

Available functionalities

Autodesk Advance Steel 2016 Packages

Advance Steel
2016

AutoCAD +
Advance Steel
2016

MODELING

- Structural elements, e.g. portal frames, trusses and joists.
- Straight beams, curved beams, compound beams, welded beams
- Plates, folded plates, gratings, folded beams
- Miscellaneous steel (Stairs, railings, cage ladders...)
- Shortening / Coping elements (shortening, cope, contour, miter cut)
- Bolts, anchors, shear studs, holes
- Advance modeling tools
- Cladding
- Concrete objects: beams, walls, slabs and footings
- Timber objects: beams
- Advance Steel API
- Multi-User: possibility for several users to work together at the same time to create a model



PREDEFINED CONNECTIONS

- Connections between structural elements: base plate joints, column-beam connections, beam-to-beam connections, purlin connections, bracing joints.
- Steel connections checking according to EC3 and AISC-standards
- Quick-connections
- Cold rolled connections
- Custom Connections allowing the creation, storage and re-using of user specific connections



LIBRARIES

- Cold and hot rolled profiles, folded beams
- Materials: steel, concrete, timber and other materials, etc.
- Bolts, nuts, washers
- Shear studs
- Anchors
- Possibility to create user sections.



MODEL CHECKING

- Collision check between elements, e.g. bolts and elements
- Location check for connecting elements (welds or bolts)
- Construction tools access to check buildability
- Consistency of elements numbering (fabrication, delivery and erection)
- Holes and bolts distance checking



NUMBERING

- Numbering methods for parts, assemblies, bolts, anchors and studs
- User-defined numbering prefixes
- Preliminary marks



AUTOMATIC DETAILING

- 3D and 2D views (plan and elevations)
- Node details
- Assemblies: details styles for columns, beams, bracings, plates
- Parts: specific views, dimensions, labels
- Automatic dimensioning of necessary points
- Automatic labeling
- Automatic detection of necessary views for shop drawings
- Intelligent manual dimensions
- Intelligent weldinglines



LISTS

- Lists on drawings: part lists, assembly lists
- External lists: BOMs, assembly lists, saw cut lists, folded plate lists
- List export to XLS, PDF, RDF.....



NC FILES

- DSTV files
- DXF files



IMPORT / EXPORT		
• SDNF, PSS, CIS/2, IFC, KISS, STAAD	✓	✓
• BIM synchronization with Advance Design and Revit	✓	✓
STRUCTURAL ANALYSIS		
• Finite Element Structural Analysis (see column "Advance Design – ISV" on Advance Design package description)	✓	✓
CAD PLATFORM		
• Autodesk® AutoCAD® 2016		✓