



S - MOUSE

AUTOMATIC SURFACE/TOOLTIP SENSOR



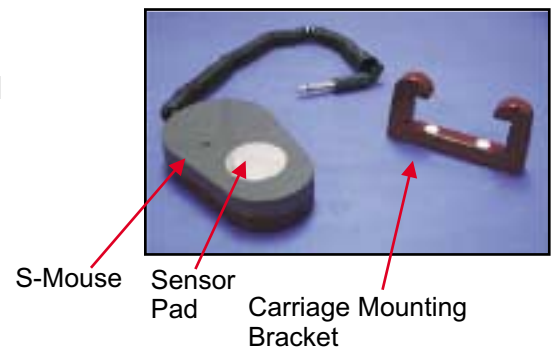
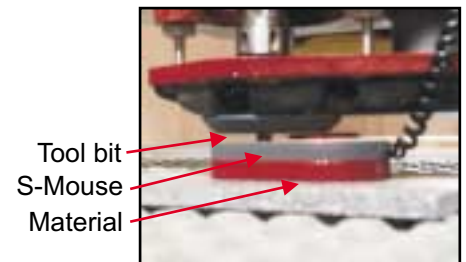
Description

The new S-Mouse option eliminates the need to manually configure the machine when determining material surfaces or relative tool tip heights. Using the easy 'one-time' set up function, the user can apply, and save to memory, settings for the waste board surface, maximum depth of cut and travel height above the material surface. With one button ease, the user then simply auto senses the material surface of materials to be cut or sequentially senses relative tip height on multi-tool machines.

Features

- Highly accurate surface sensor
- Compact in size, located within operator's reach
- Saves time
- Increases repetitive accuracy
- Easily adapted to all AXYZ machines

The initial one-time setup of the S-Mouse(Function 330) saves to memory the thickness of the S-Mouse itself, the default depth of cut below the material and the default height of travel above the material. When material to be cut is placed on the table, it is necessary to program the table for the height of the material surface and also the material thickness. By placing the S-Mouse onto the material surface and selecting Function 84, the material surface is automatically sensed via the S-Mouse, you are then prompted for a manual entry of the material thickness and you are ready to cut. Function 84 would typically be carried out whenever material is placed onto the table of a different thickness or if a router bit is replaced for any reason. With these two functions, the router table becomes aware of the maximum depth of cut, the upper and lower surface of The material and the default height of travel above the material.



When working with multiple spindles, the S-Mouse operates in a similar fashion utilizing Function 25, 25.2, 25.3 etc... to determine the surface, relative to a particular spindle with great accuracy.

See the reverse of this sheet for specific operating instructions.



FUNCTION 330- 'S' Mouse Setup

The XYZ 'S' Mouse assists the user when setting-up the material surface, lift top and lift bottom.

Before the 'S' Mouse can be used it must be plugged into the side of the carriage and setup.

To activate the 'S' Mouse you must first do a Function 330 to setup all the required parameters.



Setup 'S' Mouse: YES

The first setting simply initiates the 'S' Mouse. Use the keypad +/- buttons to toggle this setting on and off.

(T1)SetSurface +00.000

With this setting you provide a reference surface to calculate the thickness of the 'S' Mouse. With a tool in the spindle touch off on a **solid** flat surface. It is important that the surface that you use is clean and flat because you will be using this surface for a reference so it has to be correct. Use the toggle key to slow down the head as it gets close to the surface so the you can touch off accurately.

Once you have touched off on the surface hit the enter key. The head will move up to allow you to place the 'S' Mouse under the tool.

Position 'S'

Now that the head is up, position the 'S' Mouse under the spindle, and hit the enter key.

Press Enter To Continue

Below Bottom: +0.00

This setting will now indicate how far into the waste board to cut. It must be a positive value.

Above Top: +0.00

This setting indicates how far above the material surface the head has to be when it is traversing from shape to shape. This value is always positive.

Saving to Flash

All the setting that have been setup will be saved to flash memory.

The 'S' Mouse it now ready to be used. To setup up the material surface, lift top and lift bottom. You can do a Function 4 or Function 84.



**Lift Bottom:
+00.000**

If you do either a Function 4 Function 8 or Function 84, you will be prompted for either the lift bottom or material surface. At this point you will position the 'S' Mouse on the material surface, under the spindle and hit the **start** button. The head will go down and touch off on the 'S' Mouse.

Thickness:00.000

When doing a Function 8 it will calculate material surface only. If a Function 4 is processed it will calculate the lift top and lift bottom. If all three settings are required Function 8 should be used. If a Function 4 or 8 is used you will now be asked for the thickness of the material on the table. Once this information have been keyed in hit the enter key. The material surface, lift bottom and lift top for Function 8 will now been setup. If Function 4 is use only the lift top and bottom will be setup.