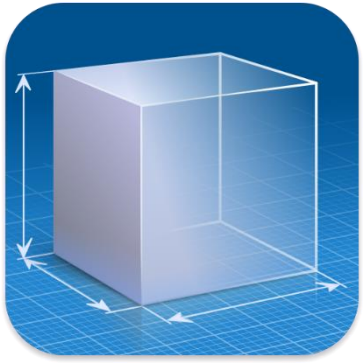

CST CAD NAVIGATOR USER GUIDE

by CADSOFTTOOLS

CST CAD Navigator is the CAD application compatible with Windows, macOS, and Linux. Under its user-friendly interface, there is a powerful kernel enabling quick viewing of 2D drawings and 3D models. The software makes it easy to import and export files, get dimensions, and create section views.

CONTENT

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WHAT FILE FORMATS ARE SUPPORTED?

CST CAD Navigator supports both 2D and 3D file formats. It enables to open:

CAD FORMATS

DWG (up to Autodesk AutoCAD® 2024), DXF.

VECTOR FORMATS

PDF, SVG, CGM, PLT, HPGL, HGL, HG, HPG, PLO, HP, HP1, HP2, HP3, HPGL2, HPP, GL, GL2, PRN, SPL, RTL, PCL.

3D FORMATS

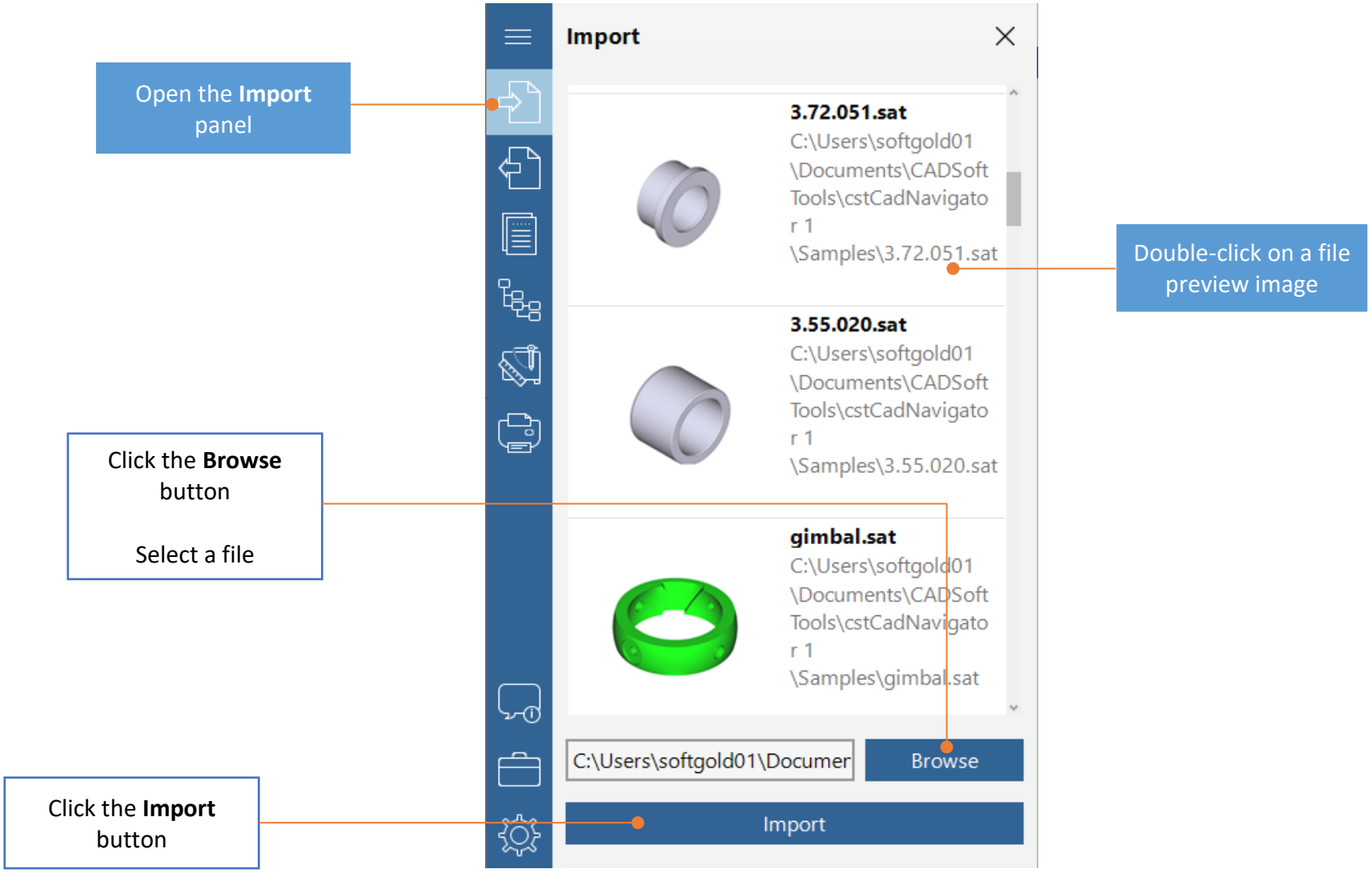
IGES, IGS, STEP, STP, STL, X_T, X_B, SLDPRT, SAT, FSAT, SAB, OBJ, BREP, SMT, IPT.

RASTER FORMATS

PNG, BMP, JPG, JPEG, TIF, TIFF, GIF.

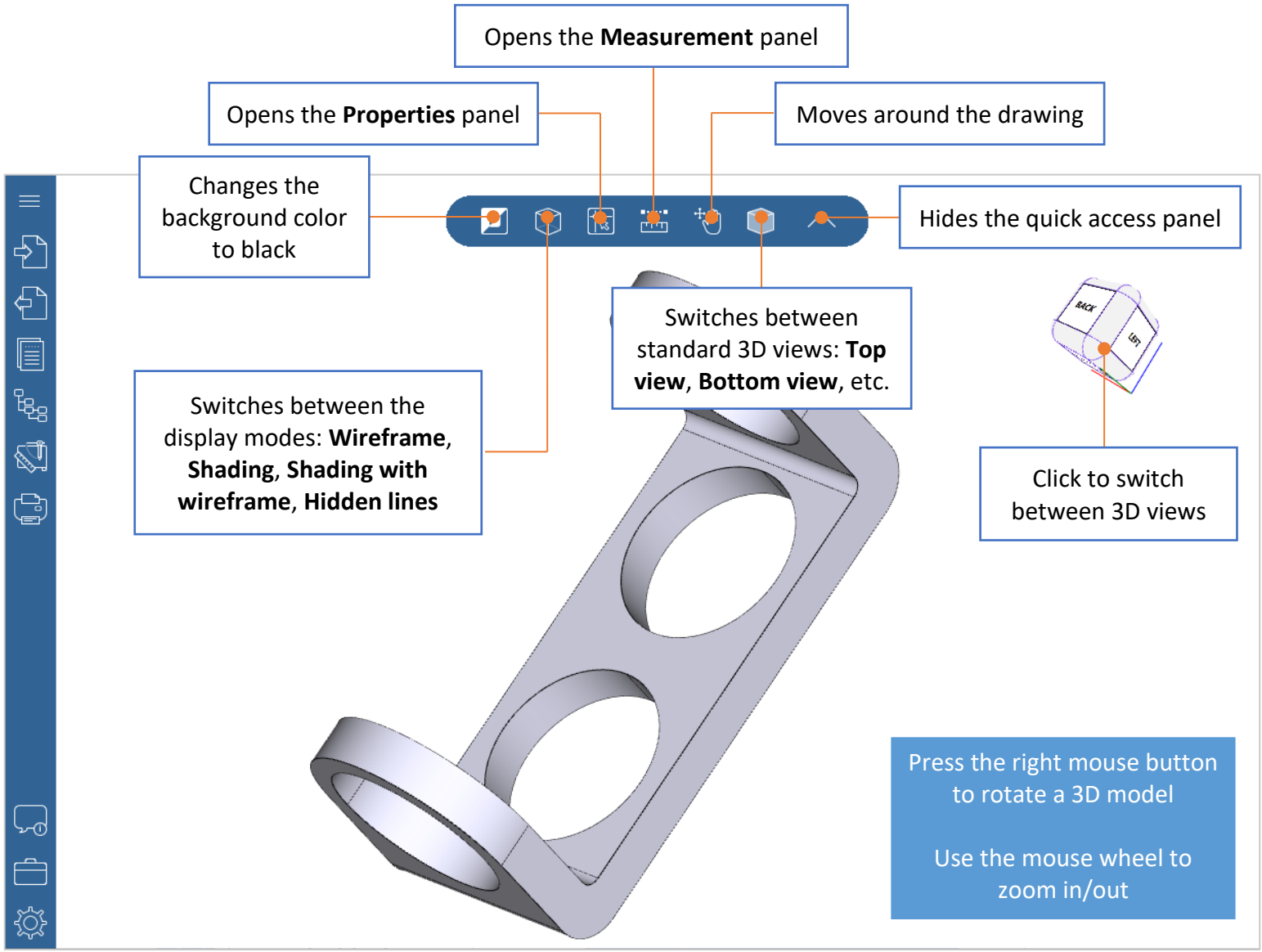
HOW TO OPEN A FILE?

When you run CST CAD Navigator for the first time, click **Browse**, select your file and then click **Open**. On subsequent run of the application, your recent files are displayed. To view one of them, double-click on it or select it and click **Import**.



HOW TO NAVIGATE AROUND A FILE?

CST CAD Navigator enables to quickly navigate around your 2D drawing or 3D model.



WHAT ARE THE EXPORT FORMATS?

CST CAD Navigator enables to save files to the following formats:

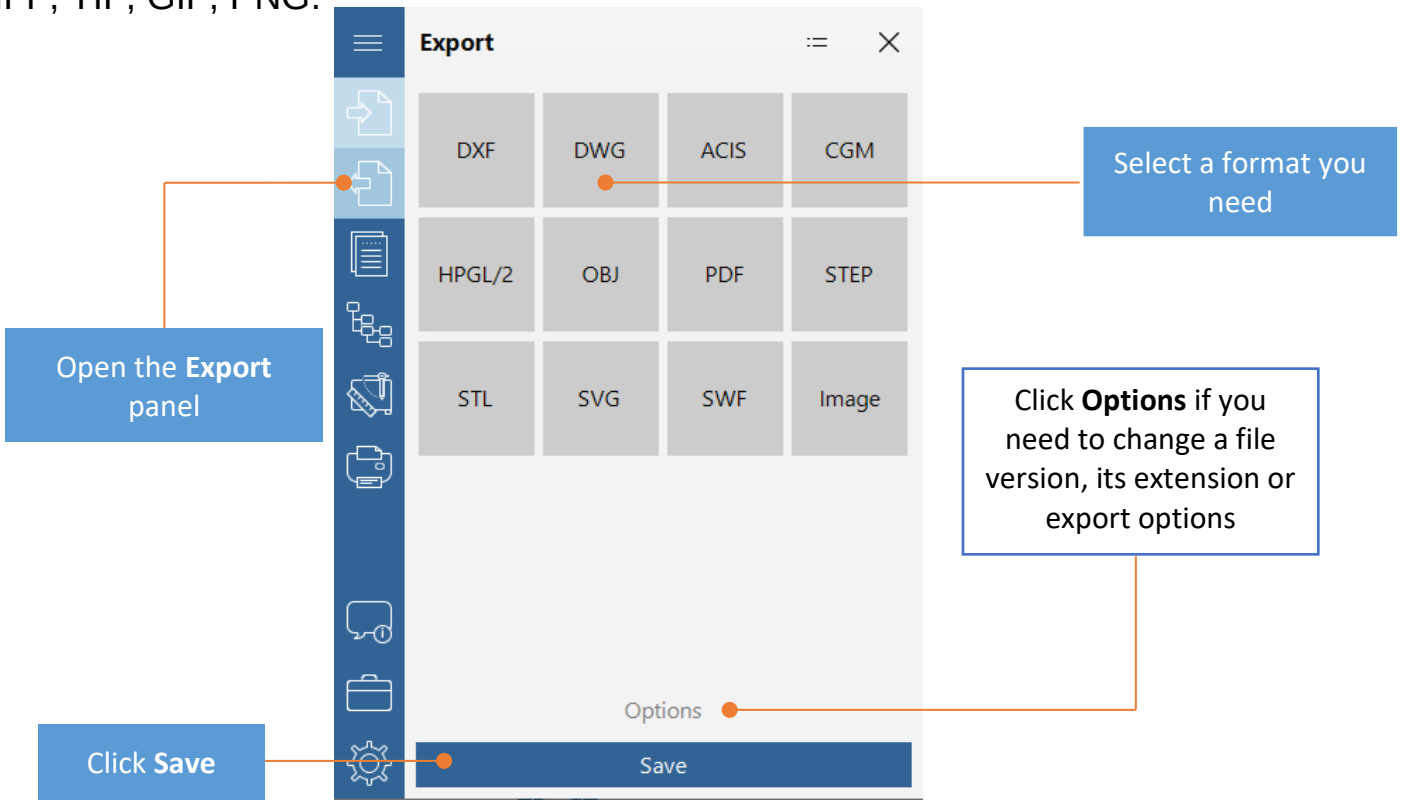
CAD FORMATS: DWG (versions 2000, 2004, 2010), DXF.

VECTOR FORMATS: PDF, CGM, SVG, SWF, HPGL/2.

3D FORMATS: IGES, STEP, STL, OBJ, ACIS.

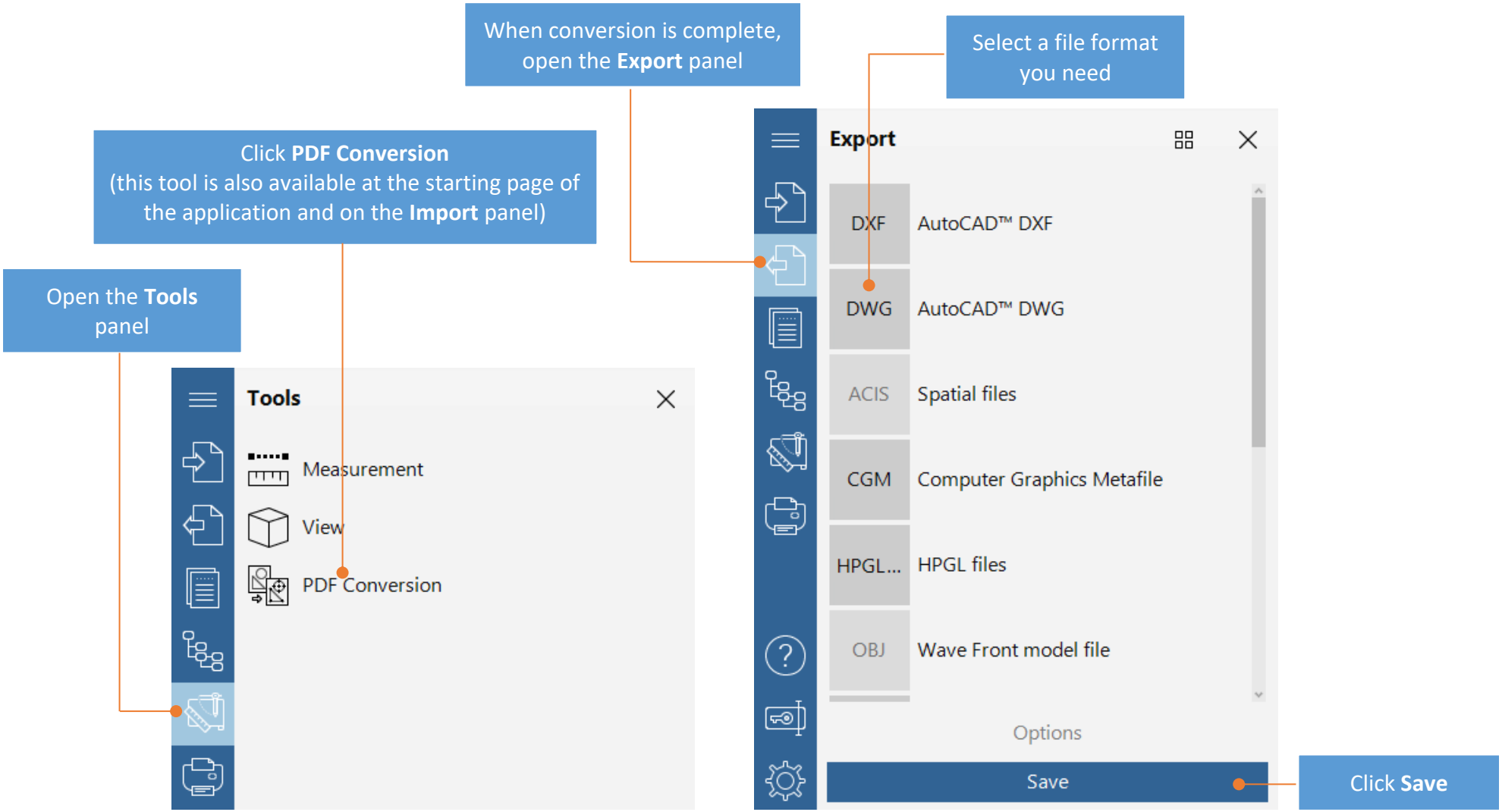
RASTER FORMATS:

JPG, JPEG, BMP, TIFF, TIF, GIF, PNG.



HOW TO CONVERT PDF TO DWG/DXF?

Using CST CAD Navigator, it is possible to convert PDF files to editable DWG or DXF files. To change the conversion settings, go to the Settings panel.

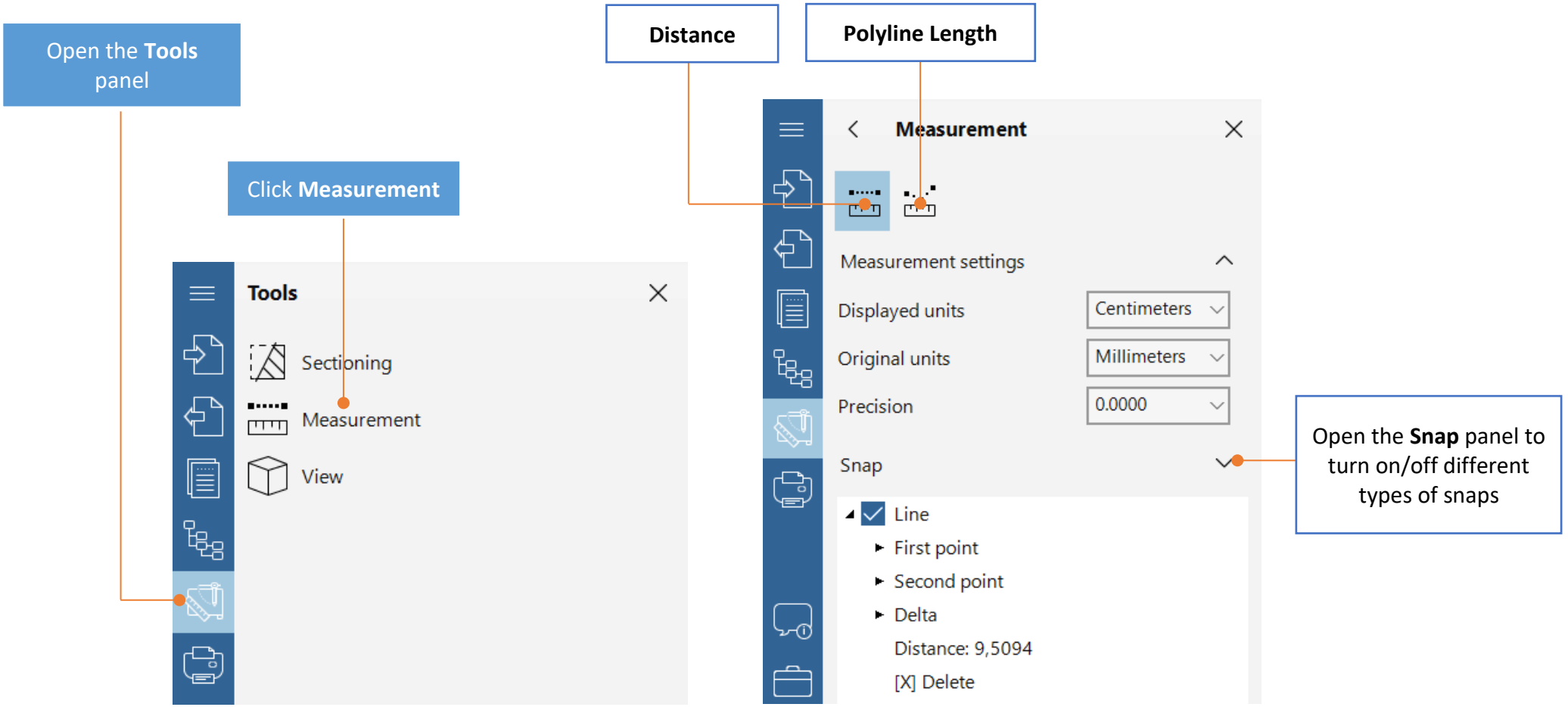


HOW TO MEASURE A 2D FILE?

CST CAD Navigator provides two measuring tools to measure 2D files: **Distance** and **Polyline Length**.

Using the **Distance** tool, you can get the distance between two points.

Using the **Polyline Length** tool, you can get the length of a polyline part, its total length, or area.



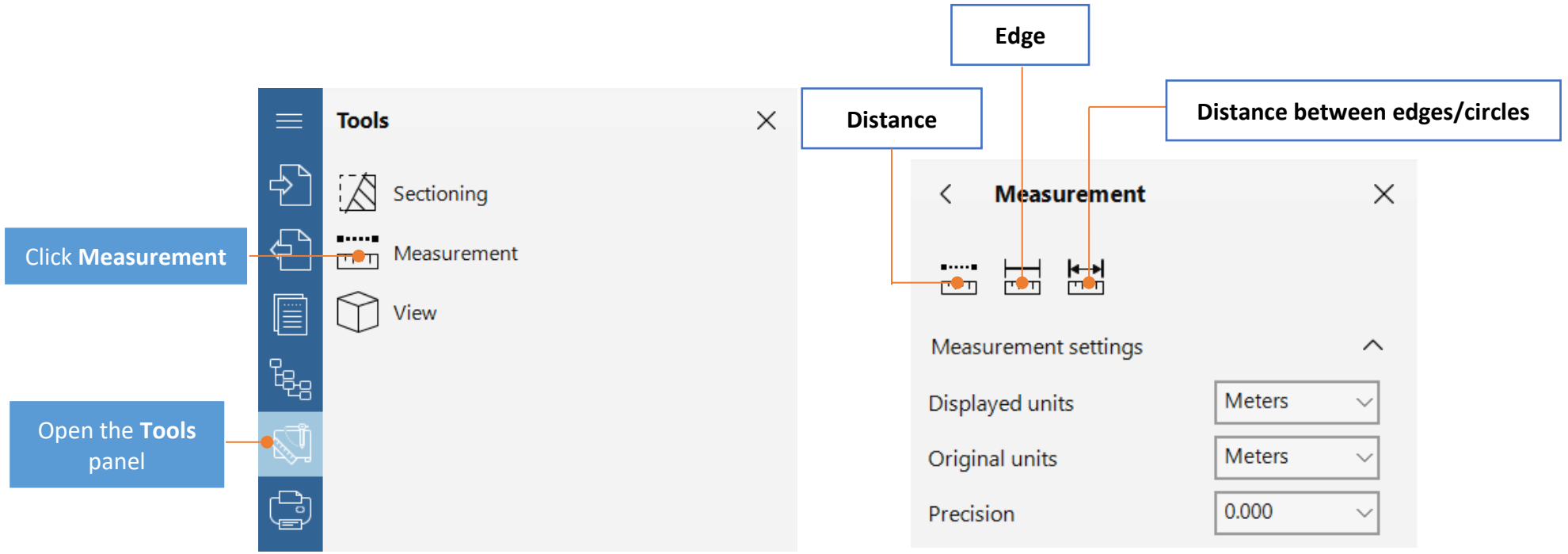
HOW TO GET DIMENSIONS OF A 3D MODEL?

CST CAD Navigator provides three measuring tools to get dimensions of 3D models: **Distance**, **Edge**, and **Distance between edges/circles**.

Using the **Distance** tool, you can get the distance between two points, between a point and surface, between two parallel surfaces.

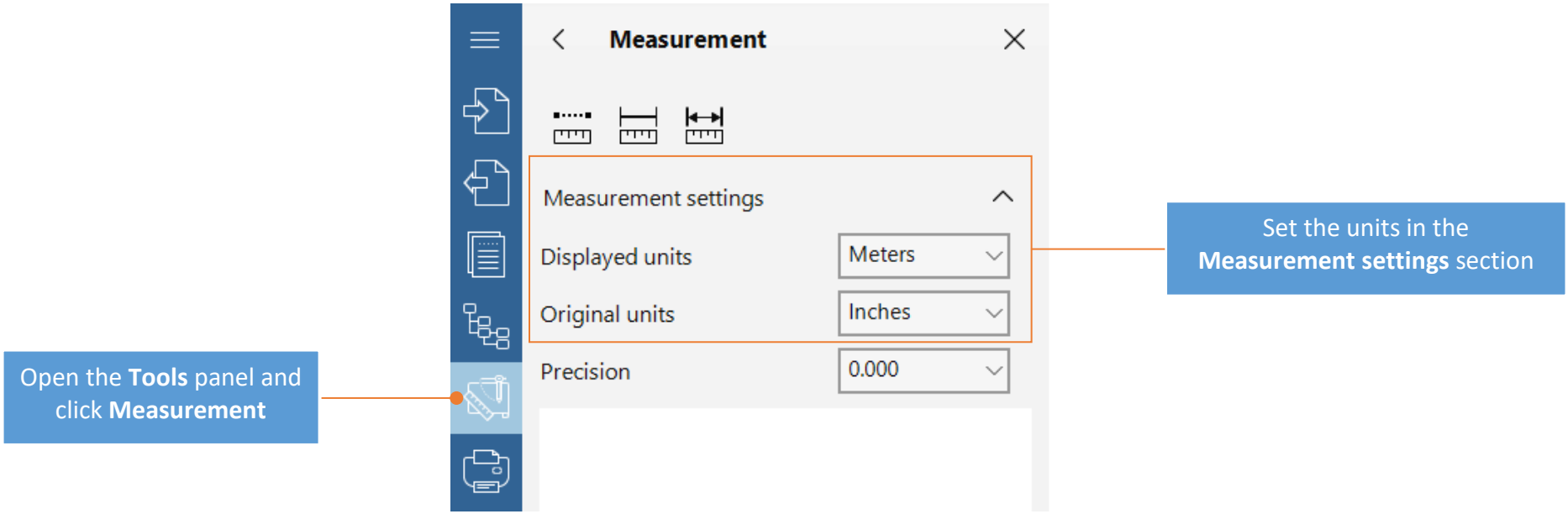
Using the **Edge** tool, you can get the length of an edge and the radius of a circle or a circular arc.

Using the **Distance between edges/circles** tool, you can get the distance between two parallel edges or between two circle centers.



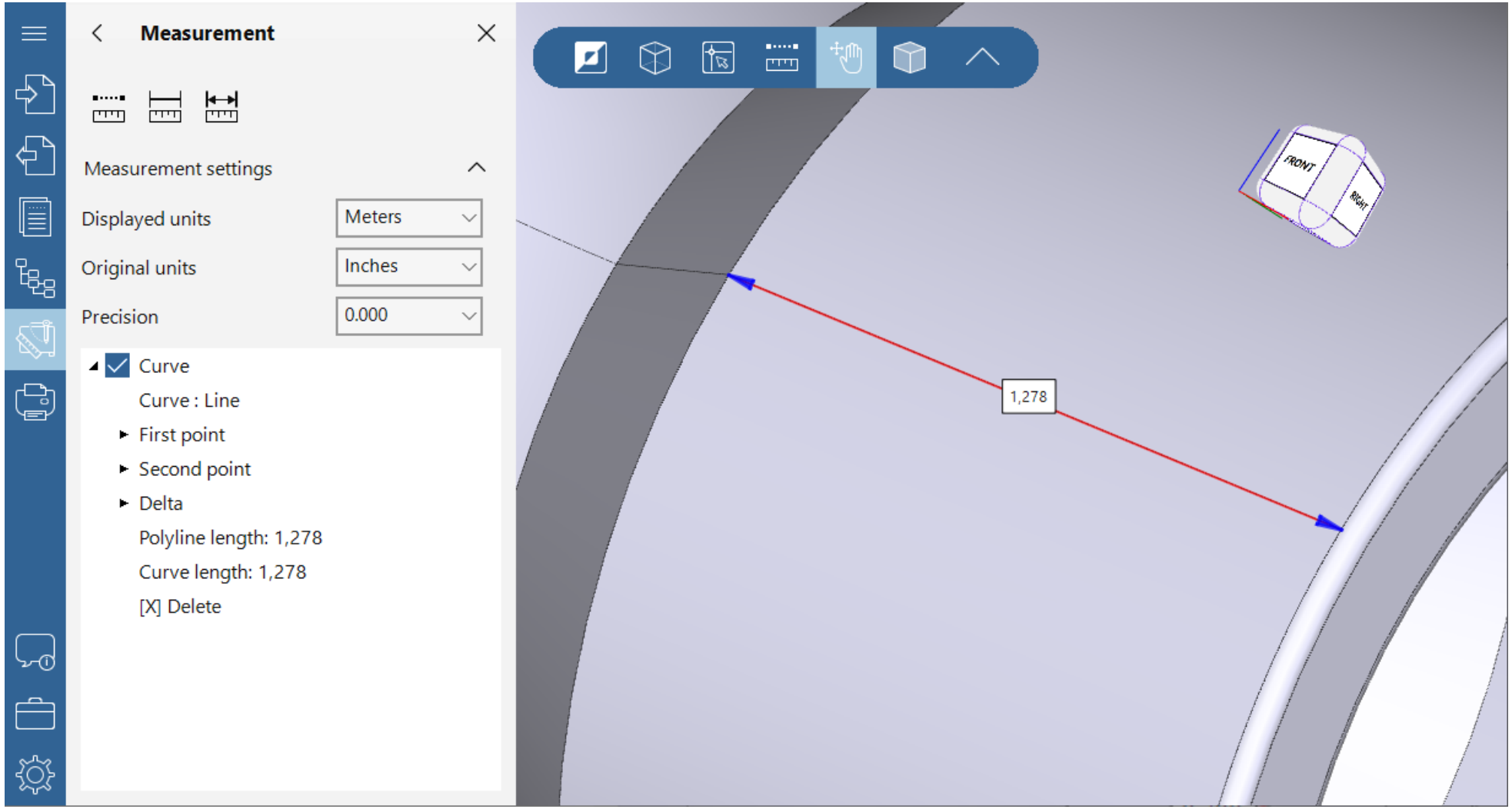
HOW TO CHANGE THE MEASURING UNITS?

You can change the measuring units in the **Measurement settings** section. Set the original units of a drawing/3D model (units in which it was created) and the units in which you want the measurement results to be displayed.



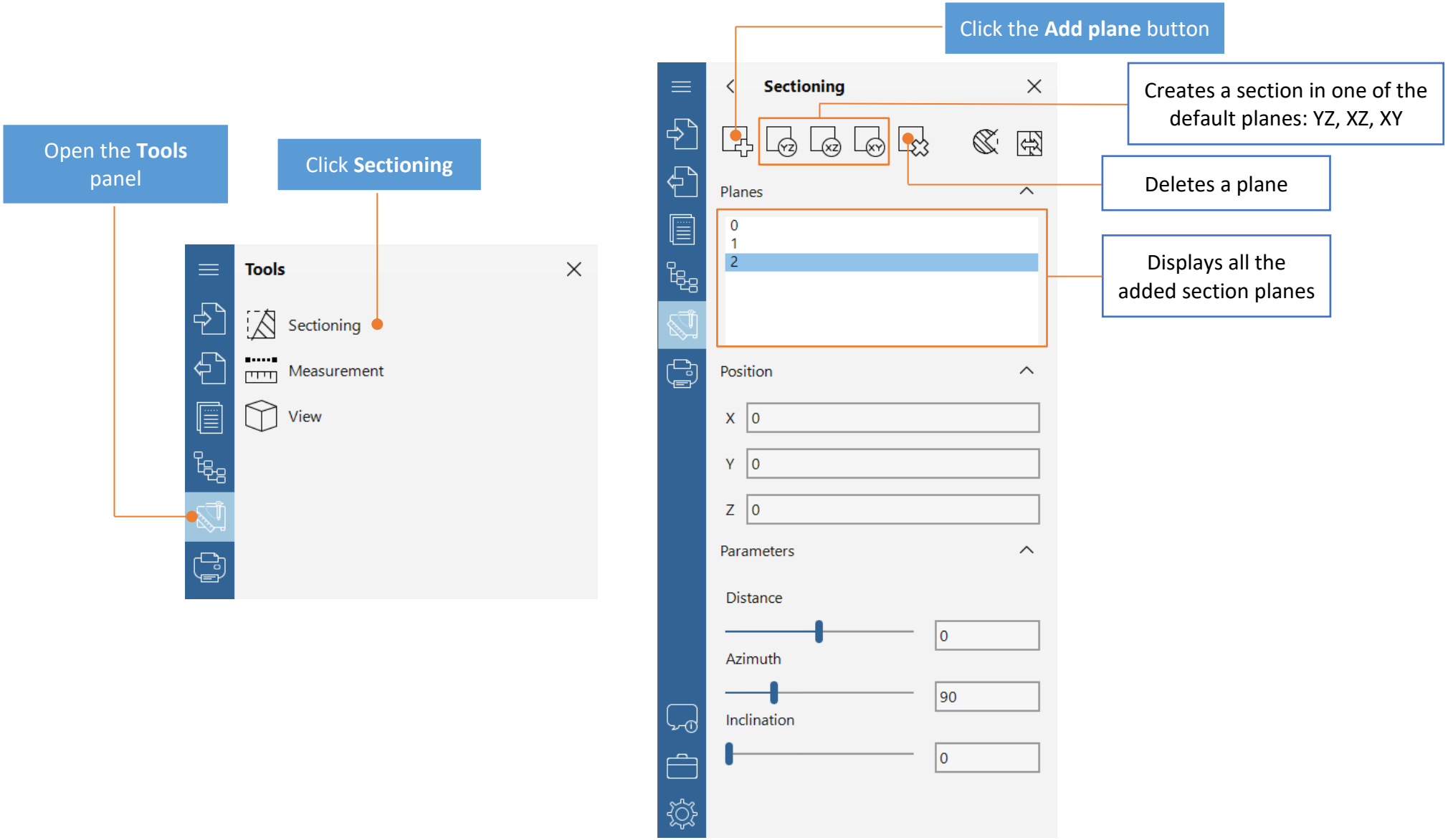
HOW TO GET THE DISTANCE BETWEEN TWO POINTS?

Activate the **Distance** tool, then click to specify the first and the second points on a 3D model. The result will be shown in **Measurement** panel on the left and on a 3D model itself.



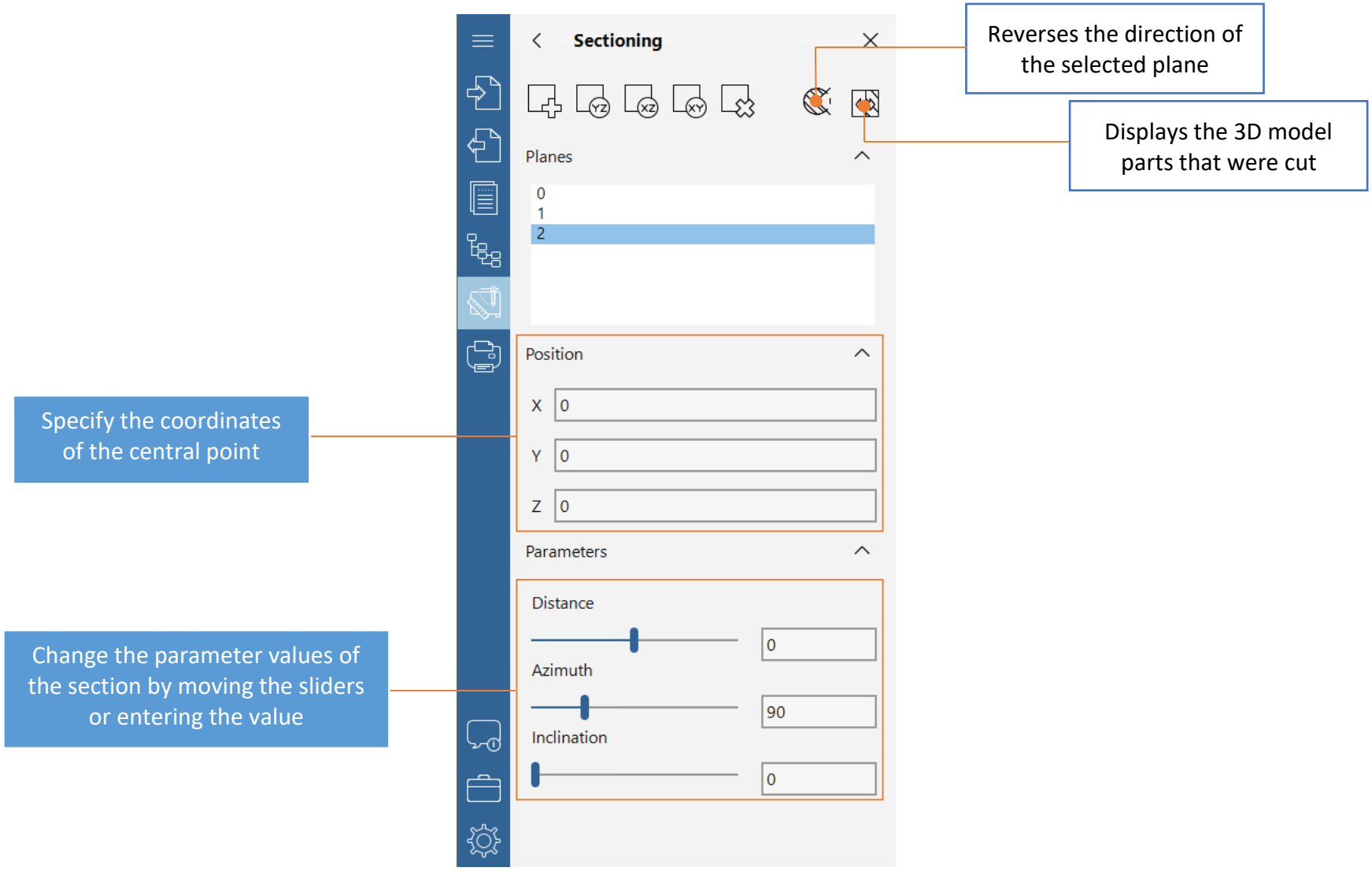
HOW TO CREATE A SECTION VIEW OF A MODEL?

CST CAD Navigator has a dynamic section tool. With its help, you may create a section view of a 3D model and see its hidden elements. Sections do not modify geometry and are fully customizable.



HOW TO ADJUST A SECTION PLANE'S POSITION?

To adjust a section plane's position, move the sliders or specify the coordinates of the central point in the X, Y, Z fields.

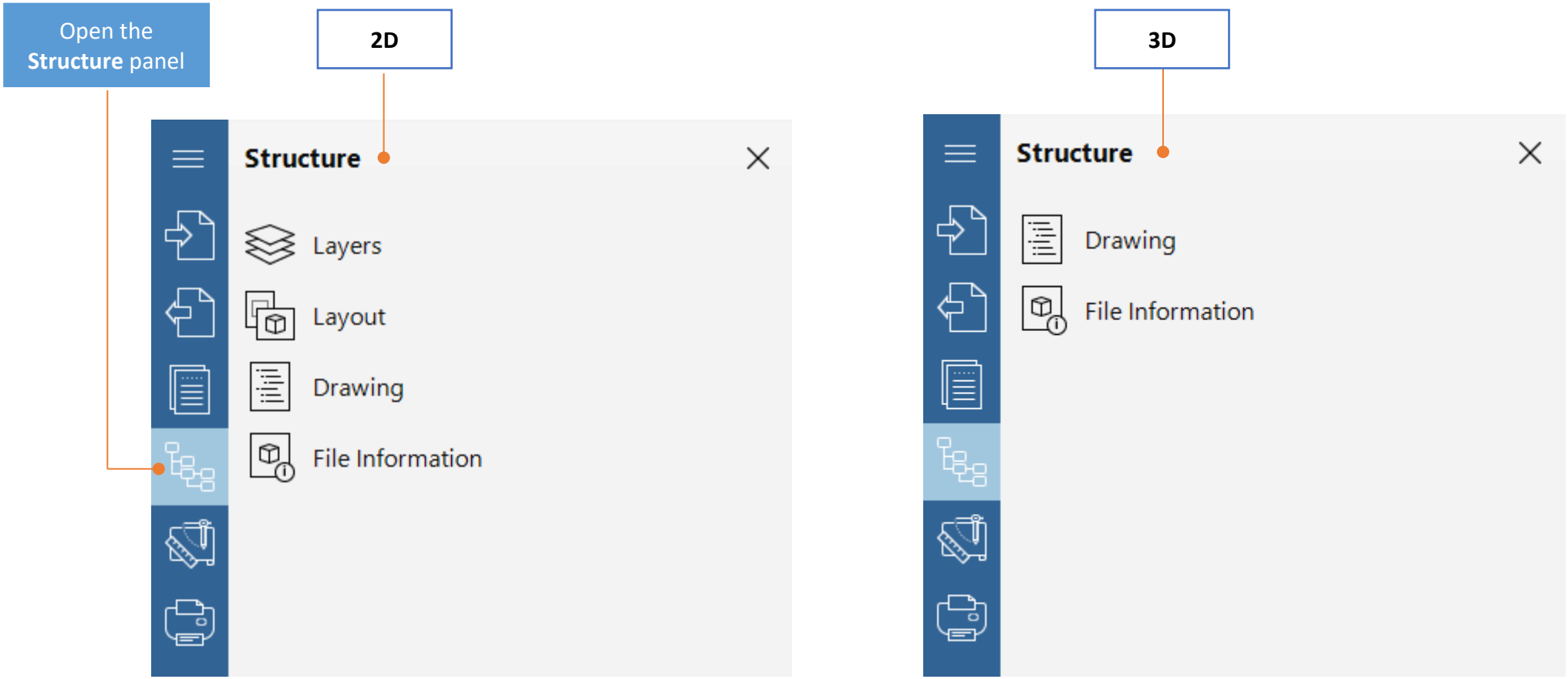


HOW TO SEE THE STRUCTURE OF A FILE?

The **Structure** panel includes the following sections:

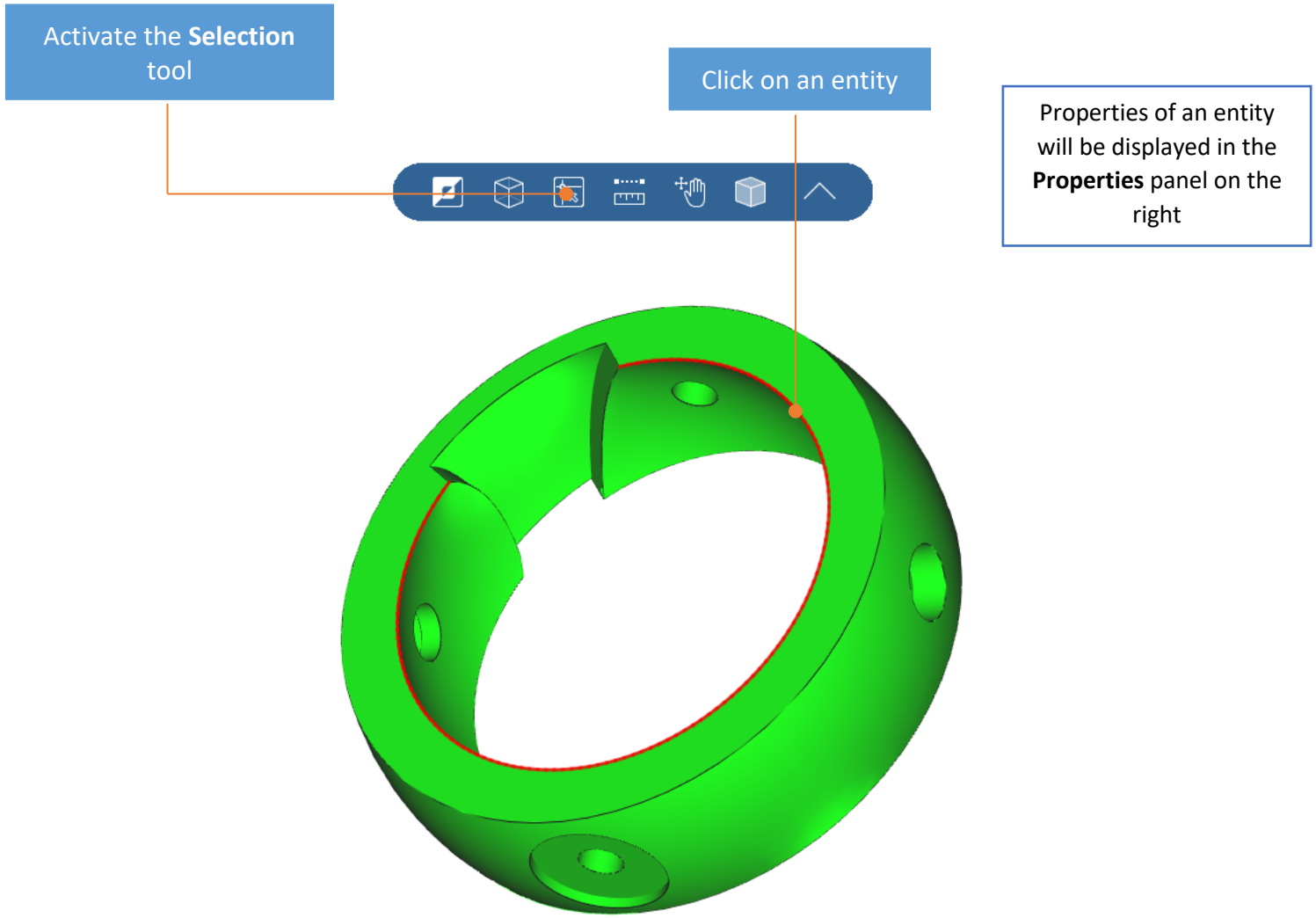
2D: **Layers**, **Layout**, **Drawing**, **File Information**.

3D: **Drawing**, **File Information**.



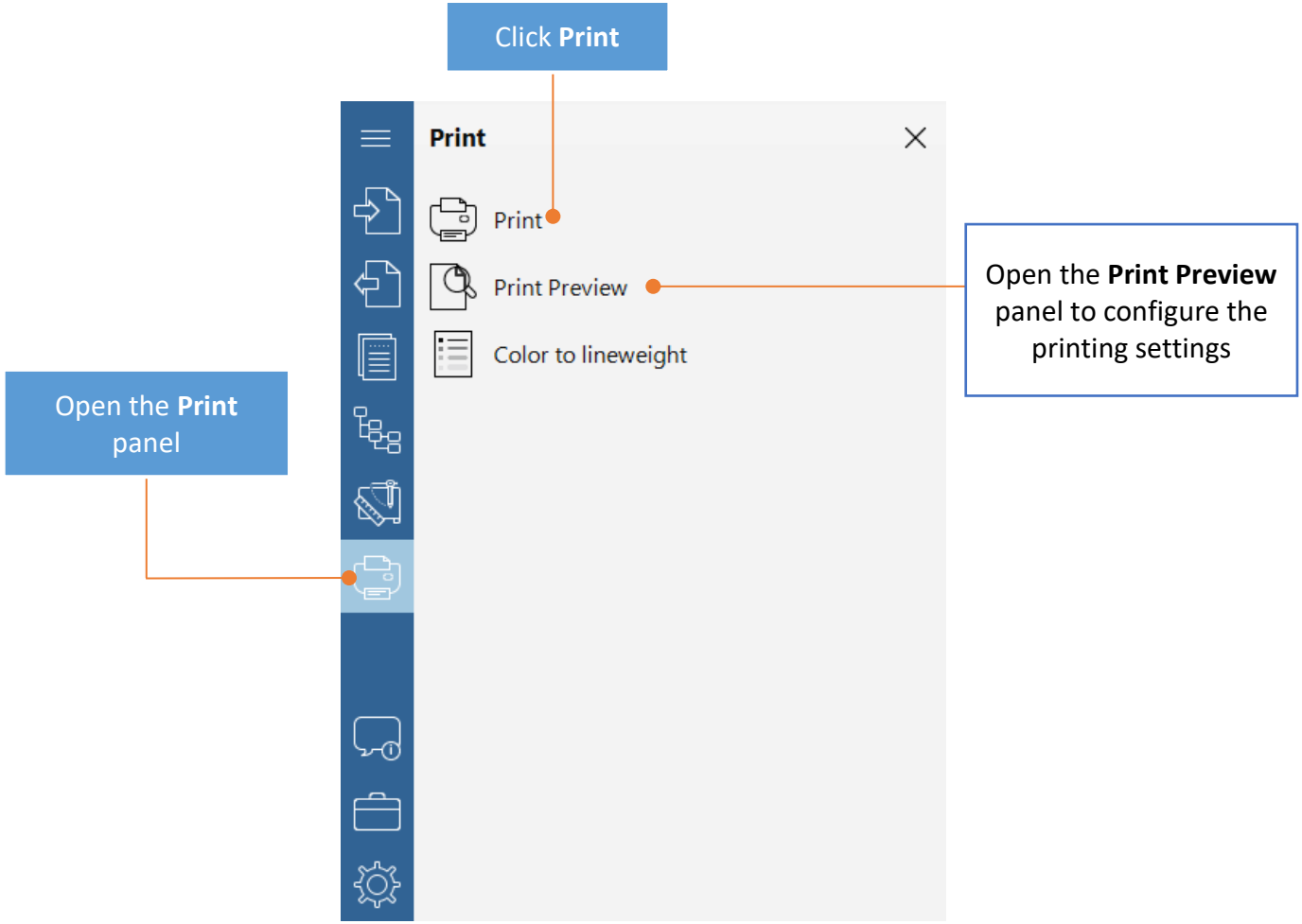
HOW TO SEE PROPERTIES OF AN ENTITY?

To see properties of an object, use the **Selection** tool from the quick access toolbar.



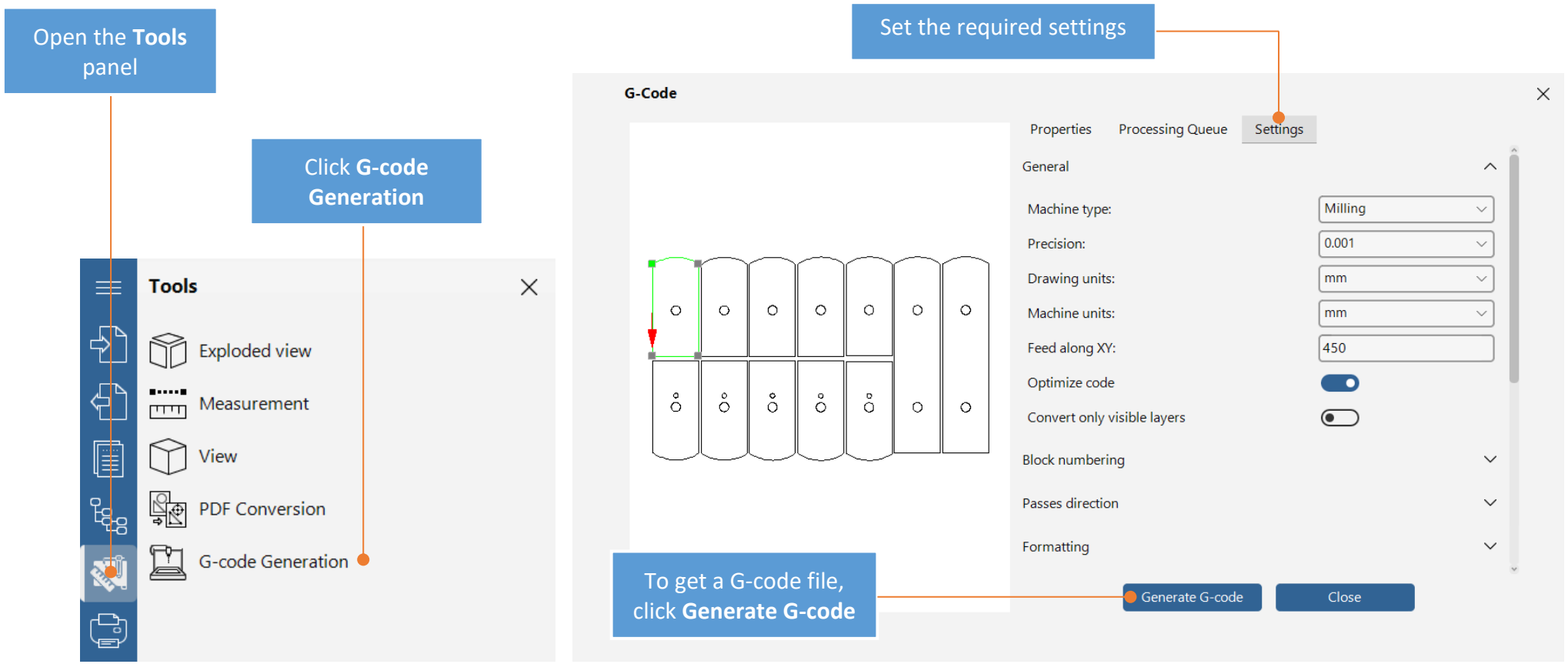
HOW TO PRINT A FILE?

CST CAD Navigator enables to configure the printing settings and print files.



HOW TO GENERATE G-CODE FROM DWG/DXF?

CST CAD Navigator generates universal G-code compatible with a wide range of CNC machines. It provides numerous settings to customize and optimize G-code to meet your specific requirements.



HOW TO CONFIGURE SETTINGS?

You can customize CST CAD Navigator to make it better fit your needs.