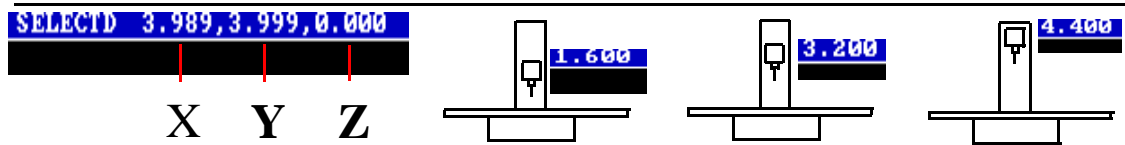


## Set Z/Set surface



You can monitor the position of the tool tip by viewing the blue bar with the white numbers at the top right of the screen. As you move the tool tip up the Z axis, you can read its position on the Z status line.

The positive number line can be used in all cutting applications. SuperCam was designed with cut depths being positive numbers. This works well because of a command we will explain called “setsurf”, and stands for set surface. Once the position of the surface of the material for cutting is recorded, all Z moves are derived from the surface value as the base reference. Cut depths are subtracted from the surface value.



A special word about “setz”. Leave it alone! You have created a fundamental relationship between your machine and the computer. Don’t change it. On the last page, “setz” was used as a set up tool. It created a common registration point between the machine and the program. Arbitrarily moving the Z position can lead to big problems. To do so is to shift the registration and could result in driving the cutter into the table.



The “setsurf” command is used to physically lower the cutter tip until it nearly touches the material. Select “setsurf”. The left mouse button moves the tool down and the right button moves it up. Move the tool tip down, approaching the material. When you are satisfied that the tip is as close to the surface as possible without touching it, press enter. The surface number is recorded in the program. The tool moves to the previous surface position.

(continued next page)