Command:CNTS (C)

MS2000 or RM2000 syntax

Shortcut	C
Format	CNTS [axis] = [encoder counts per mm]...
Units	Encoder counts per mm
Remembered	Using SS Z

Tiger syntax

Shortcut	C
Format	CNTS [axis] = [encoder counts per mm]...
Units	Encoder counts per mm
Type	Axis-Specific
Remembered	Using [addr#]SS Z

Changes axis' encoder counts per mm. For example, doubling this number would cause a given number of mm to be converted internally to twice as many encoder counts as before. A command to move the stage 2 mm would instead cause it to move 4 mm. **MOST USERS DO NOT NEED THIS FUNCTION!** If your stage is not moving as expected try making sure the leadscrew pitch is set appropriately with the CUSTOMA command.

\begin{equation} Cnts = {(6.5536 * 107) \over d} \end{equation}

where d is the total range of movement in microns. For example, if the range of movement is -100um to +100um, then `d = 200`, and `Cnts = 327680`.

Note: For a piezo device, always set **CNTS** first, then limits (**SL** and **SU**) afterward.

Example:

```
C X=13490.4
:A
C X?
:X=13490.4 A
```

Changes the encoder constant on the X-axis to 13490.4 counts/mm. The default values for this parameter are restored upon reset and should not require user modification.

commands, tiger, ms2000