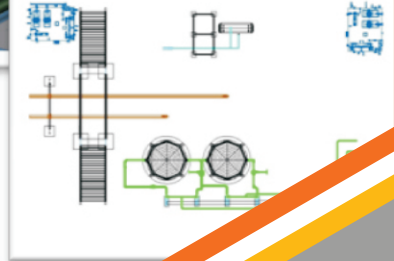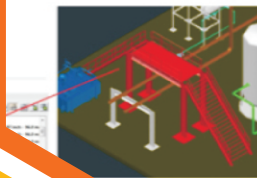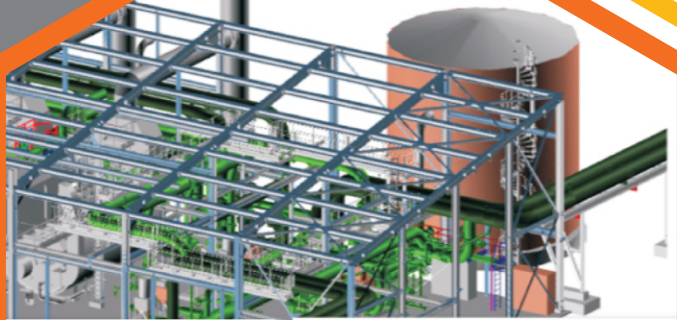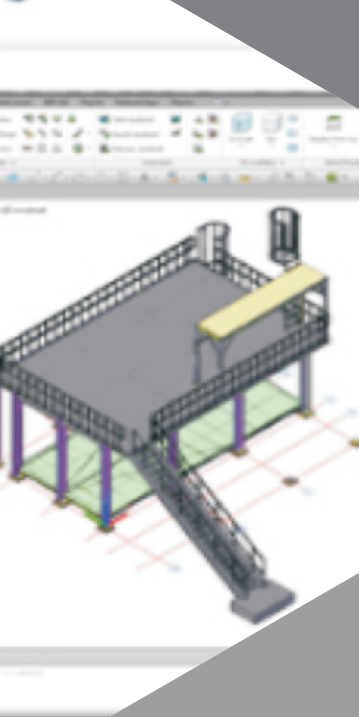# CADIS⬢N® Steel Layout

Plan & Create 3D Steel Structures
(as per the Industry Standards)
Efficiently in Plant Design

A wizard-based tool for creating standard steel structures and custom assemblies. It helps the users to extract **GA** drawings of the structures and generate reports for **Bill of Materials (BOMs)** and **Bill of Quantities (BOQs)**. It has **SDNF** export interface which enables the users to export steel structure data to **Tekla** or **Advance Steel** for further detailing.

CADISON® Steel Layout for Efficient Steel Structures & Assemblies

Steel Layout Planning

Standard(s) Configuration

SDNF Interface

CADISON® Steel Layout

GA Drawing & BOQs / Reports

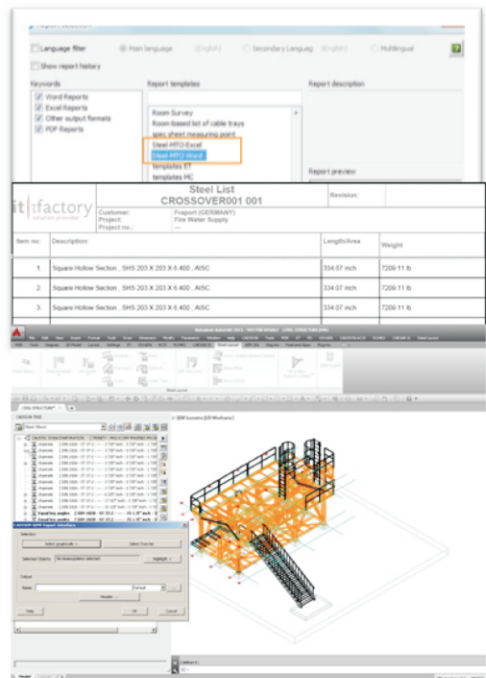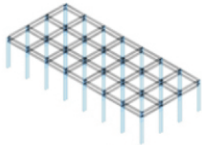Wizard for Standard Structures

Custom Assemblies

Key Features:

- Effortless placement of standard and custom steel structures using wizards
- Easier Standard configuration to quickly create layouts with minimum inputs
- Reusability of Standard / Steel objects for new projects
- Standard 3D structures (Platforms, Handrails, Staircases, Ladders, Trusses, etc.) can be created and modified based on user inputs
- Capability to build custom assemblies and structures of steel objects
- SDNF interface to export steel structure to Tekla / Advance Steel for further detailing
- Integrated report generator for extracting BOM, MTO, etc.

Steel Layout as per the Standards:

- 3D Steel layout with minimum inputs as per the standards (DIN, ISO, BS, ISA, etc.)
- User can create company standards or create new standards for selected structure type or sub type
- It validates the values entered by user with the guiding values from a standard (units, default / maximum values, etc.)
- Create structures with the selection of valid catalog shapes and types of objects for the components
- User can also copy existing standards and fine-tune it using 'Edit' option available in 'Administrate configuration set' UI
- Differential features like end-cut representation of end cuts to trim the steel profiles(beam / columns), adding multiple steel profiles such as beams or columns for quicker creation of structural assemblies are also available
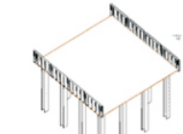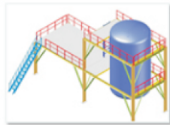
Beam/Column

Staircase

Handrail

Platform

Trusses
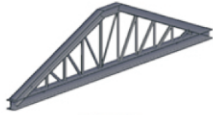
Caged Ladder
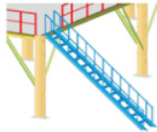
Wizards for Standard Structures:

- The User can define and select steel sections for Columns, Primary & Secondary Beams, Braces and types for Base Plate and Flooring
- Quickly generate the Staircases & Ladders and also ensure the selection and entering of required apt profiles and valid inputs
- Three types of Caged Ladder are supported i.e. Caged ladder with front exit, Caged ladder with left exit, Caged ladder with right exit
- Allow user for quick creation of different Platforms i.e. Rectangular, Polygonal (Circular) and freeform platforms
- User can quickly create and place continuous or split handrails along with the selected path
- Seven types of Trusses are supported i.e. King Truss, Queen Truss, Warren Truss, Pratt Truss, Lattice Truss, North Flight Truss, Hove Roof Overhanging Truss

**Custom Assembly of Steel Objects:**

- With assembly object feature i.e. Steel Structure, user can build the custom assembly of steel objects to respective group with naming / labelling system
- Naming the Steel Structure helps in identifying and categorizing the steel elements at plant level such as platforms, gratings, frames, roofs, towers, etc.
- Created Steel objects can be utilized in preparing specific BOMs and cost calculations
- Build Custom / Non-standard structures like Pipe Racks, towers, custom pipe supports, frames, custom platforms, gratings, roofs, etc.
- Enable the user to create non-standard pipe supports manually using steel profiles (Beam / Columns)
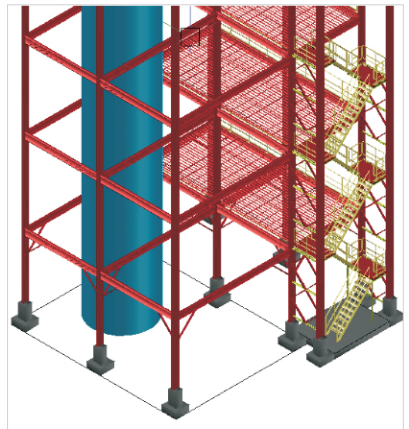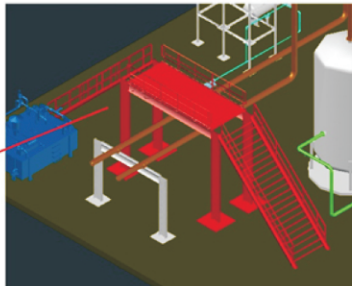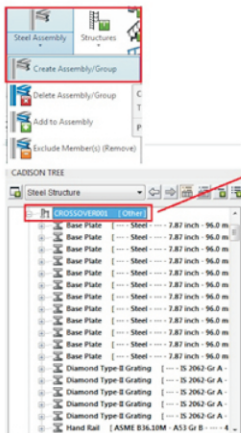
Report Generation:

- Ability to extract PDF, word, excel reports from integrated Report Generation Tool
- These reports give partwise information of its type, size and weight or provide categorized report of the steel sections for the type, length, weight and quantity
- BOMs & Reports can also be used for cost calculations and MTO for quantity extractions
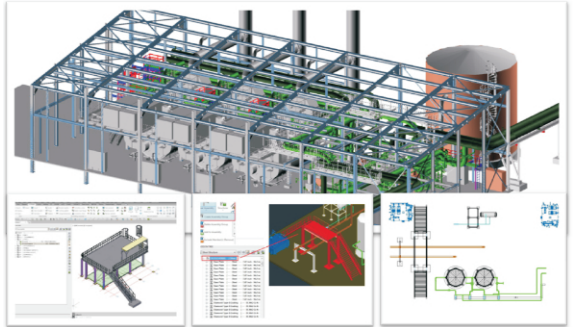
SDNF Interface:

- With built-in Structural Steel Detailing Neutral File (SDNF) export interface, the user of Steel Layout can export steel structures to Tekla, Advance Steel for further detailing
- User can select steel structures (graphically or from a list / tree) to export. The preview option to view the selected structures enable user to verify the selection accuracy of intended structures before exporting
- With the SDNF interface CADISON bridges the gap between 3D Steel Structure layout and fabrication detailing workflows
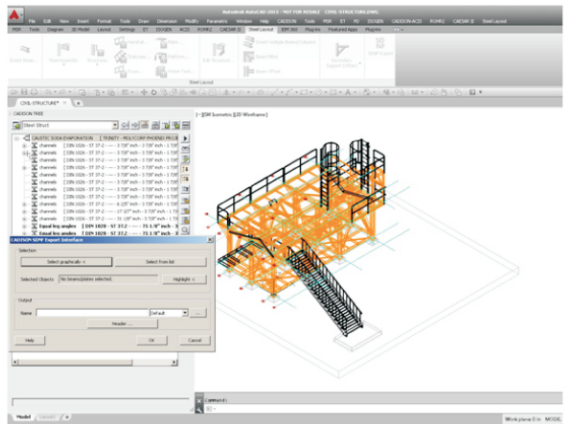
Benefits:

- Save significant time in creation and visualization of complex structures for space planning & collision control
- Quick and easy tool for modeling of Steel Layout as per the standards
- Accurate BOM generation from the layout drawings using CADISON report template
- Export drawing in SDNF format to Tekla / Advance Steel for further engineering / analysis

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