

## Advance – Steel suite 5.1 / SP1

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Advance – Steel suite 5.1 SP1 is now AutoCAD 2005 compliant.

### MODELLING

- Speed is improved for Object Snap points on curved beams
- Copying beams with slotted holes (using `_hype_copy_userconn`) no longer inverts copied objects with the slotted holes
- Copying a beam which has been split then merged now works fine
- Object snap points on main axis of a grid having neighbor axis are now available
- Grid with a neighbor axis works fine when stretched with its center grip
- For the creation of a folded plate, the user has a new option to define its center point
- It is now possible to get the model role of an object in AutoCAD "List" command
- W-sections Updated to the latest standard
- US Flat sections in imperial and metric have been added
- Better grouping of model role in prefix settings for numbering
- Solved problem in identical part detection (numbering) due to copied holes
- solved problem in identical part detection with curved beams copied by rotation
- A new default (`C0_DwgNoDependsOnStartPosNum`) has been created for numbering single part and assembly part drawings for by using the "Drawing number" numbering method
- New prefixes have been added for Numbering according to drawing number.



- Model views: the user can now cancel the command, and both folded plate and weld preparation can be included/excluded from the depth of created views
- Updated weld symbols for North America
- The search tool can be used for "Not numbered" parts (having negative position number) as created when using the "Behavior" settings
- The search tool now allows the user to search according to weld location (workshop, site)
- Holes and shear studs can now be split
- The "Standard Layer" button from AS Standard toolbar now sets the "standard" layer as the current one
- A new default (C1100\_LayerHideInDetails) for layer of Special Parts has been added
- A model saved in Shade mode is now correctly displayed when re-opened
- Improved ACIS explode function for bolts connecting beams and plates

## **JOINTS**

- "MiddleGusset\_New": gusset no longer disappears if the slope between diagonals is modified
- Better sorting of sections in the SE Frame (for North America)
- ESC can be used during creation of SE Purlins
- Stairs: definition of weld properties is more precise
- Stairs: modification of location of weld which is now "workshop" by default (and not "site")
- Stairs: the reference point changed to the upper nose (and not the lower one) for steps type 19,20,21
- Stairs: new check box to rotate the top landing – changes handing of the stringer profile
- Stairs: new possibility to give an offset for bottom and top landing
- Stairs: for steps type 8, 9, 10: vertical plates have different model role than horizontal plates
- "Esc" during update of Railings created on Stairs now works fine
- StairEndplateTop: improvement for use of a notch



## **DRAWINGS**

- Imperial units in view dialog box (for depth) is correct for negative values
- Delete views and/or details with "Del" at keyboard is now possible
- Problem with green frames becoming too big or doubled is now solved
- Plotting a "Window" area is now possible
- View cut for each endplate is now automatically created, even if endplates are identical
- Updating a BOM inside a drawing works fine
- Revision control: "Backup" folder is now translated
- Revision control: new name can be entered by user
- Update is now done when modifying camera description
- Processes for Cameras work fine with AutoCAD 2004
- Holes are always displayed in workshop drawings of folded beam/plate
- Some problems with curved beams details have been solved
- Dimensioning of holes (created by bolts) is now available for curved beams
- Improved stretch for arc dimensions (curved beams)
- Automatic dimensions can now be edited with multi-edit
- Frame around label in label designer is now correctly displayed
- For level symbols on drawings it is now possible to control the display of a "+" symbol, the use of a prefix, and the display of the "0" level. These new possibilities are controlled by new defaults in the Management Tools
- New Drawing Styles to dimension points for "Contour object" of attached parts
- New possibility in Layer Explode for setting parameters for special part labels
- Several small improvements for import/export Drawing Styles
- Modified scales names for North America
- Different default colors for running dimension and dimension texts
- Better dimension presentation

## **NC and DXF Files**

- Blocks AK are not created when not needed
- External contours for plates in NC files is correctly "forced" by the welding preparations (if there are any)
- Deleted unnecessary info from NC files (for parts having weld preparation)
- NC files for tubes only have necessary info for block AK



## **MANAGEMENT TOOLS**

- Modification of bolt diameter in imperial units is now possible
- More than 4 washers/nuts for a bolt composition now possible
- Default C40\_RasterTextHeight eliminated
- Picture is now correct for default C40\_TagLineInsideDistance
- Some small restrictions of Merge have been solved

## **IMPORT/EXPORT**

- New SDNF component (replacing the existing one), which supports curved beams, and allows an Export to SDNF V2.0 and SDNF V3.0. Same icons in Bonus toolbar as in previous versions.
- Export to "prf" format now functional

## **OTHER**

- **AutoCAD Mechanical compliance**