



VPSS 4ie PD

V3.03.04
Release Note

25 OCT 2025
AMADA CO., LTD.



- Basic Operation Environment
- Released Function List
- Supporting formats - 2D/3D import, export
- Precautions and Limitations on use

Basic Operation Environment



■ Recommended Hardware

Processor (CPU)	Intel Core i5 or higher
Memory	More than 8GB
Hard Disk	More than 30GB

■ Basic Software

OS	Version	32 bit	64 bit
	Windows 10 Pro/Enterprise	N/A	OK
	Windows 11 Pro/Enterprise	N/A	OK
.NET Framework	3.5, 4.6.2		

■ Operation Mode

Server Supported	vSDD, SDDJ
Supported Language	English, Japanese, German, French, Italian, Spanish, Portuguese, Polish, Russian, Hungarian, Chinese (Simplified), Chinese (Traditional), Korean, Thai, Vietnamese, Indonesian
System Unit	Metric, inch
Decimal, Comma Environment	Supported
AP100 System [SDD Support]	Possible; AP100 Client, Server, PCL Client – V6.00.00 or later

Released Function List (1/1)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Classification	Category	Function Name	Summary
1	Improve	3D	Forming Table	The actual status of the items on the Forming Table can be verified even when they are selected.
2	Improve	3D	FR	A message dialog is now displayed if there are Non Recognized Face as a result of Feature Recognition.

#1 Forming Table



Background	The status of items in the Forming Table is indicated by different colors. However, when an item is selected, it appears in blue regardless of its actual status.
Outline	The actual status of the items on the Forming Table can be verified even when they are selected.

Support
Details

The selection color changes depending on the item's status.

Before

After

Material Name

Type-Dim

Direction

Process

A1050-0.8

EXT-A2.56h1.2D6.16

DOWN

ExtrusionTap-ExtDirD...

A1050-0.8

EMB-A20B10h5

UP

Forming-ToolNameN...

A1050-0.8

HS-A3.3h0.5

DOWN

Forming-ToolNameN...

Detail Setting

Material Name

A1050-0.8

Type-Dim

EXT-A2.56h1.2D6.16

Direction

Bottom Orier

Process1

Process Type

Extrude Tappl

Ext. Dir

Down

Tap Dir

None

Ext_Tap Dia

2.56

Ext_Height

1.20

PrePunch Dia

0.00

New

Update

Delete

Auto

Close

Material Name

Type-Dim

Direction

Process

A1050-0.8

EXT-A2.56h1.2D6.16

DOWN

ExtrusionTap-ExtDirD...

A1050-0.8

EMB-A20B10h5

UP

Forming-ToolNameN...

A1050-0.8

HS-A3.3h0.5

DOWN

Forming-ToolNameN...

Detail Setting

Material Name

A1050-0.8

Type-Dim

EXT-A2.56h1.2D6.16

Direction

Bottom Orier

Process1

Process Type

Extrude Tappl

Ext. Dir

Down

Tap Dir

None

Ext_Tap Dia

2.56

Ext_Height

1.20

PrePunch Dia

0.00

New

Update

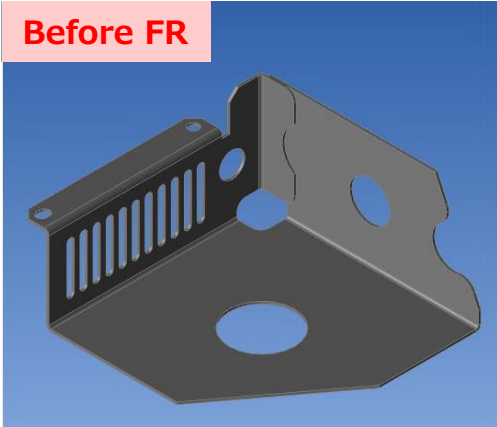
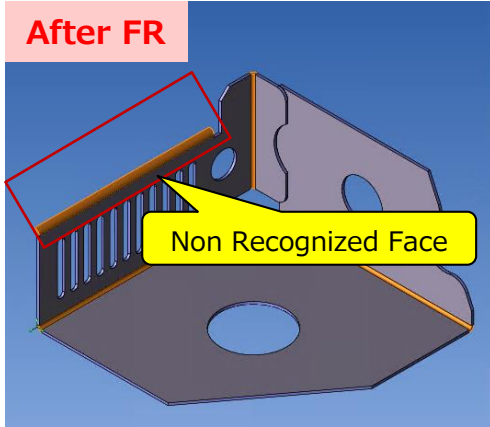
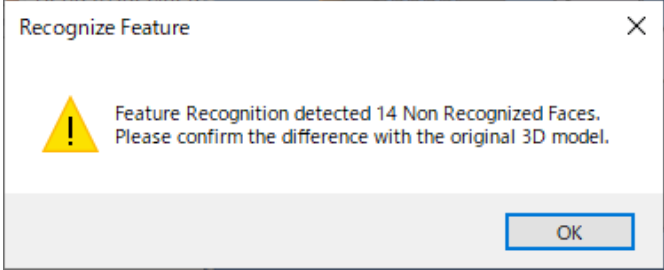
Delete

Auto

Close

Status of item can be verified even when selected.

Background	Non Recognized Face from Feature Recognition may not be noticed in the Unfold Diagram even after displaying in the results. To warn users with a warning message if there are Non Recognized Face.
Outline	A message dialog is now displayed if there are Non Recognized Face as a result of Feature Recognition.

Support Details	<p>If there is any Non Recognized Face, a warning message will be displayed in a dialog box.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Before FR</p>  </div> <div> <p>After FR</p>  </div> </div> <div style="margin-top: 20px;">  </div> <p>※This function can be enabled by turning ON [3D Model Settings] > [3D Import Settings] > [Feature Recognition] – [Display a warning message when Non Recognized Faces are detected.] in the Option Settings, and a warning message will be displayed in a dialog box when Non Recognized Faces are detected.</p> <div style="border: 2px dashed red; padding: 10px; margin-top: 20px;"> <p>Feature Recognition</p> <p><input checked="" type="checkbox"/> Display a warning message when Non Recognized Faces are detected.</p> </div> <p style="color: red; margin-top: 10px;">Addition Default: OFF</p>
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Supporting formats - 2D/3D import



Outline

List of currently supported formats.

Support Details

[3D Model Format]

Format	Filename Extension	Version
ACIS	*.sat, *.sab	~ 2022(R32)
Parasolid	*.x_t, *.x_b	9.0 - 37.0.118
STEP	*.stp, *.step	AP203, AP214, AP242
IGES	*.igs, *.iges	5.1 ~ 5.3
CATIA V5	*.CATPart, *.CATProduct	V5 R8 - V5-6 R2025
Pro/E / Creo	*.prt, *.asm	16 - Creo 11.0
NX	*.prt	11 - NX 2412
SOLIDWORKS	*.sldprt, *.sldasm (*1)	98 ~ 2025
Solid Edge	*.par, *.asm, *.psm	V18 - SE 2025
Inventor	*.ipt, *.iam	V11 - V2025

Not all information can be imported into PD due to the dependence on CAD format specifications.

*1 The hole type for drawing taps with the Hole Wizard corresponds to Straight Tap.

[2D Model Format]

Format	Filename Extension	Version
DXF	*.dxf	R12~ R2018
DWG	*.dwg	R12~ R2018

Supporting formats - 2D/3D export



Outline

List of currently supported formats.

Support
Details

[3D Model Format]

Format	Filename Extension	Version
ACIS	*.sat,*.sab	R16
Parasolid	*.X_T	12.0
STEP	*.STP	AP214
IGES	*.IGS	5.3

[2D Model Format]

Format	Filename Extension	Version
DXF	*.dxf	R2004
DWG	*.dwg	R2004

Precautions and Limitations on use (1/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
1	Uninstall	When AMADA VPSS 3i/4ie (before V1.30.00) is uninstalled while AP100 CAD is running, the AP100 menu may be damaged. Please make sure to close AP100 CAD before uninstalling AMADA VPSS 4ie. If the AP100 menu is damaged for the above reason, it can be restored by installing the patch of AP100.	Undecided
2	Link AP100 with PD	If AP100 is updated or AP100 patch is applied, the following problems may occur. •User can not use [Export to AP100] from PD to AP100. •User can not use [One Push Solid] from AP100 to PD. If the above problems occur, please apply the following patches to fix the problems. •Directory:AMADA3i¥Tools¥ProductionDesigner •Patch:PD_AP100Link_PatchInstaller.exe	Not support *Specification
3	Update	When PD is updated, 3D PDF template folder (("C:¥ProgramData¥AMADA3i¥ProductionDesigner¥PDFTemplate¥Product" and" C:¥ProgramData¥AMADA3i¥ProductionDesigner¥PDFTemplate¥Part")) will be updated. Please back up PD setting data before updating it.	Undecided
4	Save data having same name	If a part/assembly having the same name as the part/assembly that already exists in the folder is newly created and saved to the same folder, the original part/ assembly will be overwritten.	Undecided

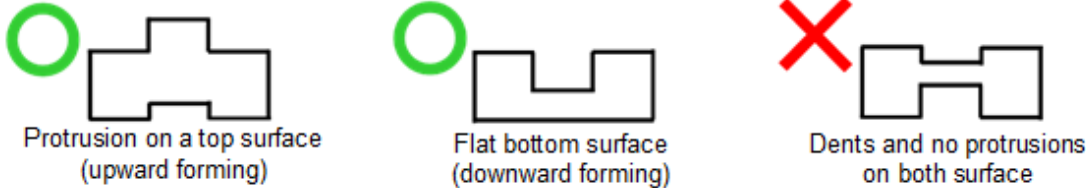
Precautions and Limitations on use (2/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
5	Print	Windows 10 environment has a feature which automatically set a last used printer as a default. This function can be inactivated by setting the procedure below. • Turn off the setting of the section “manage the default printer on Windows” with [Setting] > [Devices] > [Printers & scanners]	Not support *Specification
6	One Push Solid	When reflecting the “forming/special tool registration” information of One Push Solid to Production Designer, Please follow the steps below. ①Back up the mdb file in One Push Solid. ②Restore the mdb file in the ProductionDesigner.	Not support *Specification
7	Quick Access Toolbar	Quick Access Toolbar does not keep the added command information when Production Designer is restarted after adding command on the ribbon toolbar. → From v1.9.300, Add/Delete function to Quick Access Toolbar supports for the command which are listed in the 1st layer of Application Menu.	Not support *Specification
8	Feature Recognize	Formings with dents and no protrusions on both side are not recognized as forming features. To be recognized as a forming, forming should have a plane or protrusion on one side. We are sorry for the inconvenience. Formings and result of recognition 	Not support *Specification

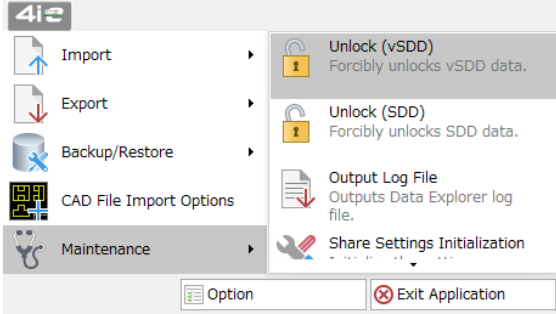

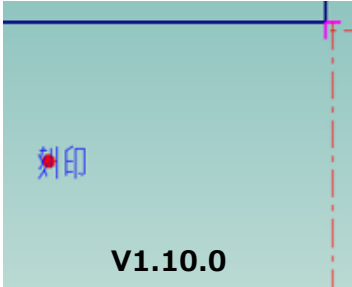
Precautions and Limitations on use (3/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
9	PartLock	<p>When [Open]/[New] command is launched after changing Product/Part Name with [Open]/[Save] file dialog, Product/Part lock is not released even if model is closed. If this is happen, Please release the lock using [Unlock] tool on Data Explorer.</p> 	Not support *Specification
10	Stamping Feature	<p>Although 2Byte character Stamping Feature is supported in V1.10.0, regarding DX, VPSS 4ie WELD, AMNC4ie BEND, the data which 2Byte character was saved in the version before V1.10.0 is shown as square. To show 2Byte character properly, please save the data again. (E.g. Call "SaveAs" and save with same name.)</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	Not support *Specification

Precautions and Limitations on use (4/19)

#	Category	Content	Planned date
11	Method Master	<p>For the Method Name there are some limitations as follow.</p> <p>① Restricted character ! " # \$ % & () = ~ ` { + * } < > ? _ ^ ¥ @ [; :] , . /</p> <p>② Restricted string CON AUX PRN NUL COM0 COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM8 COM9 LPT0 LPT1 LPT2 LPT3 LPT4 LPT5 LPT6 LPT7 LPT8 LPT9</p> <p>③ Limit string length 32</p>	<p>Not support *Specification</p>

Precautions and Limitations on use (5/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
12	Option Settings AP100 Import Settings	<p>When Option Settings - Method Settings - AP100 Import Settings - Multiple Outer Loops -[MOL Cluster] is selected, following function's <u>detail settings are disabled</u> even function's check box is "On".</p> <ul style="list-style-type: none"> * Recognize Extra Entities • Import Points <div data-bbox="1073 439 1585 799"> </div> <div data-bbox="389 799 1019 1306"> <p>Recognize Extra Entities</p> <p>When checked OFF, all open paths are not detected. When checked ON, open paths are detected based on each conditions. If user specifies length, open paths above specified length are detected.</p> <p>Status ● On</p> <p>Recognize open paths inside part area</p> <p><input checked="" type="radio"/> Not specified length Off On</p> <p><input type="radio"/> Specified length 0.00 mm</p> <p>Recognize open paths outside part area</p> <p><input type="radio"/> Not specified length</p> <p><input checked="" type="radio"/> Specified length 99999.999 mm</p> </div> <div data-bbox="1046 799 1599 1306"> <p>Import Points</p> <p>Import points present in the part as per the selected option.</p> <p>Status ● On</p> <p><input type="checkbox"/> Import Inside of Inner Loop/Hole Points Off On</p> <p><input type="checkbox"/> Import Outside of Outer Loop Points</p> </div>	Not support *Specification

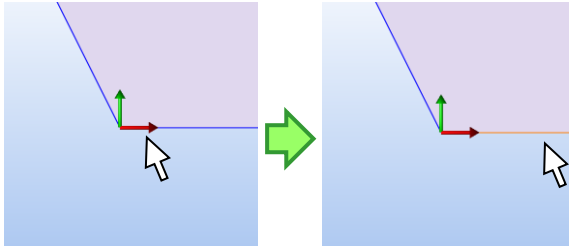
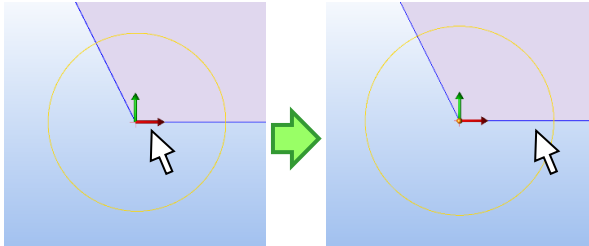
Precautions and Limitations on use (6/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
13	3D Import	By changing 3D converter from HOOPS Exchange to InterOp, part name assign rule behavior is changed only when specific IGES assembly is imported. In InterOp, surface body name is assigned to part name in the case assembly data is output as unified surface body without separating to part.	Not support *Specification
14	New data type	From V2.00.00, new data type "Non-Sheet-Metal-Part" has been supported. This data type is generated when only one non sheet metal part is saved. The data can not be loaded in previous version of V2.00.00. If required to load such data in previous version of V2.00.00, add more part then it will be able to be loaded as a product data.	Not support *Specification
15	Sketch (on 3D Model tab)	<p>When you refer a line/point during Sketch mode, any line/point which is on local/assembly coordinate is hard to be selected. When you want to refer the line, please select a portion which is not overlapping the coordinate. When you want to refer the point, please refer the point with putting a cursor from neighbor line. If you hard to select a point during [Local Coordinate] command, please select a line and origin point.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Refer line case</p>  <p>Please select a portion which is not overlapping the coordinate</p> </div> <div style="text-align: center;"> <p>Refer point case</p>  <p>Please refer the point with putting a cursor from neighbor line</p> </div> </div>	Undecided

Precautions and Limitations on use (7/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
16	Setting Change	<p>While unfold diagram and CAM data have been already made, if you change 3D model setting with 3D model tab, after judged existing unfold diagram and CAM data can be used or not, then you can use CAM data with Apply Method of Method tab.</p> <p>However, you should be careful so that unfold diagram or CAM data which have been already made is not deleted if 3D model is replaced as examples below.</p> <p>Example1 While unfold diagram or CAM data has been already made, if "Export To AP100" is done, editing figure with AP100, "OnePushSolid from PartDrawing" and go back to PD again, unfold diagram and CAM data will be deleted.</p> <p>Example2 While unfold diagram or CAM data has been already made, if editing unfold diagram with Sketch function of Method tab and made fold, bend and welding CAM data will be deleted. (Blank CAM data will be remained.)</p>	<p>Example1: Not support *Specification</p> <p>Example2: Undecided</p>
17	Backup of EstimationWorks	Make sure terminate EstimationWorks (Close EstimationWorks window) when regular backup is done.	Undecided

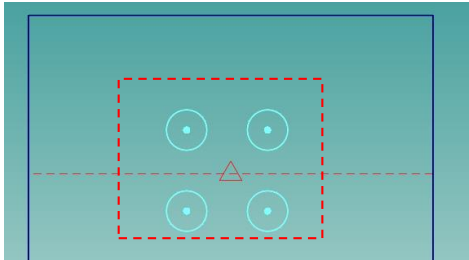
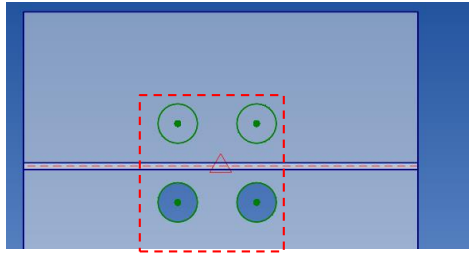
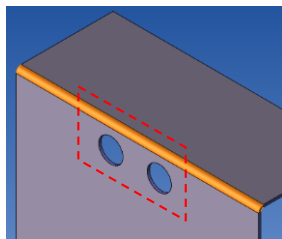
Precautions and Limitations on use (8/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
18	Fold	<p>If a patterned shaped hole/forming is placed across multiple flanges in the unfold diagram, all shapes of the standard hole/forming will not be drawn in the 3D diagram. Only holes and formings on the flange recognized as the hole placement surface are displayed.</p> <p>Method Tab</p>  <p>Fold</p>  	Not support *Specification

Precautions and Limitations on use (9/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
19	3D Edit	<p>When Feature Recognition is executed with “High Accuracy Mode = ON”, sheet metal is created precisely but if flange is edited(offset, insert hole etc.), bend portion is remodeled by legacy behavior.</p> <p>The diagram illustrates a three-step process. Step 1: A 3D model of a sheet metal part is shown. Step 2: An arrow points to a second 3D model where the bend portion is highlighted in orange. Step 3: An arrow points to a third 3D model where the bend portion is remodeled (highlighted in orange) after a flange edit. Above the first arrow is a box labeled 'Feature Recognition' with a sub-box 'High Accuracy Mode' checked. Above the second arrow is a box labeled 'Edit Flange'.</p>	<p>Not support *Specification</p>

Precautions and Limitations on use (10/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
20	SOLIDWORKS Tap Recognition	<p>From SOLIDWORKS 2021 or onwards, please save the data with the following parameter [System Tools] > [Hole Wizard] > [Include data for DELMIA applications] turned ON. The tap created in SOLIDWORKS' Hole Wizard command is recognizable by importing .sldprt saved under this condition to PD.</p> <p>If you have saved taps created with the Hole Wizard in environments earlier than SOLIDWORKS 2021, resave the .sldprt to SOLIDWORKS 2021 or later with the parameter [System Tools] > [Hole Wizard] > [Include data for DELMIA applications] turned ON and import it to PD.</p>	Not support *Specification

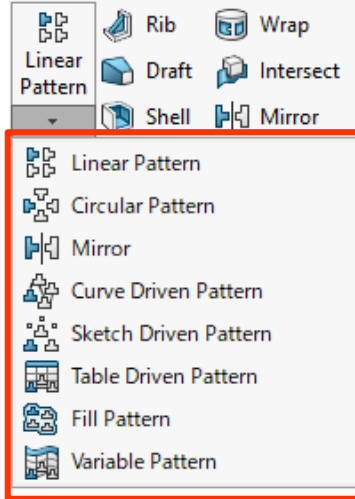
Precautions and Limitations on use (11/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
21	SOLIDWORK S Tap Recognition	<p>Taps drawn with patterns cannot be recognized.</p> 	Undecided

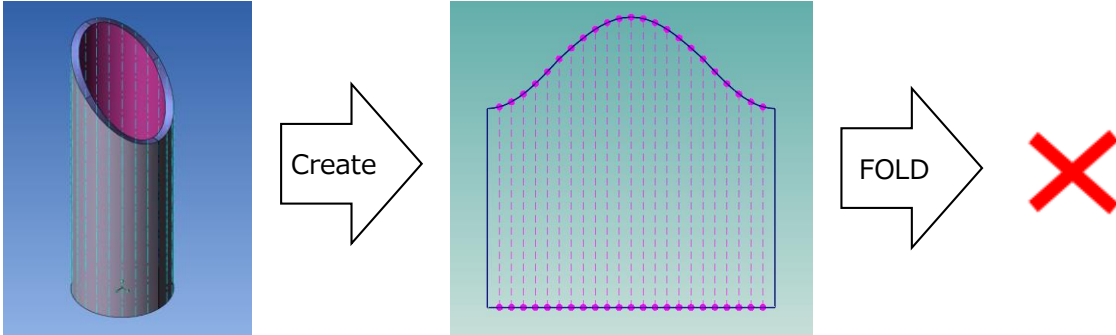
Precautions and Limitations on use (12/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
22	Duct Pattern	<p>The MergedUnfold diagram from the duct shape could not be restored to the original duct shape.</p> 	<p>Not support *Specification</p>
23	Duct Pattern	<p>The Duct model does not support BEND, WELD, TUBE.</p>	<p>Undecided</p>

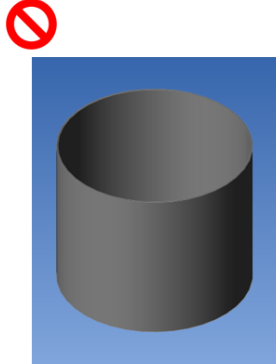
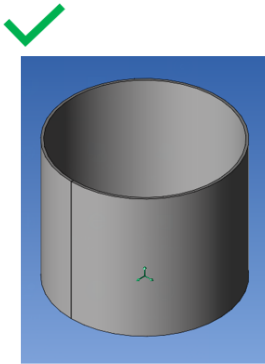
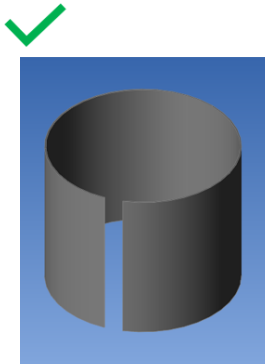
Precautions and Limitations on use (13/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer


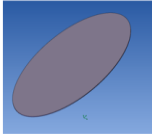

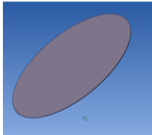

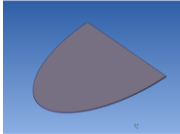

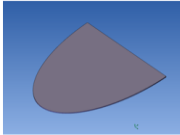

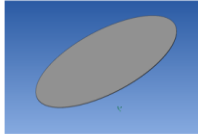

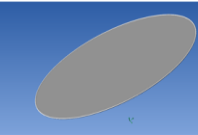


#	Category	Content	Planned date
24	Duct Pattern	Commands for editing the shape of the duct model cannot be used on the 3D tab.	Not support *Specification
25	Duct Pattern	<p>Models that wrap seamlessly are not supported.</p> <div></div>	Not support *Specification

Precautions and Limitations on use (14/19)

PD: Production Designer
 PX: Parameter Explorer
 DX: Data Explorer



#	Category	Content	Planned date
26	Set Welding	<p>Weld Attribute could not be set on Edge of Elliptical Arc and Ellipse. Non Sheet metal could be set for.</p> <div> <div>     </div> <div>     </div> <div>     </div> </div>	Undecided

Precautions and Limitations on use (15/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
27	Auto Batch	Auto Batch is not available for PC where PD is not available. The same is true if a floating license cannot be obtained and PD cannot be started.	Not support *Specification
28	Auto Batch	PD is not available during the Auto Batch process because it uses PD. - Operating with PD - Launching [Open with ProductionDesigner] from DX - Launching [Manual] command from ABE Planner Bend	Not support *Specification
29	Auto Batch	Auto Batch automatically saves data to the specified vSDD folders. Because data collisions may result in data corruption, specify a folder other than vSDD folders used for [Full Auto] operation of other applications.	Not support *Specification
30	Auto Batch	You cannot overwrite vSDD data, Estimation Works, 3D data, or DXF/DWG files that are exported in Auto Batch. If the same name data already exists in the output destination, no data is output.	Not support *Specification

Precautions and Limitations on use (16/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
31	Auto Batch	<p>The following 3D filename configurations are not supported for Auto Batch:</p> <ul style="list-style-type: none"> - Same name 3D filename with different extensions. Since the data names on PD are the same, the second and subsequent 3D data cannot be saved SEM, estimated, or exported to a file, and only the last batched 3D file remains in the process log. Even if 3D filename is an alias, the data name on PD may be the same if Options is turned ON. In that case, we will not support it in the same way. <div data-bbox="459 602 1309 745"> </div> <ul style="list-style-type: none"> -A SOLIDWORKS format file, an assembly file that contains subassemblies (.SLDASM). -Multiple assembly files (.SLDASM) that Refer the same part file (.SLDPRT) in a file in SOLIDWORKS format. -Running an Auto Batch on a 3D file that can not be processed in FR (e.g., a sketch-only file, a version not supported by PD).Then data is stored in vSDD as a empty. If there is more than one such 3D file, only the last batched file will be logged. -A part 3D file in which multiple parts are recognized when a shape is recognized by a PD. If there is more than one such 3D file, only the last batched file will be logged. 	Undecided
32	Auto Batch	Auto Batch only supports saving to vSDD. Not supporting the SDD.	Undecided

Precautions and Limitations on use (17/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
33	CAD Macro STEP2	Decomposite and new load of CAD Macro is not supported.	Undecided
34	CAD Macro STEP2	When a CAD Macro is passed between PD and 2D-CAD/AP100, Macro registration and forming/special tool registration must be done for both SDD/vSDD.	Not support *Specification
35	CAD Macro STEP2	The following commands are not applicable because they invert the CAD Macro. -Mirror -Face Attachment -Smart Corner-Add Bend	Undecided

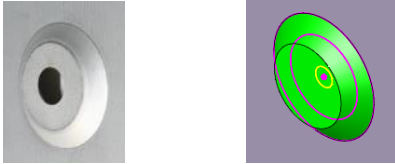

Precautions and Limitations on use (18/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
36	Hole Out of Flange	<p>It is not possible to use the flange, hole insertion command, or hole editing function of the Hole-Chart to place the hole and forming in such a way that they interfere, as shown in the figure below.</p> <p>*It is possible to create a 3D model using One-Push-Solid by creating 2D-CAD parts drawings and unfold drawings in which the standard hole and forming are placed at the same point.</p> 	Undecided
37	Hole Out of Flange	<p>In the case of a 2D-CAD unfold diagram where closed loops are in contact with each other at one point, as shown in the figure below, one-push-solid and folding of unfold diagram are not applicable. A warning will be displayed when using One-Push-Solid / Fold for a part drawing, and these closed loop will be missing in the 3D model.</p> 	Undecided

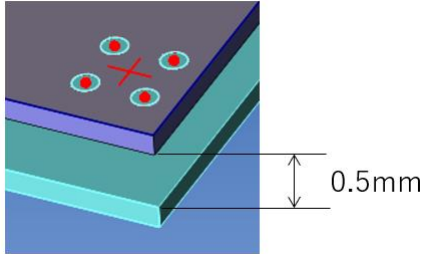
Precautions and Limitations on use (19/19)

PD: Production Designer

PX: Parameter Explorer

DX: Data Explorer



#	Category	Content	Planned date
38	Auto-Save function	CAM DATA(BLANK,BEND,ARBEND) cannot be Saved/Restored automatically.	Undecided
39	Laser Spot Welding	<p>When the distance from target Flange of Spot Welding to the base flange is longer than 0.5mm, the Spot Weld is not displayed in WELD CAM.</p> 	Undecided