

# DYNAFORM 6.0.4

## Update Notes 05/2020

**May 28, 2020**

### **General Function**

1. Fixed a tree display error when switching tabs in Operations.
2. Added a new feature in Group Surface to automatically expand to all surfaces after selecting the seed surface.
3. Fixed a bug that caused the Fill Hole function to fail for some cases.
4. Fixed a bug in Combine Element that failed to exit the dialog after the Combine operation failure.
5. Fixed a bug in the Surface Transform that caused an error in the mirrored surfaces.

### **Blank Size Engineering (BSE)**

1. Fixed a bug when exporting the nesting result.
2. Fixed a bug in Two Parts that caused an error in tipping after rounding the tipping result.
3. Fixed a bug that caused an error in tipping resetting after resetting the symmetry.
4. Fixed a bug in the mirroring result that caused an asymmetry in the bridge connection after editing S shaped bridge connection.
5. Fixed a bug that caused the program to crash when switching BSE and Geometry Manager after importing the mesh.

### **Sheet Forming**

1. Fixed a bug that caused an error in the temp file path creation.
2. Changed the title card in the input deck file.
3. Added an option in the Option Center, allowing the user to decide whether to save the current model file after submitting job.
4. Fixed a bug that failed to do 2D trimming for special cases.
5. Improved the trimming solver to support 3D trim when the trim line was not close to the model.
6. Fixed the line bead name in the index file, making it consistent in Pre and Post of Dynaform.
7. Fixed a bug in outputting the duplicated point in the adaptive curve.
8. Fixed a display bug in FLC.
9. Fixed a bug that caused the tool display failure when it was turned on.
10. Set IGAP=2 for blank self-contact in the gravity loading.
11. Fixed a bug that caused an error in reading the file path in Chinese characters.
12. Fixed a bug that caused an error in the tools' normal.

13. Fixed a bug that caused the Variable Segments function to crash after splitting the drawbead.
14. Fixed a bug in Blank Generator to fit the selected curves to rectangle.

## **Result View**

1. Fixed a crash bug in reviewing one group result file when opening multiple files.
2. Fixed a crash bug in the Springback distance operation for special case.
3. Fixed a crash bug in toggling on the Element option when reviewing all contour functions.
4. Fixed a bug that caused the program to display slowly when switching Pre to Post.
5. Added a "Simple/Advanced" option into the Option Center to control the contour displaying algorithm.
6. Fixed a bug in reading the binout file which was the binary format for Tonnage Prediction.
7. Fixed a bug that caused the Springback Distance CMM function to fail when directly reading dynain file.
8. Improved the ability of multiple views for Post.
9. Fixed a bug that the defined LCS was not reversed after closing the definition dialog under white background color.
10. Fixed a bug that the pre label did not disappear after switching Post to Pre.
11. Fixed a bug that caused an error in tools display in multi-view mode.
12. Fixed a bug that caused an error in the frame selection color display in the drawbead function.
13. Fixed a bug that caused the program to crash when entering the Face Reflection function.
14. Fixed a bug that the frame selection status was not proper in the Springback Distance function.
15. Added "%" in the contour bar list for thinning the result plot.
16. Fixed a bug that the scale factor did not work in allowable blank of the deformation.

## **ETA Report**

1. Fixed a description error in the Report.

**Apr. 13, 2020**

### **General Function**

1. Supported Enter confirmation in New Project dialog.
2. Added the Split Line function in Geometry Manager.
3. Fixed a crash bug that changed the layer's name after the Delete Mesh dialog.
4. Fixed a bug in selecting wrong elements by the spread with the zero degree.
5. Added the shortcut key "Hold Middle Mouse Button and Left Mouse Button" for the operation Zoom in and out in NX style.

### **Blank Size Engineering (BSE)**

1. Added the ability to define the Flange.
2. Added the option to define the same material or thickness for the tailor welded blanks.
3. Moved the tool definition of the Pad, Holder and Curve Binder to the Unfold.
4. Changed Auto Tipping method to Element Average Normal and Maximum Width.
5. Improved the nesting result with the table.
6. Added S shaped bridge connection in Progressive Nesting.
7. Fixed a bug that caused an error in Outline due to Auto Tipping error in some cases.
8. Fixed a bug that caused Dynaform program to be suspended animation when it is failed to run the job with MStep.
9. Improved the display of nesting results.
10. Added the Inner Fill function in Boundary.
11. Fixed a bug that failed to output the blank when outputting Progressive nesting results.
12. Fixed a bug that caused the size marking in the nesting result to be overlapped with the leading wire.
13. Fixed a crash bug in Double Fill.
14. Fixed a bug that caused the image to be not completely displayed or centered in Excel nesting report.
15. Optimized the function in overlapping between the outline and the sheet in Shading mode after unfolding the outline.

### **Sheet Forming**

1. Added the Apply button under Tool Mesh Parameter, allowing the user to re-mesh all tools for the current stage.
2. Changed the Guide Pin label into red when the geometry was not defined for user-defined guide pin.
3. Fixed a bug that caused the blank geometry to disappear and display with Undefined after defining the blank symmetry.
4. Fixed a bug that caused an error in the height for Guide Pin after updating the holder stroke.
5. Fixed a bug that duplicated nodes were included in the contact for Guide Pin.

6. Fixed a bug that caused the program to crash when inputting greater tool velocity.
7. Added the ability to restrict the maximum diameter of Guide Pin.
8. Added the ability to display the prompt message when deleting Guide Pin.
9. Modified the default direction in Define dialog in Guide Pin direction.
10. Fixed a bug in the washer mesh adaptive message.
11. Modified a bug that caused the blank position error after adding washer mesh.
12. Added the limitation of the two center lines when creating geometry beads.
13. Fixed a bug that the velocity of the tool was not updated after changing it in the animation.
14. Fixed a bug that the contact definition was gone when defining more than one tool contact with the unfixed tool.
15. Added the ability to reduce the binder stroke for the double action.
16. Added an option to define the default gap between the tool and blank.

### **Result View**

1. Added the ability to turn on/off the curves in the model tree.
2. Improved the GUI and Process for Select Node, Select Element, Select Line and Select Coordinate.
3. Added the ability to support the mouse operations style of NX, Catia and SolidWorks.
4. Added the ability to create lines in Skid Mark.
5. Fixed a bug that caused the frame name error in the gravity and trimming stages.
6. Fixed a bug that the trim line was not imported.
7. Fixed a bug that the curve cannot be cleared when showing the Node/Element Value Curve.
8. Fixed a bug in the Tonnage Prediction that the number was not updated after changing the unit.
9. Added the ability to show the element edge in FLD.
10. Fixed a bug that caused the frame error after clearing the part in FLD.
11. Fixed a bug that caused an error in the the adaptive mesh edge when playing the animation.
12. Fixed a bug that caused the slow display speed when toggling on Contour Region.

### **ETA Report**

1. Fixed a stage information error for the multi-stages.
2. Fixed an updating error after clicking Undo.

**Feb. 21, 2020**

### **General Function**

1. Fixed a bug in Boundary Line that caused an error in the generated line.
2. Improved the Transform function to keep the selected surfaces, elements or curves after clicking Apply.
3. Fixed a bug that caused an error in the job name when running MPP job.
4. Fixed a bug in Job Submitter that failed to run the job when there were spaces in the Job path.
5. Added the shortcut key operation “zoom in and out” for Catia style.
6. Fixed a bug in multi-view that caused the program to crash when the first view was the result and then switched to one view.
7. Fixed a bug that caused bad imported surfaces for some stp files.
8. Fixed a bug that failed to open the result when switching Sheet Forming to BSE and then back to Sheet Forming.
9. Fixed the display error for the imported curves when switching Sheet Forming to BSE.
10. Improved the trace function when selecting coordinate.
11. Supported to generate the middle surfaces, upper or lower group surfaces for the unclosed surfaces.

### **Blank Size Engineering (BSE)**

1. Added the function to calculate the springback.
2. Improved the Process Wizard to support to switch Simple mode to Advanced Mode.
3. Added the ability to list the No. of blanks per row and column for plate and coil strip.
4. Added the ability to allow the blank outline to cross the upper or lower carrier by defining the minus value of the gap between the blank and upper or lower carrier of the strip.
5. Added the ability to support multi-row layout in Nesting.
6. Supported unfolding of Tailor Welded (TWB) part with opening.
7. Supported to mesh the part automatically or manually.
8. Fixed a bug in Addendum function of BSE that caused the expansion line to be unclosed in some cases.
9. Fixed a bug in BSE that caused the incomplete display of batch nesting results.

### **Sheet Forming**

1. Fixed a bug in Simulation Data Manager that changed the tool offset type from Geometry offset to Contact offset when copying an operation.
2. Fixed a bug that caused an error in positioning the blank in the flanging stage.
3. Fixed a bug in Simulation Data Manager that caused the program to delete d3plot files when creating new operations.

4. Improved the symmetry plane definition, allowing the user to define symmetry plane for the blank created by the outline.
5. Fixed a bug in UtilityBatch that failed to do the 3D Trimming.
6. Fixed a bug in Position Home function that failed to define the selected tool in Setup tab.
7. Fixed a bug in the tool normal that adjusted wrong normal direction for some cases.
8. Fixed a bug that failed to update the velocity when changing the value in the animation window.
9. Fixed a bug that the output keywork file were still geometry beads after converting geometry beads back to line beads in the model.
10. Removed Simulation tab to keep Control and Job tabs the same level with Operation tab.
11. Fixed the display error of the Press Coordinate System for more than one analysis in Simulation Data Manager.

### **Result View**

1. Added the ability to list the extra history variables in Contour.

### **ETA Report**

1. Fixed a bug in Excel Mode that caused the program to crash when inserting the chart.
2. Fixed an updating result Null issue after clicking Apply.
3. Added ETA-Report into Startup menu.
4. Included the template and instruction PPT into the installation package.