



Tekla software for rebar detailing & fabrication



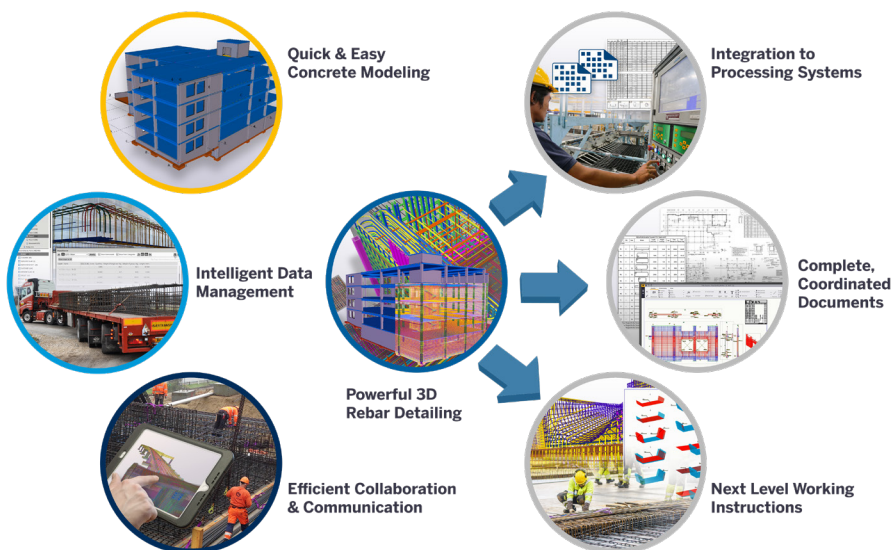
The most advanced BIM software for rebar detailing and reinforced concrete construction

Working with Tekla software is a smarter and more efficient way to do rebar detailing and fabrication. You can efficiently communicate, coordinate, and transfer information that enables you to improve your rebar assembly and construction productivity of reinforced concrete structures.

The most powerful, yet straightforward, 3D modeling environment automates repetitive rebar detailing and documentation tasks. With intuitive management tools, construction-quality information is always easily available for reporting and material handling. You can automatically export data to rebar MES software and cut-and-bend and mesh welding systems. Easy to understand rebar assembly guides with 3D visualizations reduce RFIs, improve quality, and make prefabrication and rebar placing on site more efficient.

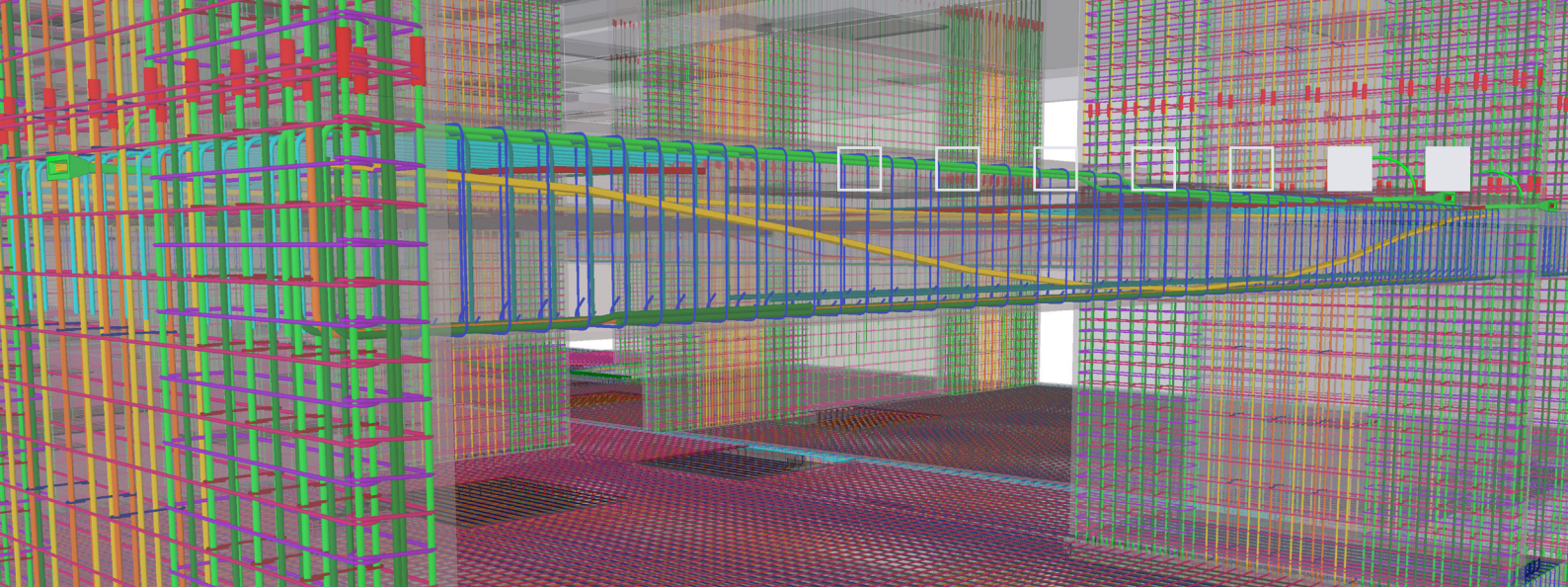
With Tekla you can

- ▶ Detail any rebar structure in 3D, regardless of size and complexity
- ▶ Number rebar automatically and generate all documents directly from a model
- ▶ Prevent detailing, documentation and coordination errors
- ▶ Save time and prevent human errors in data input to rebar processing systems
- ▶ Adapt to project changes effectively
- ▶ Find, use, report and transfer information efficiently according to your process needs
- ▶ Drive efficiency and quality in fabrication and the field



“Tekla Structures can be used throughout an entire construction project, from the tender, design, and construction stage through to model sharing – which is why it has been our software of choice for so long.”

- Greg Johnson, Solve Structural Design Ltd



3D rebar detailing

Offer better deliverables that are valuable to your customers, and avoid wasting material and resources due to coordination errors, conflicting content in documents, and inefficient communication. Achieve construction-ready level accuracy, improve the quality of detailed rebar design and documents, and automatically transfer data to production or exchange information with all the project stakeholders.

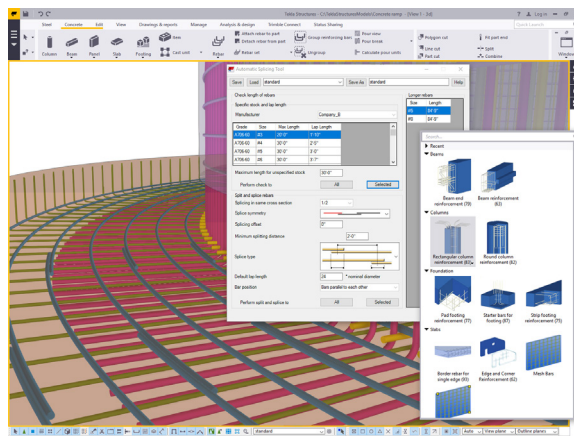
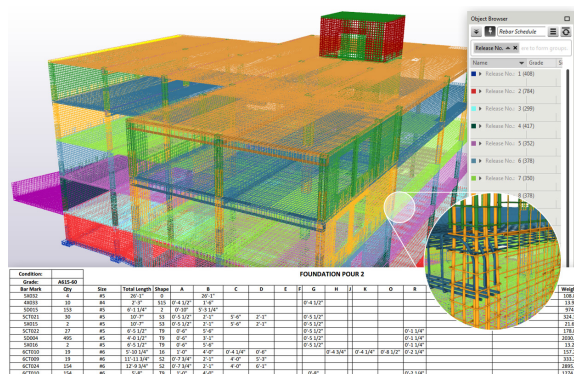
Multiply your productivity

Modeling rebar in Tekla is easy and intuitive. You can multiply your productivity by efficiently using Tekla's rebar modeling options:

- ▶ Save predefined rebar modeling configurations that suit your project's needs.
- ▶ Reduce the modeling time of any repetitive structure using intelligent custom components.
- ▶ Create your own libraries and share these with your teams to standardize and streamline work.

Save time with flexible and reliable automatic numbering

- ▶ Choose solid numbering for the whole model, or work breakdown structure depending on your needs.
- ▶ Set numbering series and let the automation find and assign the same number to the same part types.

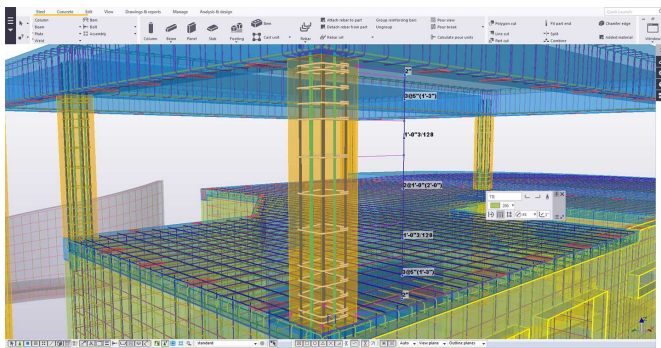
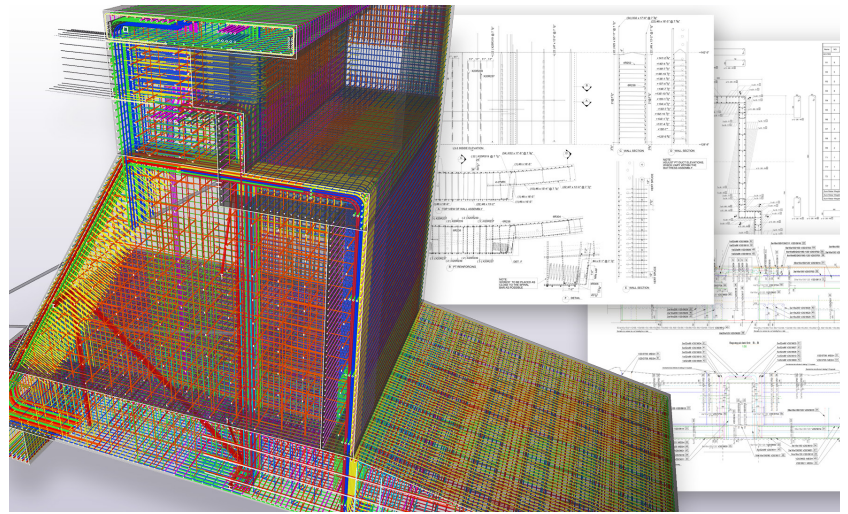




Get it consistently right

Get the documents with correct and consistent information from the very beginning and through the entire process.

- ▶ Generate placement and production drawings complete with bar marks.
- ▶ Pull-out pictures and bar bending schedules directly from the model.
- ▶ Create reports, bending schedules, and material lists for bars and meshes automatically.

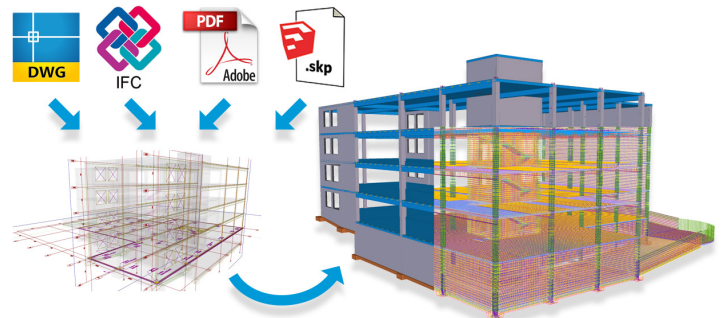


Adjust, modify, update, and adapt to changes easily

- ▶ Placed reinforcement automatically adapts to any changes in concrete geometry or properties like cover thickness.
- ▶ Adjust rebar placement and modify settings easily by interacting directly with model objects.
- ▶ Make updates only once: associative drawings and schedules can be updated automatically when the model changes.

Collaborate effectively

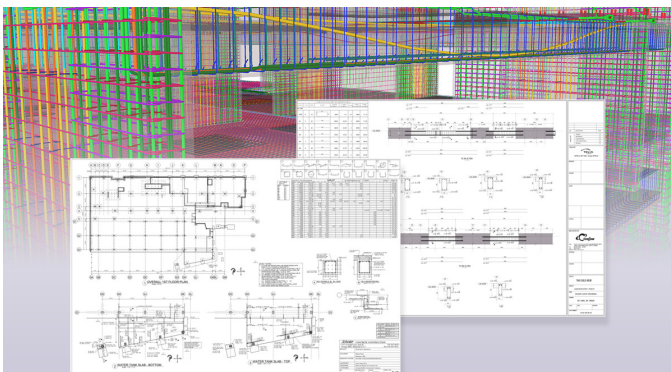
- ▶ Work with your team and partners: multiple users can work on the same Tekla model at the same time regardless of location, time zone, or the speed of their internet connection using Tekla Model Sharing.
- ▶ Exchange models in IFC format and work with complementary solutions using standard formats such as PDF, DXF, DWG, DGN.
- ▶ Detect and report design changes in reference model revisions automatically.
- ▶ Create 3D visualizations for complex connections, prefabricated cages, and communicate rebar placement sequences. 3D views and visualizations can be included in the drawing. The 3D models can be viewed with collaboration tools such as Trimble Connect.





Rebar drawings and schedules

With Tekla Structures, those who detail and document reinforcing steel for fabrication purposes can address late design and on-site changes efficiently, and avoid requests for information (RFIs) by producing more accurate, information-rich fabrication and construction drawings and schedules.

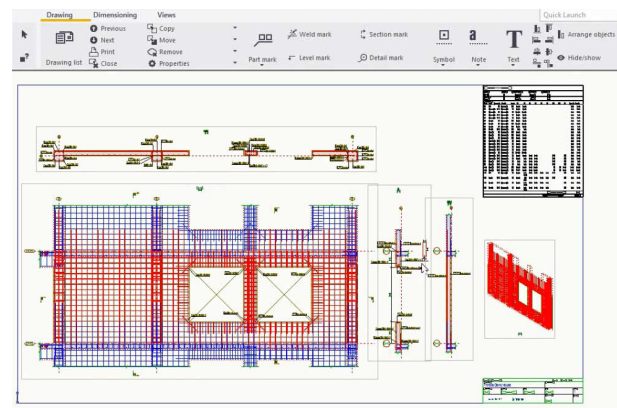


Draw it right

- ▶ Generate placement and production drawings complete with bar marks, pull-out pictures, and bar bending schedules directly from the model.
- ▶ Ensure consistent information in all drawing views, lists, and schedules with the direct link between the model and the drawings.

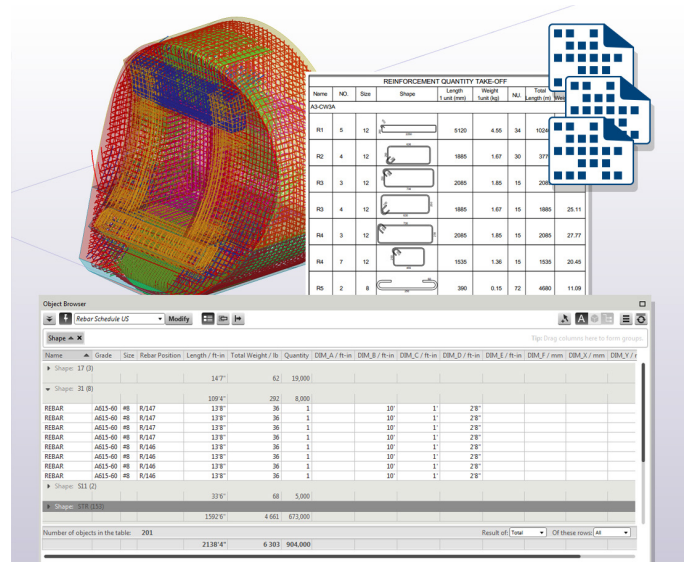
Automate your drawing production

- ▶ Create complete drawings for standard structures, such as pad-footings and columns using predefined settings.
- ▶ For more complex structures, create pre-set rules for different drawing views to quickly create dimensions and annotations.
- ▶ Add bar marks and pull-out pictures with a single mouse click.
- ▶ Generate additional sections, views, and 3D visualizations at any time.
- ▶ Create predefined rules to automate and standardize your documentation.



Get reliable data directly from your model

- ▶ Create bending schedules and material lists for bars and meshes automatically.
- ▶ Include schedules into any drawing or report separately.
- ▶ Export data using industry-standard formats such as BVBS, PXML, and Unitechnik, and in proprietary formats of aSa, LP-System, Soule, Arma+, and many more.



The construction software for rebar fabrication

Increase your productivity and prevent rework by improving documentation, management, and transfer of the information with Tekla software. When the constructible Tekla model is the source for all deliverables, you always have the same good quality information at hand to be used for bending schedules, bar lists, and rebar shop drawings.

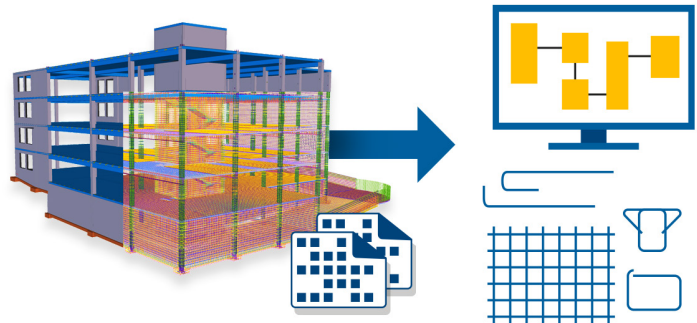
Fabrication quality data can be automatically transferred from the model to rebar cut-and-bend and mesh welding systems and material handling software. Automated tools enable managing, reporting, and coordinating information quickly and easily, according to production and delivery units. This helps you ensure delivery on schedule, running into fewer problems on site.





Transfer your fabrication data effortlessly

- ▶ Interface with the leading rebar MES software and rebar processing systems.
- ▶ Integrate Tekla model data with your processes and applications through Tekla Open API™ application programming interface and achieve seamless data transfer.

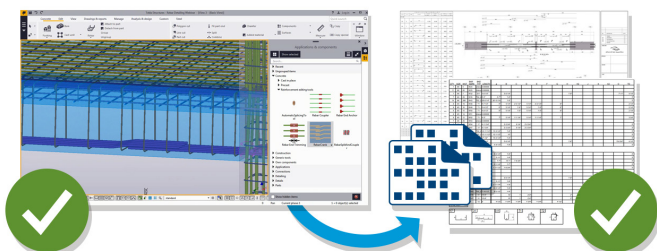


Drive efficiencies and quality – take advantage of your model

Include 3D visualizations of rebar cages, complex connections, and placing an order in drawings to improve understanding of the work in progress.

Any user-defined information such as placing sequence and fabrication status can be added to model objects and visualized in 3D.

Those who plan and manage production and construction can work in the same model with a detailing team, utilizing detailed models and adding process relevant information using Tekla Model Sharing.



Create and manage the information that fits you best

- ▶ Organize and manage information according to your process needs by using the automated and flexible functionalities of the Tekla software
- ▶ Create on-demand reports, bending schedules, and material lists for bars and meshes directly from the model.
- ▶ Manage and coordinate information by structure types work breakdown structure, pour, and releases.

“The move from 2D to data-rich 3D models has allowed the team to visualize steel components and more easily identify potential errors. Automatic clash checking has also helped ensure that costly conflicts are exposed in the model before moving to the shop floor”.

- Dan Stevens, Dimension Fabricators



Educate

Design

Detail

Fabricate

Construct

Tekla software by Trimble

Transform the way you work with reliable, detailed, data-rich structural workflows for outstanding performance. Build your legacy with truly constructible BIM, and feel the power of Tekla at your fingertips.

Why Tekla

Make the sky your limit and empower yourself to make real change with truly constructible BIM software. It drives more detail and data into structural BIM workflows for a deeper understanding of your designs at every phase. You have the expertise; we have reliable technology. Let's meet the changing demands of your industry, your customers, and the planet together. No matter your role or project size, Tekla can help you transform the construction industry, overcome challenges and achieve outstanding results.

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