



Autodesk®-Tutorial: Exporting STEP-files into the STL-format



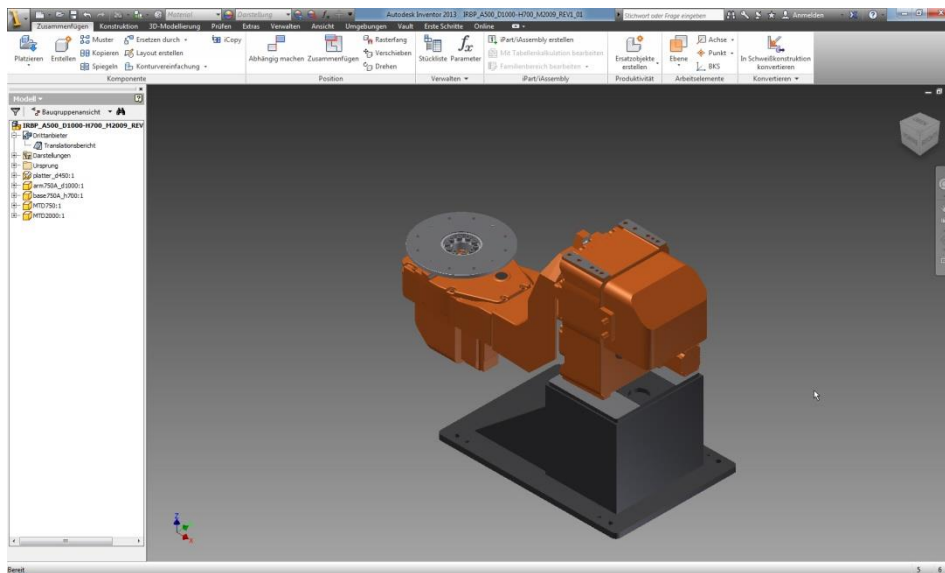
November 2019

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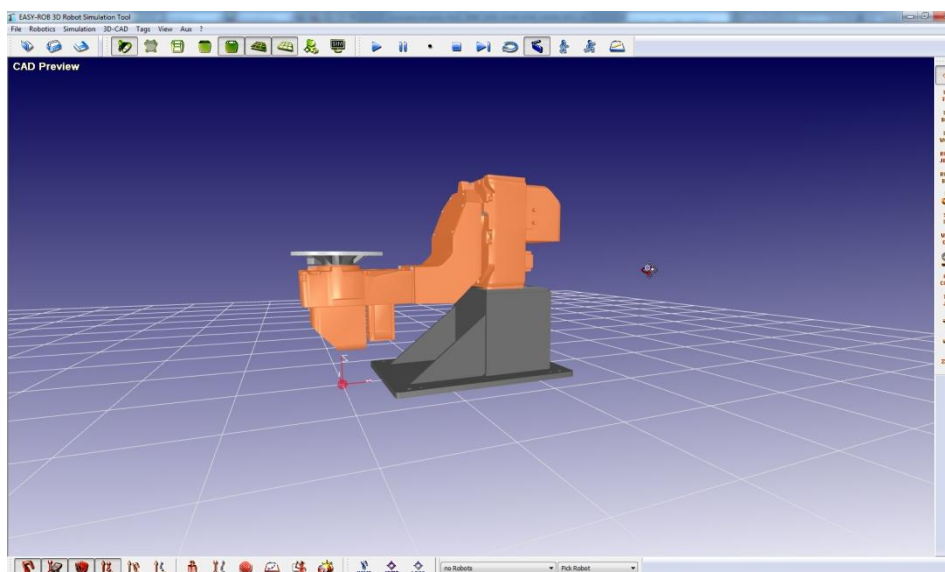
EASY-ROB™ supports CAD-geometries of different formats. In addition to the native IGP-files (*.igp), neutral formats such as STL- (*.stl) and 3DS-files (*.3ds) can be opened directly.

Further neutral formats, as VRML II; 97- (*.wrl) and STEP-files (*.stp) can be used also, by converting them into the IGP-format at the loading-process.

The following example shows you step by step how to convert a STEP-file (*.stp) into a STL-file, using the software Autodesk® Inventor 2013. This converted STL-file can be opened directly in EASY-ROB™ and requires no more previous conversion.



Opened STEP-file in Autodesk® Inventor 2013



Converted STL-file, opened in EASY-ROB™



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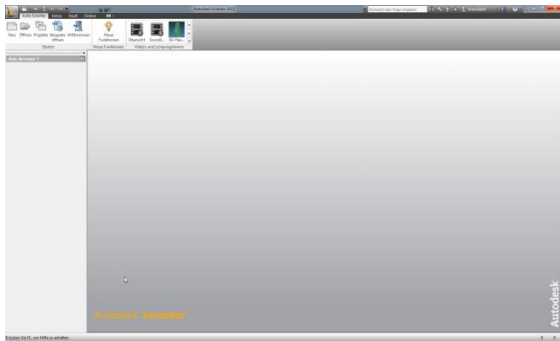


Description:

1. Open Autodesk® Inventor 2013.
2. Load a STEP-file (*.stp) by using *Autodesk®-Menü > Öffnen > Öffnen*.
3. Click on *Autodesk®-Menü > Exportieren > CAD-Format*.
4. Rename the file you want to export (e.g. „Drehtisch.stl“).
5. Click on the button „Optionen“ to make some settings before conversion.
 - a) Select „*Eine Datei*“ in the section “Struktur”, to save the geometry which should be converted into **one STL-file**. Click on „OK“.
 - b) **Or:** Select „*Eine Datei pro Bauteilinstanz*“, to create a STL-file per geometry and then click on „OK“.
6. Click on „Speichern“ to start the conversion
7. Open the converted STL-file in EASY-ROB™.
8. Accept the default scaling parameters and click "OK".
9. The Export of the STEP-file into the STL-format has been successfully completed.

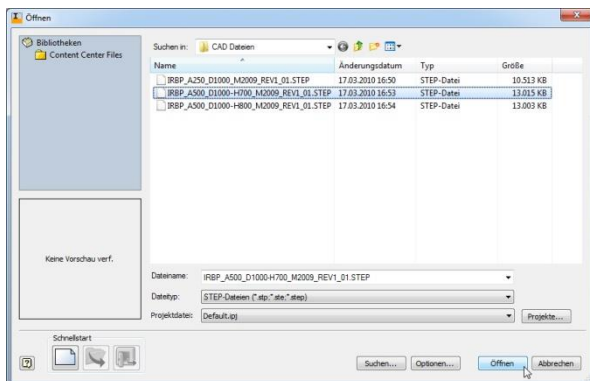
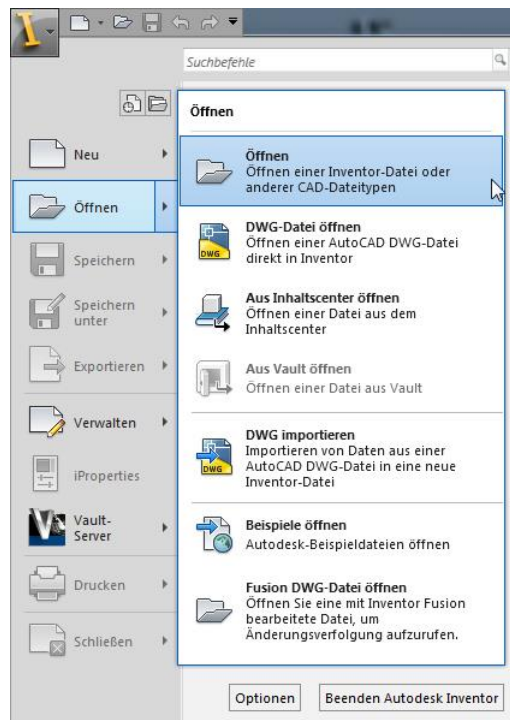


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1. Start screen of the software Autodesk® Inventor 2013

2. Open a CAD-file you want to convert by clicking on *Autodesk® Menü > Öffnen > Öffnen*.



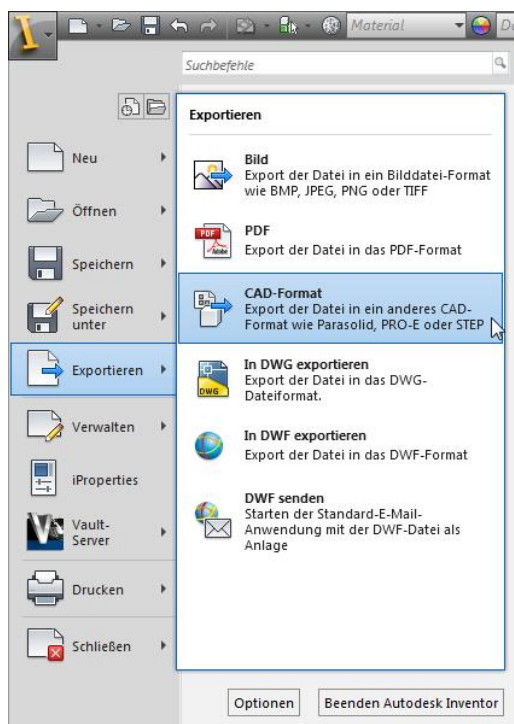
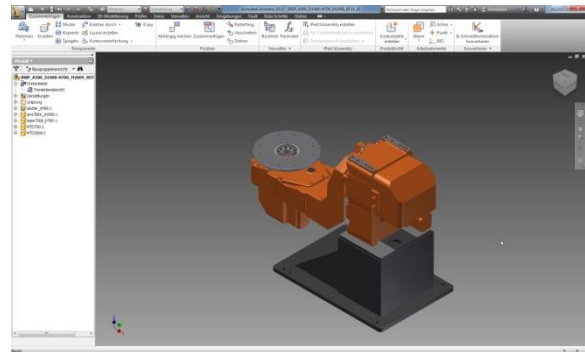
3. Select a geometry you want to open.



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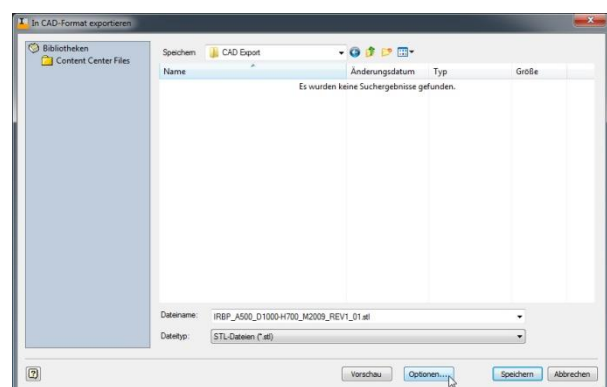


4. The geometry is opened in Autodesk® Inventor 2013.



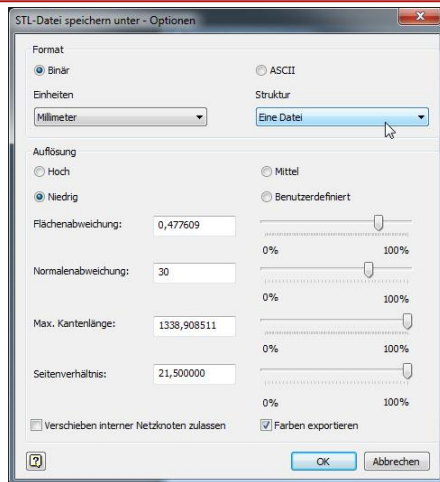
5. Click on *Autodesk® Menü > Exportieren > CAD-Format*

6. Rename the exported geometry and then click on "Options."





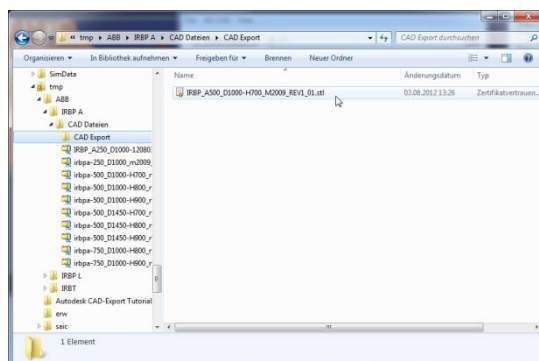
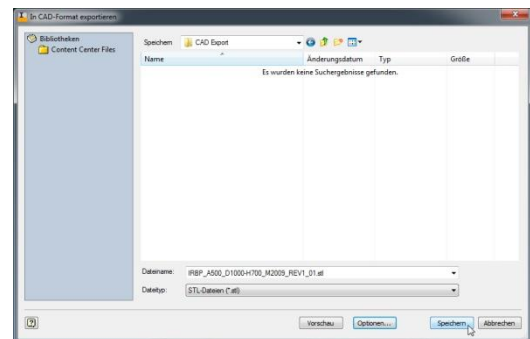
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7. Under „Struktur“ either chose „Eine Datei“ or „Eine Datei pro Bauteilinstanz“ and then click on „OK“.

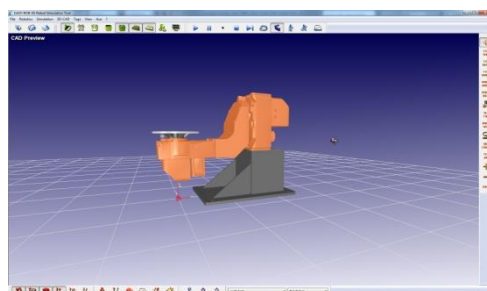
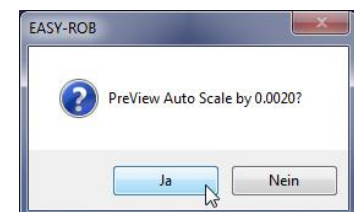
Note: The following guide refers to the structure selection "Eine Datei".

8. Click on „Speichern“ to start the conversion.



9. A STL-file (*.stl) has been created. Open EASY-ROB™ and load the converted file.

10. Accept the proposed scaling parameters with a click on "OK".



11. The result in EASY-ROB™