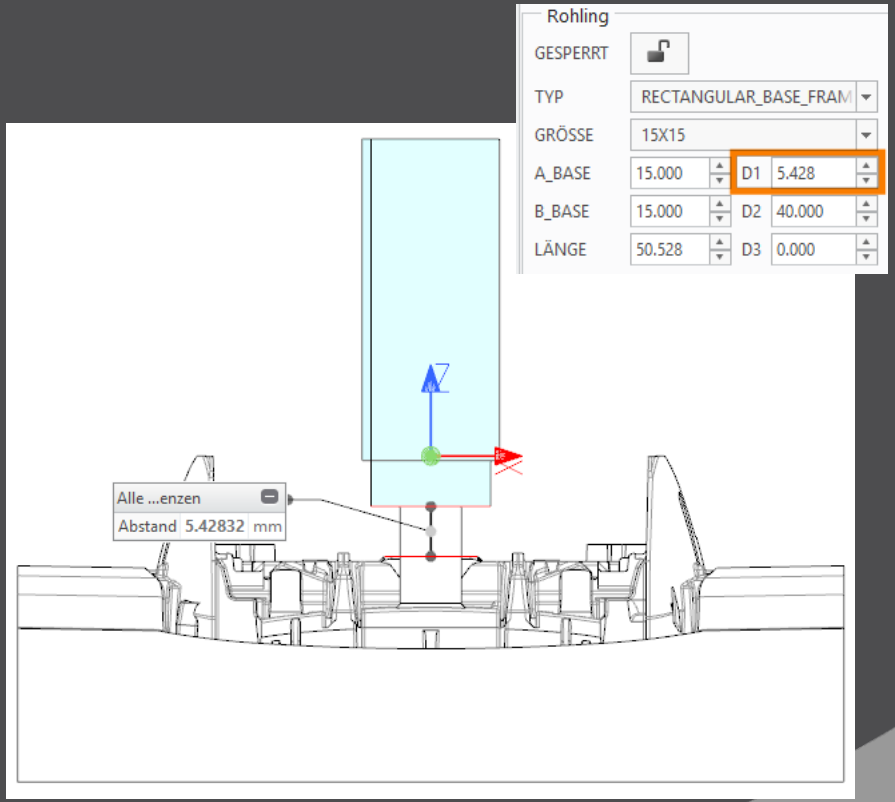
COMPATIBILITY

- Existing electrodes are updated if base is edited

Base position / blank data

ENHANCEMENT

- Automatic adjustment of offset D1 (vertical distance to workpieces)



Base position / blank data

ENHANCEMENT

- Automatic adjustment of offset D1 (vertical distance to workpieces)

TECH. INFORMATION

- Z-position of base will be rounded using INCREMENT_POS

Base position / blank data

ENHANCEMENT

- Automatic adjustment of offset D1 (vertical distance to workpieces)

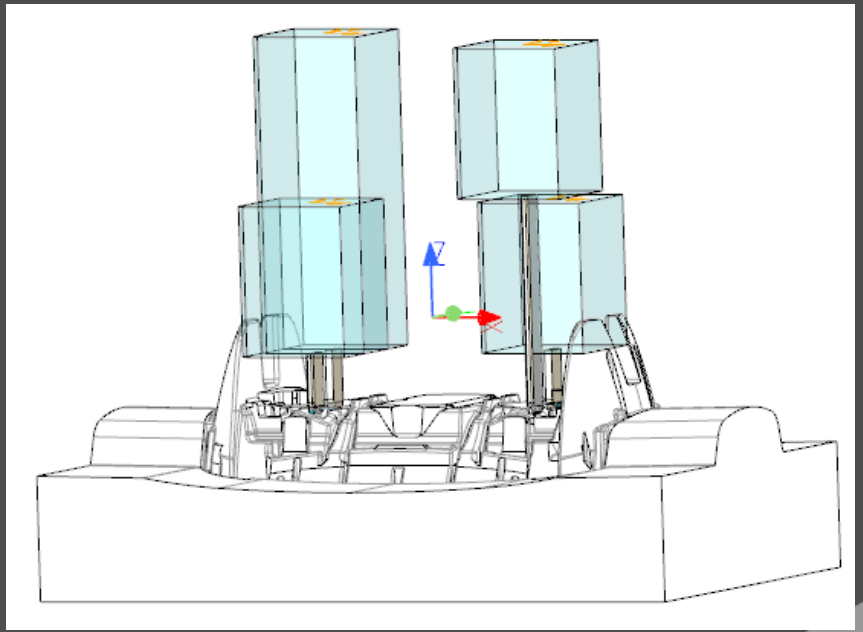
COMPATIBILITY

- If new base is added to electrode
- Review and update D1 in *.dat files in configuration\electrode\...

Base position / blank data

ENHANCEMENT

- ONE dimension or calculated offset can be adjusted automatically. Applies to:
  - D1
  - D2 (height of base)
  - D3 (distance top to blank length)
  - LENGTH (blank length)



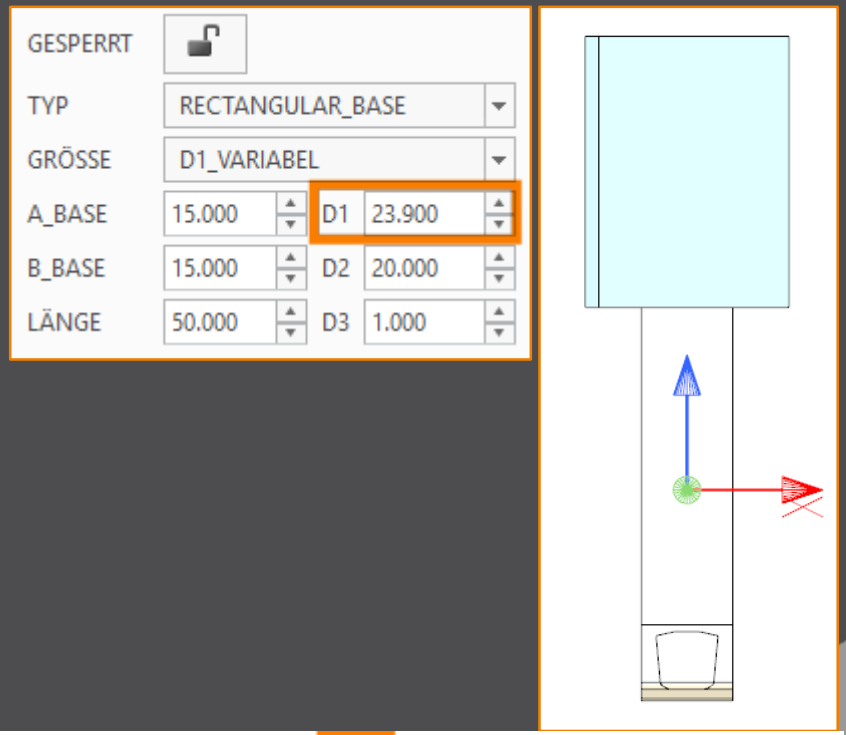
rectangular_base.dat

Base position / blank data

EXAMPLE D1 = -1

- Vertical distance from FREE_FACE to workpiece is variable

RESULT



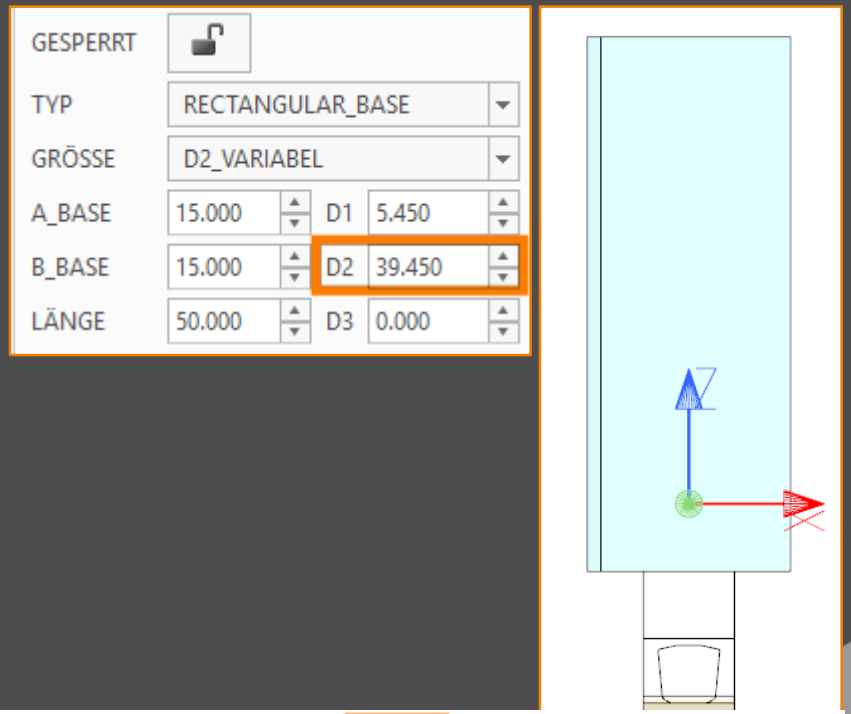
D1_variabel	15	15	50	-1	20	1	1

Base position / blank data

EXAMPLE D2 = -1

- Base height will be calculated based on geometry and blank data

RESULT



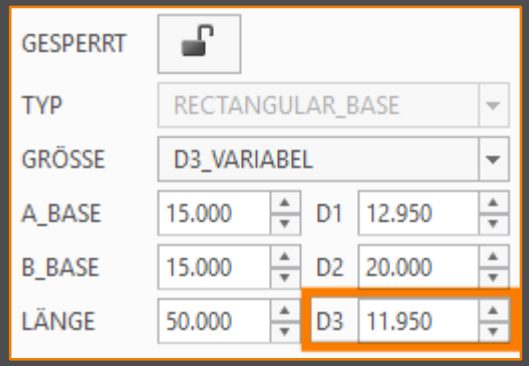
INSTANCE	A_BASE	B_BASE	LENGTH	D1	D2	D3	CHAMFER1
D2_variabel	15	15	50	5	-1	0	1

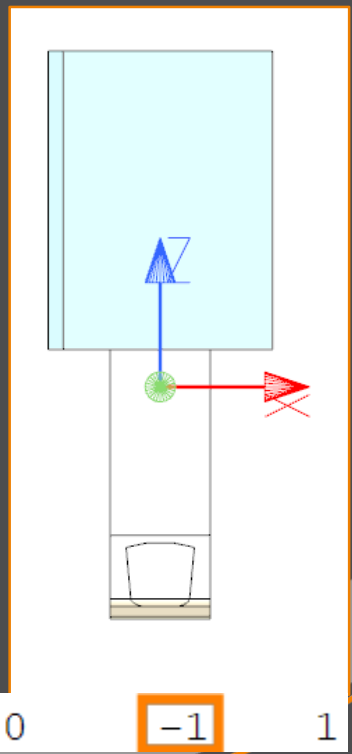
Base position / blank data

EXAMPLE D3 = -1

- Top offset (EDM to LENGTH) will be calculated based on geometry and blank data

RESULT



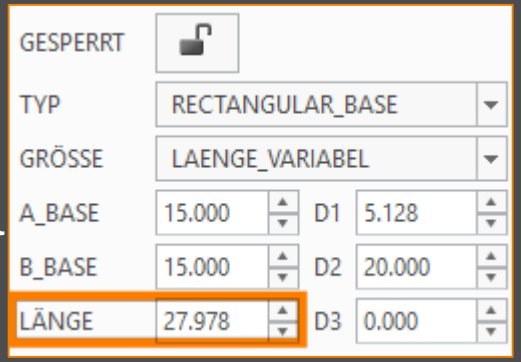


D3_variabel	15	15	50	5	20	-1	1

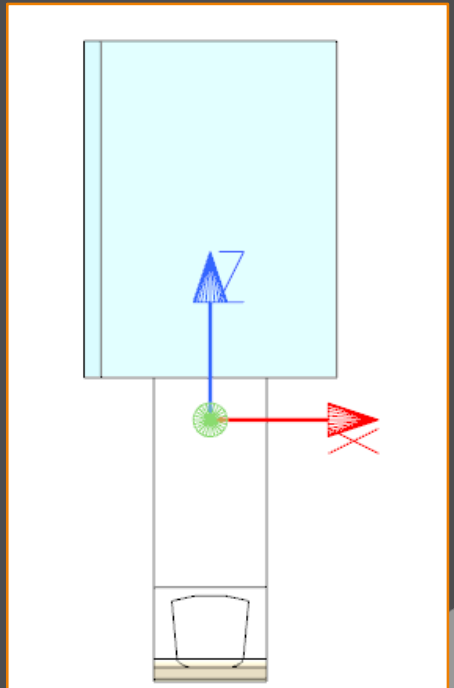
Base position / blank data

EXAMPLE LENGTH = -1

- Blank length will be calculated based on geometry and blank data



RESULT

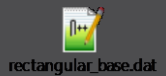


LAENGE_variabel	15	15	-1	5	20	0	1

Base position / blank data

ENHANCEMENT

- ONE dimension or calculated offset can be adjusted automatically. Applies to:
  - D1
  - D2 (height of base)
  - D3 (distance top to blank length)
  - LENGTH (blank length)



COMPATIBLITY

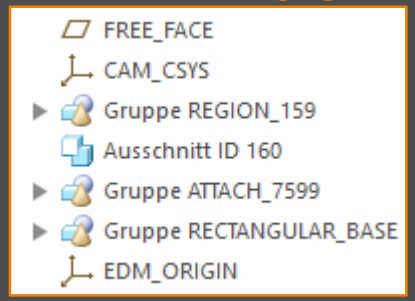
- If new base is added to electrode
- Review and update D1 in *.dat files in configuration\electrode\...
  - D1
  - D2
  - D3
  - LENGTH

Electrodes from template

ENHANCEMENT

- New electrodes can be copied from template

New - Empty



From Template

TECH. INFORMATION

- Located in <configuration>\electrode \default…
- Preparation of
  - Part Drawing
  - Additional features

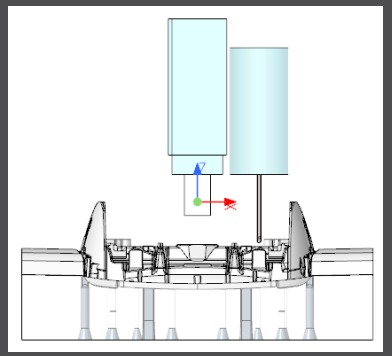
Display of start and secure position

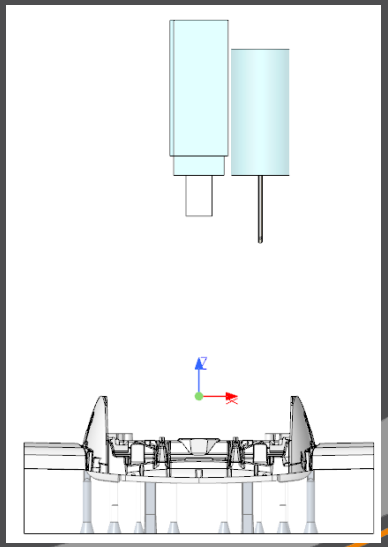
ENHANCEMENT

- Display of
  - Start positions
  - Secure positions as commands in group „View“

TECH. INFORMATION

- Creates a temporary exploded state to control positions

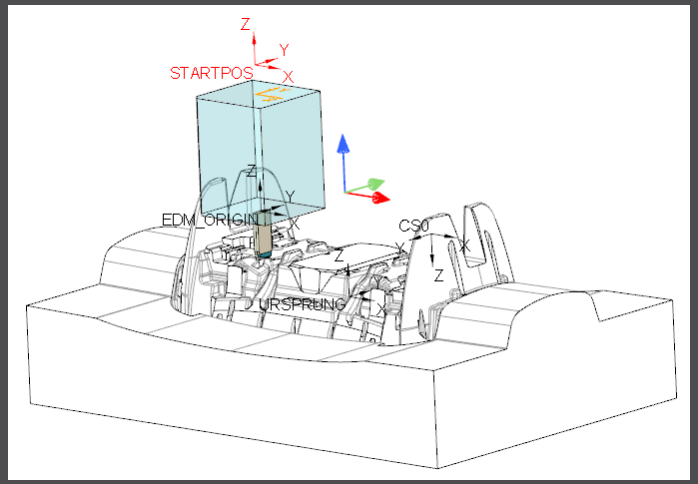




Display of start and secure position

ENHANCEMENT

- Display of
  - Start positions
  - Secure positions



TECHN. INFORMATION

- Customize positions by adding additoinal Csys to electrode
  - Csys „STARTPOS“
  - Csys „SECUREPOS“

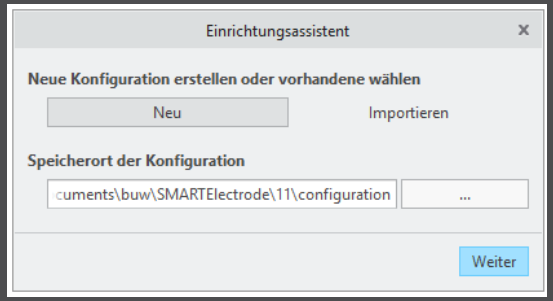
Update Configuration

- Update existing configurations
  - If new display of operations should be used
  - If electrodes with base should be created

Use the following steps:

- Installation SE 11.0.0.0
- Start software WITHOUT
  - active SE_USER_CONFIG_PATH
  - Configuration in installation (rename folder)
- Setup Wizard starts

Update Configuration



- Setup Wizard
  - Create new configuration
  - Import and update existing configuration
- Default location for configuration:
  C:\Users\<USER>\Documents\buw\SMARTElectrode\<VERSION>\configuration
  Similar path for several B&W apps: EMX, AFX, …
- SUGGESTION
  Use default path for single-site installations
  - Central save location for all configurations
  - No collisions with user permissions

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