

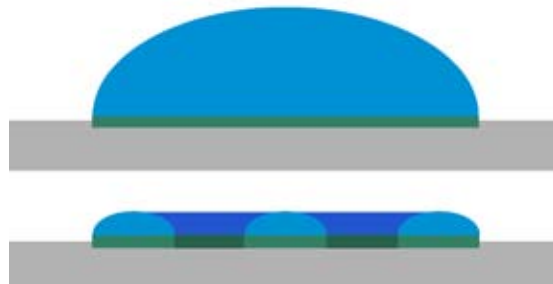
Concentric Screening

The future of offset printing

Concentric Screening is a revolutionary and proven halftone dot technology for offset printing. It divides the conventional round dot into thin concentric rings.

This means:

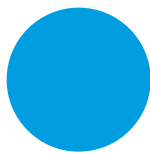
- Greater color purity
- Larger color gamut
- Greater press stability
- Ink savings
- Higher screen rulings
- Sharper images (more detail)
- Smoother tints and vignettes



Side view: ink on offset plate

Ink film thickness on offset plates is proportional to element size. Large solid screen dots (top) carry thick films of ink. Thin ring Concentric dots (bottom) carry thin films. Because ink film thickness is limited by ring width, Concentric Screens increase press stability, provide cleaner colors, and reduce ink consumption - more than 15% on average.

Concentric Screening splits the dots into rings



Conventional dot



Concentric dot

Rings limit the ink film thickness

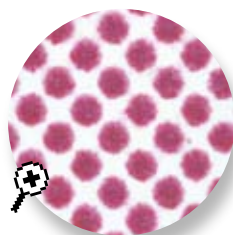


175 lpi Normal dot



175 lpi Concentric dot

Better color saturation



175 lpi Round dot



175 lpi Concentric dot