

Technical Sample

How can you best optimize your halftoning output speeds?

Match your screen ruling to your resolution setting

All of the halftones on this page are at a 45 degree screen angle and around a 150 line per inch screen ruling (exact information below.) All were output on a Linotronic* 330 imagesetter with a RIP 30 over Ethernet**. Each halftone is based on the same 1.2 MB, 300 dpi, 8 bit grayscale scan. Because each image was set at a different resolution, each one was timed and output separately, and later manually stripped into the same page. The blends have been included to illustrate the quality requirements of synthetic artwork. The important thing to note is that output time decreases along with resolution, but at the same time the levels of gray decreases as well. Speed therefore must be balanced with quality.

Upper left hand image:

149.67 screen ruling, 635 resolution,
19 levels of gray
Output time = 1 min. 6 sec.

Upper right hand image:

149.67 screen ruling, 1270 resolution,
73 levels of gray
Output time = 1 min. 23 sec.

Lower left hand image:

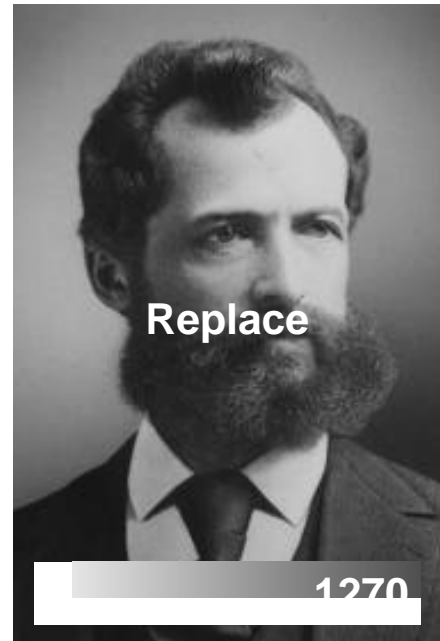
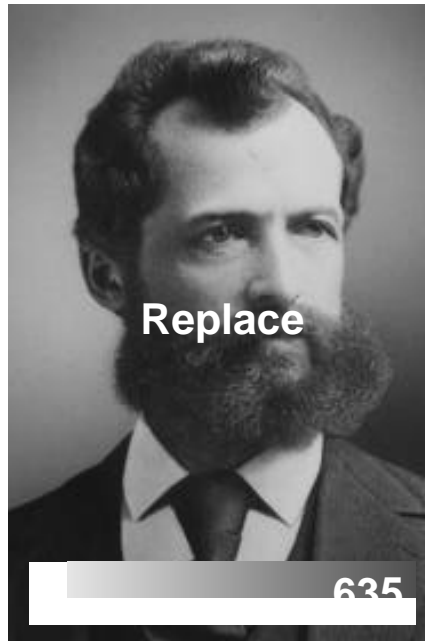
143.68 screen ruling, 2032 resolution,
201 levels of gray
Output time = 2 min. 7 sec.

Lower right hand image:

149.67 screen ruling, 2540 resolution,
289 levels of gray
Output time = 2 min. 32 sec.

For more information, ask your
Linotype-Hell representative for the
technical information article on
Resolution and Screen Ruling.

© 1991 Linotype-Hell Company. All rights reserved.
*Linotype and Linotronic are registered trademarks of Linotype-Hell AG
and/or its subsidiaries. **Ethernet is a registered trademark of Xerox
Corporation. All other company and product names are trademarks or
registered trademarks of their respective owners.
Part number 3051, 11/91.



Linotype-Hell