

69040_screenshot_1

2.1.2 **SCREEN:** Show the design interface of the craft cutter software and demonstrate importing a microchannel design. 00:00-00:08

69040_screenshot_2

2.4.1 **SCREEN:** Click on the Send button to open the review and settings screen.

Demonstrate entering the specific cutting parameters—blade depth, force, number of passes, and speed—into the settings panel. 00:00-00:34

2.5.1 **SCREEN:** Show the final review screen and demonstrate clicking the Submit button to send the job to the craft cutter. 00:34-00:38

69040_screenshot_3

2.6.1 **SCREEN:** Show the design interface on the software as the donut-shaped gasket design is created or imported. 00:00-00:10

2.7.1 **SCREEN:** Demonstrate typing in the polyimide cut parameters in the craft cutter settings panel. 00:10-00:16

2.7.2 **SCREEN:** Show the click on the **Submit** button to begin the gasket cutting process. 00:16-00:19

69040_screenshot_4

2.11.1 **SCREEN:** Display the design process of the microchannel body within the craft cutter software or show importing the design. 00:00-00:08

2.12.1 **SCREEN:** Show the design page on the monitor and click on the **Send** button to access the settings review. Show clicking the **Submit** button to initiate the cut. 00:08-00:15

69040_screenshot_5

4.1.1 **SCREEN:** Show the software interface as the talent clicks and rotates the rectangle overlay to align with the microchannel. 00:00-00:04

4.1.2 **SCREEN:** Display the pop-up image window closing and reopening automatically after alignment is applied. 00:04-00:05

4.1.3 **SCREEN:** Demonstrate clicking and dragging to draw a square region centered at the capture point with dimensions matching the channel width. 00:05-00:12

4.1.4 **SCREEN:** Show the talent pressing any key and the image pop-up closing 00:12-00:13

69040_screenshot_6

4.2.1 **SCREEN:** Show the software extracting the blue channel pixel values from the cropped image. Display the inversion process, where the pixel values are subtracted from 255 and the resulting inverted image appears. 00:00-00:05

69040_screenshot_7

4.3.1 **SCREEN:** Show the software calculating the average inverted blue channel intensity from the pixel data. **TXT: Repeat for all remaining images** 00:00-00:02

4.3.2 **SCREEN:** Display the batch processing interface running image-by-image through the extraction and inversion steps. 00:02-00:04

69040_screenshot_8

4.4.1 **SCREEN:** Show the input of the intensity time series into the curveFitter interface. 00:00-00:08