



TEKLA Structures 16

Functionality & Configurations

Copyright © 1992–2010 Tekla Corporation. All rights reserved.

	Full	Steel Detailing	Precast Concrete Detailing	Reinforced Concrete Detailing	Engineering	Construction Management	Project Manager	Viewer	Drafter
View Tekla Structures models (all materials, profiles, etc.)	•	•	•	•	•	•	•	•	•
Create and modify grids	•	•	•	•	•				
Add materials, bolts and profiles to catalog	•	•	•	•	•				
Deform and undeform parts	•	• (**)	•						
Model parts (steel, concrete, etc.)	•	•	•	•	•				
Model bolts	•	•	•	•	•				
Model welds	•	•	•	•	•				
Model surface treatment	•	•	•	•	•				
Add loads to a model	•	•	•	•	•				
Model conceptual reinforcement (no workshop output)		•			•				
Model detailed reinforcement	•		•	•					
Create assemblies of steel parts	•	•	•						
Create cast units of concrete parts	•		•	•					
Create levels of assembly hierarchy	•	•	•	•					
Create cast-in-place concrete reinforcement drawings with bending schedules	•		•	•					
Create conceptual connections (no workshop output)			•	•	•				
Create detailed steel connections	•	•							
Create detailed concrete connections	•		•	•					
Create preset connections automatically to multiple parts	•	•	•	•	•				
Customize drawing title blocks and reports	•	•	•	•	•	•	•		
Create general arrangement drawings (plan, section, erection etc.)	•	•	•	•	•				• (***)
Create single part drawings (steel)	•	•							• (***)
Create assembly drawings (steel)	•	•							• (***)
Create cast-unit drawings (precast concrete)	•		•						• (***)
Create, assign and manage scheduled tasks	•					•			
Split model into delivery/erection lots	•	•	•	•	•	•	•		
Create erection sequences	•	•	•	•	•	•	•		
Add and use user-defined attributes (schedule, status etc.)	•	•	•	•	•	•	•		
View model information in 4D (simulated schedule)	•	•	•	•	•	•	•	•	•
Manage and view different logical areas and object types in models	•					•			
Detect and manage clashes in models	•					•			
Clash check model objects and reference models	•	•	•	•	•	•	•	• (****)	• (****)
Work simultaneously on the same model with several users	•	•	•	•	•	•	•	•	•
Manage user rights	•	•	•	•	•	•	•		
Publish models so that they can be viewed with Internet Explorer	•	•	•	•	•	•	•		
Print and plot drawings and reports	•	•	•	•	•	•	•	•	•
Mark parts automatically (numbering)	•	•	•						
Create reinforcement reports (bending schedules, weights, amounts, etc.)	•		•	•		• (*)	• (*)	• (*)	• (*)
Create reports that do not include part marks (material lists, volume lists, etc.)	•	•	•	•	•	• (*)	• (*)	• (*)	• (*)
Create reports (assembly lists, part lists, etc.)	•	•	•	• (*)	• (*)	• (*)	• (*)	• (*)	• (*)
Exchange data in CIS/2 format	•	•	•	•	•				
Export CNC, DSTV	•	•				•	•		
Exchange data with MIS systems	•	•	•	•	•	•	•		
Import external/export data via links (e.g. FEM, SDNF, XML etc.)	•	•	•	•	•				
Import/ export data via links (Eliplan)	•		•						
Export data via links (Unitechnik, BVBS)	•		•						
Import data via open API	•	•	•	•	•	•	•		
Export data via open API	•	•	•	•	•	•	•	•	•
Import and export data via IFC 2x2, 2x3	•	•	•	•	•	•	•		
Data exchange interface with Analysis and Design software	•	•	•	•	•				
Import and export graphic data, 2D and 3D (DXF, DGN, DWG)	•	•	•	•	•	•	•		

(*) depending on the configuration the model was made with
 (***) edit drawings previously created from model

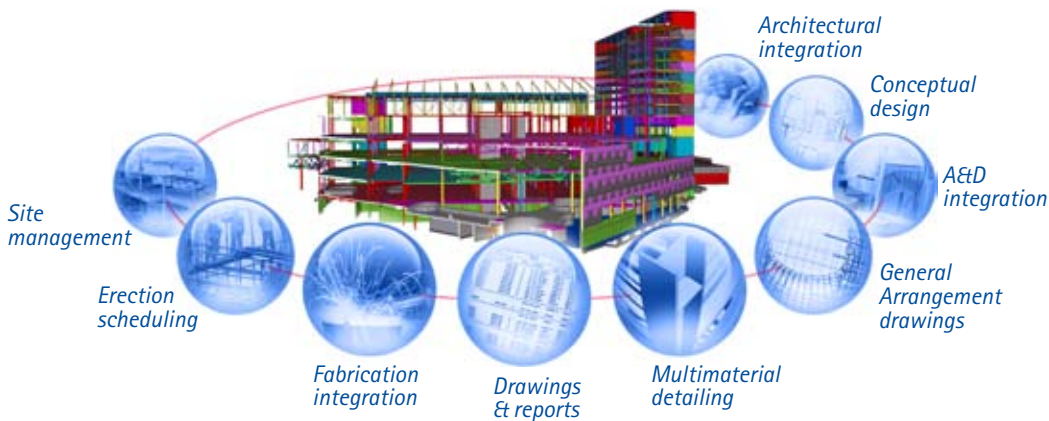
(**) warping is possible in steel detailing
 (****) limited to model objects



Tekla's technology creates new business opportunities for the construction industry. The most advanced building information modeling (BIM) solution on the market includes an accurate, dynamic and data-rich 3D environment.

The highly detailed 'as-built' digital structural models generated with Tekla Structures software enable effective visualization and management of the project. Effectively integrating model and non-model-based software solutions allows using the building information model in collaborative workflows.

Tekla Structures users can streamline the design, fabrication, and construction processes, ultimately ensuring the highest level of constructability in project delivery. Tekla Structures encompasses specialized configurations for structural engineers, steel detailers and fabricators, concrete detailers and manufacturers, and construction companies.



SOFTWARE CONFIGURATIONS

Tekla Structures software is available in different configurations to meet the demands of your business.

• Tekla Structures, Full

For all design-to-construction disciplines. Users can create 3D models of both steel and concrete structures, generate output data used during fabrication and erection phases, communicate and manage information from supply to installation as well as track project status.

• Tekla Structures, Steel Detailing

Create detailed 3D models of all kind of steel structures and produce fabrication information (assemblies, workshop drawings, reports, CNC and MIS output, as well as erection drawings).

• Tekla Structures, Precast Concrete Detailing

Create 3D models of concrete structures and output manufacturing and fabrication information (cast unit drawings and reports, as well as erection drawings).

• Tekla Structures, Reinforced Concrete Detailing

For cast-in-place/situ concrete detailing. Create 3D models of concrete structures and output erection drawings of cast-in-place structures.

• Tekla Structures, Engineering

For conceptual and general design. Create 3D models of structures, exchange information with CAD or FEM software, and output erection drawings and reports.

• Tekla Structures, Construction Management

Covering the pre-construction, construction planning and site management phases of a construction project.

• Tekla Structures, Project Manager

Supports the work process of e.g. shop managers. Create and modify phases, create CNC files, import XML files from MIS software, create several MIS exports, run reports and print drawings.

• Tekla Structures, Viewer

For viewing the model and print output. View 3D models of structures, create reports and print drawings.

• Tekla Structures, Drafter

For editing drawings. View 3D models of structures, modify and save drawings, create reports and print drawings.

Tekla Structures is available in the following localized environments:

- Australasia
- Austria
- Brazil
- China
- Czech
- Finland
- France
- Germany
- Greece
- Hungary
- India
- Italy
- Japan
- Korea
- Netherlands
- Norway
- Poland
- Portugal
- Russia
- South Africa
- South America
- South-East Asia
- Spain
- Sweden
- Switzerland (French / German / Italian)
- Taiwan
- United Kingdom
- United States (Imperial / Metric)

Manuals and help is available in:

- English
- Chinese (simplified)
- German
- Spanish
- French
- Italian
- Japanese
- Dutch
- Russian

The software user interface is available in:

- Chinese (simplified / traditional)
- Czech
- German
- Spanish
- French
- Hungarian
- Italian
- Japanese
- Dutch
- Polish
- Portuguese
- Brazilian Portuguese
- Russian

