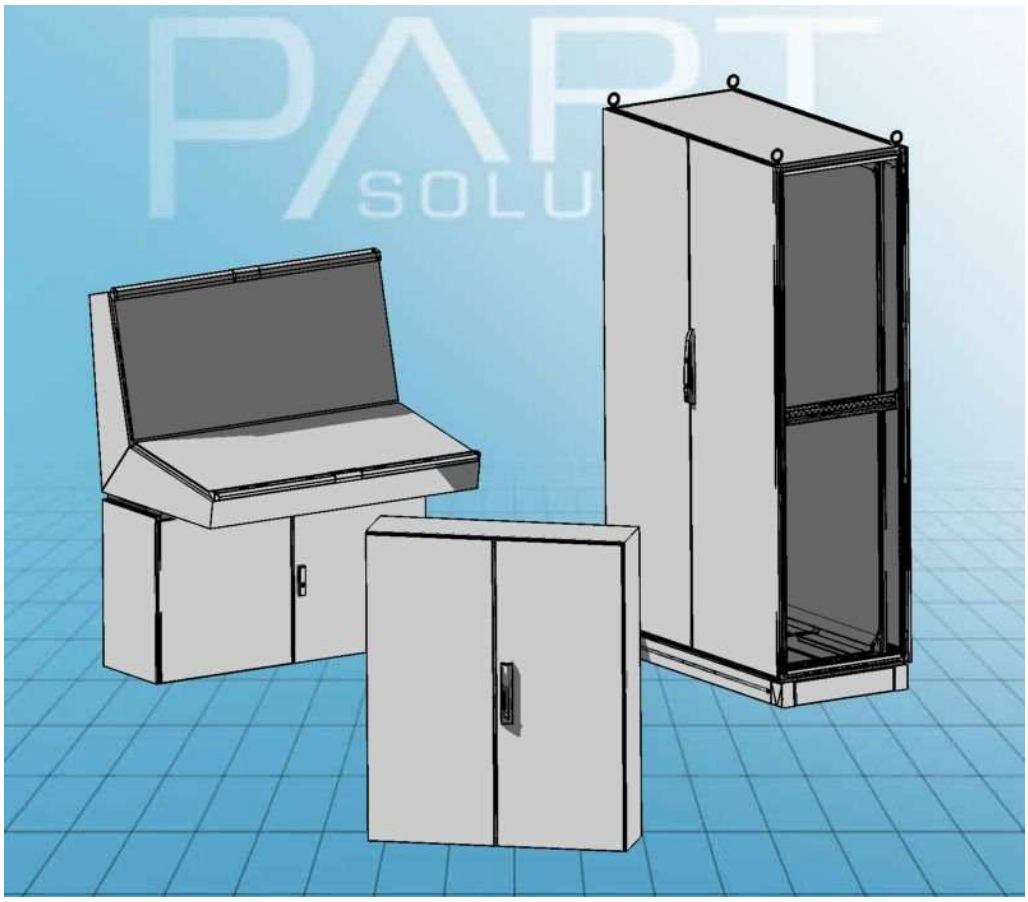
Operating manual

for

Rittal RiCAD 3D



FRIEDHELM LOH GROUP

RiCAD 3D Operating Manual

Following is a quick start guide to using RiCAD 3D and exporting CAD data.

1. Starting the tool:

When the CD is inserted, the window pictured in Fig. 1 appears automatically. If the application does not start automatically upon insertion of the CD, please double-click the “cdstart.exe” file in the “Software” directory on the CD.

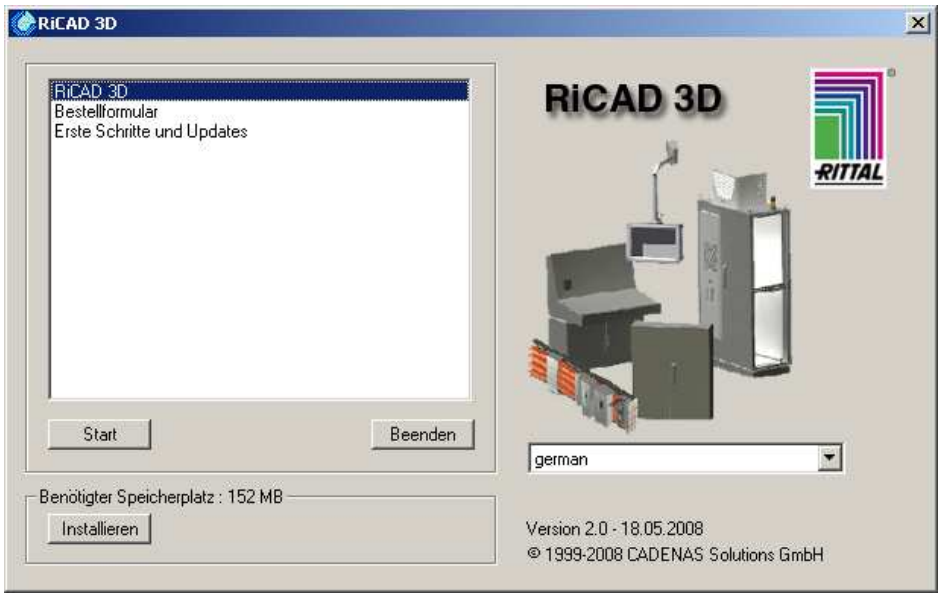


Fig. 1: Starting screen upon insertion of the CD, or after opening the cdstart.exe file

To access the tool, first select your preferred language on the right-hand side (see Fig. 2: yellow circle), then click Start (see Fig. 2: green circle).

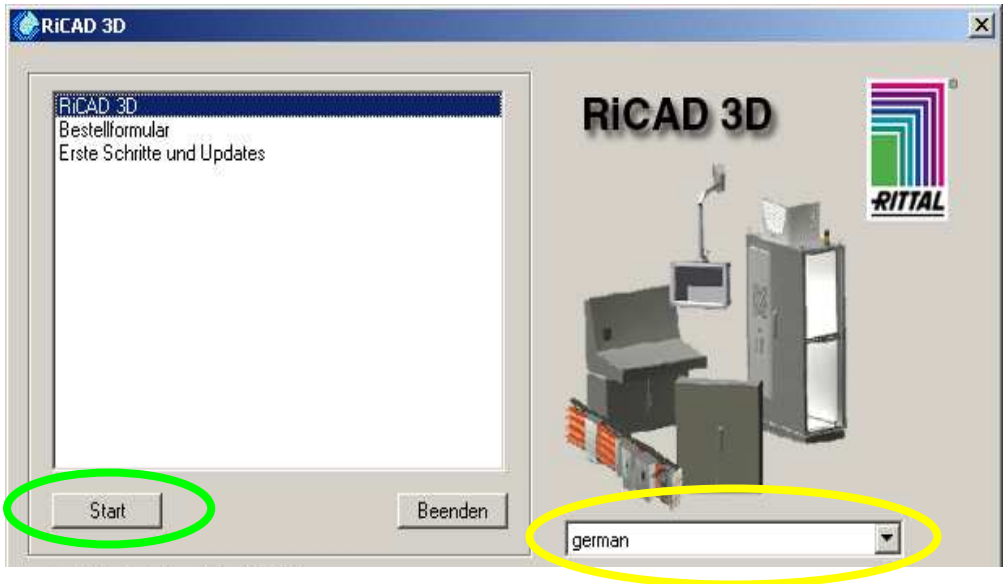


Fig. 2: Language version selection (yellow) and RiCAD 3D Start (green)

2. Selecting a Rittal product:

When the tool is started, the following window appears (see Fig. 3):

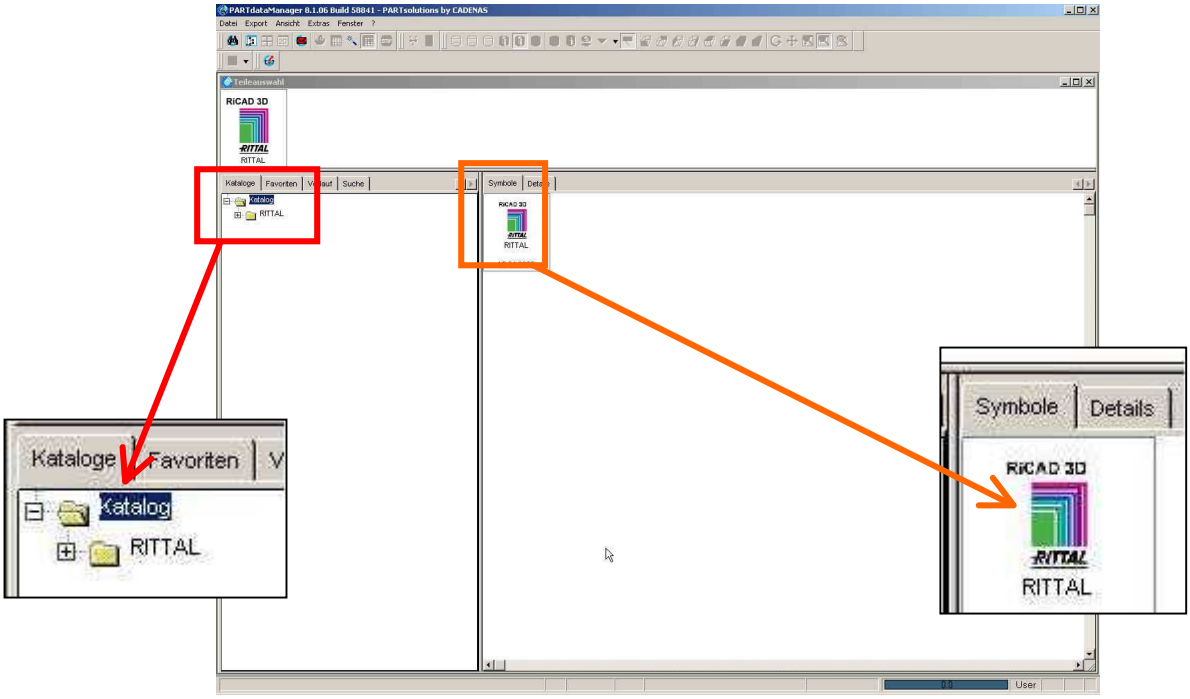


Fig. 3: RiCAD 3D Starting Screen

To access the product catalogue, either double-click the Rittal icon on the right, or click the plus sign in the left-hand box. The catalogue then opens as illustrated in Fig. 4.

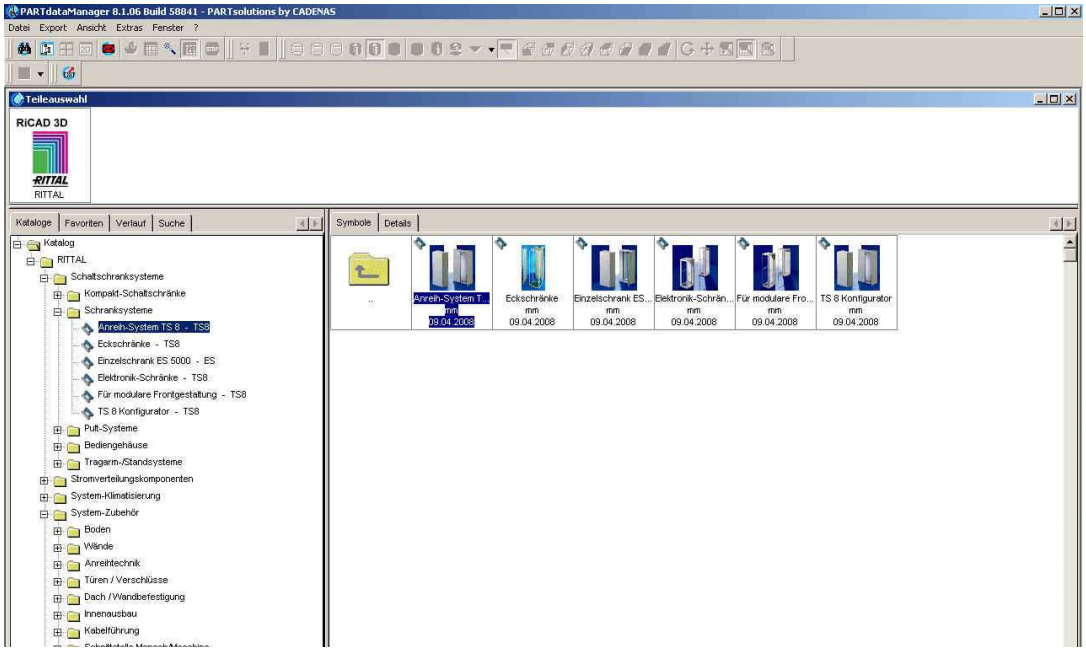


Fig. 4: A tree structure appears on the left in the then opened window, product thumbnails are displayed on the right-hand side.

On the left-hand side a listing of articles is arranged in a tree structure by product group. As in Windows Explorer, individual directories can be clicked and opened. Alternatively, an item can be selected by clicking the article thumbnail on the right-hand screen box. Double-click the product of interest. The screen displayed in Fig. 5 then appears.

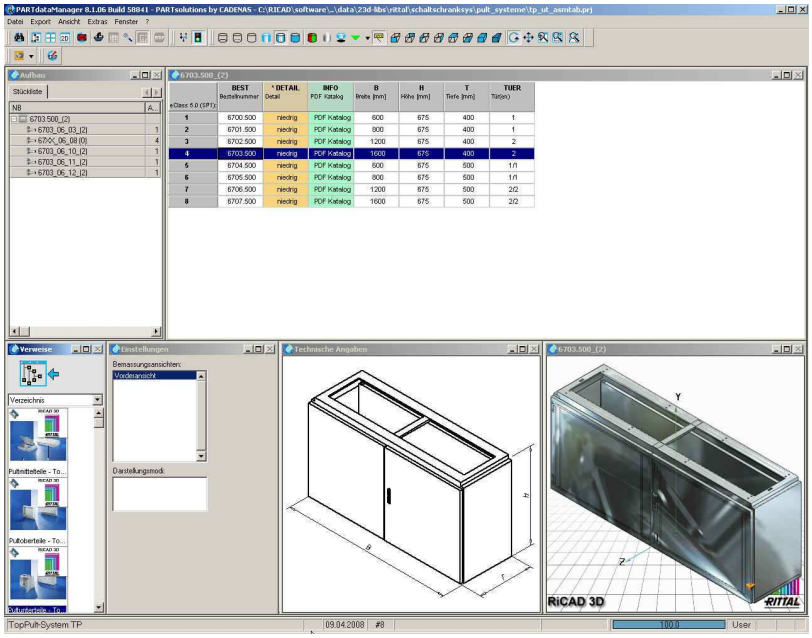


Fig. 5: If a product has been selected, a table with different size options or different model numbers is displayed.

One option is for a desired product to be selected directly from the table using the model number. Another option is, for instance, to click a value in the Height column, e.g. 1200. This automatically filters out a list of products of this same height (i.e. 1200 mm) for display. Other indicated sizes can be shortlisted likewise.

In the lower area of the screen a 2D front view is displayed with dimensions specified in the table. Here various 2D views are in part already available for selection (see Fig. 6)

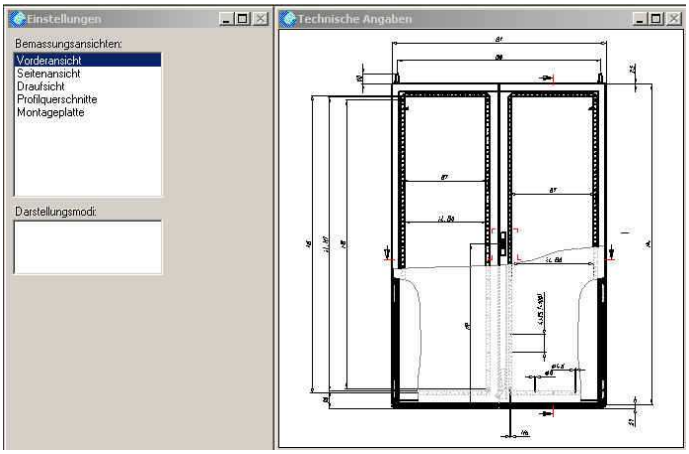


Fig. 6: 2D preview with indication of dimensions on e.g. a TS 8 enclosure

The lower left window (see Fig. 7, red circle) shows related articles and accessories, which if needed can be displayed in detail by clicking them. Clicking the blue field returns the user to the parts selection (see Fig. 4).

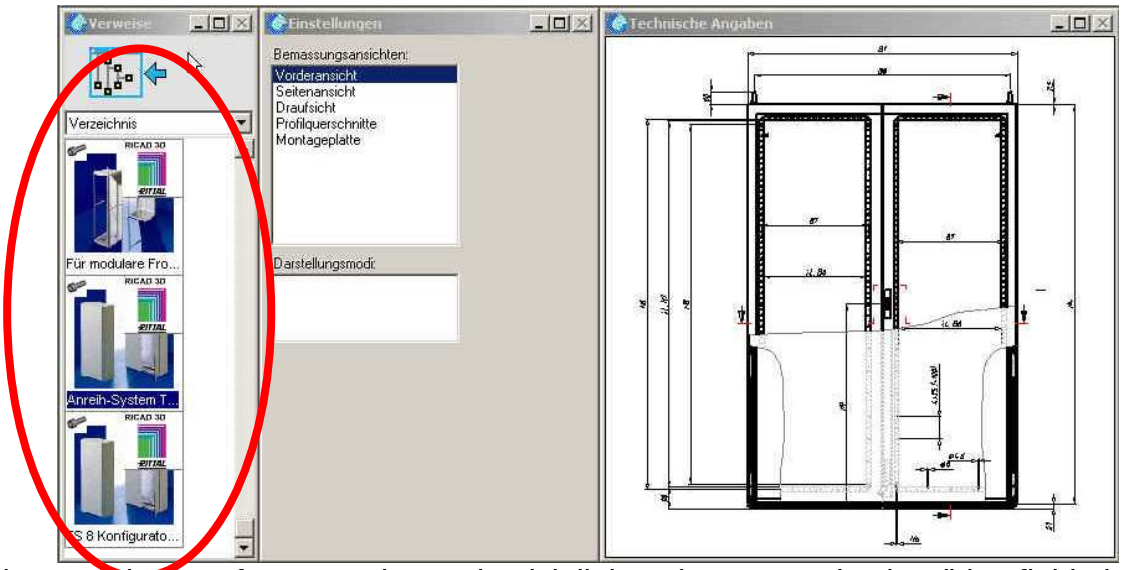


Fig. 7: Display of accessories and quick link to the parts selection (blue field above)

Below right a 3D preview is visible. This 3D view is actually an interactive application (see Fig. 8), i.e. the model can be swivelled, zoomed into, individual construction groups (e.g. doors) masked out, cutting planes defined or any required distances measured. Just as convenient as in a 3D CAD program.

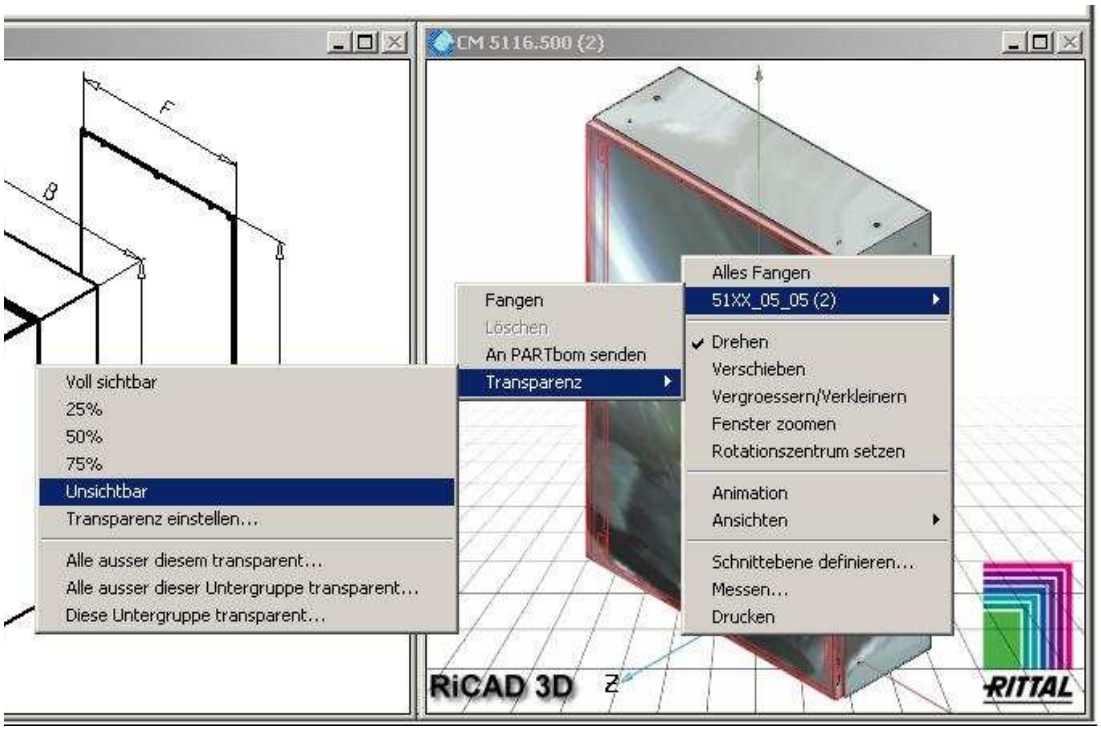


Fig. 8: Options in 3D view

Three levels of detail are available for selection. If a low level of detail is selected, the 3D preview and the resulting exported data records will have a lower resolution, e.g. TS 8 sections are shown without pitch pattern of holes or panels are shown with sharp edges. If on the other hand the selected level of detail is “high” all the details in the model are shown, e.g. TS 8 sections with pitch pattern of holes, panels with curved edges, bolts with threads etc.

To change this, click in the “Detail” column on the box with default setting “low” of the desired product and select the required level of detail in the displayed window (see Fig. 9).

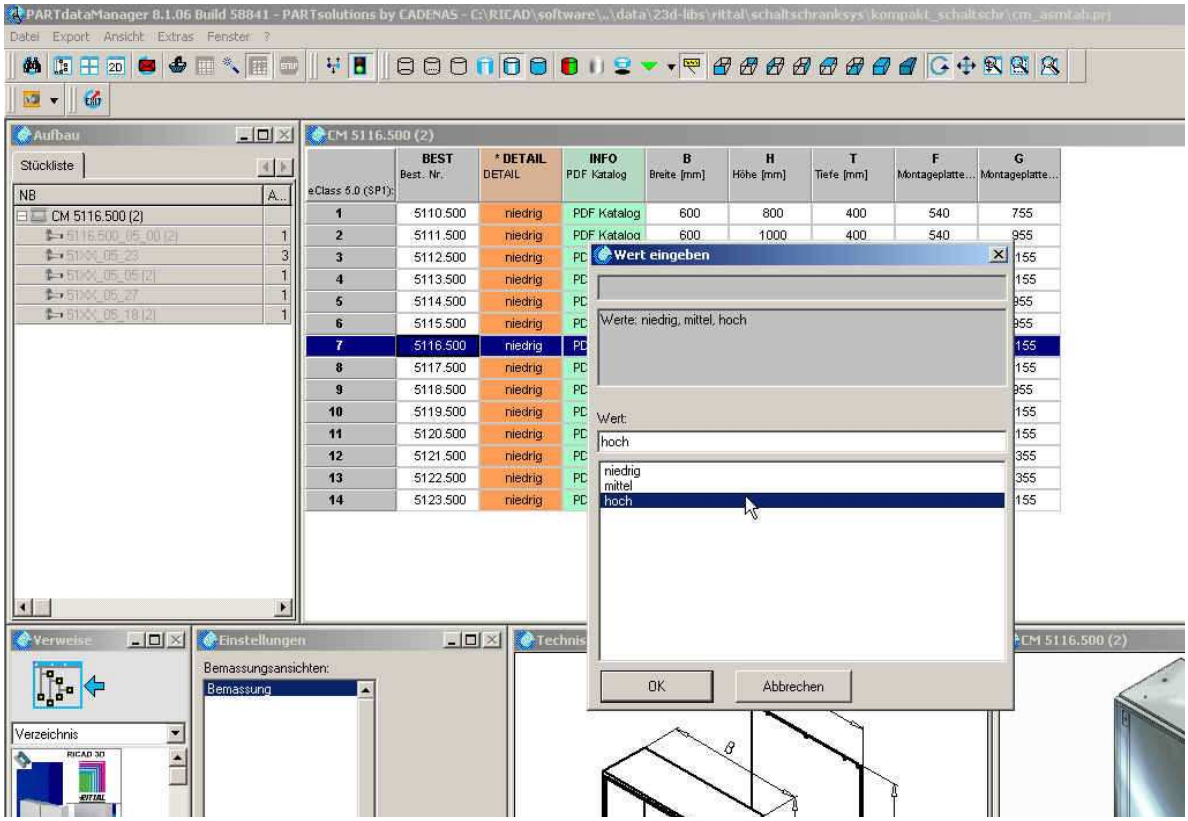


Fig. 9: Selecting the level of detail

3. Exporting 3D construction data

To export the selected article into the required CAD format, select the “Export” => “File” buttons from the menu list. Now the required CAD format can be selected from a list (see Fig. 10), and upon clicking the required version of the CAD program can be selected (see Fig. 11).

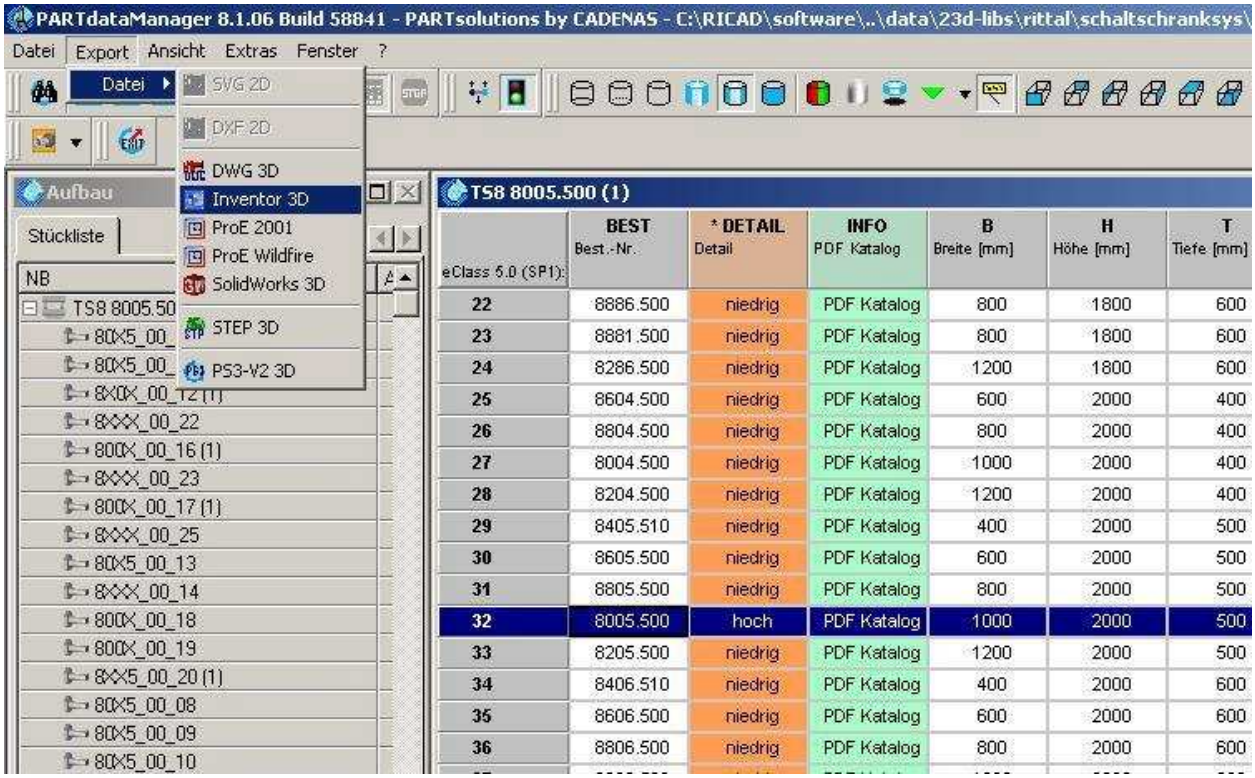


Fig. 10: Selection of the required CAD format of the construction data

Fig. 11: Selection of the required version of the CAD program

If another CAD format is used than those available on the CD, please revert to the online RiCAD 3D platform.
See the website www.rittal.com/ricad3d.

If a CAD program is opened during the product search in RiCAD 3D, the program automatically activates a button, which imports the CAD model directly into the construction program as additional feature in the menu list (see Fig. 12, red circle).

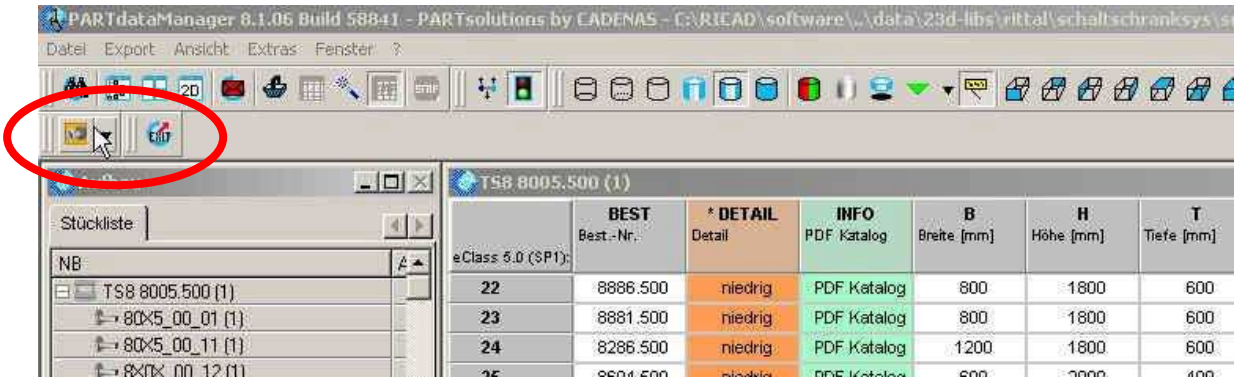


Fig. 12: Direct import into the currently opened CAD program with the push of a button

4. Exporting 2D construction data

In addition to numerous 3D CAD formats, exporting construction data into DFX 2D format is also possible. To do this, 2D view must first be activated in the menu list (see Fig. 13).

Fig. 13: Activating the detailed 2D view

When this 2D image is activated a detailed derived 2D drawing (see Fig. 14) appears below to the left of the 3D preview, with the possibility of displaying specific views of the drawing.

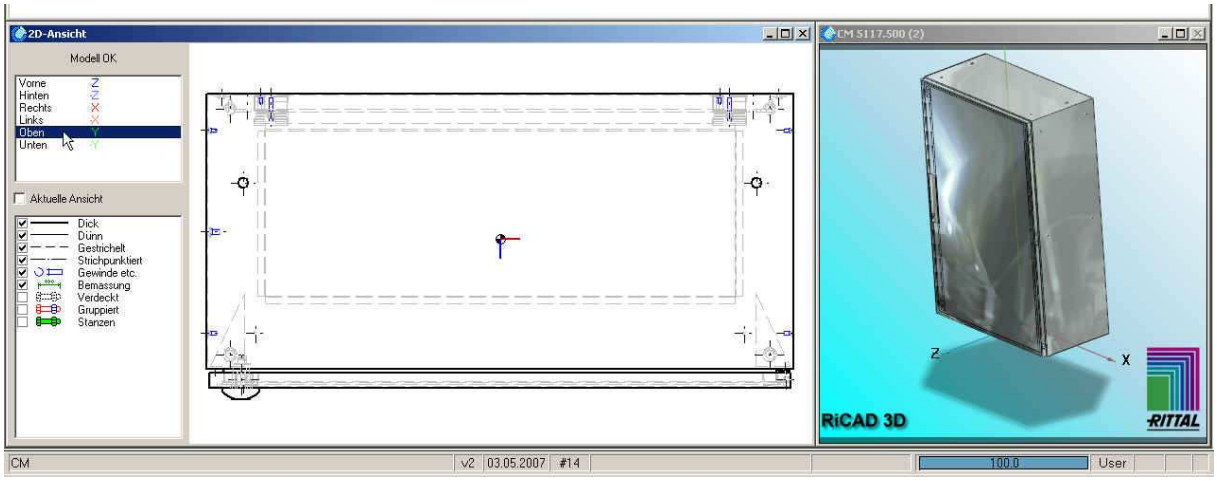


Fig. 14: Detailed 2D view (left) and 3D preview (right) in RiCAD 3D

The activated detailed 2D view can be used to export data in DXF format. As with 3D export, select “Export” => “File” from the menu and then click the now activated “DXF 2D” field.

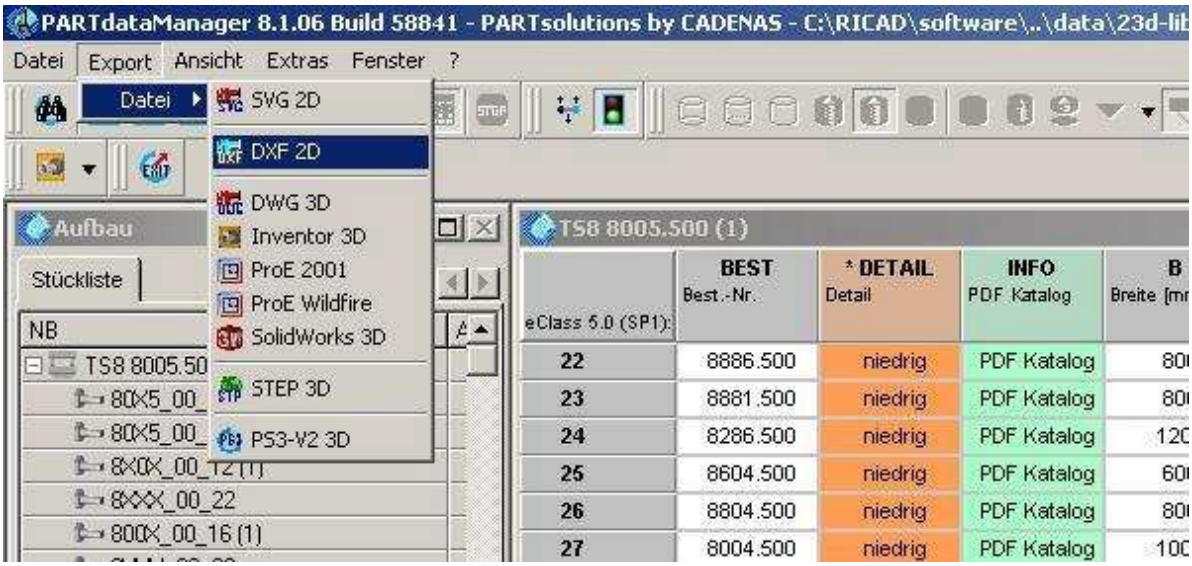


Fig. 15: Exporting construction data in DXF 2D format.

In the dialog field which is then shown, the particular DXF version and required 2D views can be selected (see Fig. 14).

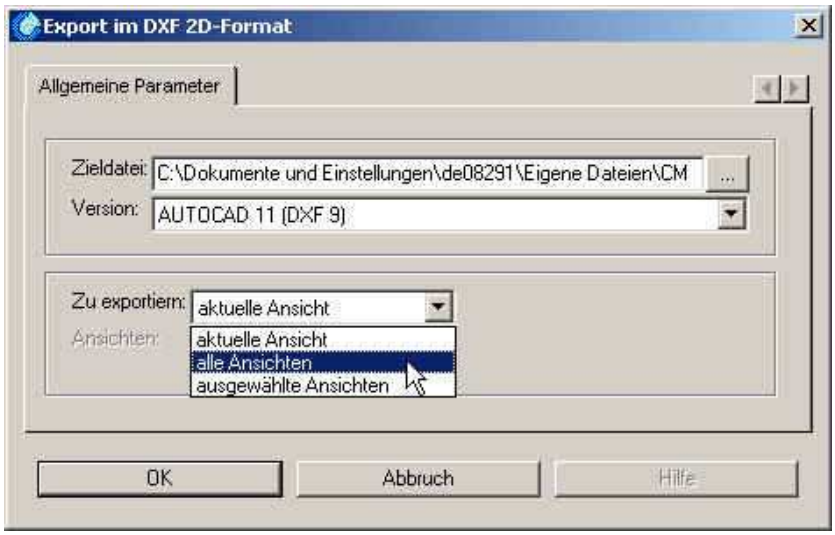


Fig. 16: Selection window for exporting construction data in DXF 2D format.

Construction data are then ready for further convenient processing in the CAD program.

5. CD installation / Performance tip

To further enhance performance in terms of product selection and CAD data generation, and to be able to install current updates, the contents of the CD should be copied to the computer's hard disk.

Simply press the “Install” button in the starting screen that appears upon insertion of the CD (see Fig. 17). This will automatically copy the contents of the CD onto the system's hard disk and generate a shortcut on the desktop.

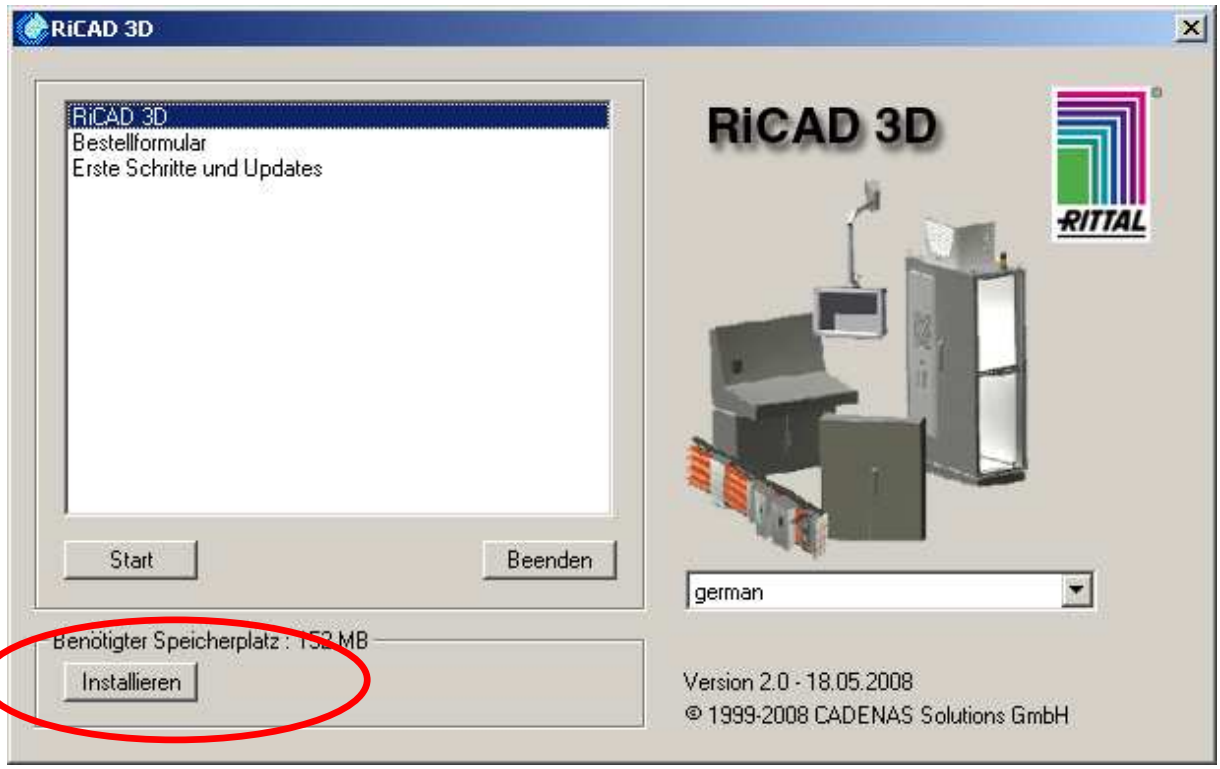


Fig. 17: Installation tool in the starting screen

If the full version of the parts solution software is installed on your PC, the contents of the CD should be copied manually to the computer hard disk. This could otherwise create software conflicts. To copy, create a new directory named “RiCAD 3D” under C://Programs and copy the entire contents of the CD to it. Start the tool by double-clicking the “cdstart.exe” file in the “Software” subdirectory. You can facilitate this start procedure by placing a shortcut to the “cdstart.exe” file on your desktop.

6. Update tip

The RiCAD 3D CD is continuously enhanced and optimised. Regular updates are therefore available for download on the Rittal website. You can access the RiCAD platform using the following link: www.rittal.com/ricad3d

Separate instructions are enclosed in the downloaded ZIP file of the update.

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