

Transforming the image of print



Auraia DM Screening



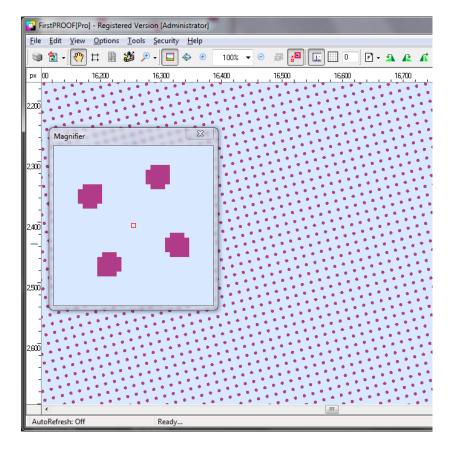
Ink savings with FM

- Proven in various studies that FM (stochastic) screening saves ink
- See http://www.printing.org/page/8736
 Printing Industries of America Graphic Arts Trade Association
 Effect of AM Versus FM Screening on Ink Consumption on a Sheetfed Offset Lithographic Press
- See http://qualityinprint.blogspot.com/search/label/ink%20saving
 Quality in Print Blog Gordon Pritchard, former Print Quality Marketing Manager for 11 years at Creo/Kodak
 Using FM Screening for ink savings
- FM screening can produce ink savings of up to 15%
- DM screening can produce ink savings of up to 30%
- FM screening typically produces ink savings of 3-4%
- DM screening typically produces ink savings of 17-18%



Dot Structure (AM)

Uses Large(r) Dots



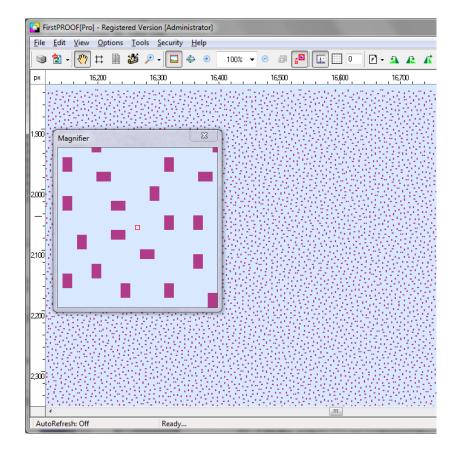
10% tint



Dot Structure (DM)

Uses Small(er) Dots

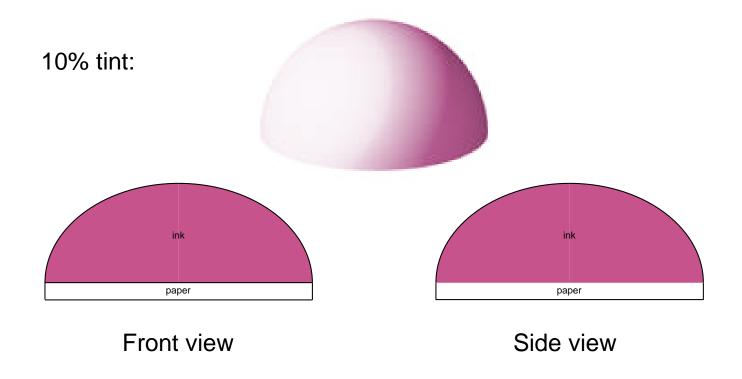
Smaller Dots Than AM



10% tint



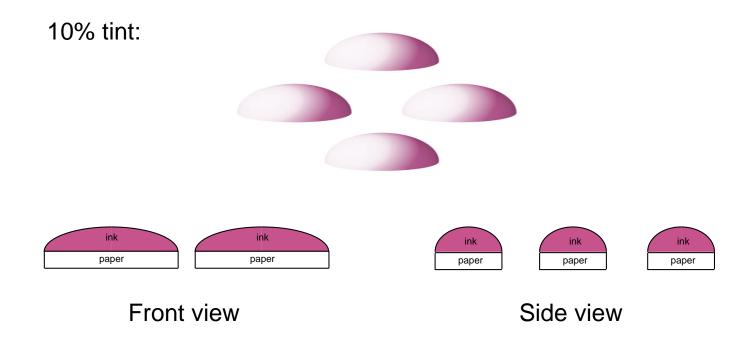
Ink Volume (AM)



Large dots accumulate ink - large volumes of ink



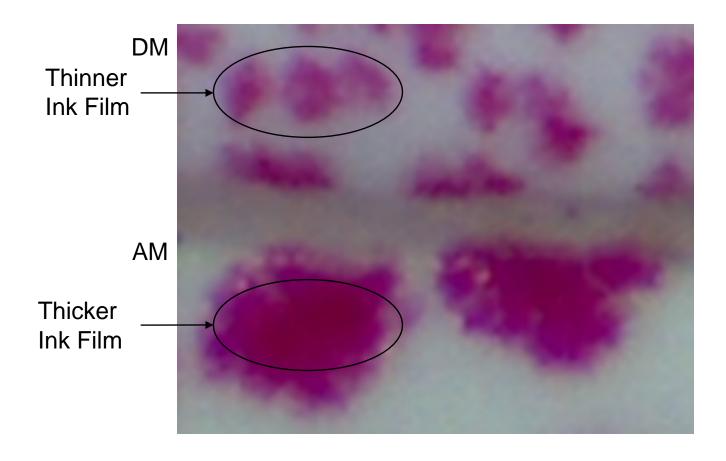
Ink Volume (DM)



Smaller dots limit ink film thickness – small volumes of ink



Ink Thickness (AM vs DM)





Ink Saving (AM)

Magenta ink filters green wavelengths from white light

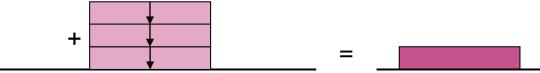
Filters 30% of light, aka 30% Magenta



Filters 30% of (remaining 70% of light), aka 51% Magenta



Requires >2.0 units of ink to produce 60% Magenta

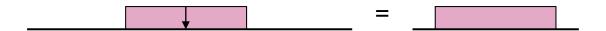


Ink Saving (FM)

[HDS / Staccato / Randot X / Satin¹]

Magenta ink filters green wavelengths from white light

Filters 30% of red light, aka 30% Magenta



Between DM and AM, aka 55% Magenta



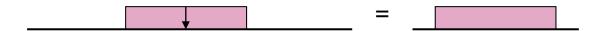
Requires >2.0 units of ink to produce 60% Magenta



Ink Saving (DM)

Magenta ink filters green wavelengths from white light

Filters 30% of light, aka 30% Magenta



Filters 30% of light, twice, aka 60% Magenta



Requires 2.0 units of ink to produce 60% Magenta





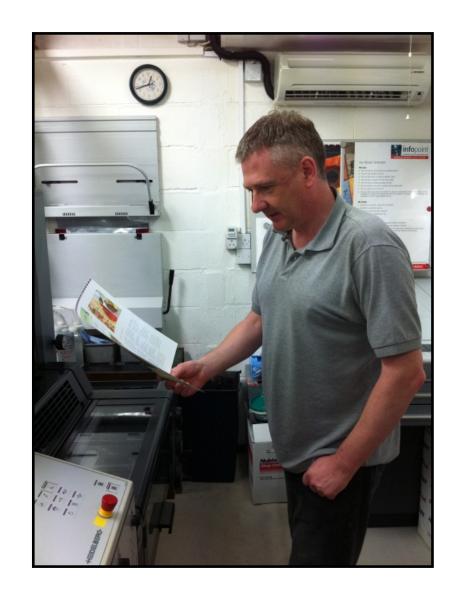
Cost Benefits (DM)

"We have stored ink profiles [ink duct settings] for jobs that were previously printed with conventional [200 lpi¹] halftone screens.

Since changing to Auraia, I have been able to reduce those ink profiles by between 15-20%, whilst still maintaining solid ink densities.

Needless to say, my M.D. was delighted to hear this, as it translates into real cost savings."

 Rod Clark, Press Minder Parkes Print Group





Conclusion

- Auraia produces significant ink savings
- Auraia produces higher ink savings than FM screening
- Auraia produces ink savings with stable dots (easy to plate / print)
- Auraia saves money on ink when printing
- Auraia is the future for printers who want to increase profit



For further information, contact:

auraia@hamillroad.com

