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# Construsoft Library Tools 2020

## Non Segment



# ML001 – Revision Tool

- Compare model with different saved versions.
- Shows added, modified and deleted objects.
- Save one or multiple sessions and compare with each other.

Revision Report Tool - Assemblies report

☒ Zoom on object

	Prefix	Start number	Deleted object
Changed assembly	K	S235JR	3500
Changed assembly	K	S235JR	3500
Changed assembly	L	S235JR	5970
New assembly	K	S235JR	3500
New assembly	K	S235JR	3500
Deleted assembly	L	S235JR	5970
Deleted assembly	K	S235JR	3500
Deleted assembly	K	S235JR	3500

CS Revision Report Tool (ML001)

Save Load standard Save As standard Help

Session Assemblies UDA About

Sessions

27-6-2016 10:02:45 Save a new time session

☐ Advance option Delete time session

Compare sessions

Old session New session

27-6-2016 10:02:45 27-6-2016 10:02:45

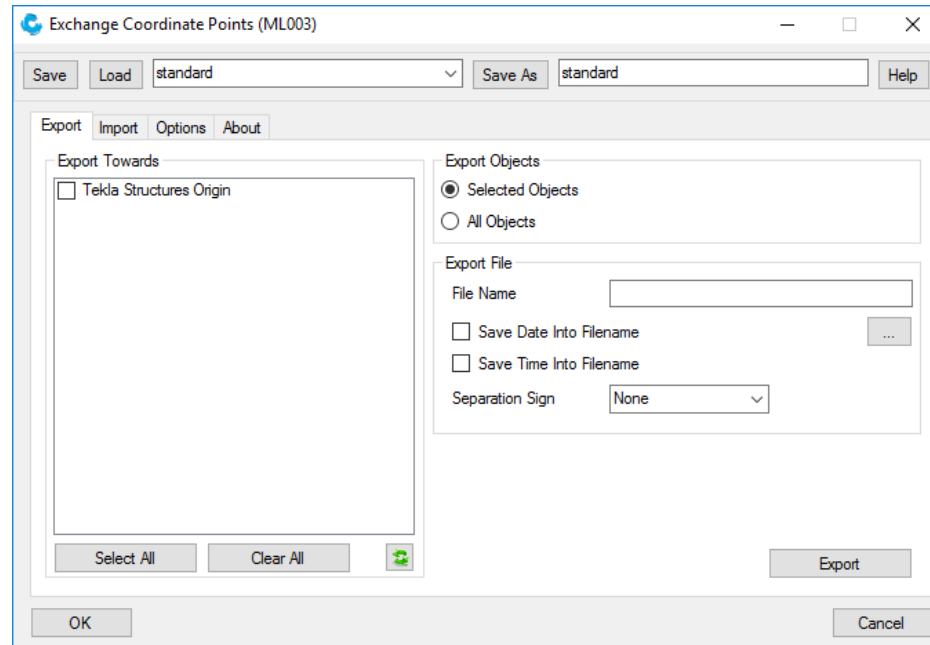
☒ Changed objects  
☒ New objects  
☒ Deleted objects

Ready OK



# ML003 – Exchange Coordinate Points

- > Import and export coordinates of points from various origins.
- > Custom component for defining an additional origin.

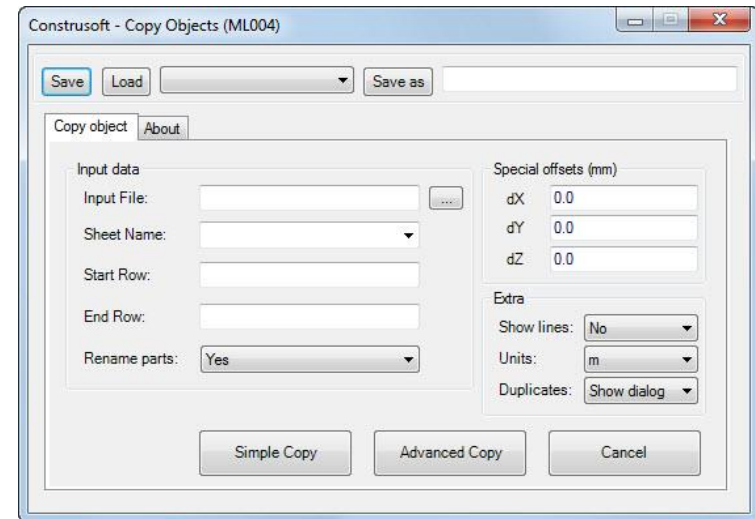




# ML004 – Copy Objects

- > Copy the object (s) and read thereby the to copy X, Y and Z-value from an Excel file.
- > To use the ML004 tool the reference Interop.Excel should be added to the advanced options.

Eigenschaften modellieren	SYSTEM	XS_MACRO_ENABLE_TIM...	FALSE
	MODEL(SYSTEM)	XS_MACRO_REFERENCES	Akit5;Tekla.Structures.Model;Interop.Excel;Tekla.Structures.Drawing;MacroSelector;
	MODEL	XS_MAXIMUM NUMBER ...	400





## ML006 – Write Numbering Results into UDA

- > Write down the current numbering to the user defined attributes.
- > After modifications you can see what the original number of a part was in the UDA's.
- > Phase in the prefix
- > Write part prefix number into UDA

CS Write Numbering Results Into UDA (ML006)

Save Load standard Save As standard Help

Parts Weldings Configuration Rebars UDA Main part UDA to sec parts UDA Pos no to UDA

Create from Selected parts

Check UDA numbering No action

Pos prefix No action

Assembly prefix No action

Pos start nr No action

Assembly start nr No action

Phase to user phase No


Create Cancel





## ML007 – Tekla Structures Version into UDA

- > Writes the Tekla version in the project properties of the model. This info (version number) can be used in stamps and / or lists.

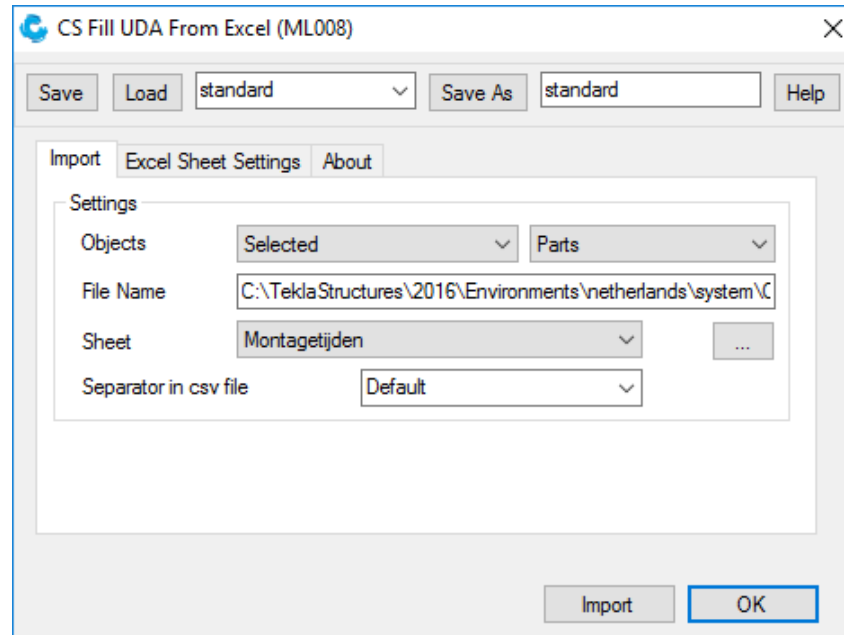
ENZIJ ANDERS VERMELD	
SEN TENZIJ ANDERS VERMELD	
	Tekla Structures 19.1
Project: project nummer	
Tekening: A [L.1]	Formaat: A3





## ML008 – Fill UDA From Excel

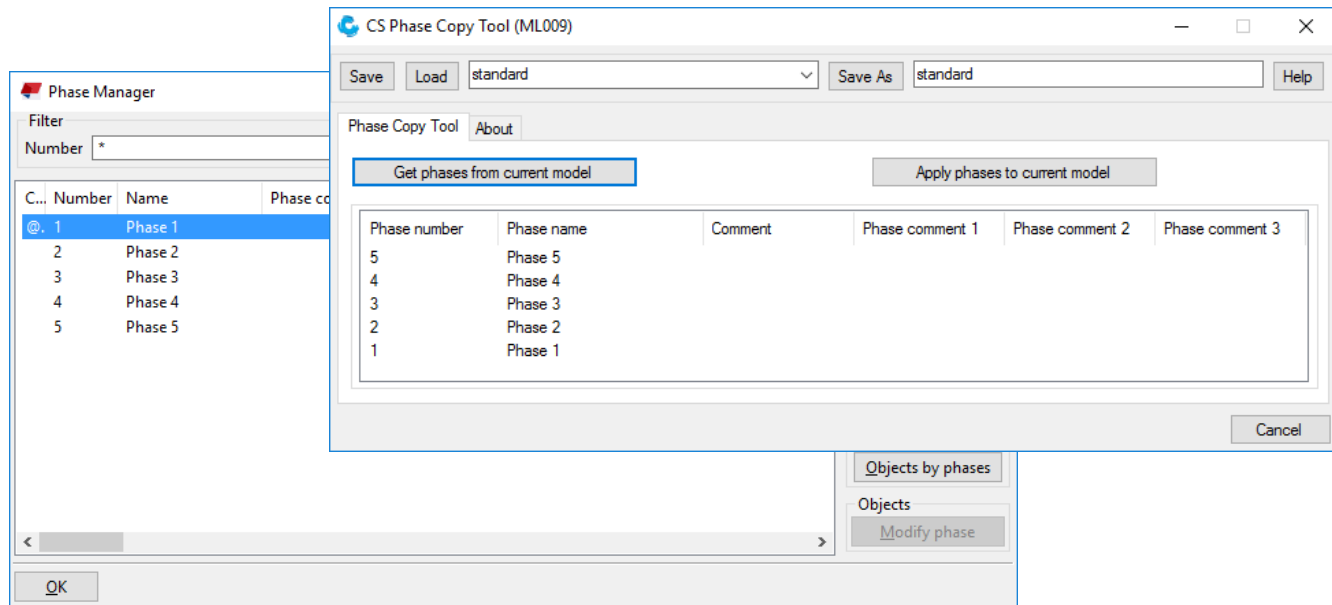
- > This tool fills the UserDefinedAttributes of the model according to conditions defined in an Excel file.
- > Practical application: Cost, Assembly Times, Item Numbers, planned - raw scrapes etc..





# ML009 – Phase Copy Tool

- > Tool to copy phases from one model to another
- > Phases are written in an XML file. This file can be loaded into a different model and the phases can be written in that model.







## ML013 –Sequence Tool (1/3)

- > Add sequence numbers in the model to any UDA.
- > simply change the order or add parts in a later state.
- > Define startnumber and intermediate step.
- > Replaces the macro's CS\_AutoSequencer en CS\_AssemblySequencer
- > Application: Foundation piles, Assembly sequence
- > Snake...





## ML013 –Sequence Tool (2/3)

- Add items, rearrange the numbers and write the UDA's to the model.



# ML013 – Sequence Tool (3/3)

- > Information can be written by assembly or part.

The screenshot shows the 'CS Sequence Tool (ML013)' window with the 'Settings' tab selected. The window has a title bar with standard Windows controls. Below the title bar is a toolbar with 'Save', 'Load', 'standard' (dropdown), 'Save As', 'standard' (dropdown), and 'Help' buttons. The main area is divided into several sections:

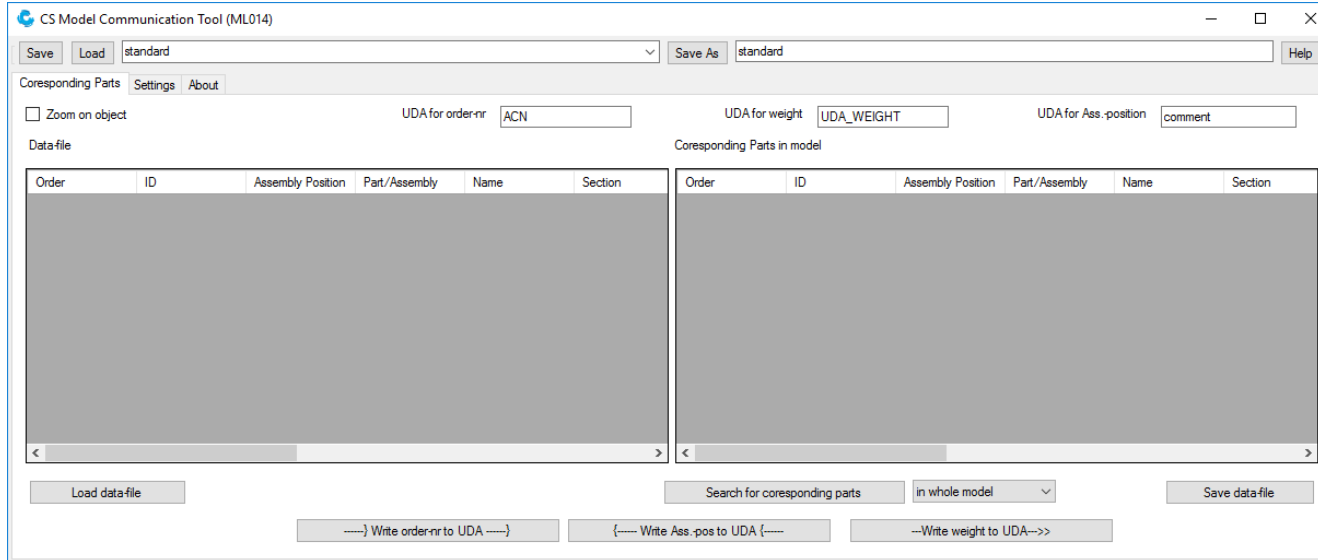
- Settings UI:** Contains a 'Sequence interface' dropdown and a 'Setting automatic load method' dropdown set to 'Load all parts with warning'.
- Settings Animate:** Includes 'Start Line Animate' (0), 'End Line Animate' (0), 'Speed' (0.3), and 'Second' (dropdown). It also has 'Selected UDA' (green bar dropdown) and 'Visible' (dropdown). A checkbox 'Keep Previous UDA's Selected' is checked, with a red bar dropdown and '50% transparent' (dropdown) below it.
- Filter:** Includes 'Read in' (Only main parts dropdown), 'No filter' (dropdown), and 'Filter' (standard dropdown).
- Show for parts:** A list of checkboxes: 'Bottom- and Top-level' (checked), 'COG-values' (checked), 'Assembly-dimensions' (checked), and 'Volumes' (checked).
- Bottom section:** A checkbox 'show browse button for save/load files' is checked, and a 'Full snake' dropdown is present.
- Buttons:** 'Reset default Layout' and 'Reset default colors' buttons are at the bottom right.





# ML014 – Model Communication tool

- > Exchange of information between two separate models.
- > For example, in one model is detailing modified and in the other model numbers are changed. A xml export is made (with the tool CS\_UDA\_Sequencer), this export is read and compared with the parts in the other model.





# ML015 – Calendar Day Convertor

- > Determining and writing day numbers and data in user defined attributes for the assembly planning..
- > On the basis of the mounting order and time the total mounting days and time are determined. Those values are written back to the userdefinedattributes of the parts.

The screenshot shows the 'CS Calendar-day Converter (ML015)' window. It features a top toolbar with 'Save', 'Load', 'Save As', and 'Help' buttons. Below the toolbar, there are input fields for 'max. Hours/day' (set to 8.00), '1ste day-nr.' (set to 1), and a date selection field (set to 27.06.2016). A tabbed interface at the bottom includes 'Parts', 'Dates', 'UDA', 'Settings', and 'About'. The 'Parts' tab is active, displaying a table with columns: Order, ID, Name, Section, Class, Duration, Factor, day-nr, Calendar-day, and Rest. The table is currently empty. At the bottom of the window, there are several buttons for data processing: 'Get parts', 'Selected parts' (with a dropdown), 'Main parts assemblies and sec. parts with a valid Order-number-UDA' (with a dropdown), 'Write Activity-Time', 'Animate', 'Calculate day-nr's', 'Calculate days', 'Write day-nr's', 'Write Calendar-days', 'Calculate and write All', and 'Delete'.

Order	ID	Name	Section	Class	Duration	Factor	day-nr	Calendar-day	Rest
-------	----	------	---------	-------	----------	--------	--------	--------------	------



# ML018 – Part-UDA Into Drawing-list

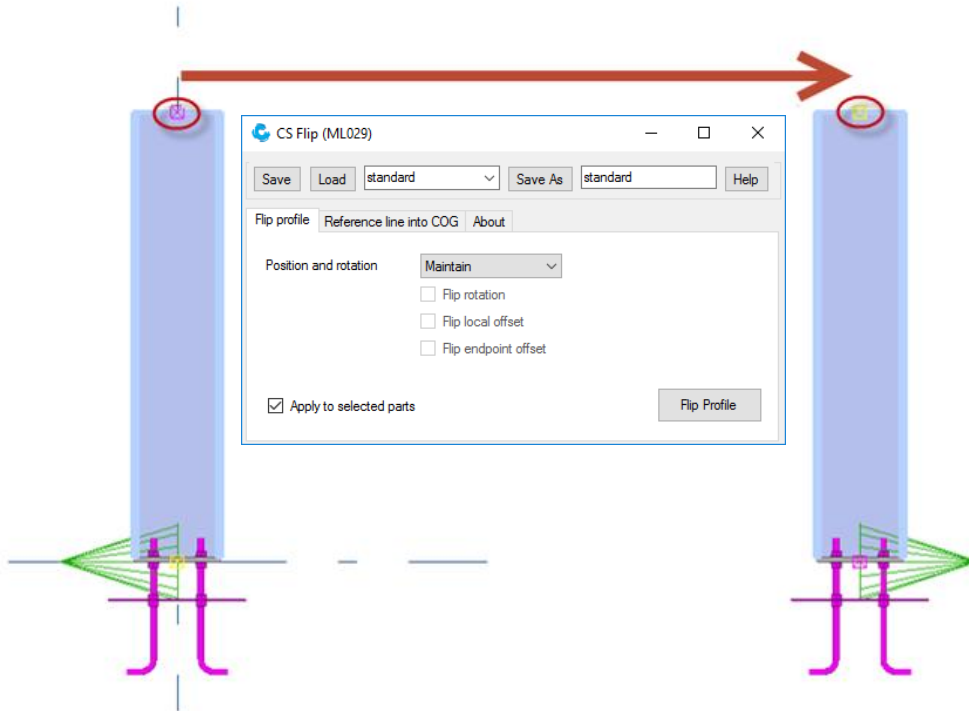
- Adds in an additional column in the drawings list the profile information or a user defined attribute.





# ML029 – Flip Tool

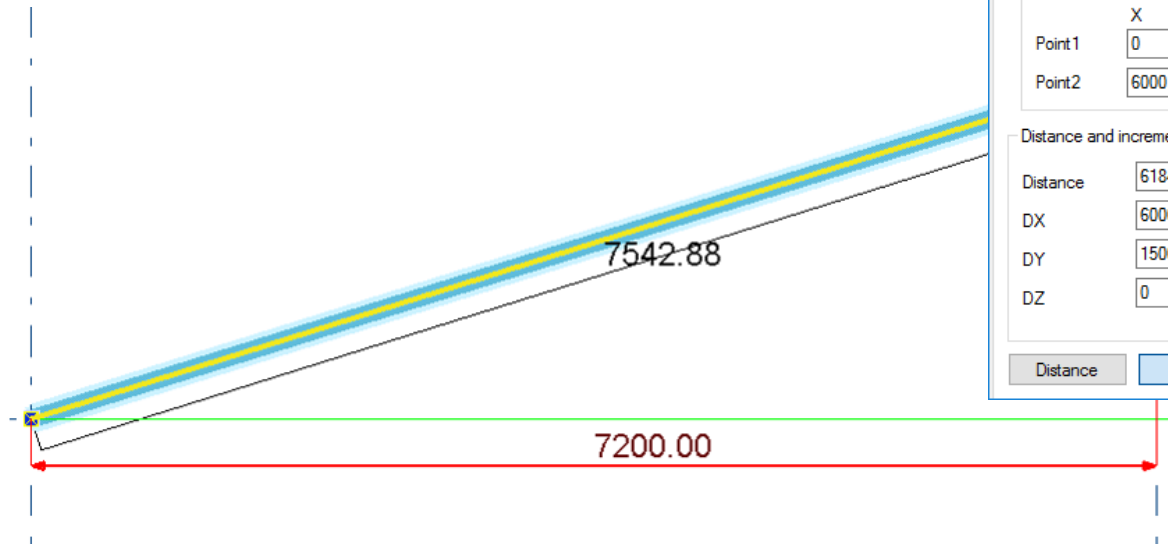
- Changed the system points of a profile.





# ML030 – Distance Tool

- Collects the X, Y and Z coordinates of a profile or distance which is determined by 2 points.



CS Distance (ML030)

General About

Selected points

	X	Y	Z
Point1	0	0	0
Point2	6000	1500	0

Distance and increments

Distance	6184.658
DX	6000
DY	1500
DZ	0

Angles

Angle in XY Plane	14,036
Angle Out Of XY Plane	0

Profile: IPE500

Distance Profile Close



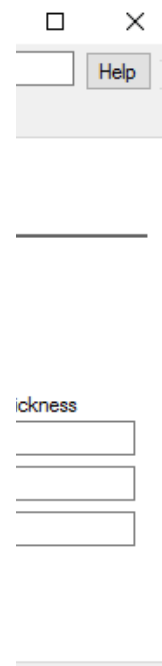
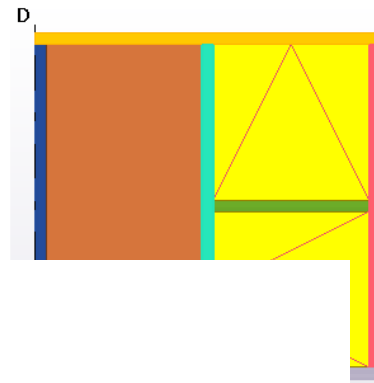
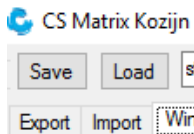


# ML033 – Matrix Exchange

## > Exports to Matrix software.

```
<?xml version="1.0" encoding="UTF-8"?>
- <FabWindowXML>
  - <Header>
    <Software>Tekla Structures</Software>
    <Creator>Construsoft</Creator>
    <Version>2013</Version>
    <LevelOfDevelopment>200</LevelOfDevelopment>
  - <Manufacturer>
    <ManufacturerName>default</ManufacturerName>
    <ManufacturerWebsite>default</ManufacturerWebsite>
  </Manufacturer>
  </Header>
  - <Project>
    <ClientNumber>default</ClientNumber>
    <ProjectNumber>project number</ProjectNumber>
    <ProjectName>Construsoft bv</ProjectName>
    <Level LevelName="V0" LevelElevation="0"/>
  - <Mark MarkName="W3(?)">
    - <MarkDefinition>
      - <Frame FrameName="default">
        - <FrameType FrameType="67x114" IsEdgeFrame="true" FrameDepth="114" FrameWidth="67" DepthOffset="0">
          - <FrameInstance>
            <ID>16848</ID>
            <StartPoint XStart="0" YStart="0" ZStart="0" ExtensionStart="0" IsCutStart="false"/>
            <EndPoint XEnd="2000" YEnd="0" ZEnd="0" ExtensionEnd="0" IsCutEnd="false"/>
          </FrameInstance>
          </FrameType>
          <FrameType FrameType="0x0" IsEdgeFrame="false" FrameDepth="0" FrameWidth="0" DepthOffset="0"/>
        </Frame>
        - <Panel PanelName="default">
          - <PanelType DepthOffset="47" PanelType="Window" IsEdgePanel="false">
            - <PanelInstance>
              <ID>15019</ID>
              <PanelPoint_1 X="67" Y="67" Z="0"/>
              <PanelPoint_2 X="966.5" Y="67" Z="0"/>
              <PanelPoint_3 X="966.5" Y="966.5" Z="0"/>
              <PanelPoint_4 X="67" Y="966.5" Z="0"/>
            - <ModelProperties>
              <PanelSwing PanelSwing_A="BI val"/>
            </ModelProperties>
          </PanelInstance>

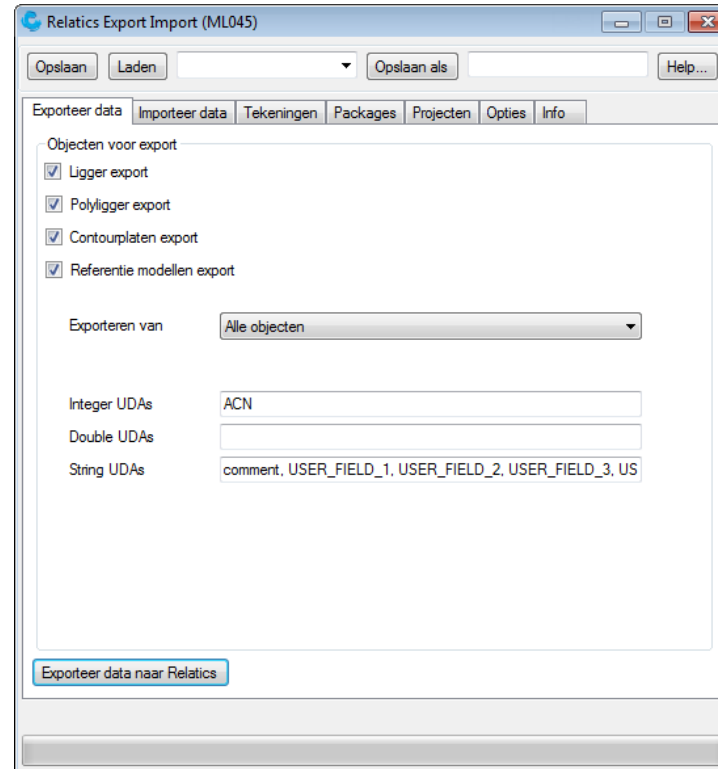
```





# ML045 – Relatics Export Import

- Export parts, assemblies (ID's, UDA's, Profiles, etc.) and drawings from Tekla to Relatics databases and vica versa.





## ML046 – Relatics UI

- Select the part in the Relatics database and it will be highlighted in Tekla.

The screenshot shows the 'Relatics WebUI (ML046)' window with three tabs: 'Relatics', 'Instellingen', and 'Info'. The 'Relatics' tab is active, displaying a 'Relatics server' section with the following fields:

- Adres:
- Login:
- Password:
- Relatics omgeving:
- Relatics workspace:

Below these fields are two buttons: 'Probeer te verbinden' and a checked checkbox 'Password opslaan'.

The 'Tekla selecteren' section contains three checked checkboxes:

- ☒ Selecteer object in Tekla
- ☒ Inzoomen op object
- ☒ Selecteer tekeningen





# ML052 – Codes in profiles

- Writes profile Section (shadow) into UDA's. Prefix is remembered and used later by comparing (new) parts.

Codes to profiles ML052

Save Load standard Save As standard Help

General UDA About

Export ☒ Selected parts ☒ standard

Apply on ☒ Timber

Reset coding scheme ☒ No

☐ Yes, re-issue all codes Total profiles: 0

☐ Yes, only reset non-matching Total non profiles: 0

Idle

Export Ok

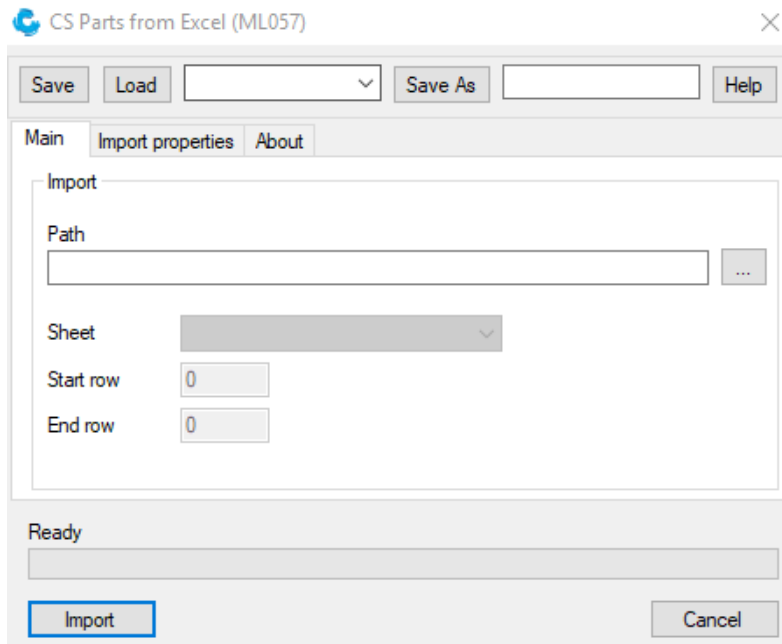
```
CODE_DIMENSIONS : 500*200
CODE_PREFIX : A
```





# ML057 – Parts From Excel

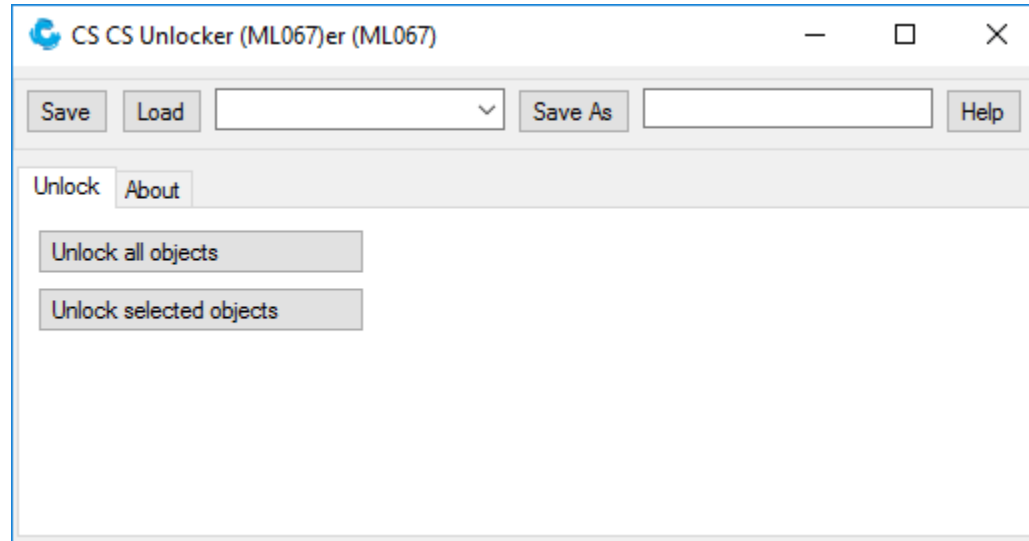
> Import parts from Excel to Tekla Structures.





# ML067 – CS Unlocker

- Unlock all or selected objects in the model. Including points, construction lines etc.





# ML076 – CS IFC RD Model Export

- > This tool export the IFC with different coordinates then the current workplane in Tekla.

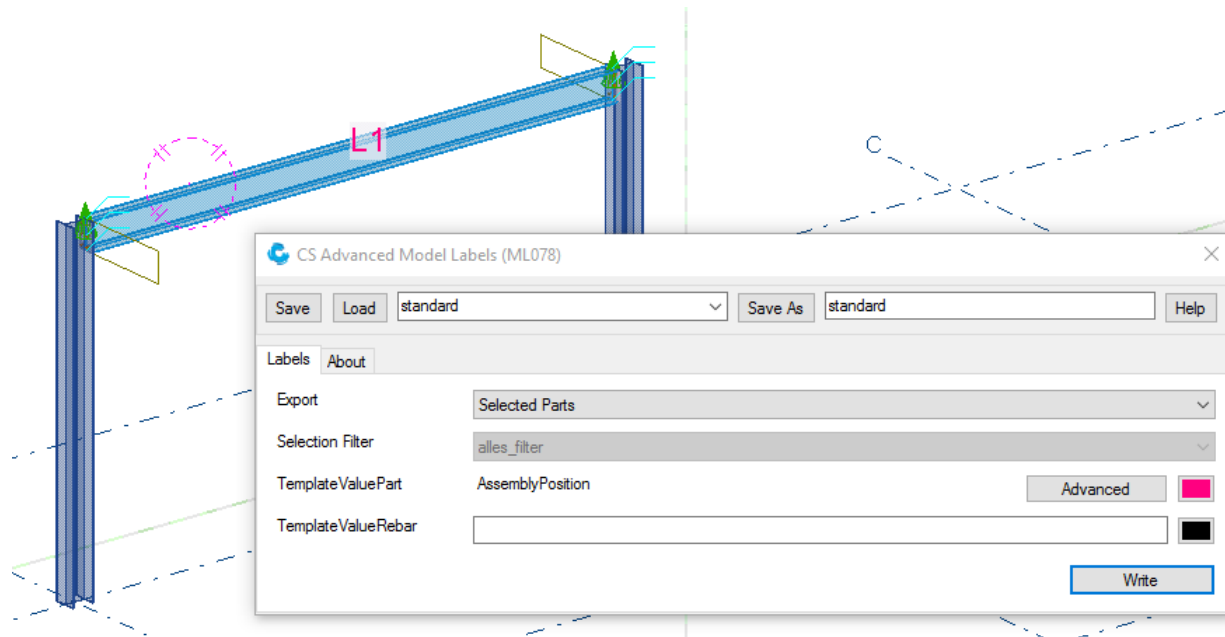
The screenshot shows a software dialog box titled "CS IFC RD Model Export (ML076)". At the top, there are buttons for "Save", "Load", a dropdown menu set to "standard", "Save As", another dropdown menu set to "standard", and a "Help" button. Below these is a tabbed interface with "IFC Export" selected and "About" as an alternative tab. Under the "IFC Export" tab, there is a checkbox labeled "Use Project RD Coords" which is currently unchecked. Below this checkbox are five input fields: "X Coordinates", "Y Coordinates", "Z Coordinates", "Angle" (containing the value "0"), "Attribute file" (a dropdown menu set to "staal"), "output file" (containing the path ".\IFC\out"), and "Export" (a dropdown menu set to "Selected Parts"). At the bottom of the dialog is a large "Export" button.





# ML078 – CS Advanced Model Labels

- This tool creates labels in the model made by different kind of selections.





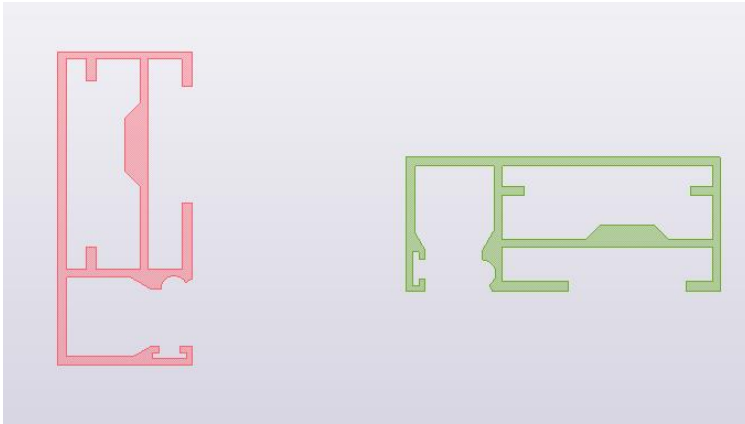
> This tool improve interoperability TEKLA and TCQ2000

	A	B	C	D	E	F	G	H	I	J	K
1	Level1	Level2	Level3	Level4	Level5	Level6	Level7	Level8	Level9	Description	Units
2	E									HEA profiles	mm
3		E1								HEA100	
4		E2								HEA120	
5		E3								HEA130	
6			E31							HEA300	
7			E32							HEA310	
8	H									Reinforcement	cm
9		H1								Mesh1	
10		H7								Mesh2	
11	K									Column profiles	m3



# ML087 – CS Rotate Coordinates Of Cross Section

- This tool can rotate fixed user-defined profile in profile catalog.

The screenshot shows a software dialog box titled "CS Rotate Coordinates Of Cross Section ML087". At the top, there are buttons for "Save", "Load", a dropdown menu, "Save As", and "Help". Below these are two tabs: "General" (selected) and "About". The "General" tab contains the following fields:

- "Name of cross section": A text input field with a "Select..." button to its right.
- "New name of cross section": A text input field.
- "New section type": A dropdown menu currently showing "No change".
- "Rotate over": A dropdown menu showing "0°".

At the bottom of the dialog, there are two buttons: "Rotate" on the left and "Close" on the right.



# ML088 – Profile Weight Checker

- > Easily export all or selected parts and calculate their weight.

Profile Weight Checker

Save Load Save As Help

General About

Export Selected Parts

Selection filter standard

Calculate weight with 0 kg/m3

Show difference greater than %

Profile	Weight calculated API	Weight profile catalog	Difference %
*			

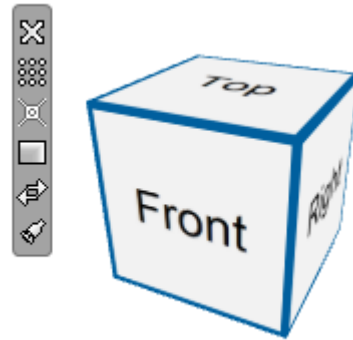
Calculate





## ML113 – Rotate view

- > A cube to easily rotate around a point or view.



# CS\_GoToAssist

- Starts GoToAssist within Tekla.



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# CS\_Modify\_Selected\_Connections

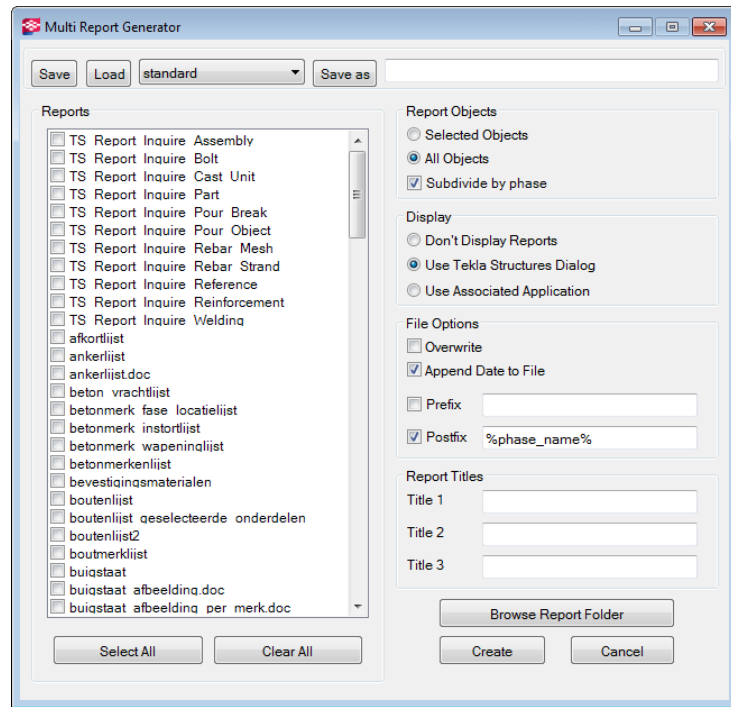
- > Select component and modify them by running this macro.





# CS\_Multi\_Report\_Generator M122

- > Create multiple reports by phase.
- > It is possible to write the phase name into the file name.



# CS\_ReOpen\_Model

- > Save the model and reopen it in 1 action.



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# CS\_Save\_Catalogs

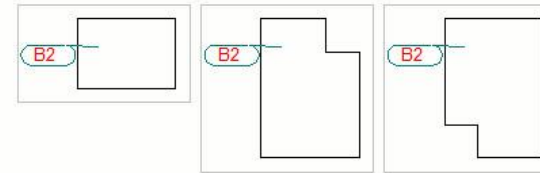
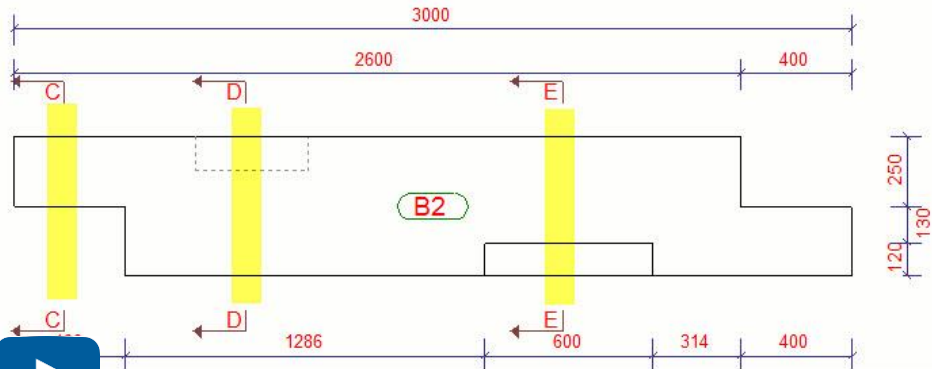
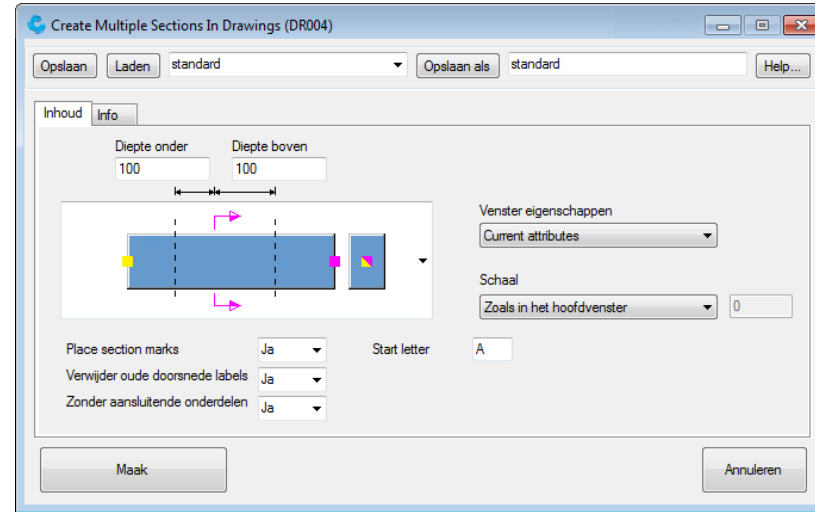
- > Saves the most imported databases to the model folder:
  - Profdb.bin
  - Assdb.bin
  - Screwdb.bin
  - Matdb.bin





# DR004 – Create Multiple Sections on Drawings

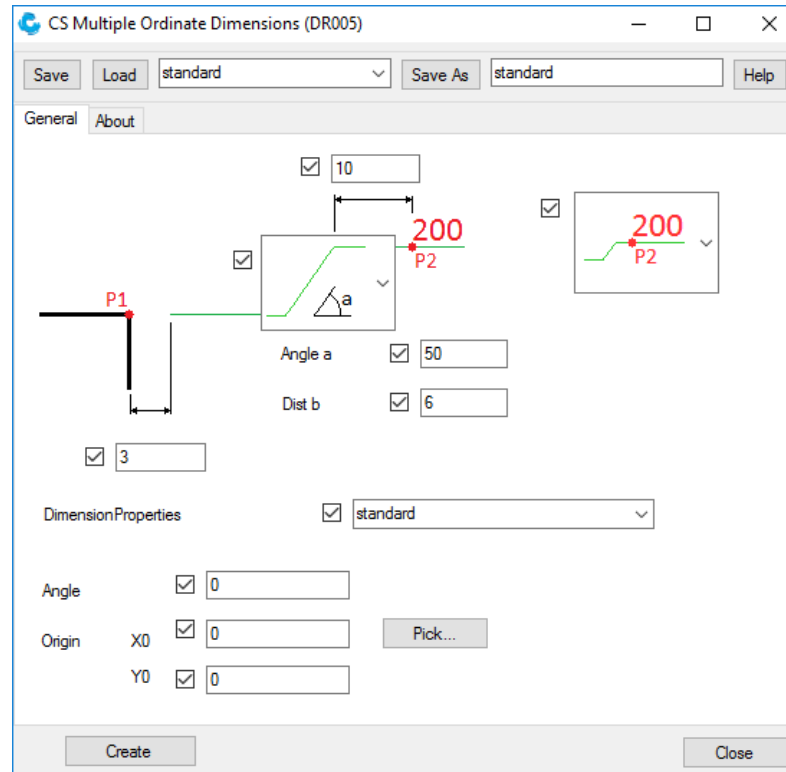
- Create section views on selected points.





# DR005 – Multiple Ordinate Dimensions

- > Create dimensions for objects from an alternative source.





# DR006 – Loads on Drawing

- The loads placed in the model are shown on drawing with this tool.

CS Loads On Drawings (DR006)

Save Load standard Save As standard Help

General Loadranges About

Add loads to only selecting views No

Add Load value No

Add LoadGroup name No

Text attribute standard

Point attribute File concrete Symbol 117 Color Width 4

Line attribute standard 100 Use loadranges No

Polygon attribute arcering Use loadranges No

Exclude loadgroups by filter No 3D

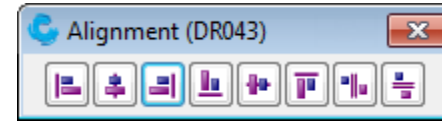
Create Close





## DR043 – Node Alignment

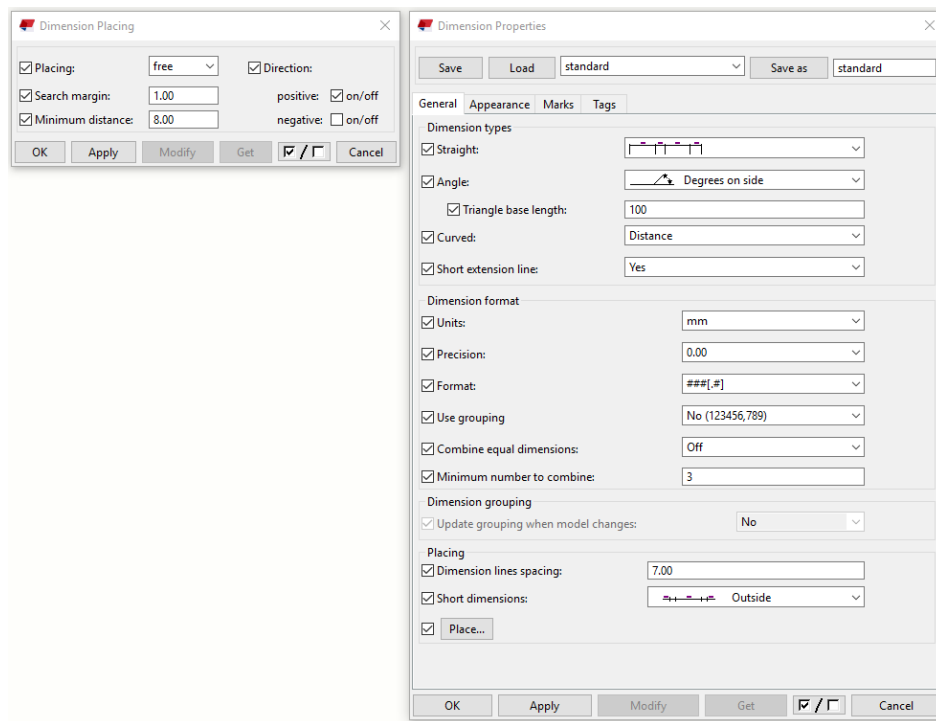
- > Aligns labels and tekst in the drawing. Select multiple labels, choose a option and then a point in the drawing.





## CS\_Dim\_Free

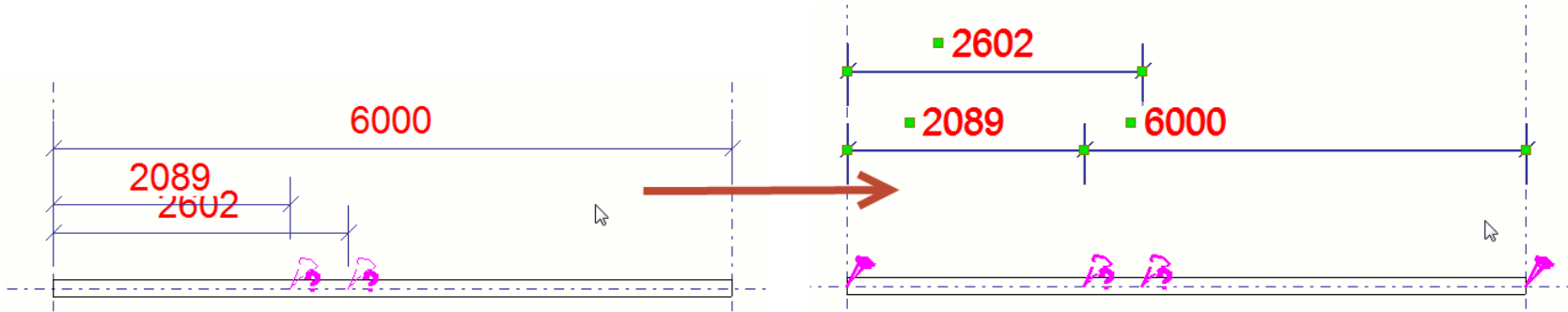
- Sets the place of the dimline on free.
- Select dim line(s) and execute the macro.





## CS\_Dim\_Free\_And\_Replace

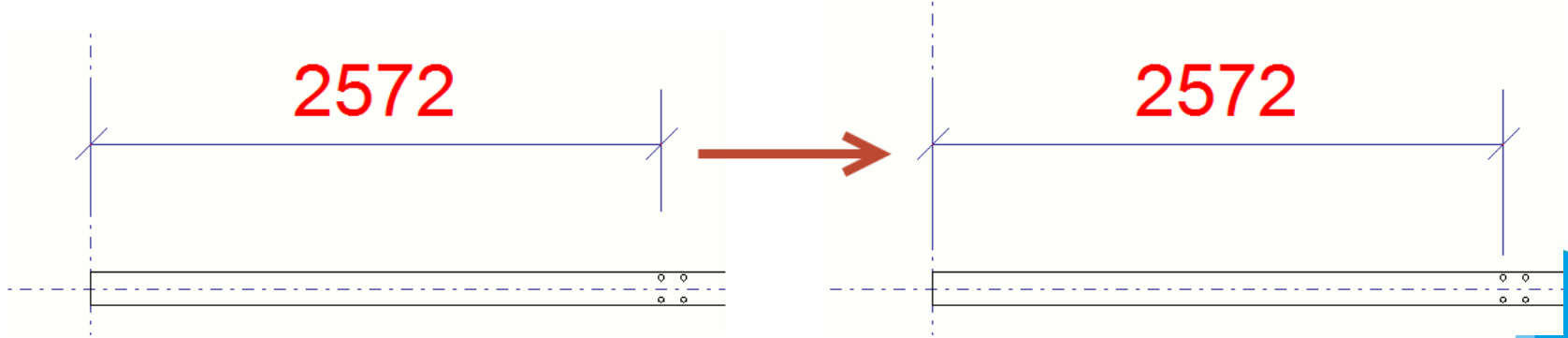
- > Sets the place of the dimline on free and replaces the dimline(s).
- > Select dim line(s) and execute the macro.





## CS\_Exaggerate\_Dimlines

- > Sets long extension lines for the selected dimline(s).

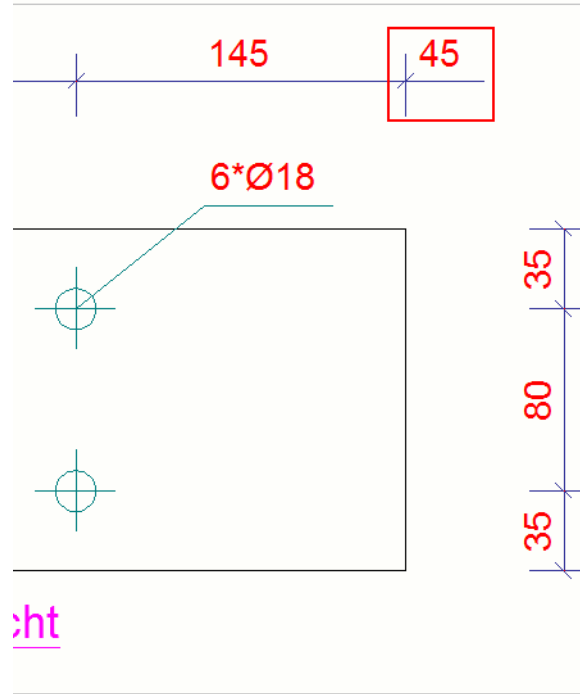






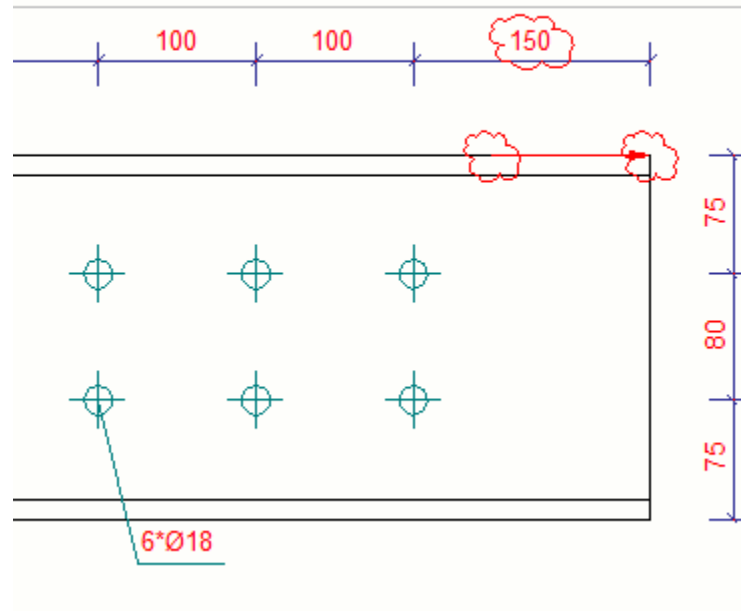
# CS\_Place\_Dim\_Tags

- > Places tags add the dimlines.



# CS\_Remove\_Change\_Clouds

- > Remove all types of change clouds at once.



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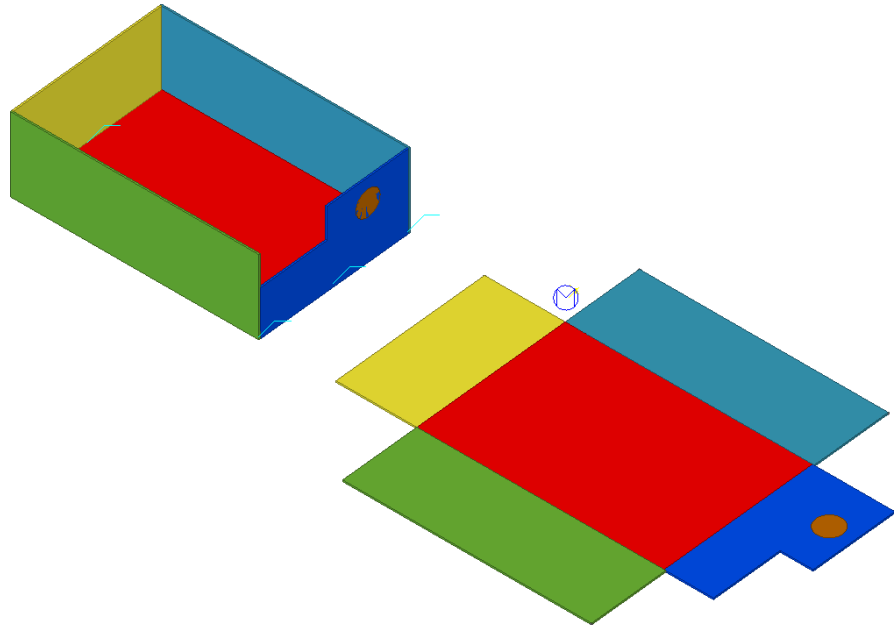
- 





## Unfolded Surface (m021)

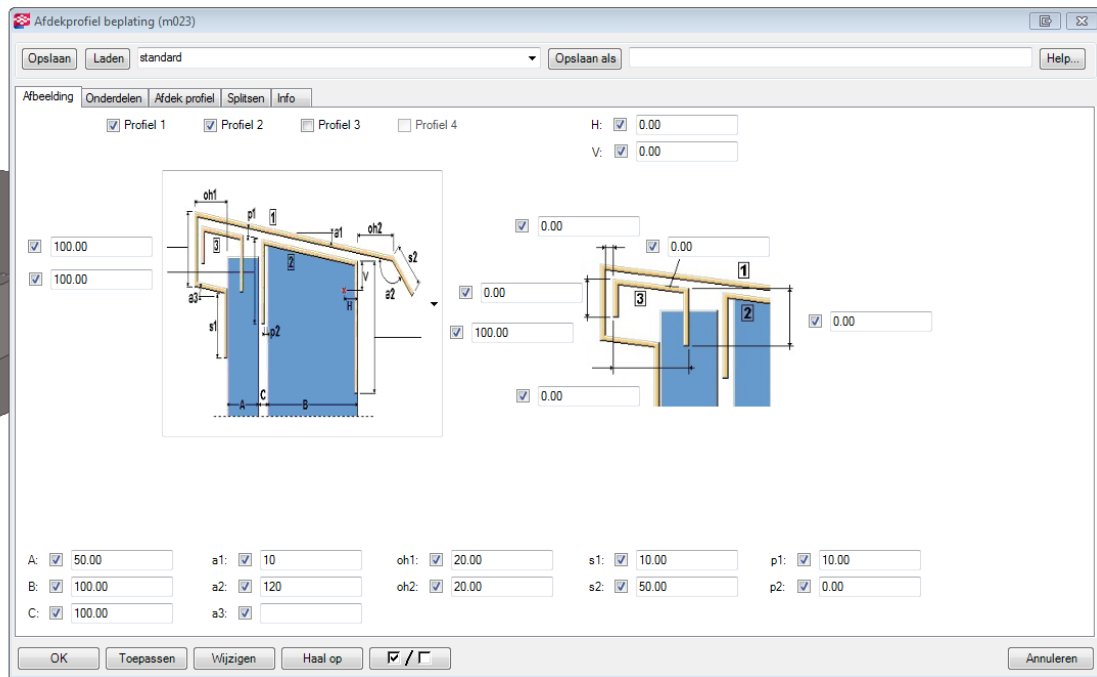
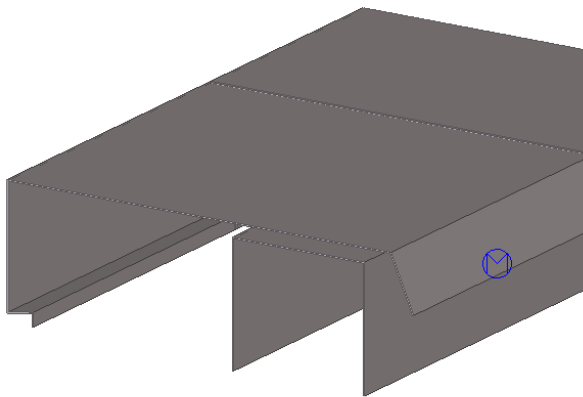
- > Fold surfaces in the model
- > Select a part, activate the plugin and then select a position in the model where the part has to be unfolded.





# Border cladding profiles (m023)

- Cover profile made of plates were a unfolded drawing can be made of.
- Placement by 2 points.





# Multi Report Generator (m122)

> Creates selected reports.

Multi Report Generator

Save Load standard Save as

Reports

- ☐ D ----- DRAWING LISTS
- ☐ Drawing List
- ☐ Drawing Revision History
- ☐ I ----- INTEROPERABILITY
- ☐ L ----- LOAD REPORTS
- ☐ M ----- MATERIAL REPORTS
- ☐ Material List by Size
- ☐ Material listExcel
- ☐ Mesh listExcel
- ☐ P ----- PART LISTS
- ☐ P Select Part Position with ID
- ☐ P Select Part with ID
- ☐ Part End Codes
- ☐ Pile List with Profile
- ☐ Q ----- QUALITY REVIEW
- ☐ Q Model History Report
- ☐ Q Part Ownership
- ☐ R ----- REBAR REPORTS
- ☐ Rebar - Group Bending List - Compact
- ☐ Rebar - Group Bending List - Extended
- ☐ Rebar - Single Bar Bending List
- ☐ Rebar Extra Fabrication Length
- ☐ Rebar Thread Length
- ☐ Rebar Schedule US
- ☐ Reinforcing bar listExcel
- ☐ S ----- SURFACING REPORTS
- ☐ Surfacing

Select All Clear All

Report Objects

- ☐ Selected Objects
- ☒ All Objects
- ☐ Subdivide by phase

Display

- ☐ Don't Display Reports
- ☒ Use Tekla Structures Dialog
- ☐ Use Associated Application

File Options

- ☐ Overwrite
- ☒ Append Date to File
- ☐ Prefix
- ☐ Postfix

Report Titles

Title 1

Title 2

Title 3

Browse Report Folder

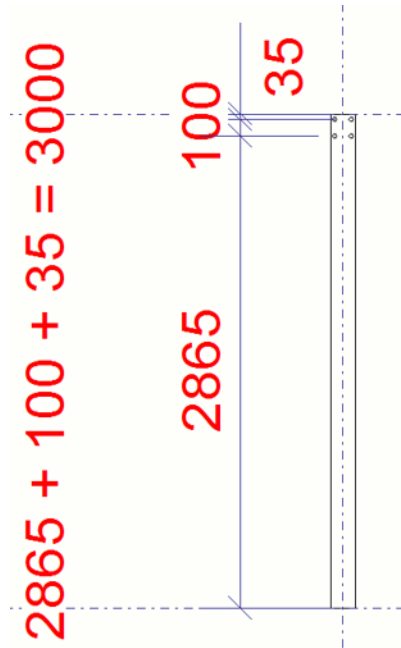
Create Cancel





# Profile dimension along axis (m046)

- Select profile and position for the dimension.



CS Profile dimensions along axis (m046)

Save Load **standard** Save As Help

Settings UDA About

Dimension line setting ☒ instortdeel Height ☒ 2

Text format ☒ [dropdown]

Dimension related to ☒ [dropdown]

Use holes with orientation ☒ [dropdown]

Combine equal dimensions ☒ [dropdown]

Unique hole dimensions ☒ [dropdown]

Total length ☒ [dropdown]

OK Apply Modify Get [checkbox] / [checkbox] Cancel





# Custom Properties

- > CUSTOM.CS\_ASSEMBLY\_PREFIX\_AND\_ACN "Gets textual sum of assembly prefix and ACN"
- > CUSTOM.B1P1 "Gets beams First top bevel angle at the parts begin"
- > CUSTOM.B1P2 "Gets beams First top bevel angle at the parts end"
- > CUSTOM.B1P3 "Gets beams Second top bevel angle at the parts begin"
- > CUSTOM.B1P4 "Gets beams Second top bevel angle at the parts end"
- > CUSTOM.B2P1 "Gets beams First bottom bevel angle at the parts begin"
- > CUSTOM.B2P2 "Gets beams First bottom bevel angle at the parts end"
- > CUSTOM.B2P3 "Gets beams Second bottom bevel angle at the parts begin"
- > CUSTOM.B2P4 "Gets beams Second bottom bevel angle at the parts end"
- > CUSTOM.BOTB1 "Gets beams start bottom left notch length"
- > CUSTOM.BOTB2 "Gets beams end bottom left notch length"
- > CUSTOM.BOTB3 "Gets beams start bottom right notch length"
- > CUSTOM.BOTB4 "Gets beams end bottom right notch length"
- > CUSTOM.BOTH1 "Gets beams start bottom left notch width"
- > CUSTOM.BOTH2 "Gets beams end bottom left notch width"
- > CUSTOM.BOTH3 "Gets beams start bottom right notch width"
- > CUSTOM.BOTH4 "Gets beams end bottom right notch width"







# Custom Properties

- > CUSTOM.CS\_BRICK\_TYPE "Gets brick type based on length and CS\_BrickTypes.txt which should be placed at Environments\common\system\  
> CUSTOM.CPORIENTATION "Gets contour plate orientation"
- > CUSTOM.CS\_ASSEMBLY\_PREFIX\_AND\_ACN "Gets textual sum of assembly prefix and ACN"
- > CUSTOM.CS\_LEVEL "Gets sum of ASSEMBLY.BOTTOM\_LEVEL\_GLOBAL\_UNFORMATTED and PROJECT.USERDEFINED.LEVEL\_TAKEN\_AT"
- > CUSTOM.CUTBACK "Gets the cutback value from the boolean made by custom component CUTBACK"
- > CUSTOM.CUTBACKSIDE "Gets the cutback side from the boolean made by custom component CUTBACK"
- > CUSTOM.ISCUSTOMBRICK "Determine whenever brick is standard size or not"
- > CUSTOM.IP\_ANGLE "Gets the in-plane angle of the system line in degrees"
- > CUSTOM.IP\_ANGLE\_RAD "Gets the in-plane angle of the system line in radians"
- > CUSTOM.OOP\_ANGLE "Gets the out-of-plane angle of the system line in degrees"
- > CUSTOM.OOP\_ANGLE\_RAD "Gets the out-of-plane angle of the system line in radians"
- > CUSTOM.PART\_COG\_X\_IN\_ASSEMBLY "X-coordinate of cog with respect to assembly coordinate system"
- > CUSTOM.PART\_COG\_Y\_IN\_ASSEMBLY "Y-coordinate of cog with respect to assembly coordinate system"
- > CUSTOM.PART\_COG\_Z\_IN\_ASSEMBLY "Z-coordinate of cog with respect to assembly coordinate system"
- > CUSTOM.PART\_GROSS\_COG\_X\_IN\_ASSEMBLY "X-coordinate of gross cog with respect to assembly coordinate system"





# Custom Properties

- > CUSTOM.PART\_GROSS\_COG\_Y\_IN\_ASSEMBLY "Y-coordinate of gross cog with respect to assembly coordinate system"
- > CUSTOM.PART\_GROSS\_COG\_Z\_IN\_ASSEMBLY "Z-coordinate of gross cog with respect to assembly coordinate system"
- > CUSTOM.PART\_HAS\_HOLES "Determine whenever beam has drills or bolts"
- > CUSTOM.PART\_IS\_CONVEX "Determine whenever beam has convex cuts"
- > CUSTOM.PART\_IS\_PROFILED "Determine whenever beam has been profiled"
- > CUSTOM.PART\_ROTATION\_CW\_IN\_ASSEMBLY "Clock wise rotation of part with respect to assembly coordinate system"
- > CUSTOM.PART\_ROTATION\_IN\_ASSEMBLY "Rotation of part with respect to assembly coordinate system"
- > CUSTOM.S1P1 "Gets beams First top saw angle at the parts begin"
- > CUSTOM.S1P2 "Gets beams First top saw angle at the parts end"
- > CUSTOM.S1P3 "Gets beams Second top saw angle at the parts begin"
- > CUSTOM.S1P4 "Gets beams Second top saw angle at the parts end"
- > CUSTOM.S2P1 "Gets beams First bottom saw angle at the parts begin"
- > CUSTOM.S2P2 "Gets beams First bottom saw angle at the parts end"
- > CUSTOM.S2P3 "Gets beams Second bottom saw angle at the parts begin"





# Custom Properties

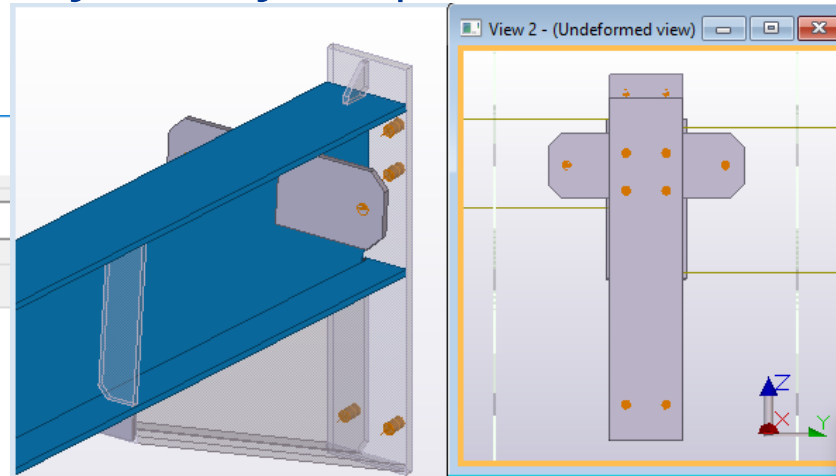
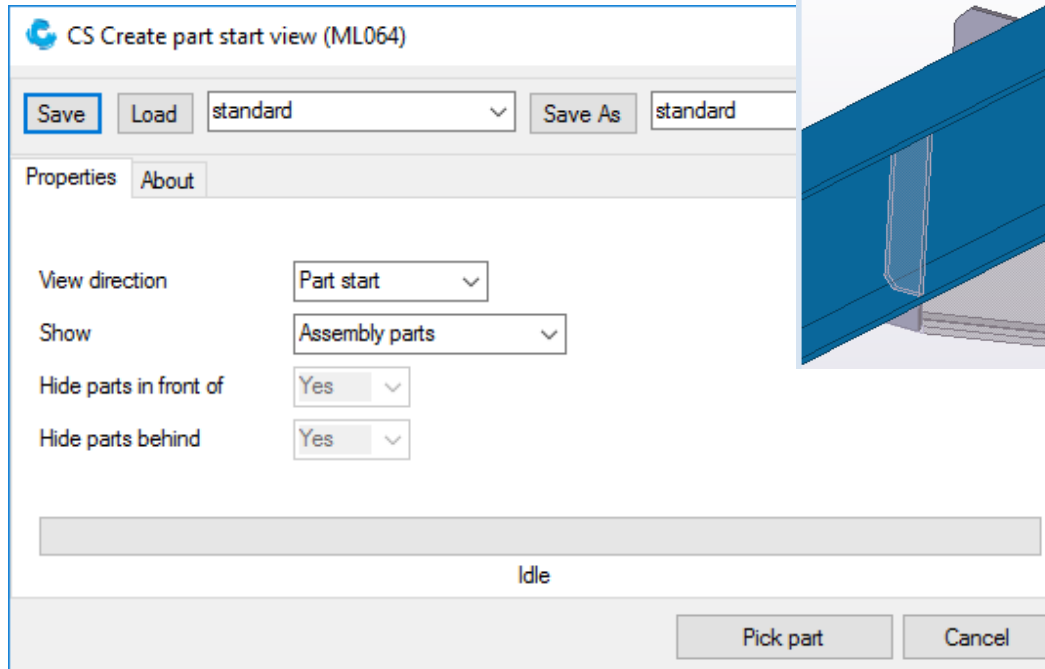
- > CUSTOM.S2P4 "Gets beams Second bottom saw angle at the parts end"
- > CUSTOM.TOPB1 "Gets beams start top left notch length"
- > CUSTOM.TOPB2 "Gets beams end top left notch length"
- > CUSTOM.TOPB3 "Gets beams start top right notch length"
- > CUSTOM.TOPB4 "Gets beams end top right notch length"
- > CUSTOM.TOPH1 "Gets beams start top left notch width"
- > CUSTOM.TOPH2 "Gets beams end top left notch width"
- > CUSTOM.TOPH3 "Gets beams start top right notch width"
- > CUSTOM.TOPH4 "Gets beams end top right notch width"
- > CUSTOM.YL1 "Gets beams start left cut width"
- > CUSTOM.YL2 "Gets beams end left cut width"
- > CUSTOM.YL3 "Gets beams start right cut width"
- > PART = CUSTOM.YL4 "Gets beams end right cut width"





## ML064 – Create Part Start view

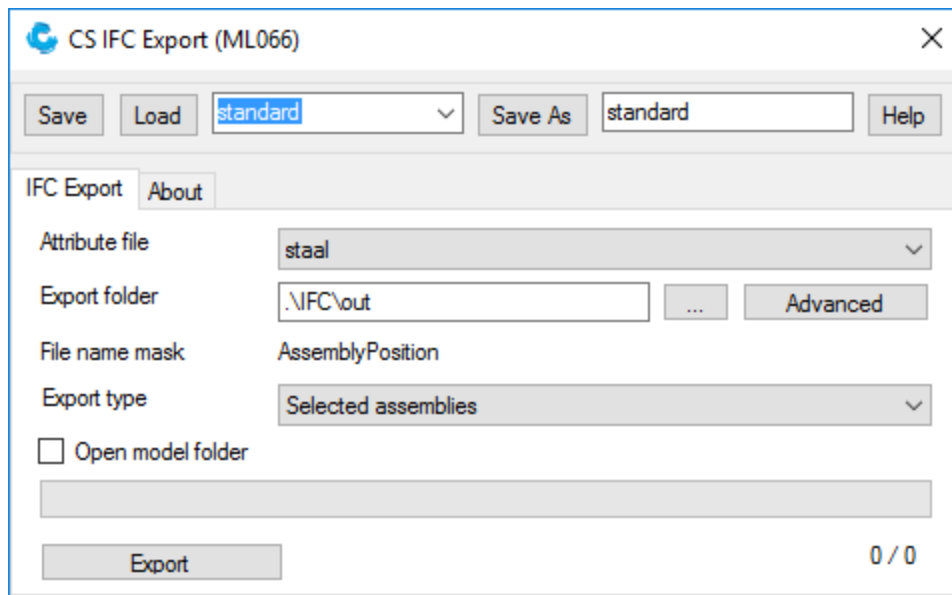
- Create model views from part start or end. Extra options for showing the whole assembly or only the part.





## ML066 – CS IFC Export

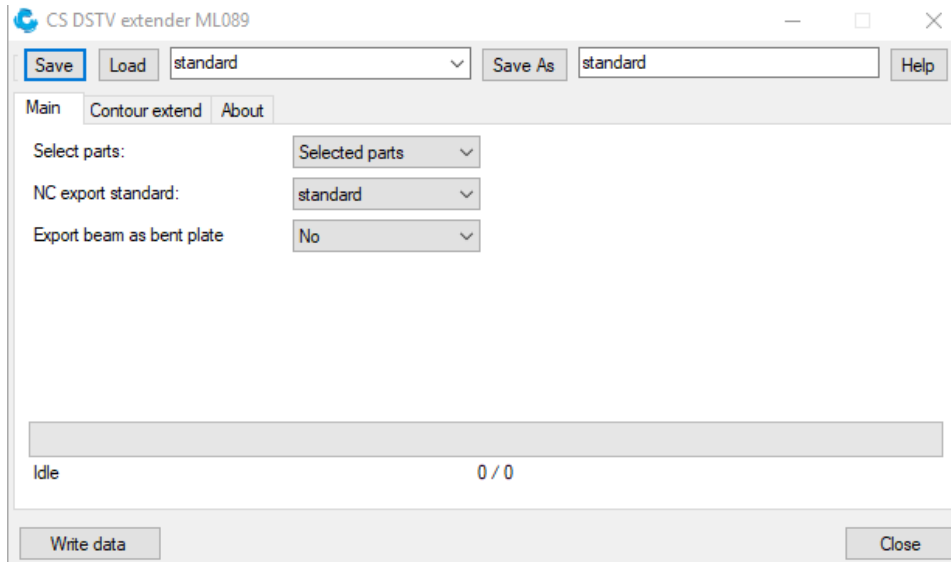
- > Select the assemblies in the model. An IFC file is created for every assembly or part that is selected. The IFC can be used for import to welding robots.





# ML089 – DSTV Extender

> DSTV Extender plugin – NC Export.





# ML112 – Reporting

- > Create reporting of parts with cover page
- > You can also create drawings to parts
- > Export to PDF



CS Reporting (ML112  
TS2017)





# CS\_Fill\_IFC\_ExportProps\_With\_Organiser\_Values

- IFC will be filled from the organiser.

The screenshot displays the Tekla Structures x64 Ligger (1) interface. The 'IFC export' tab is active, showing the following settings:

- IFC entiteit: ☒ IfcBeam
- IFC export type: ☒ Auto
- IFC naam gebouw: ☒ Building
- IFC naam verdieping van gebouw:
- IFC Classification Reference Code: ☒

A red arrow points from the 'Building' checkbox in the IFC export settings to the 'Building (7/7)' entry in the 'Categorieën' (Categories) list of the 'Organiser' window.

The 'Organiser' window shows the 'Objectbrowser' tab with the following table:

Naam	Type	Materiaal	Merk	Pos	Kwaliteit	Profiel	Nivo BK / mm	Hoogte / mm	Lengte / mm	Breedte / mm	Volume / m3	Ge
LIGGER	PART	STEEL	L2	L2	S235JR	IPE300	0	300	6 000	150	0,0	

Below the table, it indicates 'Aantal objecten in de tabel: 1' and 'Resultaat van: Totaal'.





# Set coord system for plate (m115)

- Set coordination system for plates.





## Drawing mesh frame (m121)

- Creates a frame around rebars mesh by picking it.

The image shows a software dialog box titled "CS Drawing mesh frame m121". At the top, there is a dropdown menu and two buttons labeled "Save" and "Help". Below this, there are two tabs: "General" (which is active) and "About". In the "General" tab, under the "Line style" section, there are two checkboxes, both of which are checked. The first checkbox is followed by a dropdown menu, and the second checkbox is followed by a dashed-line icon and another dropdown menu. At the bottom of the dialog, there are five buttons: "OK", "Apply", "Modify", "Get", and "Cancel". Between the "Get" and "Cancel" buttons is a small icon consisting of a checkmark and a square.



# ML002 – Design Group Numbering

- > Number functionality for customers with engineering module.
- > Compares profile, length and number of UDA's

Construsoft - Design Group Numbering (ML002 TS 21.0)

Save Load standard Save as standard

Numbering settings

Group filter	Prefix	Start number	Compare Length
funderingspaal_filter	P	1	YES

Add group  
Delete group  
Move up  
Move down

Length tolerance:   
Number separator:   
Number with letters: ☒ No ☐ Yes  
Compare UDA: ☒ No ☐ Yes  
Renumber all: ☐ No ☒ Yes

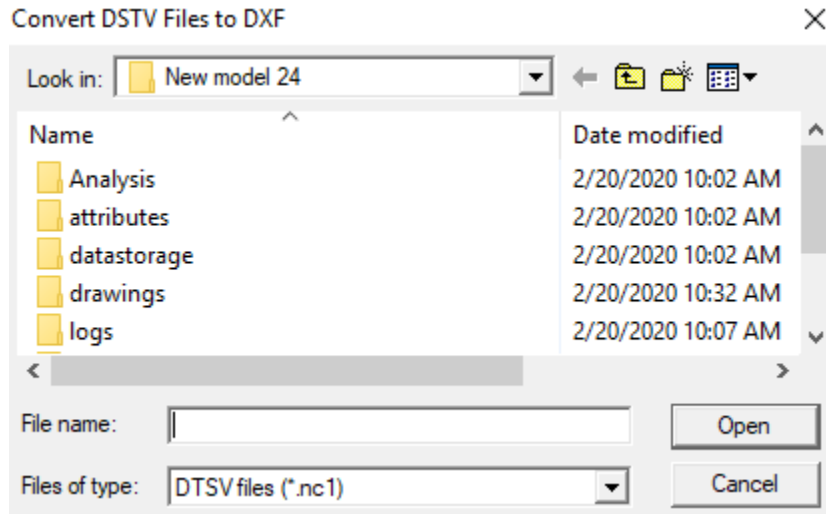
Assign numbers Create report Cancel





# ML061 – DSTV Convertor

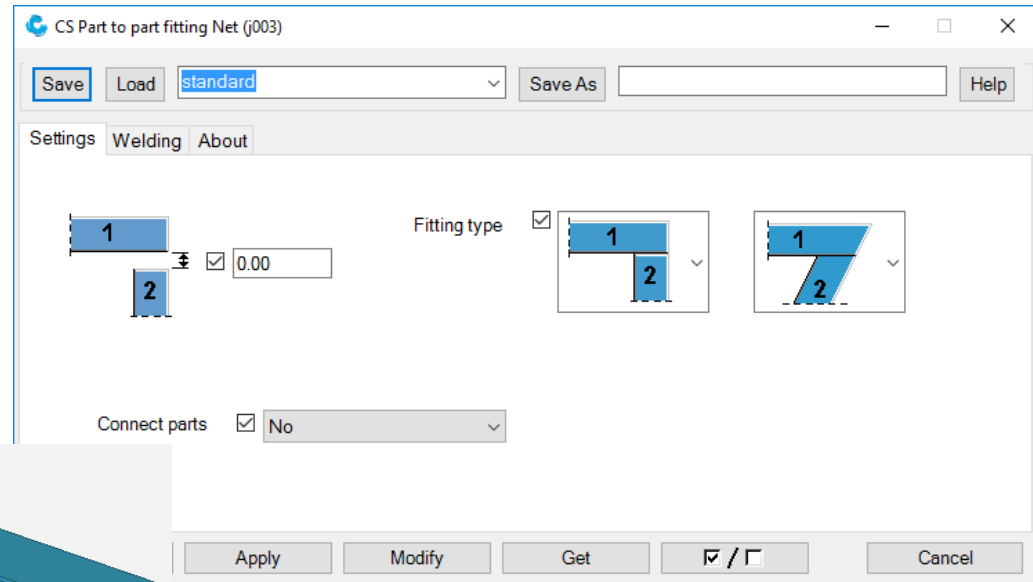
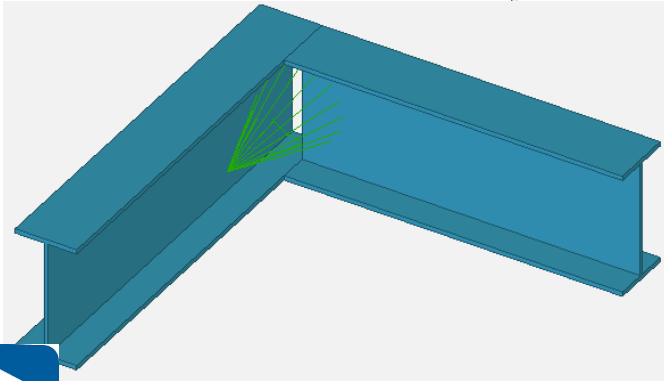
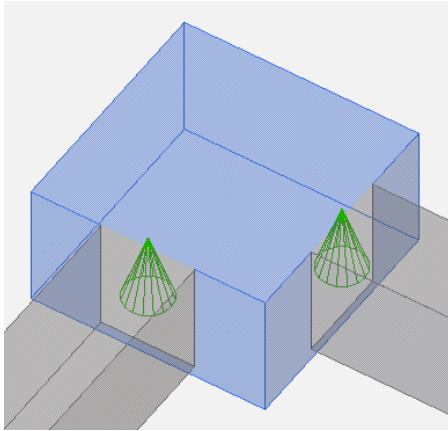
- Convert DSTV files to DXF as seen in picture.





# Part to part fitting (j003)

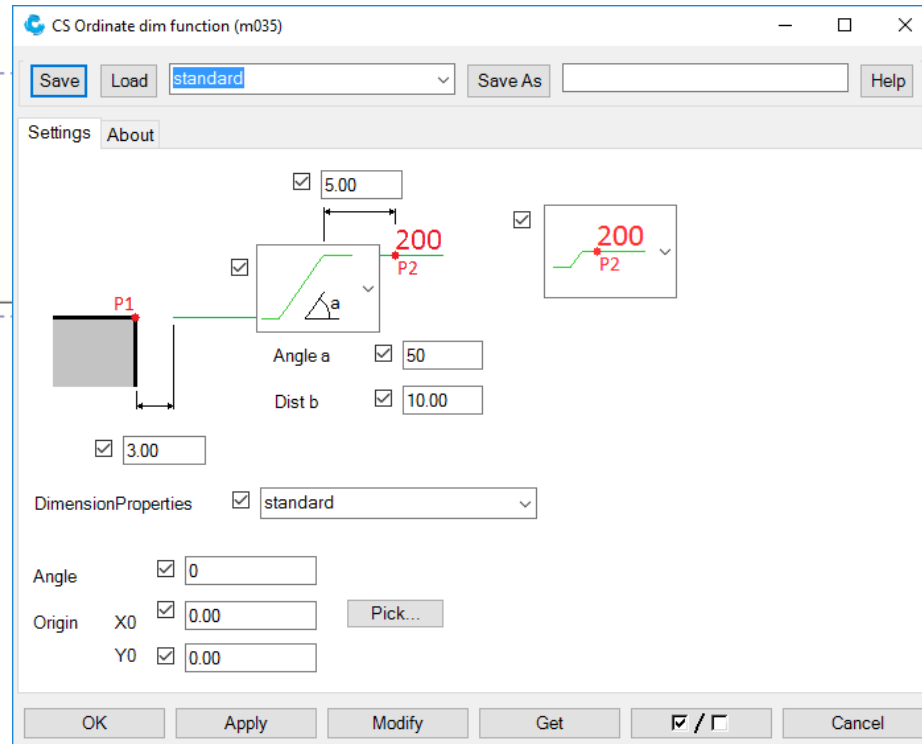
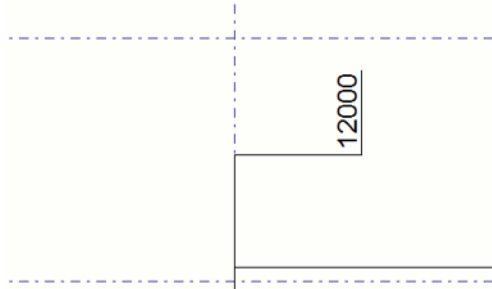
- Fit parts in various ways, can be changed afterwards.





# Ordinate dim function (m035)

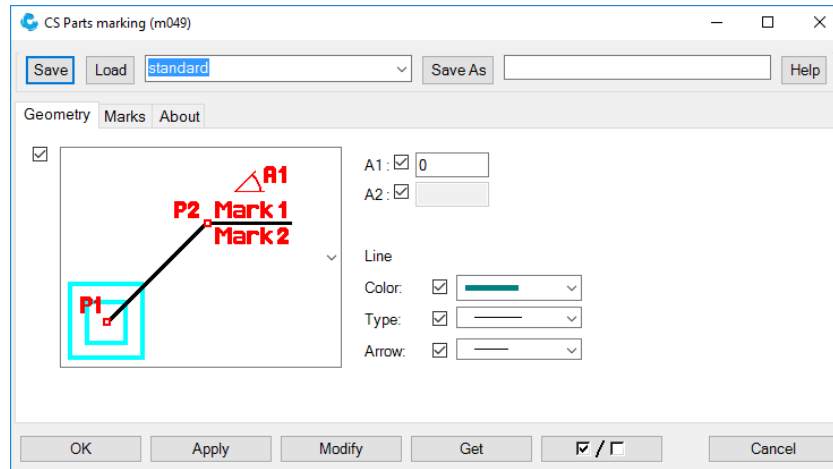
- Create dimensions for objects from an alternative source. Is used in macro CS Multiple Ordinate Dimensions (DR005).





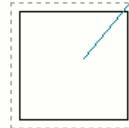
# Combined Part Marks (m049)

- > Add in Topviews a single mark with double information about part above floor and below floor.



COLUMN 300\*300

COLUMN 350\*350





# Create line rectangle (m111)

➤ Creates a line or rectangle as a mark.

albl\_CS\_Create\_line\_rectangle\_Net\_m111

Save Load [dropdown] Save As [dropdown] Help

Settings About

albl\_Drawing\_object albl\_Object\_properties

☒ Line ☒ [dropdown]

Color Line type

☒ [color bar] ☒ [line style]

OK Apply Modify Get ☒ / ☐ Cancel

