Materialise Magics 28

Magics Essentials

What’s new

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Materialise Magics Essentials 28 feature highlights

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The additive manufacturing industry recognizes Magics as the ideal software for part and build preparation. In this release of Magics Essentials, we're providing the following updates:

Usability

- Work comfortably during all working hours with the *dark theme.*
- Use Magics Essentials at any time *offline*.
- Enhance your experience with the *Import windows,* as well as with the *tool sheet minimization.*

Productivity

- *Preserve your label planning* when performing other operations.
- Gain more control over your *cut* parts.
- Get more out of *your measurements* with the additional freedom

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Part Scenes and Home Screen

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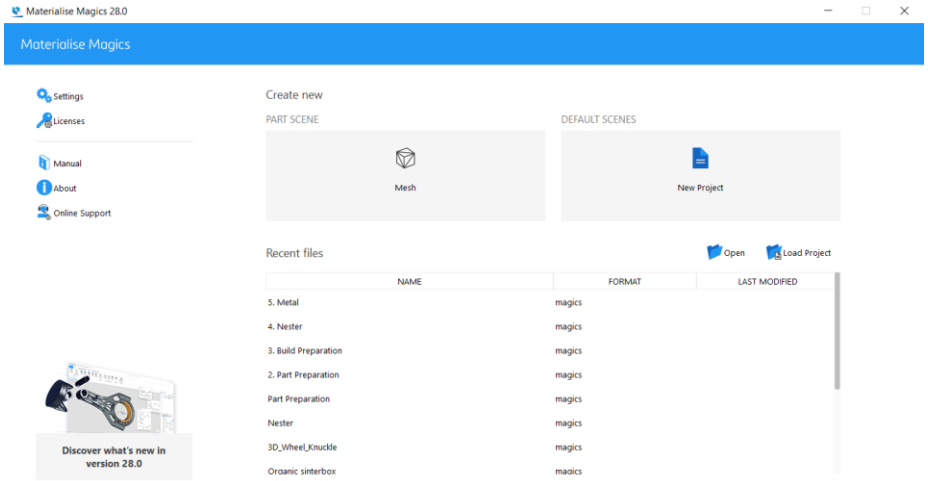
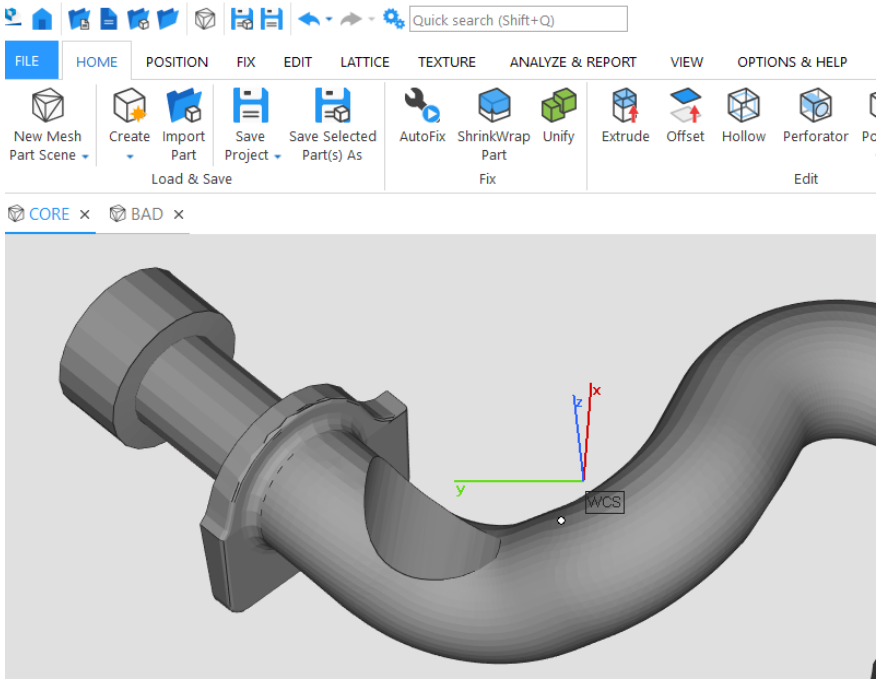
Home Screen



- Use the home screen to
  - **Create** an empty **part scene**
  - **Load Project files**, allowing you to store your work and easily come back to it later
  - **Open files** in new part scenes
  - Click on a **recently opened file or drag and drop a file on the home screen** to open it as a part or load the project.

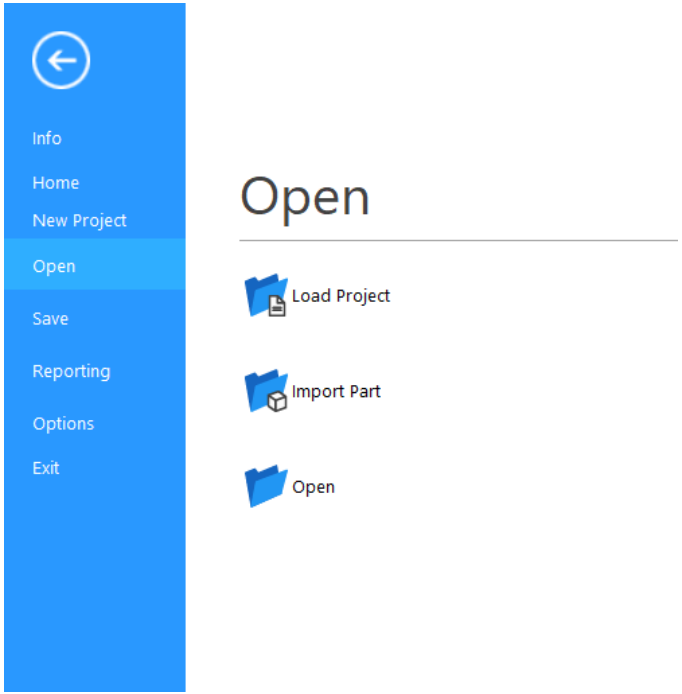
Part Scenes

- The Modeler Scene has been replaced with Part Scenes.
- With the new Part Scenes you can create separate scenes for different parts you are working on.
- Easily **close a scene** by clicking an **X** on the scene tab.
- **Keep an overview** of your project by **renaming part scenes**.



Project loading

- **Load Magics files as projects** through the **Load Project** command on the home screen or in Magics scenes.
- Loading Magics files with platform scenes will let you import those platform scenes.
  - To move to the Part Scene from a Platform Scene, you can use the Edit in Part Scene function



UI/UX

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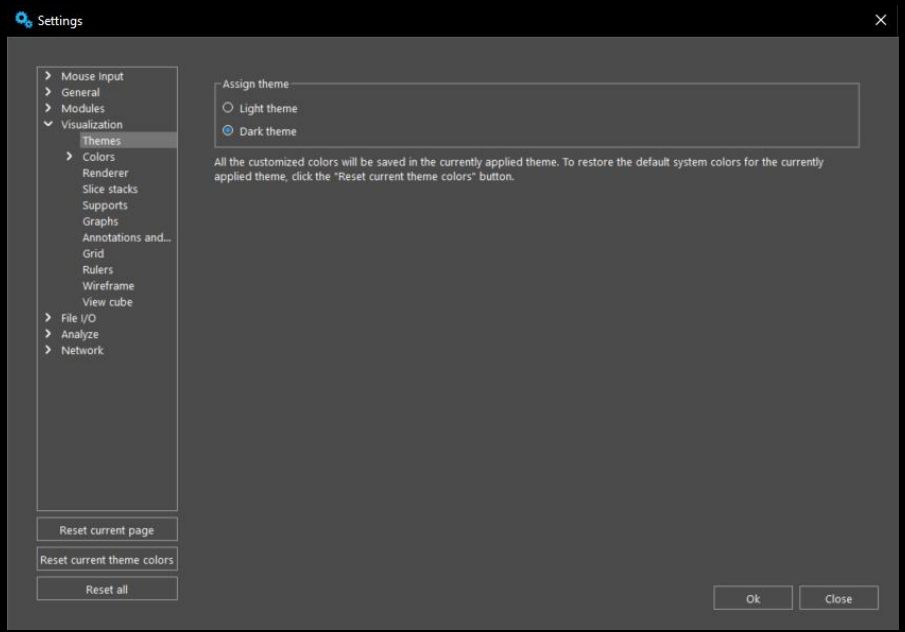
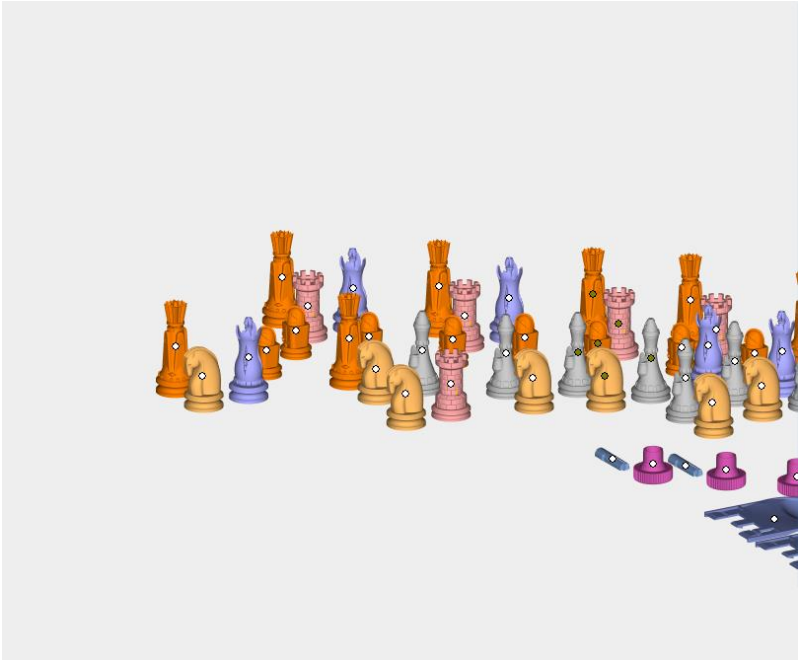
Dark theme



- Introducing the heavily requested dark theme, giving you Magics with a darker background.
- Improve visibility in darker working places.
- Provide more comfort to your eyes when using Magics for a prolonged period.

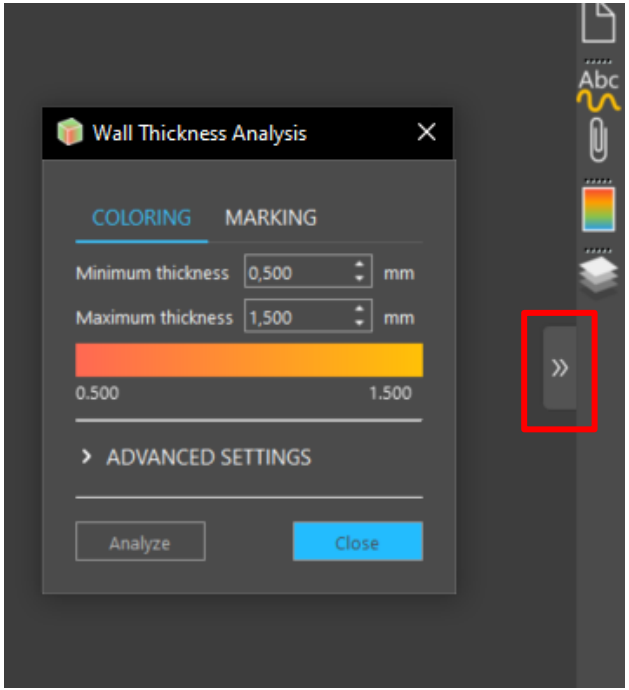
UX improvements



- **Access frequently used commands** through the **Home Ribbon**.
  - **Customize your UI** for optimal usage.
- Quickly **deselect** parts in the 3D view with **CTRL + left click** on selected parts.
- **Keep** the **part selection unchanged** when only **a single part** exists in the scene.

UI optimization

- Get a better overview of your import parameters with our **updated import windows**.
- Use a wider workspace by easily **minimizing your tool sheets**.
- Get a clearer input and feedback with the new **Wall Thickness Analysis**, **Mirror** and **Label dialogs**.



Removed limitations

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- For the **optimal experience** of our users two limitations were removed:
  - **You can work offline**. It is no longer required to have a working internet connection to use Magics Essentials.
  - You can now **use multiple instances** of Magics Essentials in parallel.

Editing

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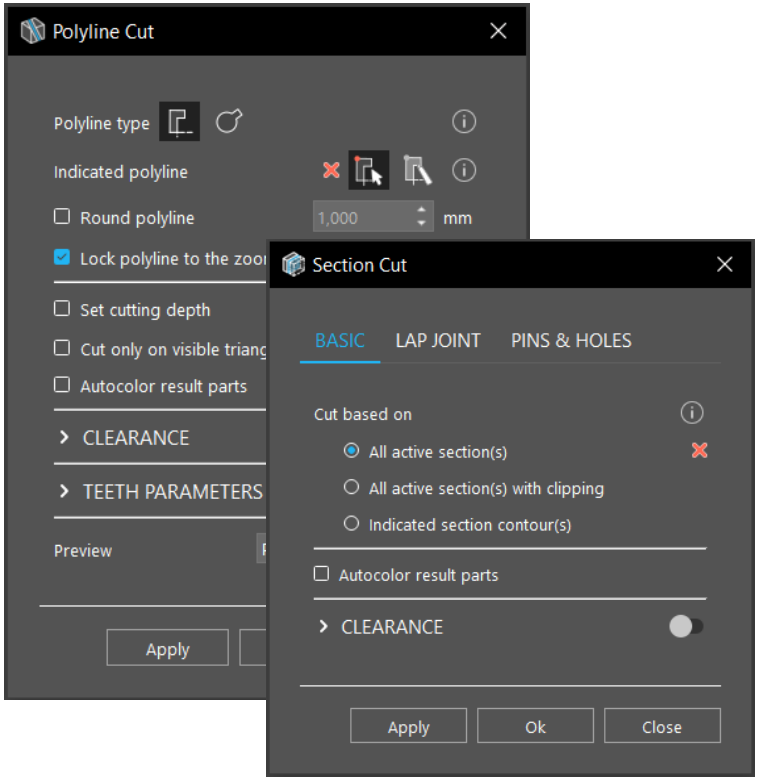
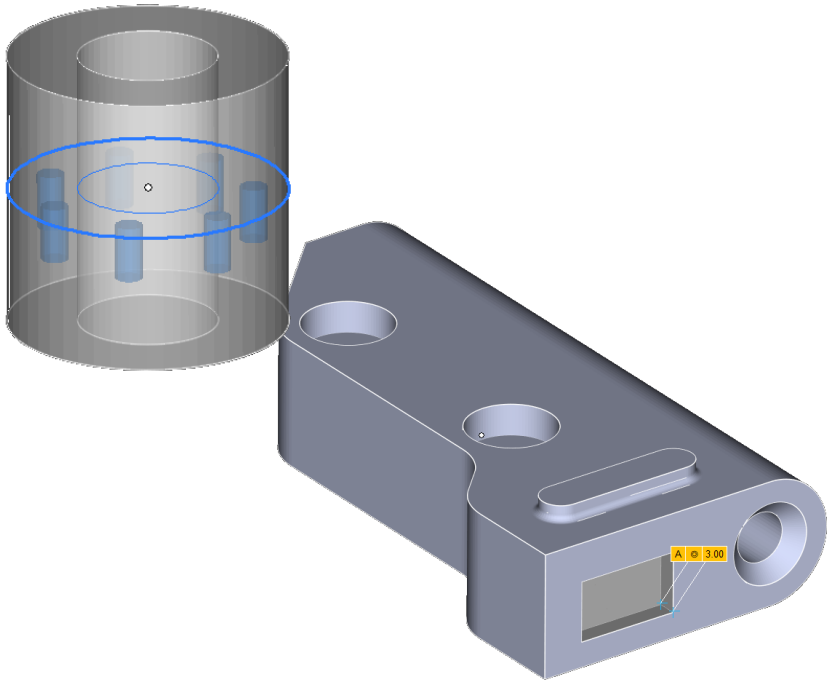
Cutting improvements (1)

- UI/UX
  - Modernized dialogs for Polyline and Section Cut with elaborate tooltips replace the Cut or Punch dialog.
  - Constrain polyline direction and snap to mesh points for even more accurate cutting result
  - Explore enhanced mouse modes for quick and easy polyline creation, editing, and deleting.



Cutting improvements (2)



- Functionality
  - Minimize the chance of cutting errors by previewing results for pins and holes.
  - Have complete control over cutting depth parameters for the polyline cut type.

Label planning improvements (1)

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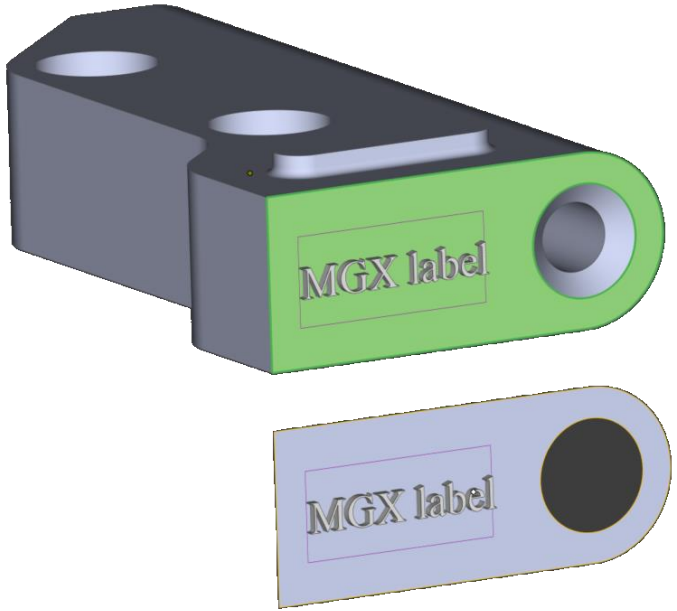
- Performance improvements*
  - Reduced execution time of up to 90%
  - Reduced peak memory usage of up to 45%
  - More responsive rendering after label planning generation
- Improved operations:
  - Adding and resizing Magics' text label planning
  - Magics Data Matrix label preview

* The observable improvements on large mesh parts >10 million triangles

Label planning improvements (2)

- Preserve label planning on the part to save time after:
  - Deleting triangles not directly related to label planning
  - Copying or separating marked triangles from a part with label planning



Added & removed functionality

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Added functionality (1)

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- Easily change the orientation your parts with the **Bottom/Top Plane** function
- Benefit from the **added measurement functionalities**
  - **Increased options** for measuring distances, e.g. line, plane, circle.
  - Compare your measurements in Magics to the measurements on your physical parts with the **Real Measurements**
- **Group your parts** to keep them together while working on them

Added functionality (2)

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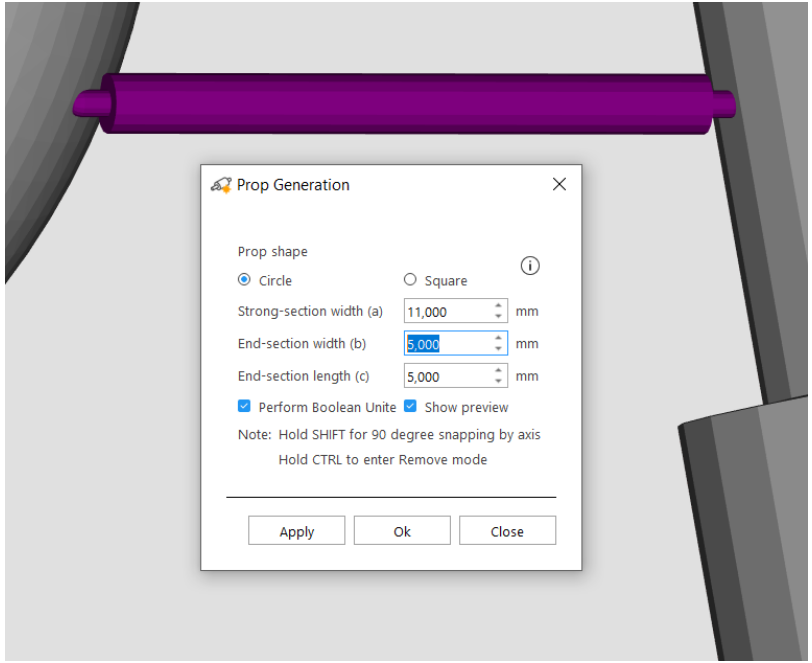
- Use **FormFit** to create custom packaging for your parts.
- Use **Prop Generation** to avoid warping while printing.
- Use the **Translate to Default (Z) Position** functions to instantly move parts to a central location or the same height.



Removed functionality

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- A few functions were **removed** to align Magics Essentials more with its intended use.
  - **Batch Duplicate**
  - **Save Part(s) as 3DPdf**
  - **Gravity Center**

For more information,
contact your local Materialise office.

mtls.me/magics-contact