

AutoForm R8.0.2

Release Notes
AutoForm Forming

 **AUTOFORM**
Forming Reality

AutoForm R8.0.2 – Release Notes

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1 General Information

AutoForm Forming R8.0.2 is the second released patch version of AutoForm Forming R8.

With the AutoForm Forming R8.0.2 patch several significant bugs in AutoForm Forming have been fixed. For more detailed information, please refer to section 3 Release Content.

NOTE: It is mandatory to update front-end and back-end modules in order to ensure mutual compatibility! There are no changes except bug fixes in AutoForm-Solver R8.0.2 which means that simulation results are identical to those of AutoForm-Solver R8!

The compatibility of data files between AutoForm R8 and AutoForm R8.0.2 is bi-directional, meaning that data files created with AutoForm R8.0.2 can be processed in AutoForm R8 (and all R8 patch versions) and vice versa.

2 Installation Instructions

IMPORTANT NOTE: It is mandatory to update front-end and back-end modules in order to ensure mutual compatibility!

Front-End and Back-End Windows

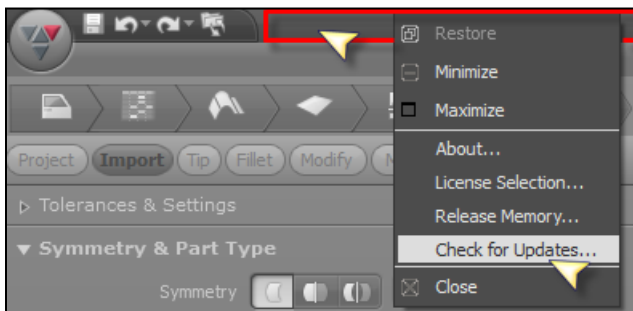
Prerequisites

The Windows patch installer updates a few files of the previously installed AutoForm Forming R8. The patch installer will not change any configuration (installation folder, license server configuration, etc.).

NOTE: It is essential that all AutoForm Forming R8 applications are closed before starting the patch installation!

Download of Installation Files

1. Start AutoForm Forming R8.
2. Right click on title bar of AutoForm Forming R8 window and select the command **Check for Updates...**



3. AutoForm Software Updates download page is opened in the internet browser.
4. Select the link to download AutoForm Forming R8.0.2 Windows 64 bit patch installation file.

Installation

1. Download the installation file AutoForm Forming R8.0.2 Patch Installer EN.zip as described above.
2. Log in using an administrator account.
3. Unzip the installation file.
4. Execute file AutoForm R8.0.2 Patch.exe.
5. Select **Install** in the **Welcome** dialog.
6. Depending on your user account control level, you are asked for administrator privileges.
7. After the patch installation is finished, quit the installer by clicking on the **Finish** button.

Silent Installer Windows

Command line for the patch installer:

```
msiexec /I "[AF_PATCH].msp" /quiet /passive /qn /norestart  
LIC_HOST="[LIC_SERVER_VAR]" LIC_HOST="[LIC_SERVER_VAR]"  
MAIN_INSTALL_LANG="[ProductLanguage]" REINSTALLMODE="ecmus"  
SINGLE_INSTALL="set" /L*V [TempFolder]debug_patch_R8.0.2.log
```

Example:

```
msiexec /I "AutoForm Forming R8.0.2 Patch Installer.msp" /quiet /passive /qn /norestart  
LIC_HOST="2375@licenseservername" LIC_HOST="F" MAIN_INSTALL_LANG="1033"  
REINSTALLMODE="ecmus" SINGLE_INSTALL="set" /L*V  
[TempFolder]debug_patch_R8.0.2.log
```

Back-End Linux

NOTE: It is essential that all AutoForm Forming R8 applications are closed before starting the patch installation!

Download of Installation Files

Open AutoForm Updates download page in your internet browser:

<http://www.autoform.com/en/products/software-updates/>

1. AutoForm Software Updates download page is opened in the internet browser.
2. Select the link to download AutoForm R8.0.2 Linux 64 bit patch installation file.

Installation

1. Download the installation file `AFForming_R8_0_2_Remote_Linux64.tar.gz` as described above.

2. Login in as root

3. Create the AutoForm installation directory (in the following `/opt/AutoForm/AFplus` is assumed to be the installation directory, but any directory will do)

```
mkdir -p /opt/AutoForm/AFplus
```

4. Copy the archive into the AutoForm installation directory:

```
cp AFForming_R8_0_2_Remote_Linux64.tar.gz /opt/AutoForm/AFplus
```

5. Unpack the archive in the AutoForm installation directory:

```
cd /opt/AutoForm/AFplus
```

```
tar zxvf AFForming_R8_0_2_Remote_Linux64.tar.gz
```

6. Run the installation script:

```
cd R8F/installation ./install [nobody|root]
```

For more information see [Installation Guide R8](#).

3 Release Content

New Features

The version R8.0.2 does not contain any **New** feature.

Modified Features

The version R8.0.2 does not contain any **Modified** feature.

Fixed Bugs

General

Restart Simulation Restart simulation wrongly stopped with an error message: "Invalid modification of restart simulation input. Operations that occurred before the restart point may not be changed. The definition of operation X has been modified."

- Part to Keep was wrongly re-calculated in Restart Design.
- Die Face did a wrong update.

Load & Set Evaluation Standard

- After Load & Set Evaluation Standard Settings button on Evaluation Stage turned into red color.
- After Load & Set Evaluation Standard parameters defined as Default wrongly turned into yellow color.

Automatically set Standards by New Design: Evaluation

- Application crashed when Evaluation Standard was automatically set for a new design.
- Application crashed when Evaluation Standard was automatically set for a new design and Use Evaluation Area was activated.

Standard Editor > Layout for Discrete Scale Discrete Scale Layout for Sheet Results and Geometry Results was different.

Control Parameters Standard > Skid Lines Check Radius	Option Abs/Rel was missing for Skid Lines - Check Radius in Control Parameters Standard.
Design Standard > Friction Coefficient (Die Face - Developed Blank)	Parameter Friction Coefficient (Die Face - Developed Blank) was not used in Forming application (Die Face Stage > Formchk > Friction Coefficient).
Application Menu > Open... > Multiple Files	Loading multiple designs at once could have caused: <ul style="list-style-type: none"> • Endless loop for loading one design. • Application crash.
Redo last action on Strip > Layout	<ul style="list-style-type: none"> • Application crashed when Redo last action was done to Delete Strip > Layout. • Application crashed when Redo last action was done set Used Variant on Strip > Layout. • Application crashed when Redo last action was done to Delete Strip > Layout > Variants.
Section on Part Geometry	Application crashed when Section was defined on Part Geometry.
Part	
Replace Part Geometry	After Replace... Part Geometry outer part boundary was wrongly defined as hole or cutout.
Formcheck	Material Files with Forming Limit Curve defined as Table causes wrong Formcheck results.
Import > STEP File	A certain STEP file could not be imported.
Import > CATIA V5-6R2019	CATPart files of CATIA V5-6R2019 could not be imported.

Material & Lubrication

Expiry Date of Lubrication Files Now, material files can be encrypted using AFPProtectLubrication.exe and the expiration date as parameter (-date YYYY MM DD).

Compensator

Non Rigid Registration with Symmetry condition Symmetry condition was not correctly considered for Non Rigid Registration. Therefore, when evaluating Displacement from Reference, even for elements adjacent to symmetry plane, showed wrongly displacement normal to Symmetry plane (Displ Ref Y-Dir or Displ Ref X-Dir).

Plan

Trim Plan Editor > Draw-In Application crashed for some rare cases when Draw-In curve was edited and modification was confirmed with OK.

Pressline View Application crashed for some rare cases when Pressline View was activated on Plan Stage.

Production Page > Delete Multiple Operations Application crashed when multiple Operations were selected and Delete Operation was chosen.

Die Face

Trim Plan & Symmetrical Parts For some rare cases of symmetrical parts...

- Draw-in curve was not correctly taken over from Trim Plan to Trimcheck.
- Editing Trim Plan (e.g. Delete Connectors) caused additional wrong operation labels.

Modify > Trim Application crashed when a Trim feature (which was listed after 2 Preform features) was deleted or applied.

Modify > Gainer Application crashed when a Gainer feature was added.

Trimchk Trim Curve was not developed, but projected due to wrong internal data structure.

Process

Stepbead > Reduction Application crashed in one specific example when Reduction Strategy: 0 Strategy parameter was set to 0 for Profile Type Step.

Drawbead > Drawbead Application crashed when Drawbead Curve was set to Dependent... Curve on an Imported (Part > Import > Generic) curve without having defined Material Thickness (Part Stage > Material).

Fold Away Tools & In Hotforming set-ups Fold away at Distance was wrongly defined. Hotforming

Lube > Lubrication One tool was missing in the Tools list when setting up separate Conditions Lubrication Conditions for each tool (Separate for Each Tool of D-20).

Import Motion Curve Motion Curve was wrongly imported and converted to a non-valid Solver input.

Evaluation

Top/Bottom Layer Top/Bottom Layer evaluation did not work for Curvature result variables.

Mat Views Application crashed when Mat View was added in base design, dependent restart design was simulated and finally Mat View was activated.

Remote Computing

Simulation Stage > Sigma Page > Log Deactivated Log button (since log was empty) was wrongly activated after Extract Realization.

Re-connect to Sigma Job running on Remote Computer Re-connect from AutoForm Forming application on local computer to Sigma Job on remote computer failed since AutoForm Forming application was used once before without network connection.

Solver

Hotforming & 3D Heat Conduction For the rare case of combining "Cycles > User Defined", "Opening of Tools > Accurate Opening..." and "Support > Lock during Opening" Solver stopped with warning.

Note: To repair an existing design (< Forming R8.0.2) open the design and save it with Save as...!

TriboForm Plug-In & Patchwork Blanks Using advanced friction model of TriboForm Plug-In caused abnormal termination of FormingSolver.

Material File caused FormingSovler termination One specific material card (aluminium) caused termination of FormingSolver with error message:
Error in material routine of elastic-plastic shell: Material integration failed (No convergence in closest point iteration). Please check the material descriptions. Hardening curve must be given in logarithmic plastic strain and true stress. Measured hardening curves should be smoothed before use.

Trimline Optimization

Delete Cracked Elements "Delete Cracked Elements" could not be activated when running a Trimline Optimization.

Input Modification sets Max Deviation to 0 Some input modifications set Max Deviation value to 0. Application crashed when Max Deviation value was edited.

Report Manager

Strip > Layout > Shape 2 Shape 2 of Strip > Layout was missing in Report Manager (Part > Strip Concept > Weights And Prices).

Sigma

Tooltips by mouse over When evaluation Sigma results (Histogram, Scatter Plot, Influence Plot...) tooltips by mouse over were shown for too short period.

Cp (noise variation) of Displacement from Reference 3D sheet rendering for Cp (noise variation) of Displacement from Reference was not smoothed.

QuickLink

Share via QuickLink & Special characters in Design File Name Generated .zip files got wrong name when design file name contained special characters.

Share via QuickLink > Rollers (for Hemming)

- Identification (GUID) of Hemming Rollers was missing.
- Conus Angle was wrongly given in radian. Now, it is in degrees.

Progressive Dies

Station Labels for Progressive Dies With the entry "Show Operation Boundaries and Labels" in Application Toolbar > Annotations > Annotation Options Labels for each Station are displayed in 3D View if Pressline View is activated.

Trim Plan Editor & Tipping direction Trim Plan Editor used Part Tipping (Part Stage > Tip Page).
Now, Trim Plan Editor uses Strip Tipping (Part Stage > Strip Page).

Blank Plan & Symmetry Activating Use Symmetry in Blank Plan Editor caused wrong visualization of strip alongside symmetry plan.

Plan Stage > Blank Outline	Blank Outline was duplicated after adding Custom Press and using Autoplan.
Plan Stage > Blank Outline	For some rare cases Scrap Pieces were wrongly derived from Developed Part Outline (Part Stage > Strip Page).
Evaluation Stage > Forces > Tooltip	<p>Tooltip for Pilot Forces on Evaluation Stage > Forces were wrongly shown in kN.</p> <p>Now, Pilot Forces are correctly shown in N.</p>
OP Boundary in Pressline View with Symmetry	OP Boundary was only shown half in case of symmetry (on the opposite side of the sheet).
Pilot Group	Pilot Groups, dependent on Strip (Base Points > Dependent... > Strip...), were not updated when Strip was changed.
Cutting Tools for Pilot Holes with Symmetry (Half Input, Symmetrical)	<p>Each single Pilot Hole (on Plan Stage) has got 2 Cutting Tools (on Process Stage) which caused a Solver termination.</p> <p>Now, symmetry (Half Input, Symmetrical) is not doubling anymore cutting tools on Process Stage.</p>
Copy Pilot Group To All Other Stations with Symmetry	Copied Pilots were wrongly oriented on one symmetry side for Stations with different tippi
Pilot orientation after Tipping modification	When Tipping of an operation was changed Pilots of this operation were also changed and did not anymore fit to strip.
Step Beads	Step Beads were wrongly oriented in case of Progressive Dies.

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