



## FAQ #39: What's the difference between the Clearance and Rapid planes?

**Q:** What's the real difference between the **Rapid Plane** in the feature edit dialogs, and the Rapid Plane under Clearance in the **Stock** dialog?

**A:** They're two completely different items for similar purposes. The **Rapid Plane** setting under **Clearance** in the **Stock** dialog is the global tool retract height for the rapid move between features to be machined, while the **Rapid Plane** setting in the feature dialogs is the Z retract inside the feature itself, for example the lift to a safe rapid Z between passes in a pocket or profile toolpath. If the **Rapid Plane** in the feature dialog is set higher than the plane set in the **Stock** dialog, BobCAD-CAM will only output the setting from the feature in the NC code.

The **Rapid Plane** setting in the **Stock** dialog, shown at the left below, can also be used to jump clamps.

The global **Rapid Plane** in the **Stock** dialog:

The **Rapid Plane** setting in a feature editing dialog:

