
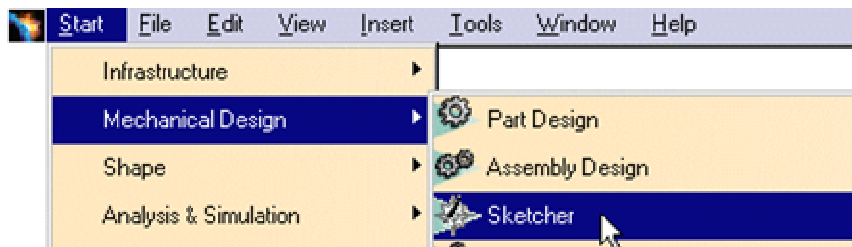


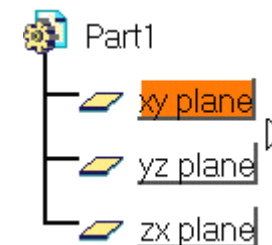
# Entering the Sketcher Workbench

 This task lists the different ways of entering the **Sketcher workbench**.

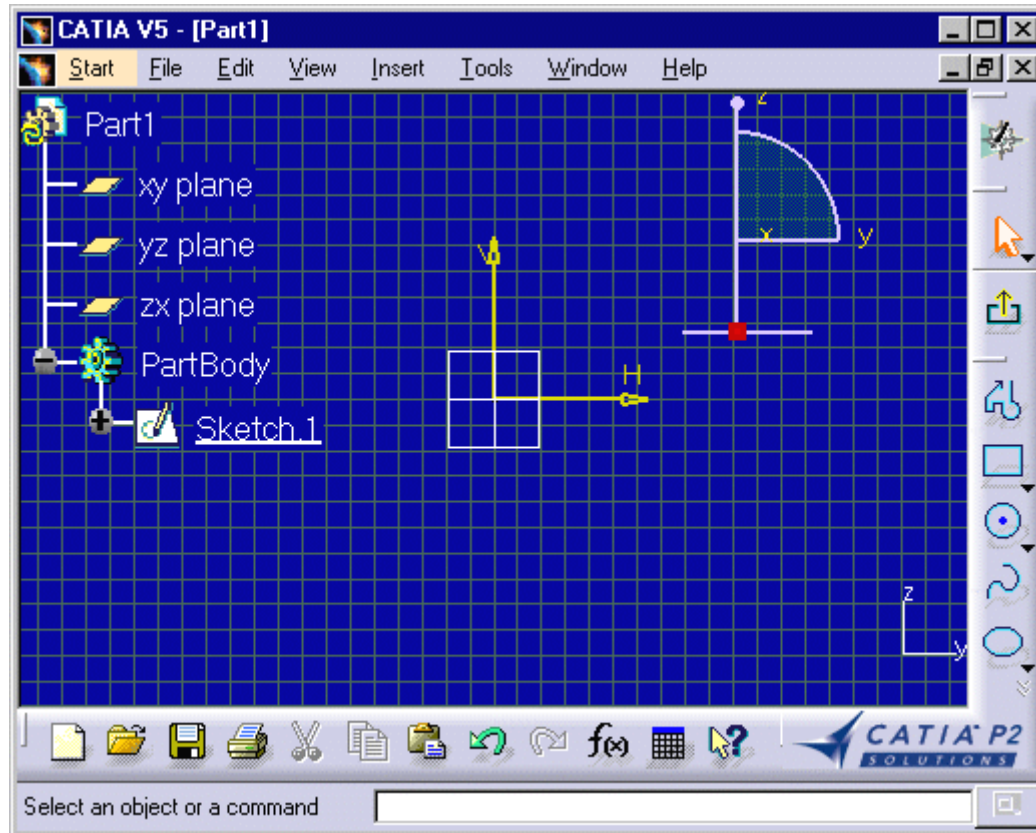
 1. Select Start -> Mechanical Design -> Sketcher from the menu bar.



2. Click the chosen reference plane, either in the geometry area or in the specification tree.



The Sketcher workbench appears as follows:



## Modify the Grid Spacing

1. Go to **Tools->Options**.
2. From the left-hand pane of the **Options** dialog box, click **Mechanical Design->Sketcher**.
3. Select the **Sketcher** tab.

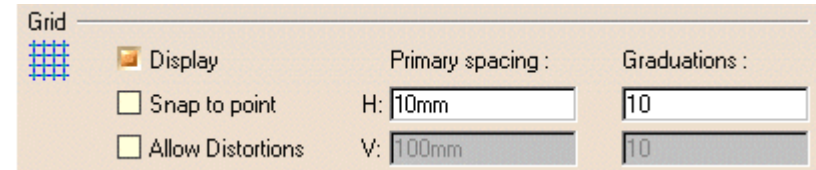
4. Enter 10mm as Primary spacing.


5. If needed, disable the Snap to point mode.

[Click here](#) for more information on Grid options.

6. Click OK in the Options dialog box.

You can now start working in the Sketcher workbench.



-  HV plane calculation in relation to selected plane:
- The normal of the working support is the same as the principal normal of the plane checked. You choose zx plane, the PRINCIPAL NORMAL is Y
  - The first vector H is defined as follow :  $H = Z \times N$  ( x means vectorial product). N is the normal vector y in our case.  $H = -X$ .
  - The second vector V is defined as  $V = N \times H$ . Don't forget that H;V;N must make a direct trihedron. Since V5 R7 you can reorient the axis system in the work support but the axis system must be direct. So changing one vector H, change the other.

