

# Easy 2025 Release Notes



November 2024  
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# Easy 2025 Release Notes

## 1 Installing

Please note that installing Easy Release 2025 will not overwrite an older (2024, 2023, ...) existing installation of Easy. You can use Easy 2025 and an older release of Easy on the same computer.

## 2 System Requirements

Operating systems:

- Windows 11 (current service pack) 64-bit
- Windows 10 (current service pack) 64-bit

Minimum Hardware:

- A graphic card with an OpenGL accelerator is strongly recommended.

## 3 New program Easy.Static

For the Easy Release 2025, we have focused on the further development of the new Easy.Static module. The changes are listed below.

A highlight of this Easy.Static version is the ability to calculate several load cases in parallel. This can save a considerable amount of time.

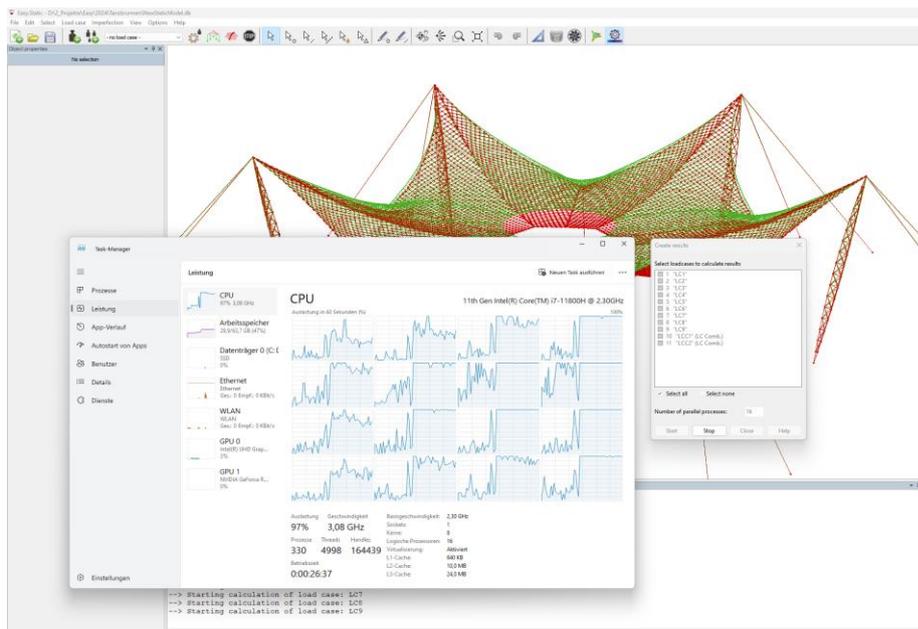


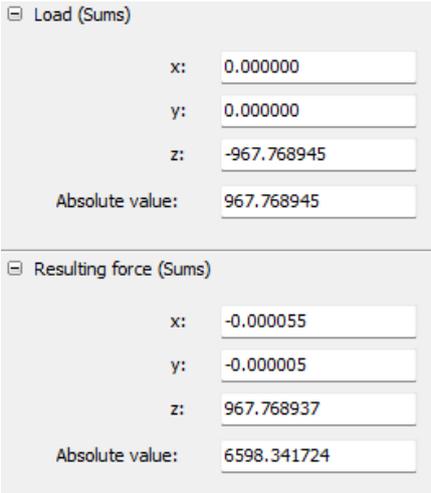
Figure 1: Parallel calculation of load cases

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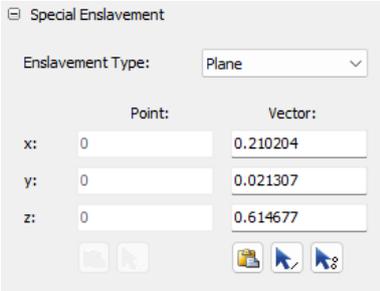
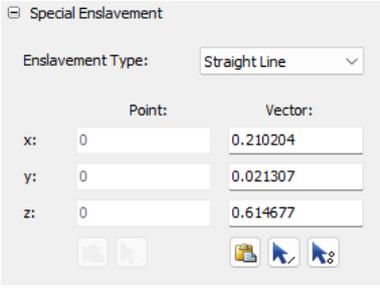
All new features are listed in the following tables. Some of the new features relating to release number 2024 are also listed. The 2024 changes will be officially released with this 2025 release.

Modul	Type	Description
Easy.Static 2025.0.0.10	Enhancement	Including eccentricities in the visualisation of beam cross-sections.
	Change	The term for the inclination ( $\phi$ ) for imperfections has been changed.
	Bug fix	Further graphic updates to the legends have been added.
	Enhancement	When moving points, the drag points of the surfaces and the local systems of the link are tracked.
	Enhancement	Option for displaying unfixed translational points.
	Bug fix	Crash when picking objects for load cases.
	Enhancement	New function 'Replace model point and link attributes' to replace the model data.
	Enhancement	Optimisation when considering enslavements.
	Enhancement	Summation of loads/result forces with multi-selection of result points.  <p>The screenshot shows two sections of a software interface. The first section is titled 'Load (Sums)' and contains four input fields: 'x:' with value 0.000000, 'y:' with value 0.000000, 'z:' with value -967.768945, and 'Absolute value:' with value 967.768945. The second section is titled 'Resulting force (Sums)' and contains four input fields: 'x:' with value -0.000055, 'y:' with value -0.000005, 'z:' with value 967.768937, and 'Absolute value:' with value 6598.341724.</p>
	Enhancement	Speed optimisation in the project explorer.
	Bug fix	Error when deleting chambers.

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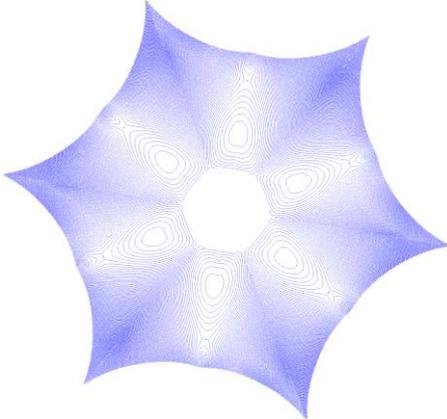
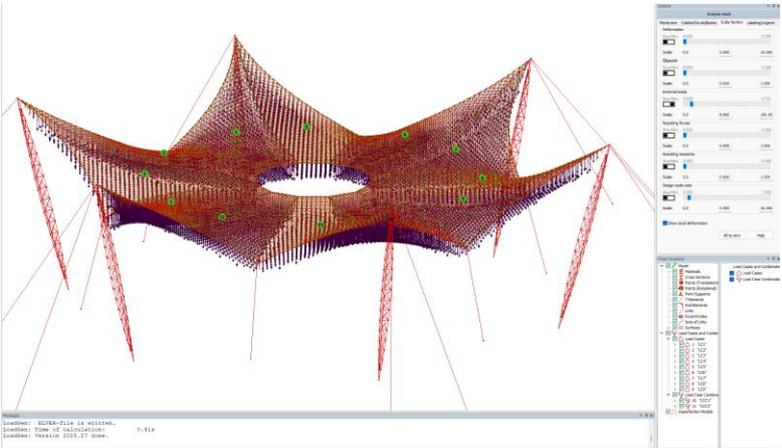
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Easy.Static 2025.0.0.10	Enhancement	Parallel calculation: Several load cases can be calculated simultaneously in the 'Create result of any load case...' function. This makes better use of the CPU cores and shortens the calculation time.
	Enhancement	New type for area load: Normal force
	Enhancement	New material type 'General' can be used for misc. material.
	Enhancement	Enslavements at rotational points: can be fixed in one or two directions.   
	Change	Axis names in legend.

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	<p>Enhancement</p>	<p>The contour lines can now be displayed directly in Easy.Static on a load case basis. This makes it easy to identify ponding problems.</p> 
	<p>Enhancement</p>	<p>Crossing selection when the selection box is raised from right to left.</p>
	<p>Enhancement</p>	<p>New function ,Export data to EASY files...' for writing model and result data to EASY ascii formats.</p>
	<p>Enhancement</p>	<p>New function ,Import definitions from other database' to read material, cross section and load case definitions from an other database.</p>
	<p>Enhancement</p>	<p>Show stiffness value of links.</p>
	<p>Enhancement</p>	<p>Visualise triangle vectors (surfaces and chambers).</p>
	<p>Enhancement</p>	<p>New function: Switch orientation of triangles (surfaces and chambers).</p>
	<p>Enhancement</p>	<p>New function: Calculate loads only              With this function only the loads are determined. The load vectors can be visualized in the result.</p> 

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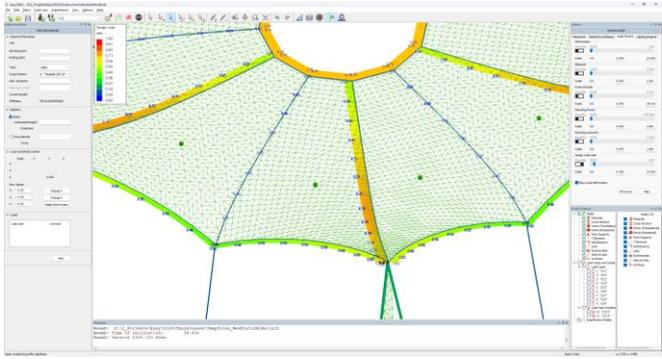
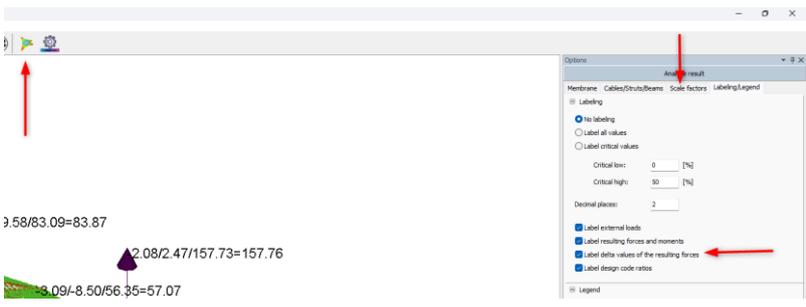
	Enhancement	On/off switch for all sliders. 
	Bug fix	Error when deleting load cases.
	Enhancement	New button 'Reorganize' in project manager: Can fix a broken database.

Easy.Static 2024.0.0.9	Bug fix	Crash when exporting to RSTAB
	Bug fix	Database problem with some special characters fixed.
	Enhancement	Draw selected Point Supports in selection colour.
	Enhancement	Definition of buoyancy loads revised. Additional option of height-dependent definition via table values.
	Change	All vectors are drawn in the same way.

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	Enhancement	<p>Visualisation of the ratios from the EC3 analysis. The displayed ratios always refer to the current design case of the EC3 dialogue.</p> 
	Enhancement	Cross section properties: Show all parameters.
	Enhancement	Trans point context menu: New function ,New point numbers...‘
	Bug fix	Keep legends visible when using ,Hide unselected elements‘
	Enhancement	Labelling of critical values also for internal forces.
	Change	Visualisation of result rot points changed.
	Enhancement	<p>Labeling of external loads (optional with delta values).</p> 
	Change	New link: Preset elasticity of cables with ,elastic calculation‘.
	Change	Only allow suitable cross-section types for links.
	Enhancement	Link filter: Search for link id.
	Enhancement	Link filter: Search for links without cross section.

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	Enhancement	Labeling of point number and link id of model and result.
	Change	Change in the presetting of default names of load cases/imperfection models.
	Bug fix	New project: Crash if ECK file does not match DRE file.
	Bug fix	New project: Error when creating rol elements from inp file.
	Enhancement	Editing of Rol Elements: select, delete, modify.

Easy.Static 2024.0.0.5	Bug fix	New project: Error when importing sliding support files with no intermediate points.
	Bug fix	Crash when exporting results to CSV files.
	Enhancement	Context menu item „Stop Process!“ in message console.
	Bug fix	Editing imperfections: "Add all Set of Links" now only adds beam elements.
	Bug fix	Crash when changing chamber settings in load cases.
	Enhancement	Text message when unstressed length is recalculated.
	Bug fix	Error in the calculation of principal stress with identical links.
	Enhancement	Point and Point Support properties: Display and select associated objects for points and point supports
	Enhancement	Measuring function: distance and angle.
	Enhancement	New options for imperfection models from eigen mode calculations: scaling and bow imperfections.
	Change	New project: Change in creation of surfaces (additional attribute is now relevant).
	Bug fix	Invert selection implemented.
	Change	Change in the representation of selected lines.
	Enhancement	Keep last settings for ‚New Link‘ and ‚Modify Link‘
	Enhancement	Point and line filters revised.

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	Enhancement	Optimization when rotating the graphic.
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Easy.Static 2024.0.0.4	Bug fix	Load case combinations did not work in volume projects.
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Easy.Static 2024.0.0.3	Bug fix	Division by zero when creating imperfection models.
	Bug fix	New project: Bug in import of rol files
	Bug fix	New project: Error when creating volume projects.
	Bug fix	Error in calculating the deformation of imperfection and eigen mode models.

Easy.Static 2024.0.0.2	Bug fix	When using the Beam3D/Beam3DV solvers, the result was not read in. These solvers could therefore not be used. The problem has been fixed.
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## 4 EasyShell

EasyShell	Change	Easy.Static is the default calculation program on new installations.
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## 5 FormEdit

FormEdit	Bug fix	When form-finding radial meshes, certain offset settings could lead to slightly different results in the FormEdit PreView and the calculation via EasyShell. This error has been fixed.
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## 6 Easy.DWT

EasyDWT	Enhancement	New option: ‚Calculate in local, temporary folder‘ Speeds up the calculation if the project data is stored on a slow network drive.
	Enhancement	Wind profile according EC1 N.A. DIN
	Change	Upgrade to ParaView 5.13 (No problems with special characters in file paths.)

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## 7 Graphic editor GED

GED	Bug fix	Error in the calculation of principal stress with identical links.
	Bug fix	Forbid additional one file in combination with single-EIN/multi-DER file.

## 8 EasyTailor

EasyTailor	Enhancement	New option in DXF-Export: Arrange blocks around a boundary Arranges strips next to each other to create a continuous boundary. The boundary is defined by entering a start and end corner point.
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## 9 Rhino Brep2Easy Plugin

Brep2Easy	Enhancement	The handling of the topology in the case of edges has been extended.
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## 10 Program Strip

Strip	Change	Number of points for geodetic lines increased. Error message if the maximum number of points is exceeded.
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## 11 Licensing

Easy Release 2025 requires a new password!

Easy2025 requires the latest drivers for the protection plug. If you receive the following error message when starting the program, you must install the provided Sentinel driver on your computer and, if necessary, on a license server.

