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Color StyleWriter Pro: Vertical Lines Not Always Straight 11/94

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TOPIC -----

I have a Color StyleWriter Pro and looking very closely at the output, vertical lines don't appear perfectly straight. Every 1/4-in. or so, the line seems to "notch" over. The line looks like 1/4-in. line segments joined together to form the line. This only occurs with vertical lines.

Why this is happening?

DISCUSSION -----

The separation in the line segment is due to the print head being slightly tilted. You can think of the print head as having four parallel columns, each mapping to one of the CMYK colors, and each having 64 nozzles situated vertically. The nozzles, however, are not perfectly straight up and down but on a line that is slightly off from the 90-degree plane. Each column is around 1/4-in. in length, so to draw a vertical line all of the 64 nozzles fire (using the appropriate color) with each pass of the print head. So, the starting point of the top nozzle is slightly off from the dot left by the bottom nozzle's previous pass. This is what you are seeing.

In terms of getting a perfectly straight vertical line, we have found that using "BEST" mode shows very little trace of this problem.

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