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Stylewriter: Printed Box is Too Short (5/93)

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TOPIC -----

When I create a 7.5 x 10.0 inch box in any graphics application and print it on my StyleWriter II, the printed box only measures 7.5 x 9.95 inches on the page. In contrast, the HP DeskWriter prints the same image at 7.5 x 10.0 inches.

What causes this?

DISCUSSION -----

The .5 percent reduction in page length occurs because the StyleWriter II, as well as the original StyleWriter, utilize paper underfeeding to prevent horizontal banding. Paper underfeeding, in effect, overlaps each print head pass to create a "blending effect" of the printed lines. The drawback, however, is that this minute underfeeding has a cumulative effect over the length of the page and thus results in the .5 percent discrepancy in page length.

The HP DeskWriter also utilizes paper underfeeding, but it has a smaller cumulative effect since it is a 300 dpi printer. At 300 dpi, the dot size is correspondingly larger and thus requires fewer print head passes to print an image. This gives less cumulative underfeeding.

Since the original StyleWriter and the StyleWriter II are 360 dpi printers, their dot size is smaller and so requires more print head passes to create a page.

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