

# Available functionalities

## Advance Steel 2013 Packages

	Standard	Professional	Premium
<b>MODELING</b>			
• Create Structures over 10 tons*		✓	✓
• 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		✓	✓
<b>PREDEFINED CONNECTIONS</b>			
• 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	✓	✓	✓
<b>LIBRARIES</b>			
• 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.	✓	✓	✓
<b>MODEL CHECKING</b>			
• 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	✓	✓	✓
<b>NUMBERING</b>			
• Numbering methods for parts, assemblies, bolts, anchors and studs	✓	✓	✓
• User-defined numbering prefixes	✓	✓	✓
• Preliminary marks	✓	✓	✓
<b>AUTOMATIC DETAILING</b>			
• 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	✓	✓	✓
<b>LISTS</b>			
• Lists on drawings: part lists, assembly lists	✓	✓	✓
• External lists: BOMs, assembly lists, saw cut lists, folded plate lists	✓	✓	✓
• List export to XLS, PDF, RDF.....	✓	✓	✓
<b>NC FILES</b>			
• DSTV files	✓	✓	✓
• DXF files	✓	✓	✓
<b>IMPORT / EXPORT</b>			
• SDNF, PSS, CIS/2, IFC, KISS, STAAD	✓	✓	✓
• BIM synchronization with Advance Design and Revit	✓	✓	✓
<b>MULTI USER</b>			
• Possibility for several users to work together at the same time to create a model			✓

\* Weight limit is calculated based on standard object density per object (78,5 kN/m<sup>3</sup> for steel; 21 kN/m<sup>3</sup> for concrete; 30 kg/m<sup>2</sup> for grating)