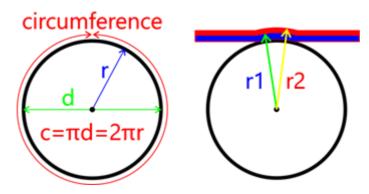


Media Length Calibration

Introduction

The Summa S One cutters are friction-feed machines. This means that the cutting length is dependent on the thickness of the material:



In above diagram, the red colored media is thicker compared to the blue media. The red media will feed further than the blue media for the same amount of revolutions of the drive drum.

The cutters have been calibrated in the factory for standard 2-mil cast or 3-mil calendared vinyl. Each user (the S One has a total of 4) can hold a different calibration factor.

This is very helpful for multi-colored signs; it ensures that the parts in different colors match up, even if different types of vinyl media are used.

NOTE: For standard use, it is not necessary to calibrate the machine. With standard vinyl the accuracy is within 0.2%. However if high accuracy between different vinyl and/or colors is needed, then calibration is necessary.

Calibrating the media (Length calibration):

 Power on the cutter, load media, and mount knife. Verify the knife settings (pressure and offset) to have good cutting quality.

NOTE: The wider and longer the loaded media, the more accurate the calibration will be. Use a piece of vinyl of maximum width and a length that is approximately 1.5 times the width.

 Summa nv
 Tel +32 59 27 00 11
 Fax +32 59 27 00 63
 Email <u>support@summa.eu</u>
 Website <u>www.summa.eu</u>
 Page 1 of 3



Summa nv Rochesterlaan 6 8470 Gistel Belgium

2. Click the button.



- 3. Scroll through the menu and click on [Calibrations].
- 4. Select the option [Length calibration].
- 5. The cutter will reload the media and perform the length calibration test: a cross is cut in the lower left corner of the media. Then a line with on both ends a triangle is cut. Then another cross is drawn in the lower left of the media, right on top of the previous cross.
 Only one cross should be visible. If not, then the machine does not correctly feed the media, which should be cured before proceeding.
- **6.** Lift the pinch rollers and take out the media.
- 7. Click to continue.

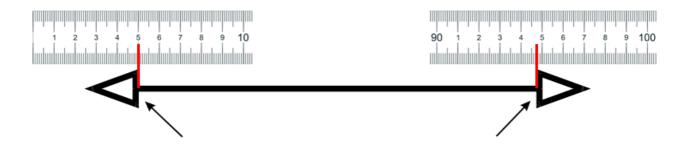


8. Measure the length of the cut line with a ruler (measuring device).

 Summa nv
 Tel +32 59 27 00 11
 Fax +32 59 27 00 63
 Email support@summa.eu
 Website www.summa.eu
 Page 2 of 3



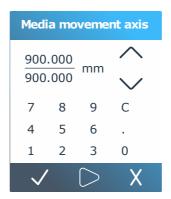
The length that has to be entered is the distance between the triangles as shown in the figure (excluding the triangles). For best accuracy do not use the start of the ruler for measuring the length of the line.



NOTE: The cutter will only be as accurate as the accuracy of the calibration. If the ruler (measuring device) is inaccurate, then re-calibrating may make the cutter's accuracy worse.

The accuracy of calibration will be directly reflected in the cuts. Set the cutter to Metric to do the calibration. It is more accurate than the English unit system.

9. A dialog is displayed to enter the measured length.



- 10. Use or to change the value on the display to the measured length of the distance between the two lines down the length of the vinyl roll, or enter the value using the numeric keys.
- 11. Press to confirm

Revised October 27, 2020

 Summa nv
 Tel +32 59 27 00 11
 Fax +32 59 27 00 63
 Email support@summa.eu
 Website www.summa.eu
 Page 3 of 3