



ENGINEERING
MADE EASY

ELITECAD MECHANICS 17

Innovations of the new version

www.elitecad.eu

Innovations of the new version

November 2025

Engineering made easy. Three words that perfectly describe ELITECAD. Because they express exactly what matters in everyday design work: clarity instead of complexity, control instead of compromise, efficiency without restrictions. With ELITECAD Mechanics 17, we put this into practice.

When it comes to usability, the completely revised parameter management system provides a better overview and greater flexibility, while the new Clipping Box allows you to work with surveying data with pinpoint accuracy. And what about handling terrain data and rotated coordinate systems? Now it's easier than ever before. Even QR codes can be integrated directly into your plans using copy and paste, while texts can be created automatically in 3D.

Performance has also been significantly improved. Optimised image rendering and intelligent graphics output ensure the smoothest possible operation in the new version, whether navigating large models or working with point clouds. ELITECAD Mechanics 17 is a true performance champion!

However, successful projects are usually not a solo effort, but rather a team achievement. The new IFC 4.3 interface, transparent import data management and optimised terrain data export now enable you to work even more efficiently and flexibly. Additional module updates for the piping and terrain modules also provide greater control, improved traceability and, as a result, valuable time savings.

And because visualisation is much more than just a nice extra these days, ELITECAD Mechanics 17 puts your projects in an even better light. With premium textures available for free use via the new texture import manager and the enhanced light source management, your work will make the impression it deserves. You can even turn it into an interactive experience in no time at all with the expanded options for camera paths and videos as well as with the support of state-of-the-art virtual reality (VR) technology, including a new VR movement option.

But there's more! With version 17, we are also entering the era of artificial intelligence (AI). Our new AI support named Luna is already in the starting blocks, ready to accompany you directly in your design process within ELITECAD Mechanics in the future.

All these innovations add up to *,engineering made easy'*. We wish you a lot of joy in testing and using the new version!



Dr. Wolfgang Stöger
CEO

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Performance

Mechanical design is about more than just precise geometry and well-thought-out solutions. It's also about efficiency. "Time is money" sounds cliché, but it's true. Especially when you realise your time is being wasted on things that should be much more efficient or even automated.

Regardless of how large, complex, or data-intensive your project is, you want to be able to implement your ideas smoothly. Without constant workarounds, multiple program switches, or wait times. This is precisely where ELITECAD Mechanics excels, and version 17 delivers even more.

With this new version, we've implemented numerous optimisations that will immediately simplify and accelerate your daily work. ELITECAD Mechanics 17 reacts faster and smarter than ever before. The goal? Not just more performance, but palpable relief for your workday from the very first click.

Optimised screen refresh rendering for significantly accelerated graphics output

In ELITECAD Mechanics 17, the entire screen refresh in 3D mode has been fundamentally redesigned. The goal was to massively improve graphical performance, even with highly complex models – and that's exactly what we've achieved. Whether you're working with large assemblies, highly detailed point clouds, or custom freeform parts, you can now expect the fastest and smoothest ELITECAD ever!

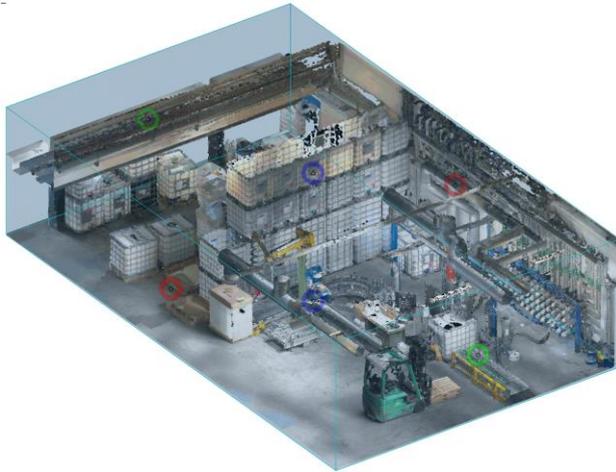


What specific optimisations have we implemented, and how will this impact your projects? While you're working on the 3D model - for example, rotating, zooming, or precisely positioning components - ELITECAD automatically adjusts the display in the background. Temporary simplifications for computationally intensive elements like shadows or textured surfaces ensure that full hardware performance is available for your planning activities. The full model quality is then immediately restored or precisely follows your custom graphics settings, if you've customised them. This intelligent image rendering occurs in real time and without manual intervention, resulting in a noticeable performance improvement, especially for complex projects. Particularly in mechanical and plant engineering, where complex projects with numerous components quickly generate large amounts of data, this innovation ensures an even smoother workflow with full control and no compromises in visual quality.

Incidentally, the best graphics quality is maintained during walking mode or when creating snapshots, videos and camera paths, thus always guaranteeing the optimal experience!

Digital inventory surveying

Focus on the work area thanks to the new clipping box



The innovative 3D clipping box gives you a completely new perspective on your 3D models. You can clip your model from all six sides of a cube and thus gain a comprehensive insight into the interior of your project. The extensively improved clipping allows you to isolate specific areas and concentrate fully on the current work area. By zooming in on the visible objects on the screen, you have an ideal starting point for the clipping box.

A special highlight: clipping can be applied exclusively to the point cloud, leaving all other components visible. This allows you to work in detail in the point cloud without losing track of your overall model.

You can set the clipping box absolutely or relative to the current working plane or the current coordinate system and save your preferred settings. The intuitive application ensures that you always have a perfect view of your work area. You also benefit from a performance boost that makes your work even more efficient.

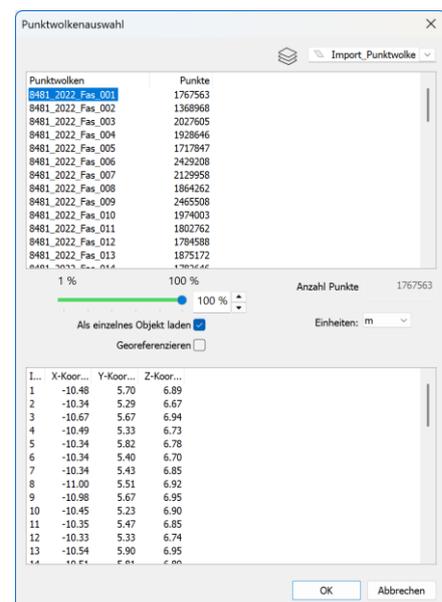
This function allows you to work more precisely and save valuable time. The new 3D clipping box takes editing your model to a new level and allows you to navigate and edit complex structures more easily.

Advanced import and export options for point clouds

Maximise your flexibility when working with point clouds with our enhanced import and export functions. You can now determine more settings when importing E57 files. You now have the option to control what percentage of points should be imported. This filtering helps you reduce the amount of data and optimise performance without losing important details.

Another new feature is batch import, which allows you the option to import each scan from a point cloud file into separate point cloud objects instead of as a single large point cloud. This saves you valuable time and makes it easier to handle large projects.

For better management, you can select layers when importing to organise your data more clearly. In addition, you can now also export point clouds in E57 format or as an ASCII file, which opens up new possibilities for data exchange and collaboration with partners or other software solutions.

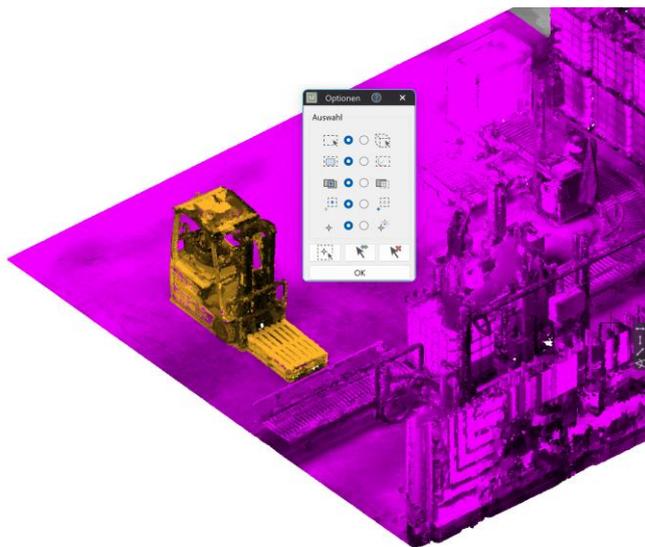


Georeferencing for seamless integration of multiple scans

With the new georeferencing option, loading multiple scans into the same reference system is a breeze. A single click in the import dialog is all it takes to correctly align and position all scans.

Time-consuming manual alignment is completely eliminated, which not only increases your efficiency but also minimises sources of error. You can rest assured that all data is integrated precisely and consistently, without any additional effort.

More intuitive selection options



With our extensively expanded selection tools, you can now work with point clouds even more intuitively and efficiently. You can make the selection according to your preferences or requirements - whether with a rectangle or polygon, in the working plane or in the screen plane. The selected points are displayed in their own colour, which gives you a clear overview and makes editing easier. In addition, the selection can be expanded, reduced or inverted at any time.

A special highlight is the possibility of using your already defined clipping settings directly as a point cloud selection. So, if you have already focused on the relevant points, you can now use this view to seamlessly keep on editing. This simplifies your workflow considerably.

Time savings through numerous performance and graphics improvements

Large point clouds with several hundred million points? No longer a problem! Thanks to significant performance optimizations, you can now work smoothly with extremely large data sets. Importing point clouds has been accelerated many times over, so you save valuable time and can get started right away.

Another practical feature: You can now cancel the import process at any time if you change your mind or have selected the wrong data set. In addition, there is no longer any difference in performance, regardless of whether points are selected or not - processing always runs smoothly and without delays.



Mechanical innovations

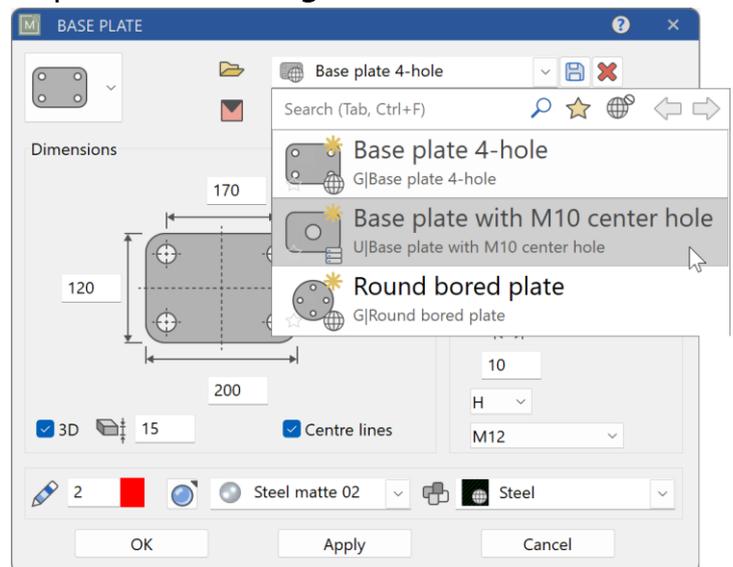
Fundamentally revised parameter management

In the past, managing data sets was often laborious: flat lists without graphical previews, without filtering options, without grouping or search functions. Distinguishing between global and user-defined parameters was often difficult. In offices with multiple users, office-global data sets were difficult to distinguish from those supplied. When drawing, you could only identify data sets by their name - if this was unclear or ambiguous, you had to open the settings to see the details.

With the new parameter management, all of this is a thing of the past. We have developed an intuitive and powerful solution that allows you to work more efficiently and clearly. Graphic previews, filter options, grouping and search functions, favourites management and rights management make it child's play to use. You can now find parameters more easily, differentiate them more clearly and organise them individually.

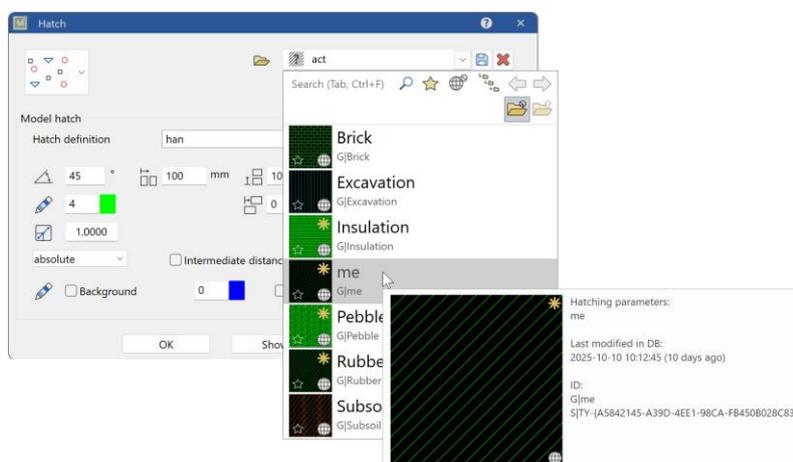
New interactive user interface element for parameter management

We have fundamentally revised the management of your parameters and data sets. With the new Type Control, you now have an interactive element in the user interface that dynamically adapts to your needs. Instead of the previous flat lists, you can now use hierarchies that give you a clear overview of all parameters.



This type control is available for all objects - whether materials, hatching, texts, construction parts, standard parts and much more. The hierarchical structure allows you to find the parameters you are looking for more quickly and manage them more intuitively. This means you can work more efficiently, more clearly and more safely.

Graphical preview of data sets



The new graphic preview gives you a visual preview of your data sets at a glance. Without having to open dialogs first, you can use the preview images to quickly identify the details of parameters such as materials, hatching or text. Tooltips show you larger preview images and additional information that give you a deeper insight into the properties of the parameter. You make the right quicker and

can concentrate fully on the creative design of your projects.

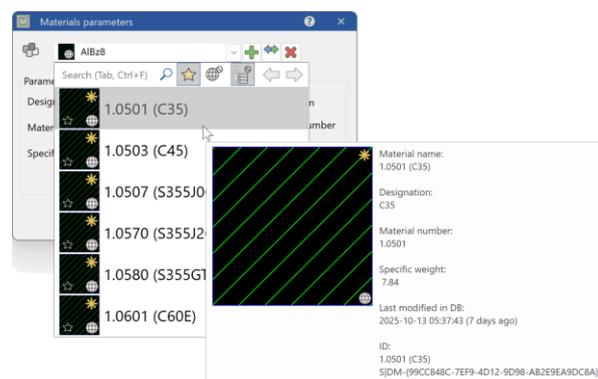
Hierarchical management of parameters in folder structures

Managing your parameters is now even clearer and more flexible thanks to the hierarchical folder structures. Instead of the previous flat text list, you now have an interactive user interface element that you can expand and reorganise as you wish. You always keep track of your position within the structure.

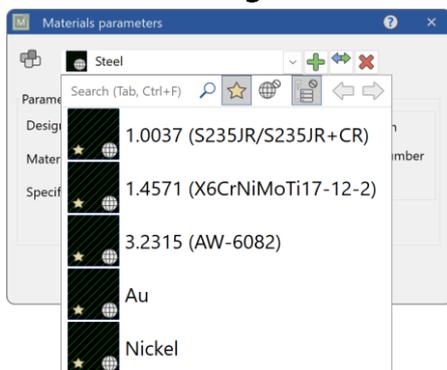
For example, create folders for different profiles types, and other categories to logically group your records. If you prefer a simpler view, there is also an optional flat view of the hierarchy and an optional more compact view. This allows you to switch between a detailed and a clear view as needed.

Directly integrated search and filter function

With the new search function, you can now find the parameters and data sets you need even faster. The option of combining multiple search terms separated by commas allows you to refine your search and get exactly the results you need. Whether it's materials, wall structures or other objects - the intelligent search makes navigating through extensive data sets much easier.



Personalization through favourites management

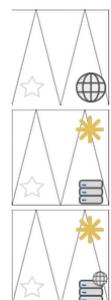


With the new favourites management, you can define your most important data records as favourites at the touch of a button. This gives you quick access to frequently used elements and allows you to easily filter them if necessary. Your favourites are clearly visible thanks to an overlay icon, which makes navigation even more intuitive. This personalization allows you to work more efficiently and adapt your workflow to your needs.

Advanced rights management

With the new rights management, it is now much easier to distinguish between your own global parameters and the delivered global default parameters. You can specifically filter for them or decide not to display them, depending on your needs.

The rights level is displayed as an overlay icon in the preview, so you can immediately see which parameters you created, and which are included with the software. This means you always have an overview and can work more efficiently, as you can concentrate on the data sets that are relevant to you.



You can now see whether a data record is new or has been changed directly from a separate overlay star in the top right. You can configure the time period individually in the options.

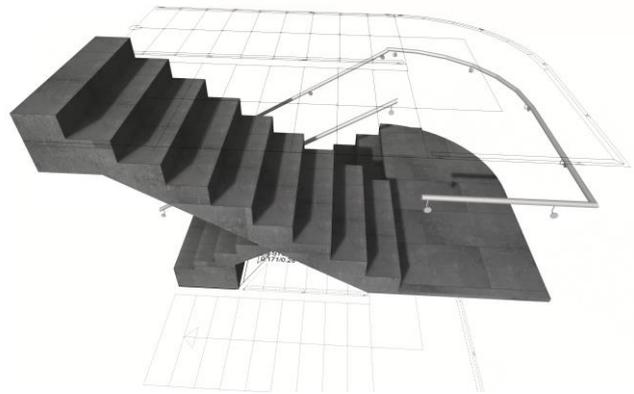
Increased flexibility in the design of stairs

Modular stairs with several straight landings

The modular stairs have been significantly expanded and now allow you to not only string together angled stair sections, but also generate continuous straight stairs. This allows you to create any combination of continuous and angled stairs. This flexibility allows you to plan complex stair constructions more efficiently and precisely.

Simple contour manipulation for landings of counter-rotating and angled stairs

With the latest version, you can now subsequently adjust the intermediate landings of your angled and counter-rotating stairs. The floor plan contour of the landing can be selected, deleted and changed according to your ideas. You can place and correct the contour directly in the drawing, which offers you maximum flexibility and precision.

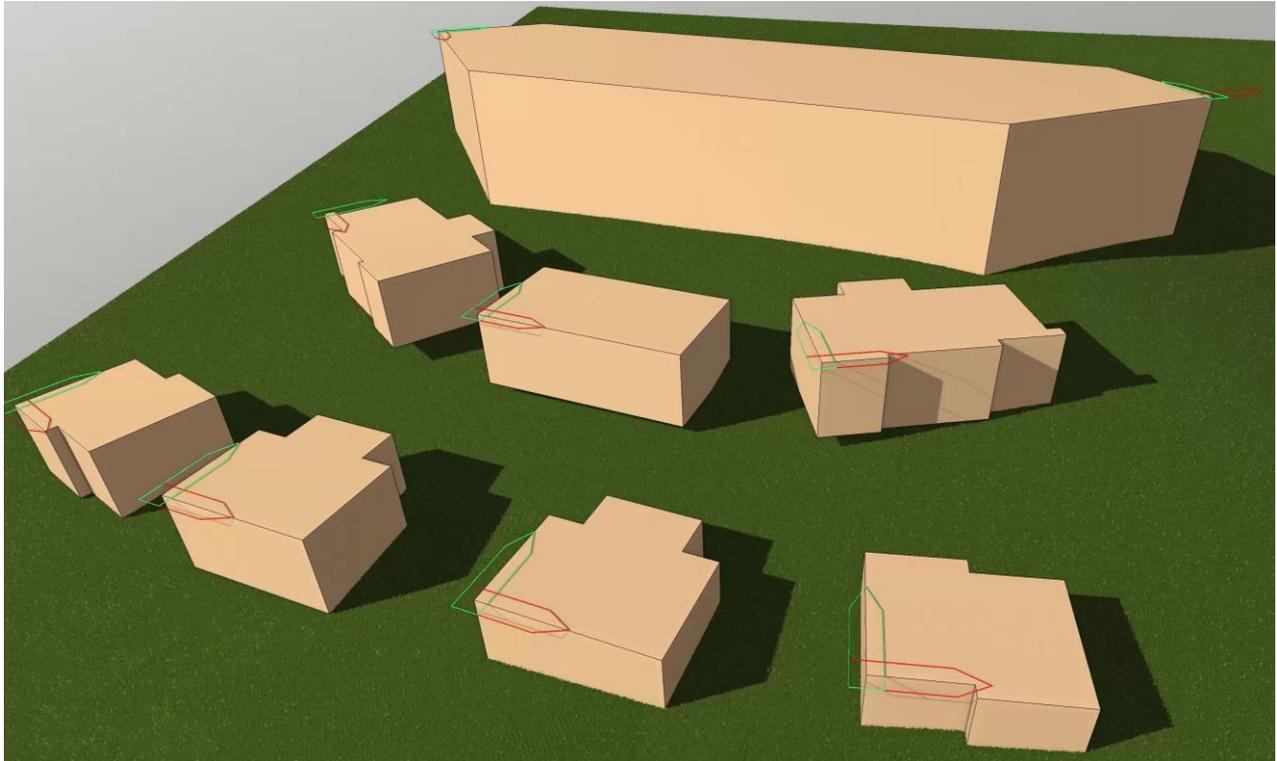


This function allows you to design stairs even more individually and adapt them perfectly to the spatial conditions.

Handling improvements for locked stair values

The usability when dealing with locked values in stairs has been significantly improved. Now a locked value remains unchanged in the user interface, which gives you more control and security when creating stairs. This optimization makes handling more understandable and reduces the risk of unwanted changes.

Simplified work with rotated coordinate systems



Working with rotated coordinate systems has been made much easier. You can now effortlessly model in any orientation without having to make complicated settings. The user interface automatically adapts to the rotated coordinate system, allowing you to work intuitively and efficiently. In addition to saving your working time, this also reduces the risk of errors when aligning objects.

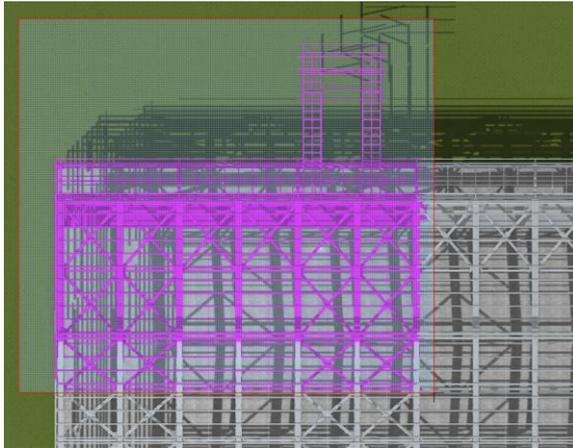
Easy manipulation of rotated coordinate systems and reference points using the property bar and handles/ grippers



Working with rotated coordinate systems and reference points is now even more intuitive. Using the property bar and handles/ grippers, you can manipulate these elements very easily. You can grab, move and rotate coordinate systems and reference points directly in the drawing without having to call up cumbersome menu commands. You benefit from direct, visual control and can make changes precisely and quickly.

New live selection preview for rectangle selection

Experience an even more efficient and intuitive selection of components and objects with the new live selection preview for the rectangle selection. As you move the mouse, the elements are dynamically added to the selection - not just at the end of the selection. You can immediately see which components will be included in the selection.



This feature allows you to make more precise and faster selections because you receive feedback in real time. It also minimises errors because you can see immediately whether all the desired objects are captured. The live preview significantly improves your workflow and makes working with complex models even more pleasant.

Automatic creation of 3D texts

Now you can generate 3D objects directly based on 2D text with the new function for automatically creating 3D text. This works with any font, giving you maximum freedom in your design.



This function allows you to transform text elements into impressive 3D objects that you can integrate seamlessly into your models. Whether for labels, signs or creative design elements - the possible applications are diverse.

Generation of free line types from texts

Create custom line types directly from text with the new feature for generating free line types from text outlines. This is especially useful for labelling escape routes or other special markings in your plans.

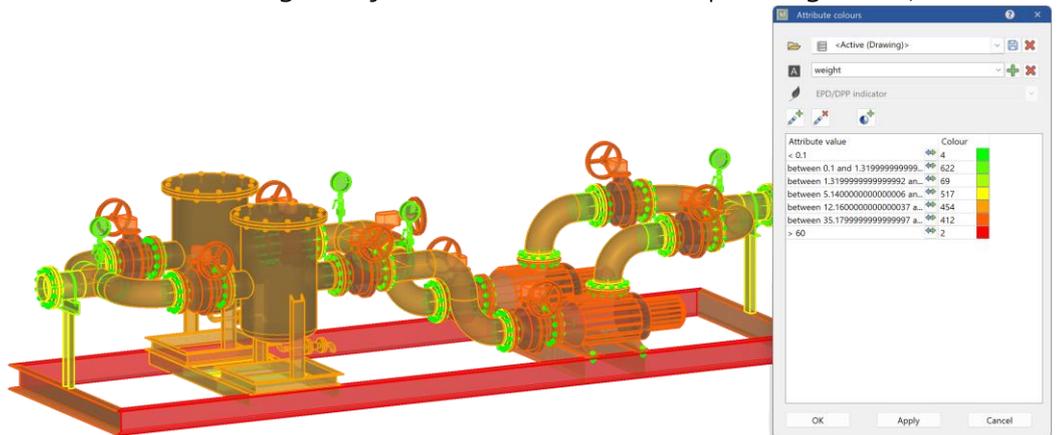


You can now take text elements as a basis and generate customised line types that meet your exact requirements.

Layout and documentation

New attribute visualisation with colour scheme

With the new attribute colour scheme function, you get a quick and clear overview from a range of selectable aspects within your project. Your model is coloured - for example, with a colour scale from green to red for the distribution of weight of your model as in our sample image. This, of course, works also for materials used or by assembly association and my other criteria. In this way, you can flexibly check and understandably present the properties of your project.

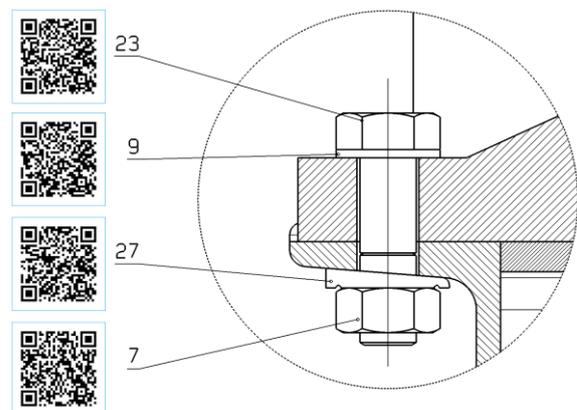


Interactive plans thanks to automatic QR code creation

From now on, you can make your plans even more interactive, because ELITECAD automatically generates a QR code as soon as you paste a link or text. On printed plans, these QR codes allow easy access to digital information - and it gets even better!

Application examples:

- Efficient documentation: Share important documents or server releases with planning stakeholders by inserting QR codes that lead directly to the relevant files.
- Support for project participants and executors: Provide access to data sheets or component information directly in the execution plan. A scan of the QR code immediately provides the required details.
- Predefined QR codes in plots and templates: Integrate QR codes into your plot layouts or project templates to provide standardised information and optimise workflow.
- Improved communication: Integrate your virtual business card or link to email addresses, phone numbers or web forms to make it easier to contact people and quickly clarify queries.



Simplified merging and splitting of hatches and dimension chains

In the latest version, you can now split and merge hatches and dimension chains even more easily. This feature significantly improves usability and allows you to flexibly adapt hatches and dimension chains to your needs.

Connectivity

Import data management

You or a colleague added external data such as an IFC, a DXF, several SketchUp parts, etc. to your project a few weeks ago and would now like to know what has been added, or would you like to move this data to another layer or structure, replace it with other data, or even delete it? But how are you supposed to find all of these objects and elements distributed throughout the project? In the new version, you can now do just that very easily. All external data added is logged and you have the option of selecting the data from these import processes in the buffer/import filter management at any time. Once you have made the selection, all of the options you know from ELITECAD are available to you.

Management of georeferencing information

Data from different sources often refer to higher-level reference systems, such as a national coordinate system or a special project zero point, and also have a rotation relative to the north direction and a height reference. The handling of this often heterogeneous data has been harmonised and made significantly easier in ELITECAD 17.

To clarify: Georeferencing does not mean considering the curvature of the earth and converting between different global reference systems. These aspects do not play a role in building construction projects.

The CAD reference point describes an offset and a rotation compared to the drawing. You can now place this reference point at any position in the model, display it with a new symbol and easily set the coordinates and rotation for this point using a new property bar. This means that it is no longer necessary to display the symbol for a zero point that is far outside the paper format.

When georeferenced data (drawing, terrain, point clouds, IFC, DXF) is imported for the first time, the reference point is created in the middle of the sheet. When additional georeferenced data is loaded, it is automatically aligned to the existing reference point. This greatly simplifies the process, saves you the hassle of manual alignment and avoids errors.

Maximum compatibility thanks to IFC 4.3 support

IFC is the most important data interface in openBIM projects and enables the smooth exchange of building data between different software solutions and project partners. Only those who are always up to date can work effectively with all those involved throughout the entire life cycle of a building. With support for the latest IFC 4.3 standard, you are well prepared for the future. Both the import and export of IFC data are fully supported, so you can ensure maximum compatibility with your project partners.

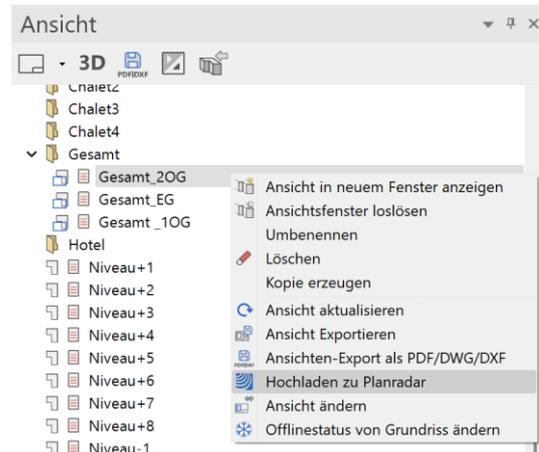


New PlanRadar Plugin

With the new PlanRadar plugin, you can integrate the best tool for cloud-based plan management directly into ELITECAD. This plugin enables you to collaborate efficiently in your projects by allowing you to upload plans directly from ELITECAD 17 via the views manager.



Thanks to intelligent versioning, your plans are always up to date and everyone involved in the project is always well informed. This not only simplifies communication within the team, but also increases the efficiency and quality of your work. With this integration, you save time and reduce sources of error, as there is no need to manually exchange plans.



New texture import manager

Achieve material realism in your designs without the hassle of manual downloads or format conversions. ELITECAD Mechanics 17's new texture import manager provides the easiest path to visual impact. Thanks to the direct integration of external databases like **mtextur**, **ambientCG**, and **Poly Haven**, you can access a wide selection of high-quality, commercially available textures in ELITECAD with just a few clicks.

Especially in mechanical and plant engineering, where material representation often serves important functional purposes - such as differentiating components, explaining surface treatments, or preparing visual approvals - these new integrations offer clear added value. Whether it's brushed stainless steel, rubber, injection- moulded plastic, or anodised aluminium, the right textures are now just a few clicks away. This saves time and enhances the quality of your projects for both internal use and external presentations.

Visualisation

Improved management of light sources

Good light is crucial for impressive visualisation effects such as shine and reflection on surface structures. The management of light sources has been significantly improved in the new version. You can now add, edit and adjust light sources even more easily, giving you more precise control over the lighting of your projects. You can now create more realistic and atmospheric lighting scenarios with just a few clicks. This saves you time and increases the quality of your presentations, making your projects even more impressive.



Easier linking of light sources to objects

In the new version, linking light sources to objects is made much easier. You can now easily link objects or furnishings, such as a lamp, to a light source. When you copy or move the object, the associated light source is automatically copied or updated.

Grouped light sources

With the new grouped light source feature, you can now group multiple light sources together to control them together. In visualisation or walking mode, you can easily interact with a light switch and, for example, turn all the spots in a room on or off at the same time. This extension gives you more flexibility and control over the lighting scenarios in your projects and allows you to create more realistic and dynamic lighting moods.

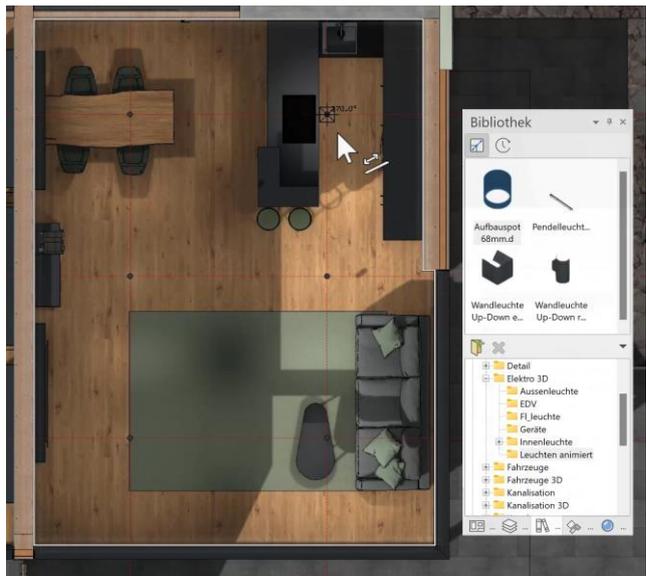
Realistic visualisation effects through light animations

Experience even more realistic visualisation effects thanks to new light animations. Interaction with light sources is now possible in walking mode - you can switch them on and off as if you were actually in the room. In addition, lamps have a luminous material in addition to the linked light sources when they are switched on. This makes them appear even more authentic in the visualisation and you can create an immersive atmosphere in a playful way.

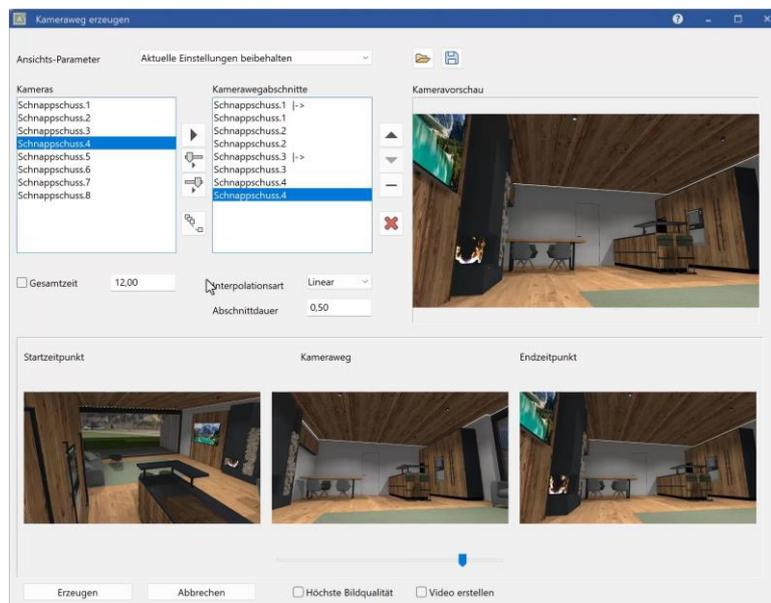
Perfectly illuminated scenes through new library parts

Achieve optimal lighting for your models with the new pre-installed library parts. We have added an extensive collection of lamps that are already equipped with linked light sources - including spots, up-down lights and panels. It is very easy to use: drag and drop the desired lamp into your model and it is ready to use!

This extension allows you to perfectly light scenes quickly and without any additional effort. You no longer have to add or configure light sources manually, as all the necessary settings are already integrated into the library parts.



Easy management and editing of camera paths



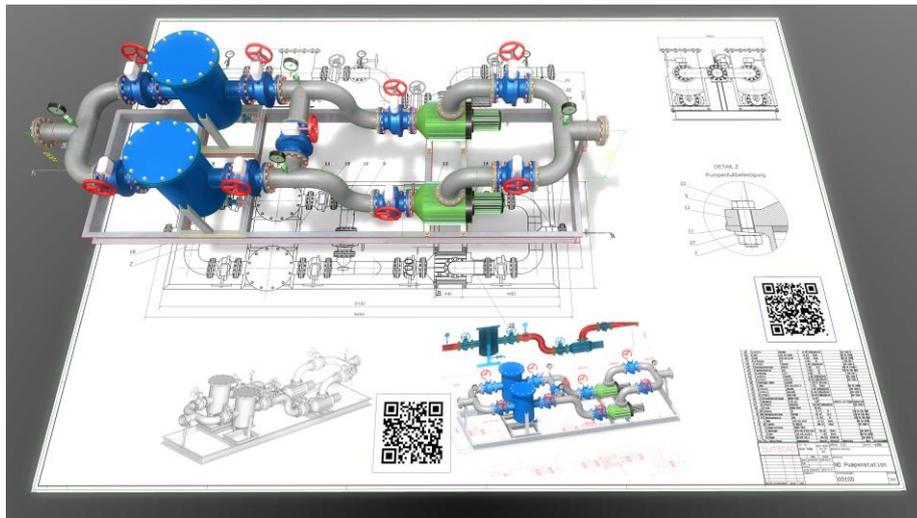
The new version of ELITECAD makes managing and editing camera paths much easier. Now you can organise your camera paths directly in the camera management. You can name them and subsequently manipulate them parametrically, giving you more control and flexibility when creating videos.

Playing camera paths and creating videos are now possible directly from the camera management. With even fewer clicks, you can create impressive visualisations. The new version also offers more flexible resolution configuration when

creating videos. For example, you can create videos and reels in portrait format for social media platforms. #madewithelitecad

Interactive 2D plans thanks to QR codes and 360° images

With the new QR code generation feature on plans, you can now integrate visualisations such as videos or 360° images directly into your 2D plans. This gives your viewers interactive access to detailed information. For example, you can insert a QR code for each component that leads to a 360° image or video. This allows customers or partner companies to experience the model up close and get a better idea of your constructions.



These interactive elements enrich your plans considerably and offer real added value by combining static representations with digital experiences.

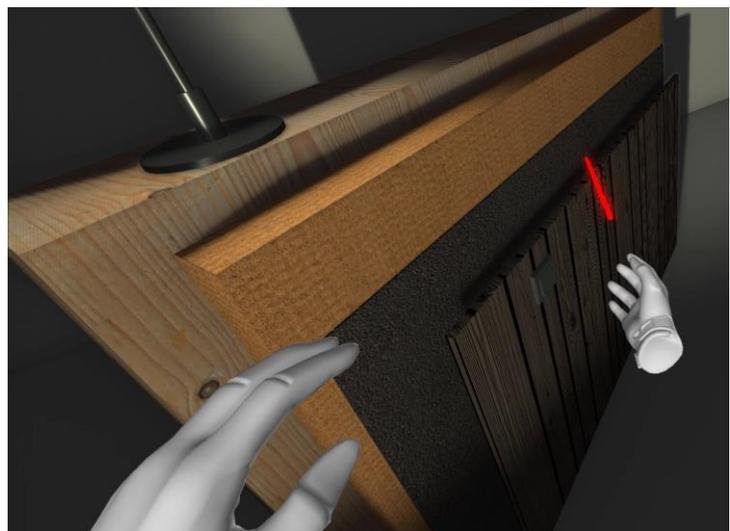
By integrating QR codes, you improve the communication and comprehensibility of your projects. You create a modern and innovative

presentation experience that inspires both customers and partner companies. With just a few clicks, you provide a deeper insight into your planning and set yourself apart from the competition.

Latest VR technology thanks to integration of the OpenXR platform

Experience virtual reality in ELITECAD on a whole new level thanks to the integration of the OpenXR platform. This extension gives you optimal support for the latest hardware, such as the Meta Quest 3. You not only benefit from wider device compatibility, but also from improved performance that makes your VR experiences even smoother and more impressive.

With OpenXR you can experience and present your projects in an immersive way. Immerse yourself directly in your models and get a realistic sense of space that revolutionises planning and presentation. This technology opens up new possibilities in communication and internal design processes. Thanks to the seamless integration, the setup is straightforward and you can get started right away.



New room scale VR mode of transportation

With the latest version, ELITECAD now supports room scale VR locomotion including auto follow of the body. This means you can move freely in your physical space with your own legs and every

movement you make is transferred directly to the virtual environment. Auto follow ensures that the virtual scene adapts seamlessly to your position, even if your physical space is limited. This extension allows you to delve even deeper and more immersive into your projects and benefit from a more natural interaction with your models.

Artificial Intelligence

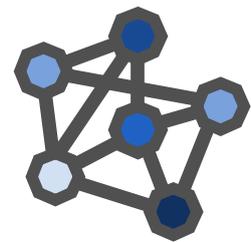
Native integration of AI in ELITECAD

We at XEOMETRIC see great potential for a revolution in everyday planning and thus a significant increase in efficiency through the use of artificial intelligence (AI). Our clear aim is to automate recurring, unexciting and time-consuming tasks so that you have more time for what is important: the creative design process - after all, your creativity is indispensable.

By specifically integrating AI directly into ELITECAD, we create real added value instead of just generating pretty images without a personal touch. We are convinced that this can lead to a massive increase in efficiency and quality. We are currently focusing on the direct integration of variants of large language models from OpenAI that we have specially trained.

Data protection is our top priority. We do not train models with user data, so your information always remains safe. Our long-term goal is to provide an offline version that works without an internet connection and still offers full AI functionality.

With this innovation, we want to give you tools that make your everyday work easier and help you exploit the full potential of your projects. You can concentrate fully on your creative tasks while the AI efficiently supports you with time-consuming tasks.



Luna Assistant

A new, native AI assistant called Luna will soon be available as an option to support you in your daily work in ELITECAD. Luna is integrated directly into the software and is there to help you make your workflows more efficient and pleasant. With intelligent functions and personalised help, Luna makes many tasks easier for you, giving you more time to concentrate on creative construction tasks. Luna will be continuously expanded in several phases over the course of the next year. So, you can look forward to regular updates and new functions that will optimise your workflow even further. Whether it's quick answers to questions, automated processes or helpful tips - Luna is constantly evolving to meet your needs as best as possible.

With Luna at your side, you benefit from intuitive operation and increased productivity. You can concentrate fully on your projects while Luna takes care of time-consuming details. Discover now how Luna revolutionises your everyday work and helps you get the most out of ELITECAD.

Improved workflow through quick access to information

With the new AI assistance in ELITECAD, your workflow will noticeably improve thanks to quick access to important information. Luna has extensive knowledge in the areas of mechanical and plant engineering and ELITECAD functions. You can ask her questions at any time and receive useful answers directly in the software. This saves you time because you no longer have to spend a long time looking for solutions yourself. Whether it's about specific ELITECAD functions or technical questions about mechanical and plant engineering - Luna is there to help you competently.

Seamless integration into your work environment

You no longer have to switch between different applications because Luna is directly integrated into ELITECAD. This central communication allows you to work more efficiently and with more focus.

You can ask Luna questions at any time and receive comprehensive answers that can include text, images, tables and even CAD content. This means that you get all the information you need for your work directly in your familiar environment. Whether you have technical details, specific functions or general construction questions - Luna is there to help you with her extensive knowledge.

Optimal support through context awareness

With Luna's skills, you get a competent sidekick for your daily work. If you wish, Luna can analyse the current CAD context and offer you valuable help exactly where you need it. This means that Luna gives you targeted tips and support on what is currently happening in your CAD window.

A practical example: Luna can evaluate the plan according to certain criteria and give you feedback. This way you can ensure that all requirements are met and avoid unnecessary queries or corrections.

Thanks to Luna's knowledge of ELITECAD, you can automate routine tasks directly in the software. Luna has direct access to ELITECAD functions which can offer countless possibilities.

Increasing efficiency through individualisation

Another key advantage of Luna, the intelligent assistant in ELITECAD, will be the possibility of customisation in the future. In a next version, you will be able to adapt Luna to your specific needs and train her with your own specifications. This means that Luna not only provides general knowledge, but also learns your individual office standards and helps you comply with them.

This adaptability helps Luna to help you work more efficiently and avoid mistakes. For example, she can check whether your projects comply with company-specific guidelines and give you helpful tips when deviations occur. This way, you can ensure that all your plans are created consistently and according to your office's specifications.

ELITECAD Insider Program - Be part of the future

The world of artificial intelligence is dynamic and offers countless exciting possibilities. Security and data protection are our top priority. Our developments are already showing promising results, but there is still work ahead of us.

The new AI functions will gradually become available as a separate, optional module over the course of the next year. If you don't want to wait that long and are keen to test the latest features in advance, you can sign up for the ELITECAD Insider program. This allows you to try out the latest functions, contribute ideas and help shape the future.

Spots are limited – so be quick and become an **#ELITECADinsider!**
We look forward to receiving your application so that we can shape
the future of ELITECAD together with you.



Terrain

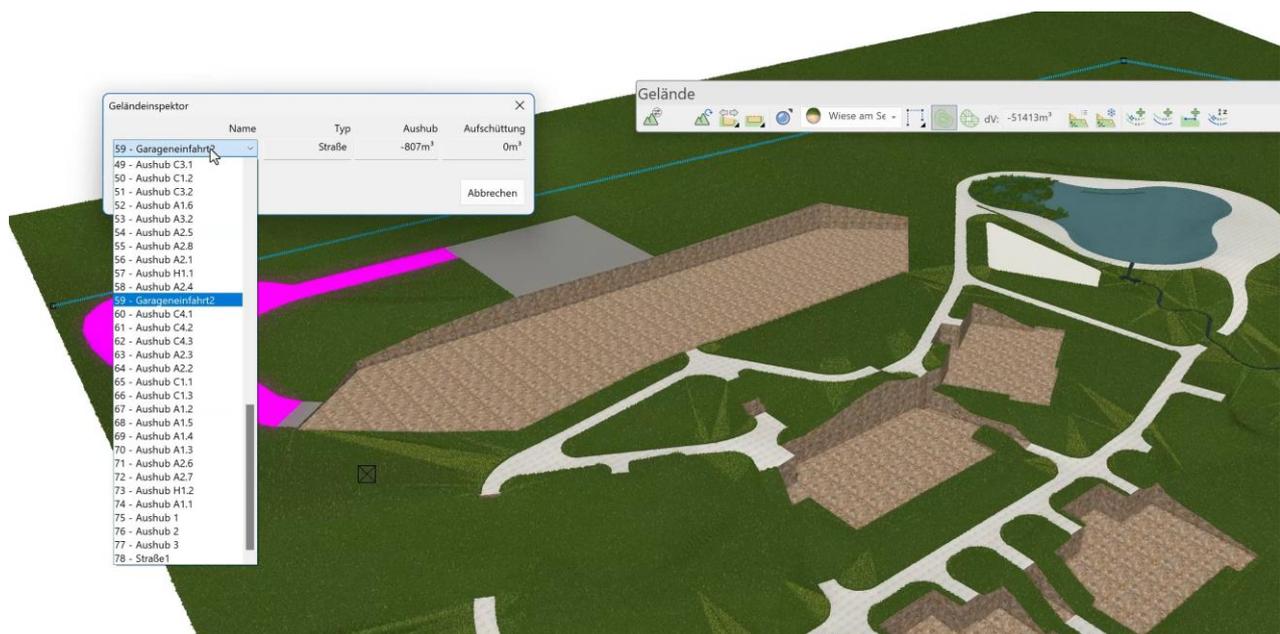
Import of contour lines and points to existing terrain

With the new version, you can expand your existing terrain model even more easily by importing additional points or contour lines. This is particularly useful if you want to add external surveyor data later. You can add contour lines from PDF or DXF files as well as elevation points from text files directly into your existing terrain.

Merging terrain data using georeferencing

Thanks to the extensive enhancements in georeferencing, you can now easily merge multiple terrain data into the same reference system - with just one click. The time-consuming manual alignment is completely eliminated, which not only saves you valuable time, but also avoids errors. The offset of the terrain has been merged with the CAD reference point, so that rotated reference systems are now also possible.

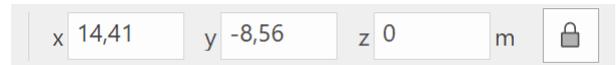
New terrain inspector for easy navigation through modifications



The new terrain inspector gives you a powerful tool to track the modifications to your terrain chronologically. Every change made, such as earth movements through removal or filling, can now be clearly identified by assigning a name. This makes it much easier for you to keep track of and manage complex terrain modifications. You can simply switch through the various modifications and track the history of your changes. This tool not only serves as a visual check, but also improves the representation of your terrain model.

Copy Z-value for elevation points from point input

Previously, when adding new elevation points, the Z-value had to be predefined. This made sense if

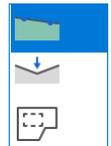


x 14,41 y -8,56 z 0 m 

the points were entered in the top view and all the new points were at the same elevation. Now you can freely choose whether the Z-value is taken from the predefined elevation value or from the point input itself. This allows you to quickly add points at any position to the terrain.

Drainage using point/contour

When excavating terrain, it is often necessary to specify a lowest point or a drainage contour for removing water. These exact settings are now also available for excavation. This means that the excavation fits perfectly to the foundation above.



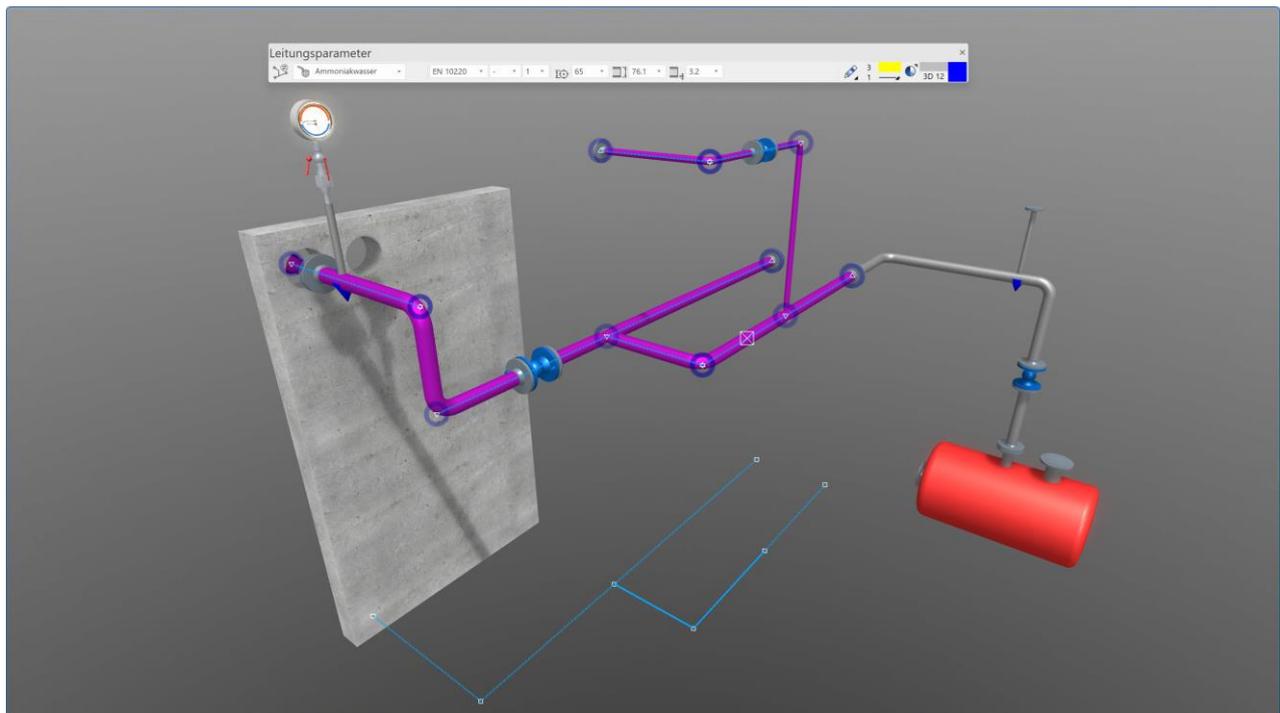
Terrain export

The terrain surface can now also be exported as a point grid to an ASCII file. The same formatting options are available as when importing and you can return the terrain to your project partners or continue editing it with other tools.

Piping

Improved usability through intuitive handles and grippers

Creating piping networks with the piping module in ELITECAD is now much more user-friendly. We have aligned the piping with the other components in the program and equipped it with intuitive handles and grippers. This makes subsequent changes much easier. You can select, move, rotate or adjust the properties of piping elements directly in the model without having to go through complex menus or redraw elements.



More flexibility when adjusting heights and positions

Simply select a line, a pipe, an armature, etc., select the displayed handles and grippers and intuitively make the desired changes, such as adjusting heights or positions. Simply efficient - just as you've come to expect from ELITECAD. This makes piping planning fun too.

Automatic updates through improved editor

Piping lines, pipes and other elements now have an improved editor. Lines can be changed later and, where possible, gradient calculations and three-line lines are updated with the known values. 3D handles can be used to set heights at specific points and then remove their fixation again.

Furthermore, position changes of lines and pipes that belong to a common network are automatically updated by the editor.

