

# What's new

SMARTElectrode 11.0.0.0







bw	Setup - SMARTElectrode	11.0.0.0-rc.1	-		×			
		Willkommen zu 11.0.0.0-rc.1 S	m SMARTI Setup-Assis	Electro	de			
		Dieser Assistent wird jetzt S Ihrem Computer installieren	SMARTElectrode 11	1.0.0.0-rc.1	auf			
		Sie sollten alle anderen Anv dem Setup fortfahren.	vendungen beende	n, bevor Sie	mit			
		"Weiter" zum Fortfahren, "/	Abbrechen* zum Ve	erlassen.				
	[	w Setup - SMARTElectrode	11.0.0.0-rc.1			_		×
	software	Ziel-Ordner wählen Wohin soll SMARTElectro	ode 11.0.0.0-rc.1i	nstalliert wer	den?			bw
		Das Setup wird installieren.	SMARTElectrode	11.0.0.0-rc.1	in den folg	enden Ordr	ner	
		Klicken Sie auf "Weiter", anderen Ordner auswäh	um fortzufahren. I Ilen möchten.	Klicken Sie au	ıf "Durchsu	:hen", falls	Sie eine	n
		C:\Program Files\buw\S	MARTElectrode 11	.0.0.0-rc.1		Du <u>r</u> chsuc	:hen	
		Mindestens 222.2 MB fre	eier Speicherplatz i	st erforderlid	h.			
			[	< <u>Z</u> urück	<u>W</u> eit	er >	Abbre	chen

- New Setup for installation
- Easier updates

X

# License configuration



#### HOW TO USE

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



# ENHANCEMENT

 Support of several operations

# COMPATIBLITY

 No restrictions for existing assemblies





#### ENHANCEMENT

Offset FREE\_FACE from ref. csys



- INCREMENT\_POS used to round offset
- Shows distance to workpieces as additional information



# ENHANCEMENT

 3d-symbols replaced by normal features



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





## ENHANCEMENT

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



- Available in new assemblies
- Automatic update

# **UI Base**



## ENHANCEMENT

 Displayed position is always for electrode base

Basis	Details				
- Po	sition				
х	0.0000	А	0.000	*	
Y	-12.3500 🔺	В	0.000	*	<b>A</b> ∠
z	2.0000	с	0.000	*	

# **TECHN. INFORMATION**

• Easier positioning of base

# **UI Base**



# ENHANCEMENT

 Displayed position is always for electrode base

Basis	Details							
- Po	Position							
х	0.0000	А	0.000					
Y	-12.3500	В	0.000					
Z	2.0000	с	0.000					

#### COMPATIBILITY

 Existing electrodes are updated if base is edited



#### ENHANCEMENT

 Automatic adjustment of offset D1 (vertical distance to workpieces)





#### ENHANCEMENT

 Automatic adjustment of offset D1 (vertical distance to workpieces)

# **TECH. INFORMATION**

 Z-position of base will be rounded using INCREMENT\_POS



#### 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\...



# 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)





15

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#### EXAMPLE D1 = -1

 Vertical distance from FREE\_FACE to workpiece is variable

D1 variabel

GESPERRT	<b>_</b>						
ТҮР	RECTANGUL	AR_BA	SE	•			
GRÖSSE	D1_VARIABEL	_		•			
A_BASE	15.000	D1 2	3.900	A V			
B_BASE	15.000	D2 2	0.000	*			
LÄNGE	50.000	D3 1	.000	*			
						*	->
						$\bigcirc$	
50		-1	2	20	-	1	1

RESULT

A BASE

15



#### EXAMPLE D2 = -1

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

TNSTANCE

D2 variabel

	GESPERRT	ſ					
	түр	RECTANGULAR_BASE 👻					
	GRÖSSE	D2_VARI	ABEL		-		
lata	A_BASE	15.000	.▲ ▼ D	1 5.450	*		
	B_BASE	15.000	≜ ▼ D	2 39.450	* *		
	LÄNGE	50.000	▲ ▼ D	3 0.000	*		
B_BASE	LENGTH	I	01	D2	I	03	CHAMFER1
15	50		)	−⊥	(	)	T

RESULT

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#### **EXAMPLE** D3 = -1

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

D3 variabel

GESPERRT	<b>_</b>		
ТҮР	RECTANGULAR_BASE	-	
GRÖSSE	D3_VARIABEL	-	
A_BASE	15.000 <u>*</u> D1 12.950	*	
B_BASE	15.000 <u>*</u> D2 20.000	*	
LÄNGE	50.000 * D3 11.950	<b>A</b>	

5

20

50

15

RESULT

#### -1

15



#### EXAMPLE LENGTH = -1

 Blank length will be calculated based on geometry and blank data

GESPERRT		
ТҮР	RECTANGULAR_BASE	•
GRÖSSE	LAENGE_VARIABEL	•
A_BASE	15.000 <b>*</b> D1 5.128	*
B_BASE	15.000 <u>*</u> D2 20.000	*
LÄNGE	27.978 🔺 D3 0.000	*

-1

#### RESULT



LAENGE variabel

15

5

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## 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**



• New electrodes can be copied from template

# New - Empty □ FREE\_FACE ↓ CAM\_CSYS ☑ Gruppe REGION\_159 ☑ Ausschnitt ID 160 ⑳ Gruppe ATTACH\_7599 ☑ Gruppe RECTANGULAR\_BASE ↓ EDM\_ORIGIN

#### From Template

- Gruppe RECTANGULAR\_BASE
- Gruppe REGION\_1126
  - 4 Ausschnitt ID 1127
  - ↓ EDM\_ORIGIN
- 🕨 🎻 Gruppe ATTACH\_8569

- 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



- 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 <u>WITHOUT</u>
  - 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, ...
- <u>SUGGESTION</u>

Use default path for single-site installations

- Central save location for all configurations
- No collisions with user permissions

Einrichtungsassi	stent	×				
Neue Konfiguration erstellen oder vorhandene wählen						
Neu	Importieren					
Speicherort der Konfiguration						
cuments\buw\SMARTElectrode\11\co	nfiguration					
	V	Veiter				



#### le-site installations all configurations rmissions





E-Mail	smartelectrode@buw-soft.de
Telefon	+49 9131 – 53387 05
Adresse	Weisse Herzstr. 2a D-91054 Erlangen

