



Version 6.2

Release Notes 5/2022

eta/DYNAFORM 6.2 is the sixth-generation die system simulation solution. It provides a user-friendly and intuitive interface with streamlined process design. The stamping simulation process is fully based on the actual stamping process, which requires less CAE knowledge, and minimum geometry and mesh operations.

Significant Enhancements

1. Added Tube Forming module, supporting tube bending, pre-forming and hydroforming definition in one module.

New Features in Material Library

1. Supported to create new material standards and import multiple materials at a time.

Capabilities, Features and Functions in Tube Forming

1. Supported to define the tube product geometry, identify the tube Start/End side automatically, and supported to edit the mesh of tube product.
2. Supported the Hole Fill, End Fill and Boundary Fill in the Morphing function.
3. Calculated the Center Line by the tube product geometry. Supported to define the Center Line manually, and supported to edit the Center Line.
4. Supported to show the section cut, circumference and strain in the Center Line function.
5. Supported to create the simple preforming tools with the specified base line and supported to define tools to run Pre-forming.
6. Supported to define the Bending Process automatically or manually.
7. Supported to simulate the Bending process with one-step method.

8. Supported to create Bending tools with the defined bending table automatically.
9. Supported the animation in the Tube Forming process.
10. Supported the die face design for hydroforming:
 - a. Supported to create End Extension for the tube.
 - b. Supported to calculate the center line with the added geometry.
 - c. Supported to calculate and edit the separation lines for the tools.
 - d. Supported to separate the geometry and create the hydroforming tools with the defined parameters.
11. Managed all curves created in Tube Forming.
12. Managed all tools created in Die Face of Tube Forming.
13. Added follow-up control for push assist in Tube Forming.
14. Allowed user to specify the bending die radius.

Newly Enhanced Capabilities, Features and Functions in Geometry Manager

1. Supported to select Surface by Spread method.
2. Saved the thickness information for the solid part.
3. Supported to add the curve to the other layer.
4. Supported to export DXF format file.

Newly Enhanced Capabilities, Features and Functions in BSE

1. Used the relative path for nesting picture in the html report.
2. Supported PDF format in the nesting report.
3. Supported to define min. and max. thinning limit values in the material library.
4. Supported to define parameters of carrier width in Option Center.
5. Supported to create inner fill in *Simple* mode.
6. Supported "Tangent" and "Non-tangent" inner fill.
7. Automatic thickness detection in *Simple* mode and *Advanced* mode.
8. Improved the accuracy of product weight for solid body.
9. Simplified the steps to change the mesh size in *Simple* mode.

10. Added three options to select predefined mesh parameters: Fine, Regular and Rough.
11. Added ID for the boundary restraint condition.
12. Improved the utilization of the multi-rows nesting.
13. Supported to offset the corner with the arc to improve the nesting utilization.
14. Supported to do the nesting with the specified width.
15. Supported to add the Bridge Connection between any parts on the same side of the carrier.
16. Added an option in Option Center to support to combine Sheet and Inner Fill FLDs in Post.

Newly Enhanced Capabilities, Features and Functions in Sheet Forming

1. Auto created Guide Pin with the new outer line in Blank/Trim Line Development.

Newly Enhanced Capabilities, Features and Functions in Post

1. Supported to create Boundary Line.
2. Global List Value for each contour or check result.
3. Added the pressure curve in the load card in the index file for Post to read the curve.
4. Supported to combine Sheet and Inner Fill FLDs for BSE.
5. Improved the shading speed in Post.
6. Added the Hidden Surface mode for FLD and contour.
7. Added the more list value option and table for Edge Move and Edge Stretch.
8. Moved the contour setting to the pop-up menu with the right mouse button.
9. Added the Coordinate manager.
10. Supported the Ironing Rate function.
11. Supported ARGUS DYNAIN file format.
12. Supported the Wrinkling Amplifier function.
13. Supported to show the current stage tools only.
14. Supported to read thinning range from index file.

15. Improved to read INTFOR file and handle INTFOR part name.

Newly Enhanced Capabilities, Features and Functions in ETA Report

1. Automatically set the default step for the Springback Distance function.
2. Found the appropriate step according to the From Home distance for different result files.
3. Always activated the Plot 'From Post' button in the two result files.
4. Widened the Edit Object dialog to display more information in the frame list.
5. Supported the Springback Distance function.