EagleRIP Flexo 5

Contents

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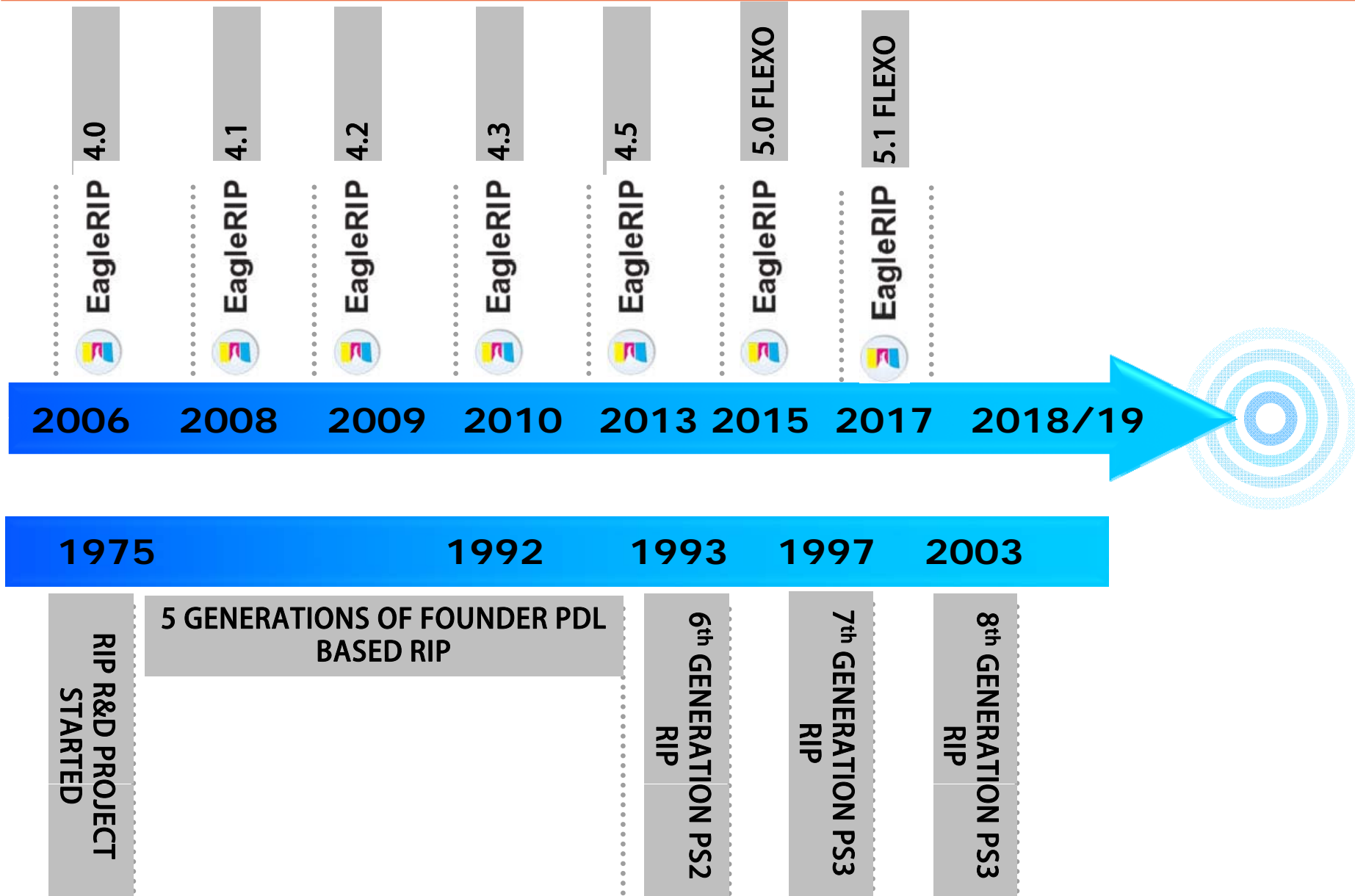
- Milestones
- Facts & Figures
- Key Features
- System Requirements
- Packs and Configuration

Milestones

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					5.0 FLEXO	5.1 FLEXO
4.0	4.1	4.2	4.3	4.5		
EagleRIP	EagleRIP	EagleRIP	EagleRIP	EagleRIP	EagleRIP	EagleRIP

2006	2008	2009	2010	2013	2015	2017	2018/19

1975		1992	1993	1997	2003

RIP R&D PROJECT STARTED	5 GENERATIONS OF FOUNDER PDL BASED RIP	6th GENERATION PS2 RIP	7th GENERATION PS3 RIP	8th GENERATION PS3 RIP

Facts and Figures

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- Impressive price/performance
- 25,000+ installations globally
- Proven technology and reliable performance
- SDK (Software Developer's Kit) available for OEM developers
- SDK supports cross-platform kernel: PC, Mac, Linux & UNIX

Facts and Figures

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EagleRIP Flexo =

EagleRIP

- PostScript 3/PDF 1.7
- 1-bit TIFF export
- Tifflow plugin for 1-bit TIFF Post-RIP imposition workflow solution
- Powerful Ganging & Preview
- More than 10 offset printing dot shapes screenings
- Cloud licensing authorization

+

Functions and Figures for Flexo printing

- FlexoRound Screening
- FlexoRound Balance Screening
- Miracle Cell Technology
- RealDot Viewer

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EagleRIP

- PostScript 3 and PDF 1.7 RIP interpreter
- 1-bit/8-bit TIFF output
- TIFFlow support
- More than 10 offset printing dot shapes
  - EagleFAM (FM & AM hybrid screening)
  - EagleFM (2nd order FM screening)
  - EagleAM-F (high frequency screening for newspaper)
  - EagleAGS (gravure printing screenings)

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Flexo Features

- FlexoRound Screening (pure round screening)
- FlexoRound Balance Screening (adopt different dot sizes on highlight)
- Miracle Cell (increase ink density on shadow)
- RealDot Viewer (ensure screening dot quality)
- Powerful Ganging (highly efficient to save media)

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Enhanced PDF interpretation

- Founder's latest RIP technology with the native PDF interpreter which interprets PDF file directly

- Support PDF 1.7 features including
  - transparency, embedded ICC Profiles, 128-bit encryption, JPEG2000 filter and more

- Improved compatibility of PDF file processing

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1-bit TIFF output

- EagleRIP Flexo provides standard 1-bit TIFF output which is accepted by most TIFF downloader software

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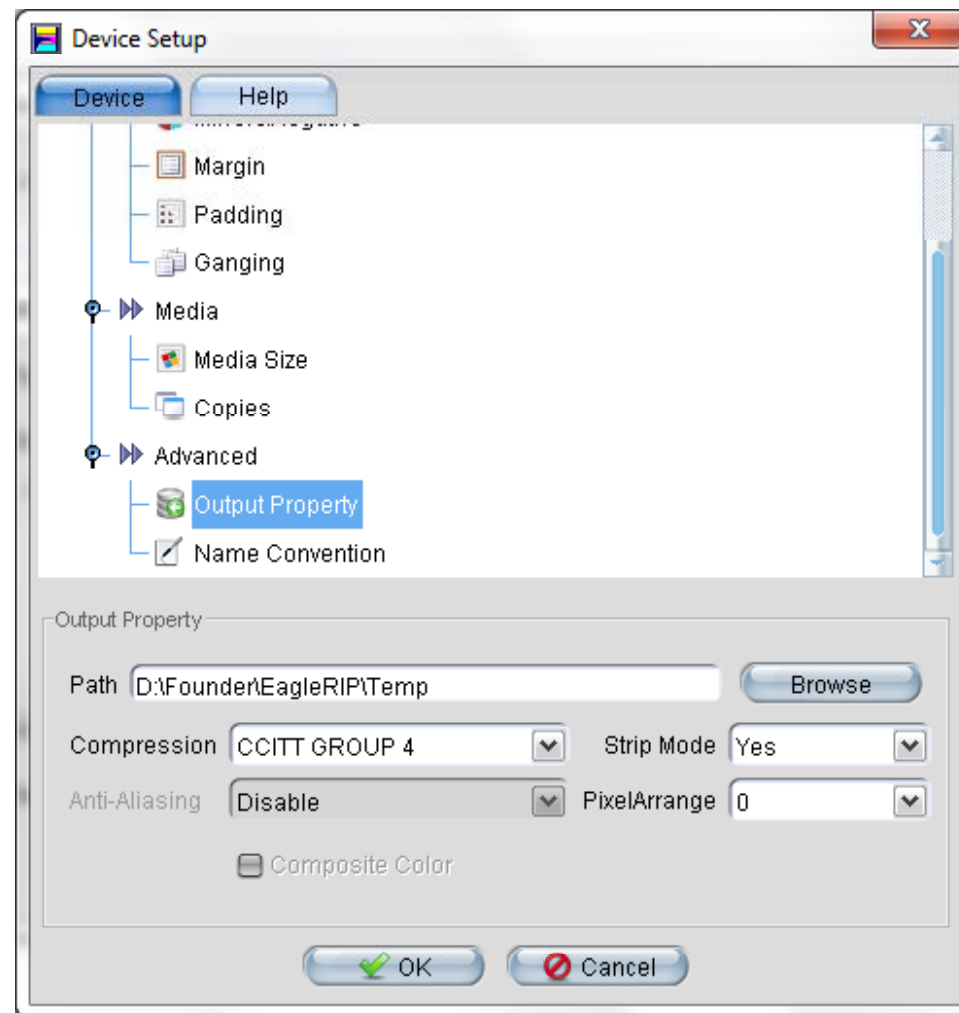
Powerful preview

- Easy switch from separate to composite

Click K

Click K&C

Click K,C,M

Click K,C,M,Y

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Powerful preview

- **Navigating preview**

➢ Selectable area on the page under navigation mode to preview the dot
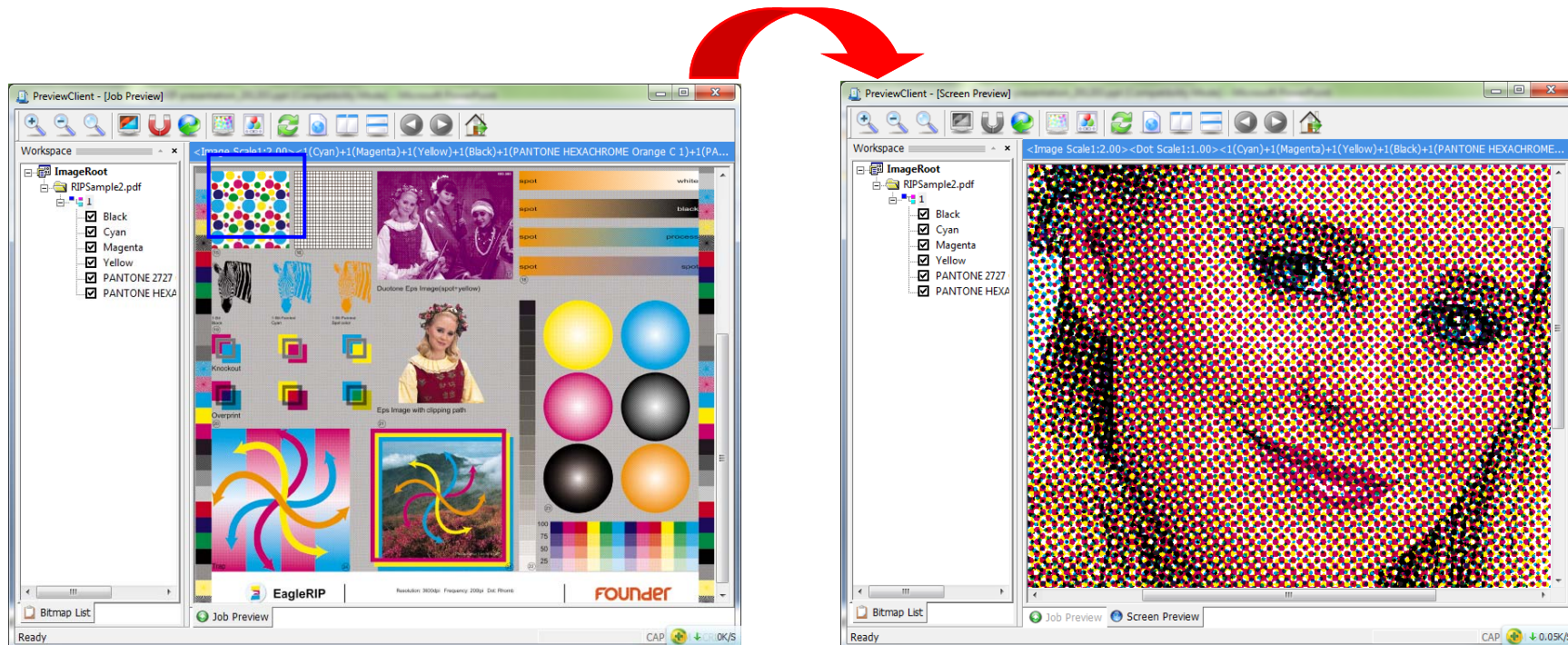
- **Automatic Ganging**
- **Flexible Manual Ganging**
  - Crop and Overlap
- **1-Bit TIFF Post-RIP Ganging**

Automatic Ganging

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More faster

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More flexible
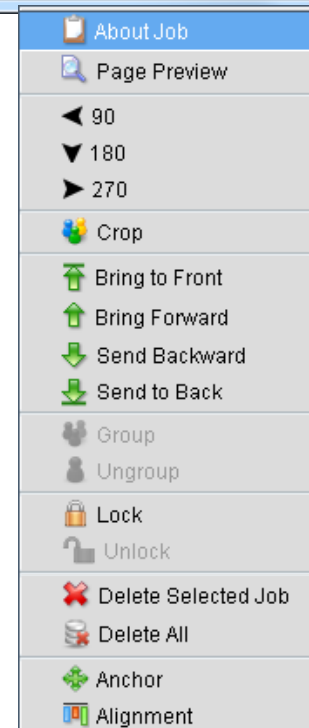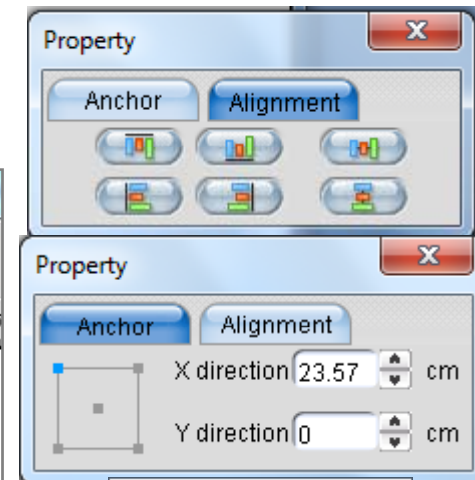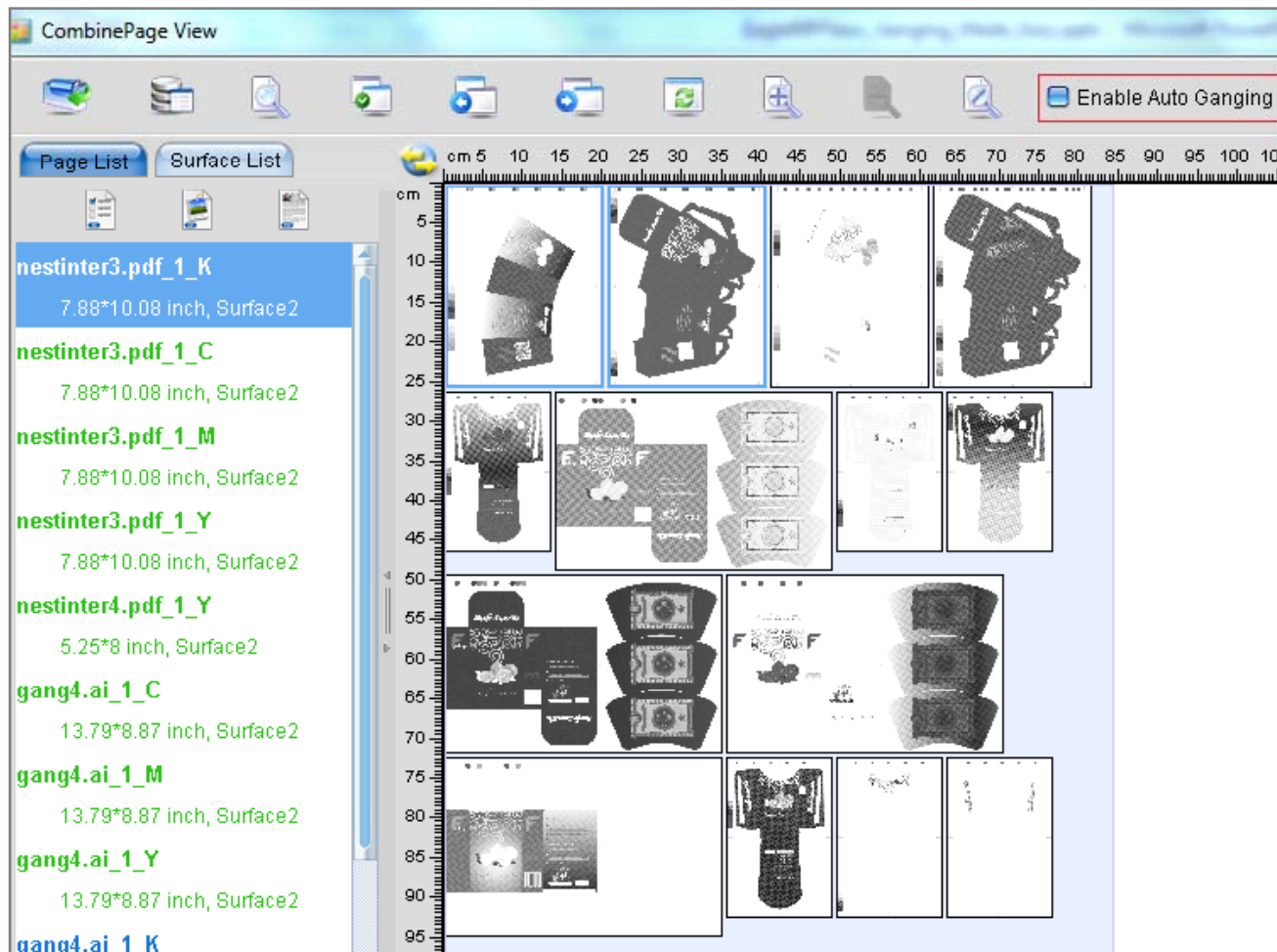
Manual Ganging

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Crop

Before

After
Save: 24%

Overlap

Before

About Job	
Page Preview	
◀ 90	
▼ 180	
▶ 270	
Crop	
Bring to Front	
Bring Forward	
Send Backward	
Send to Back	
Group	
Ungroup	
Lock	
Unlock	
Delete Selected Job	
Delete All	
Anchor	
Alignment	
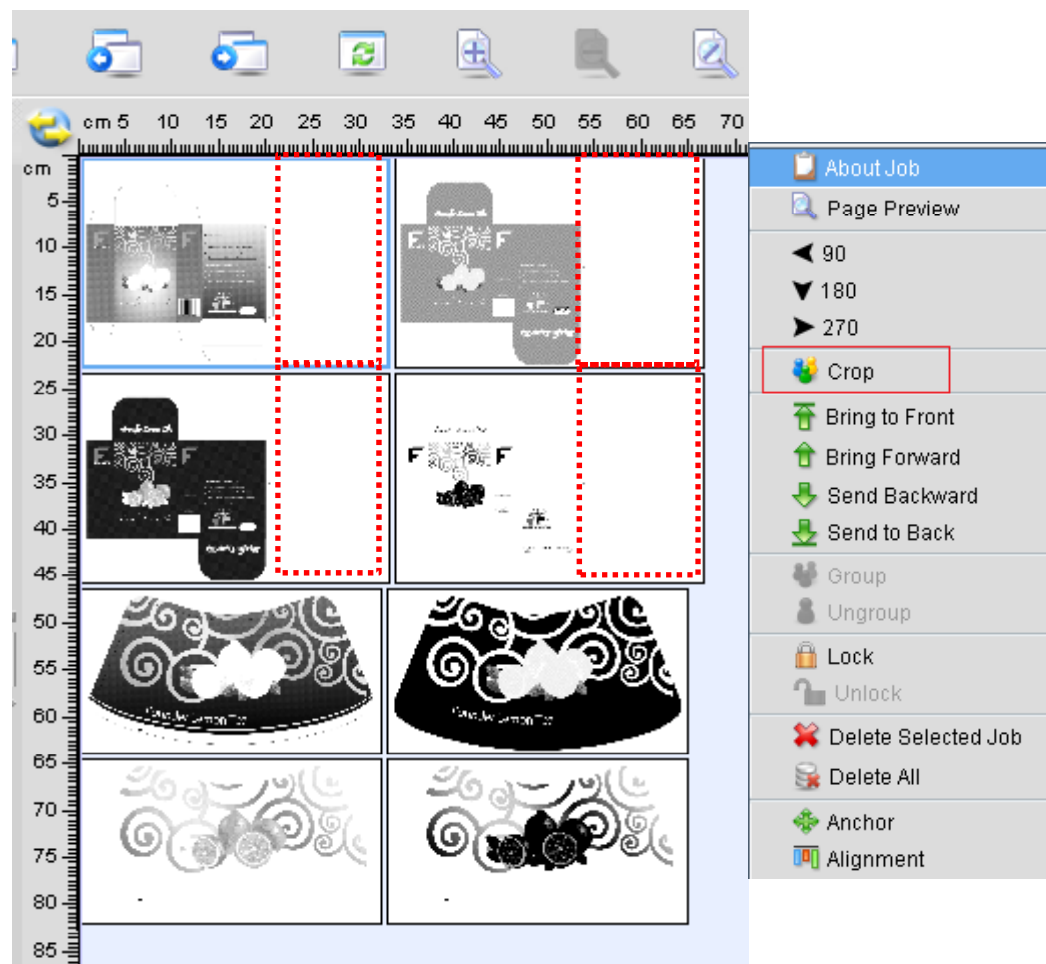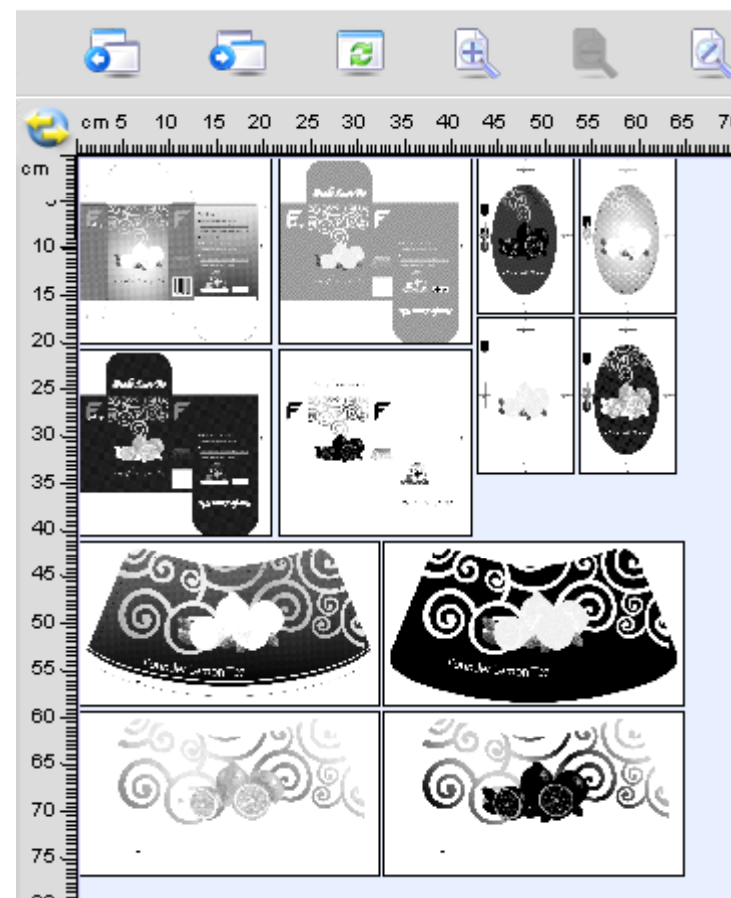
After

Save: 25%
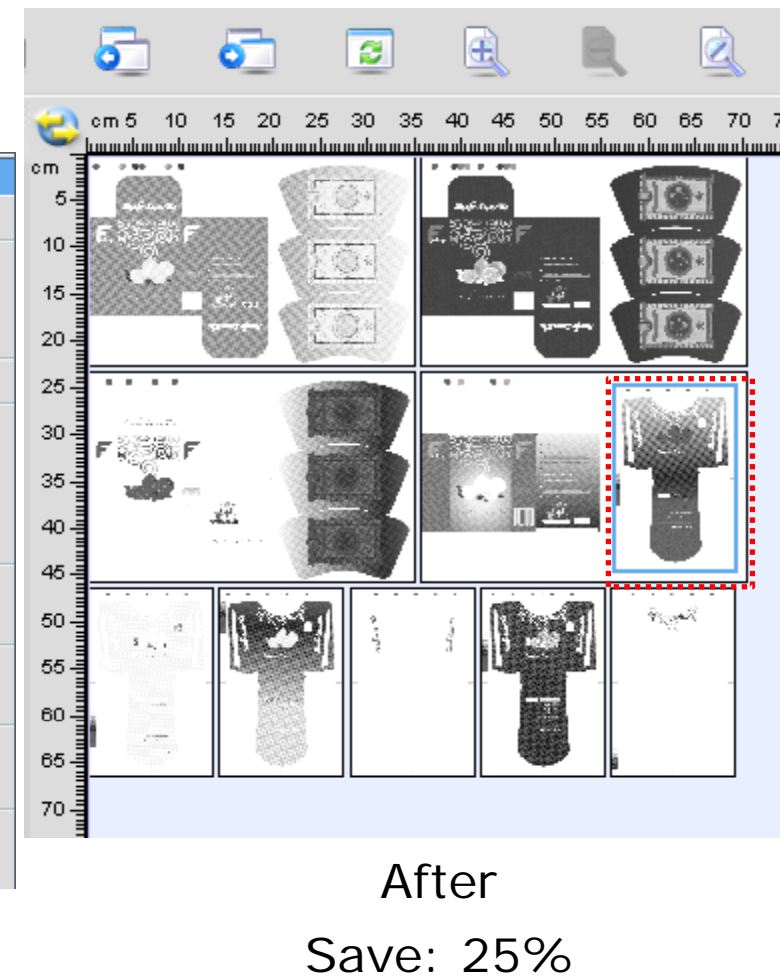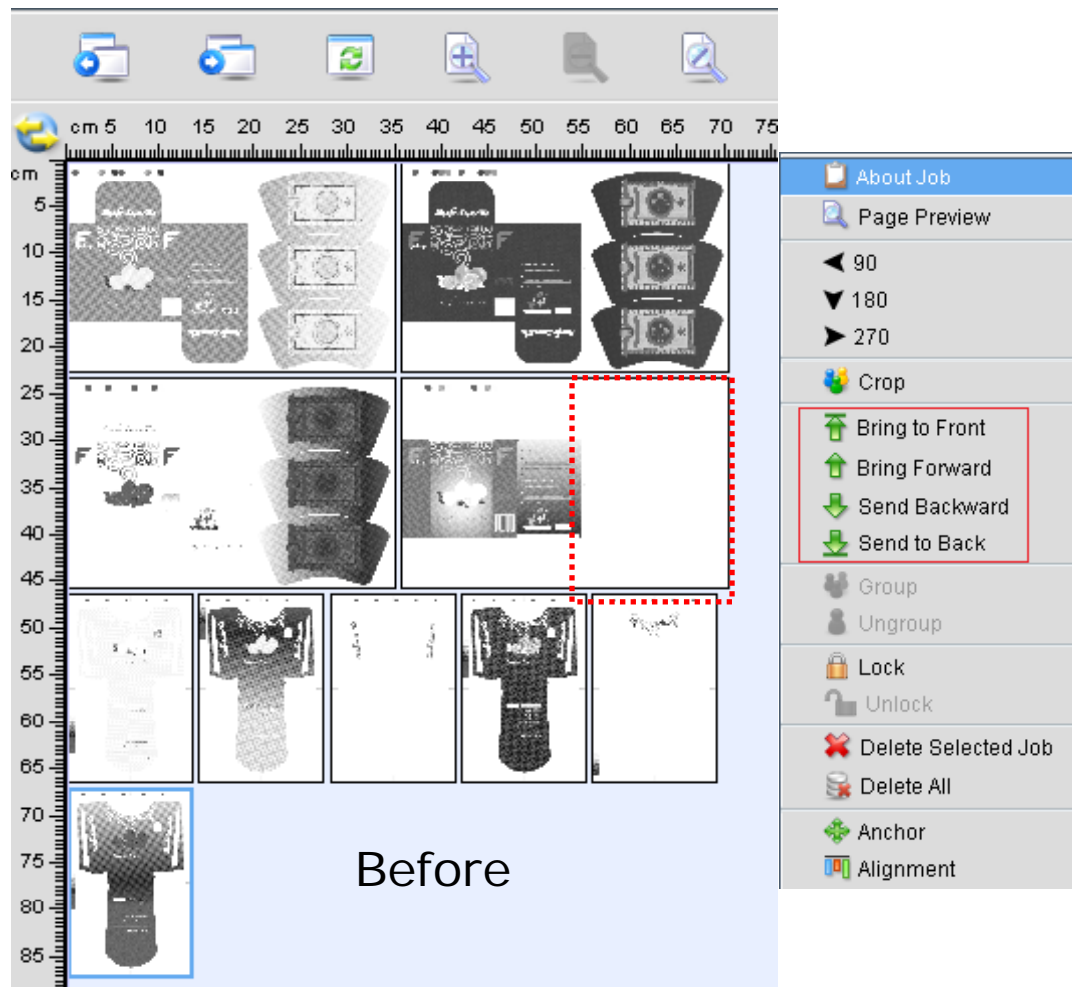
Manual Ganging

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Step & Repeat
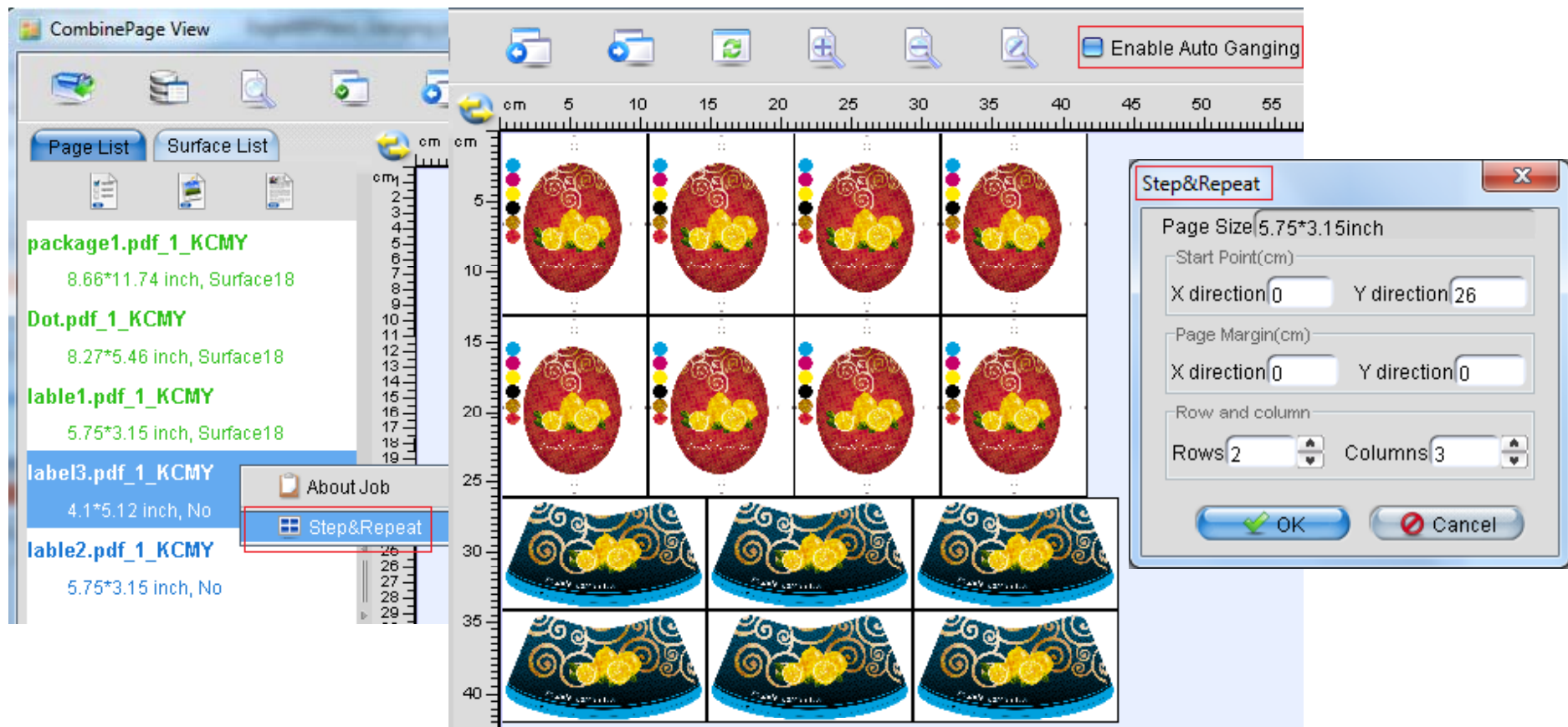
Spot color tools

- Combines two or more spot colors into one spot color.
- Removes specified spot colors
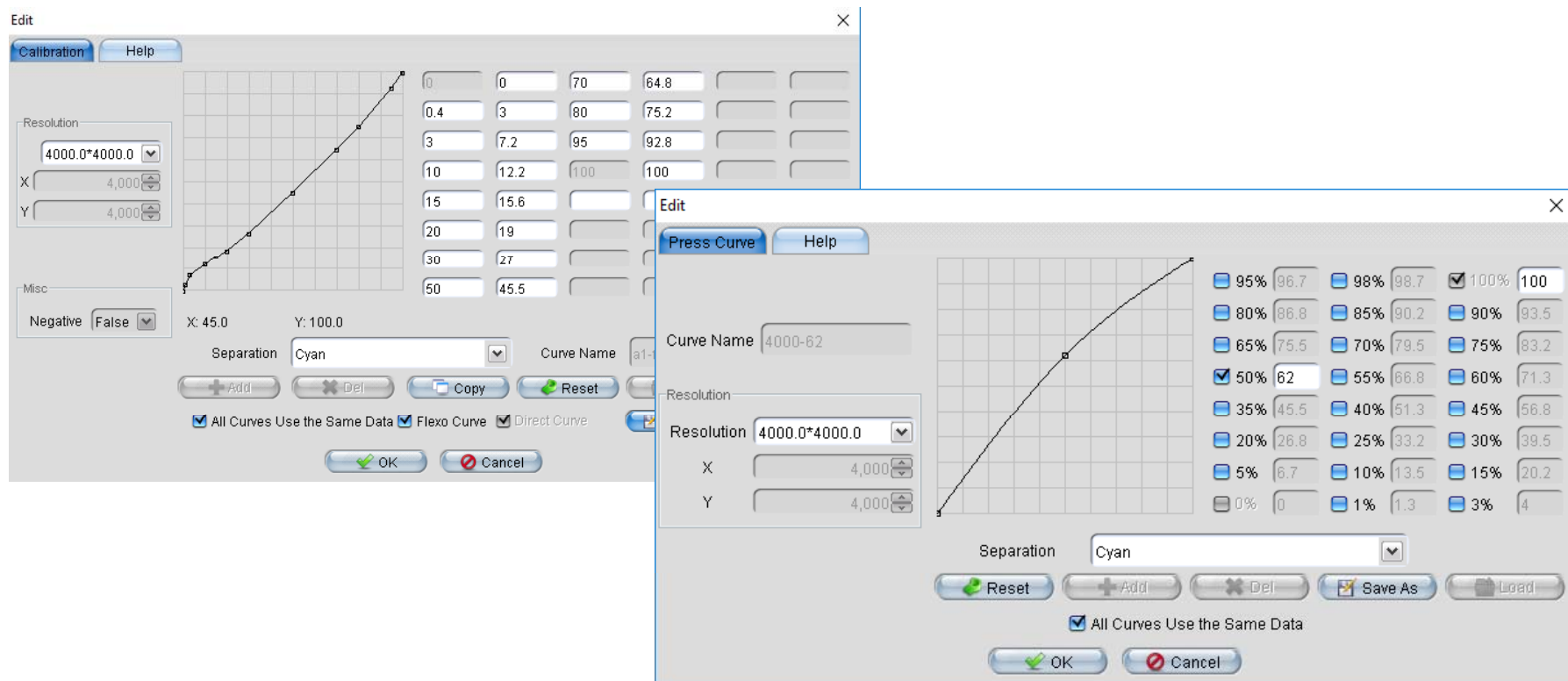- Specify the different angle for some spot color
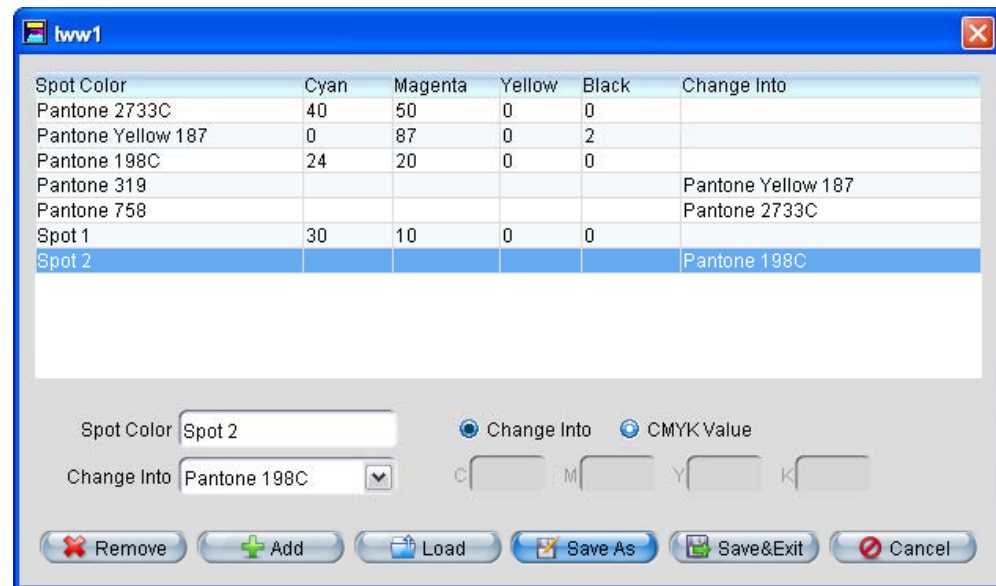
Key Features

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Calibration Tools

- Flexo CTP curve: adjust highlight dot
- Adjust plate linearization
- Adjust dot gain on press machine

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EagleRIP screening samples (1)

- Offers 9 built-in dot shapes including Round, Ellipse, Rhomb, Diamond, Square, PureRound, SharpEllipse, Cross and Founder FM

Round (Euclidean Round)

Rhomb

Ellipse

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EagleRIP screening samples (2)

Diamond

Pure Round

Sharp Ellipse

Square

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EagleRIP screening samples (3)

Gravure

Founder FM (First Order)
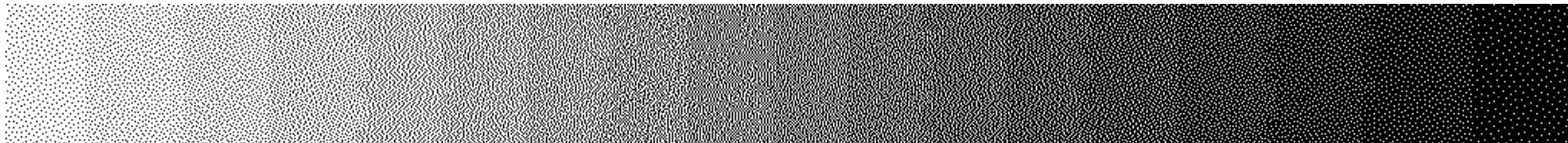
- The first 8 dot shapes are conventional Amplitude Modulated screen dot shape

- "Founder FM (First Order)" is Frequency Modulated dot shape

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Screening — EagleFAM add-on option (i)

- EagleFAM is AM and FM hybrid screening which is developed specifically for CTP production and represents a breakthrough in quality.

- Overcomes the weaknesses and exploit the strengths of both traditional AM and FM screening.

- EagleFAM employs Founder AM screening (7.5 degree offset) for midtones, easily achieving high quality with or above 340LPI even under low resolution without extra work on press.

- For highlights and shadows which are difficult to reproduced, EagleFAM adopts Founder FM screening, the dots align along existing Founder AM angles. This prevents FM dots from being noisy in some area and makes the dots look smooth and clean.
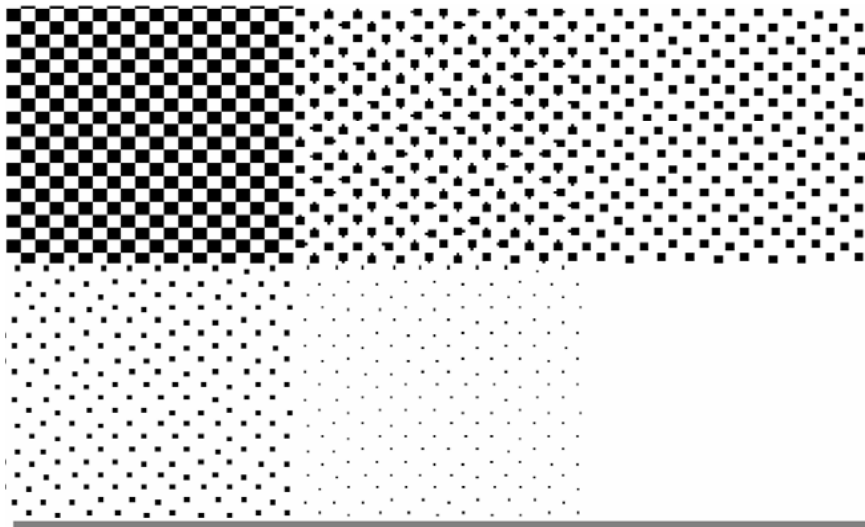
Screening - EagleFAM add-on option (ii)
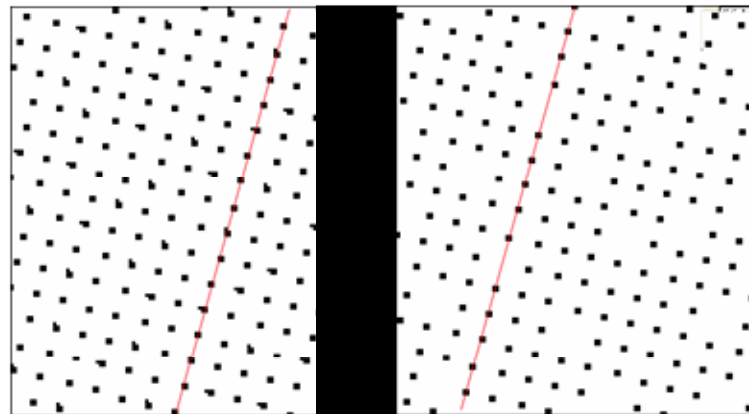

AM　　　　　　**FM**

Although the FM dots at highlights or shadows appear to be random, the dots still align along the existing AM angles.

Screening - EagleFAM add-on option (iii)

- Adjust the area of FM dots according to the smallest reproducible dot your press can deal with.

- When EagleFAM dot reaches the smallest and easiest printable dot for the press, the dots will not be smaller.
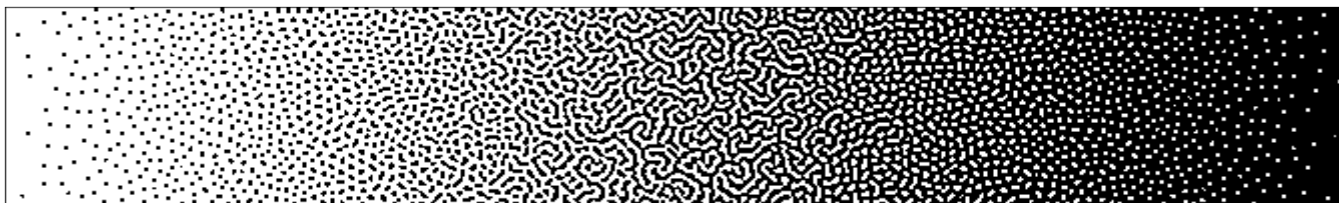

Founder AM
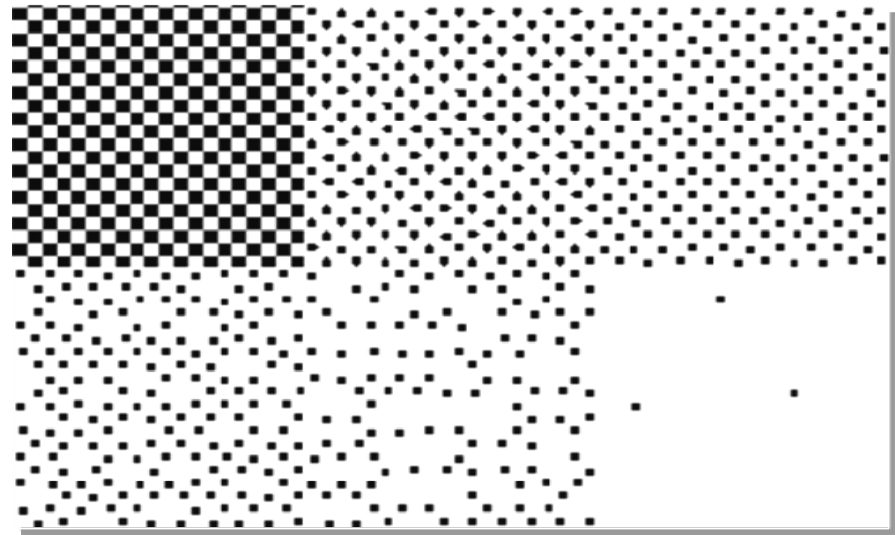
Founder EagleFAM

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Screening - EagleFM add-on option

- Base on green noise FM technology

- Second order FM technology
  --Uses variable dot size and variable spacing
  --Control the randomicity of dots.

First order (Traditional FM screening)
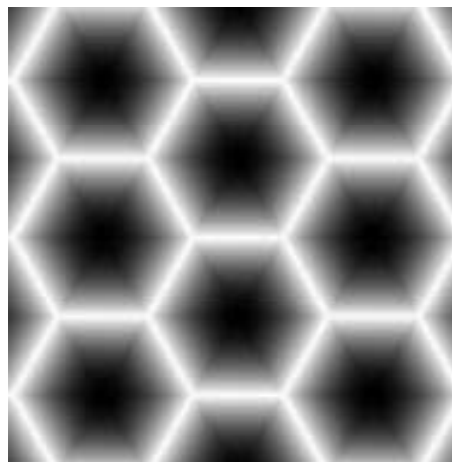
Second order (EagleFM screening)

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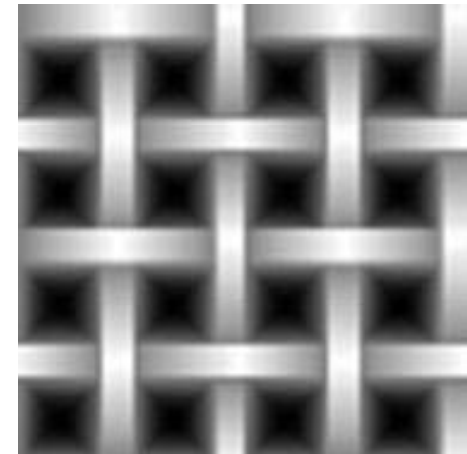# Screening - EagleAGS add-on option
(Accurate Gravure Screening)

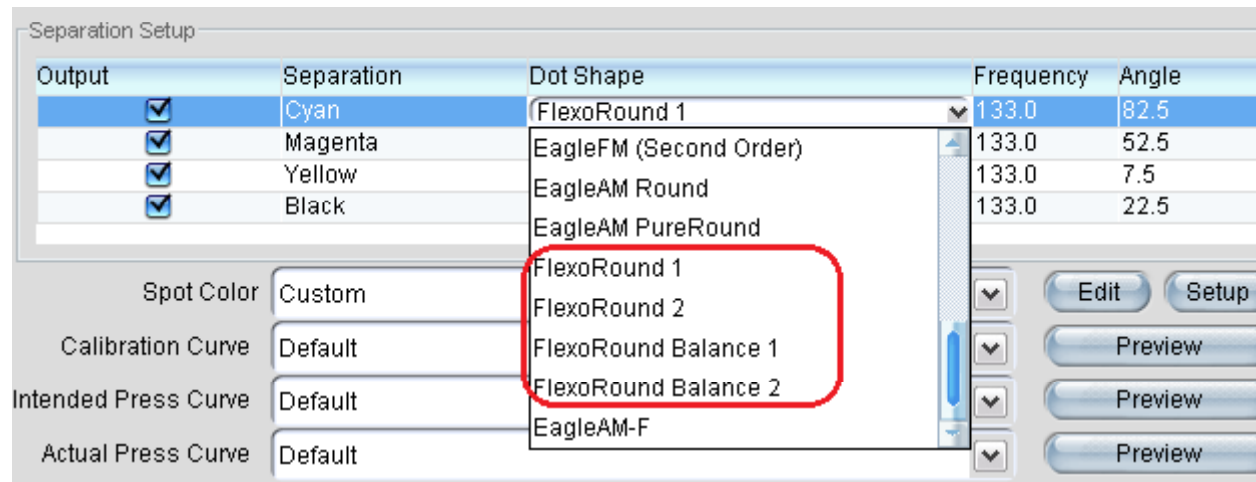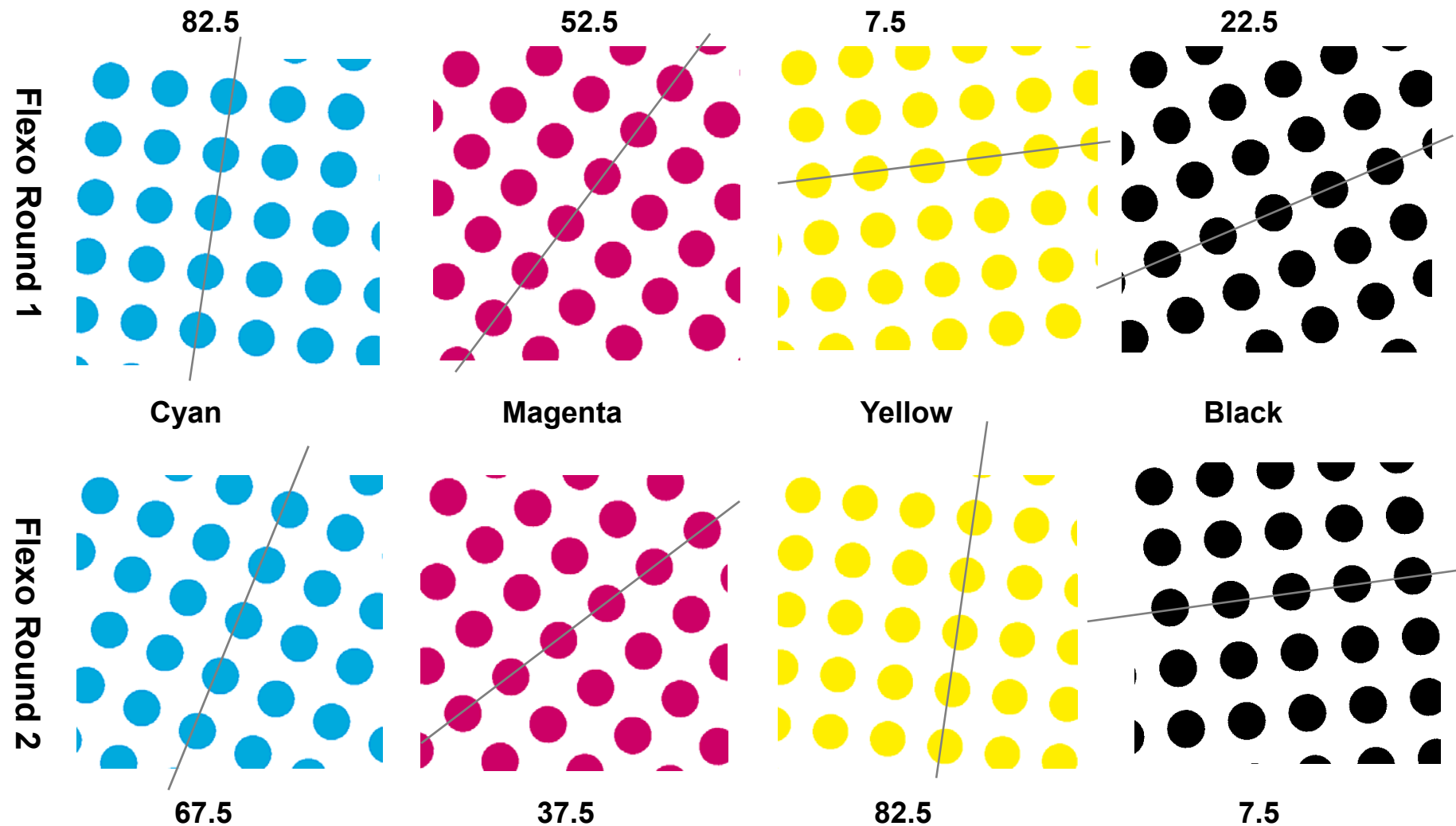| Pin Cushion	Hexagonal	T-Shape
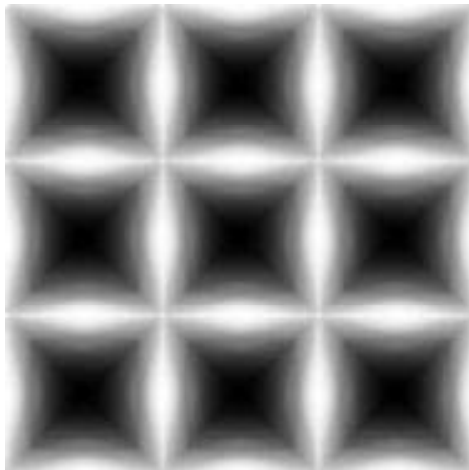
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Flexo Screening

- ✓ FlexoRound1, FlexoRound2
- ✓ FlexoRound Balance 1, FlexoRound Balance 2

Common Ground

- ✓ Pure Round
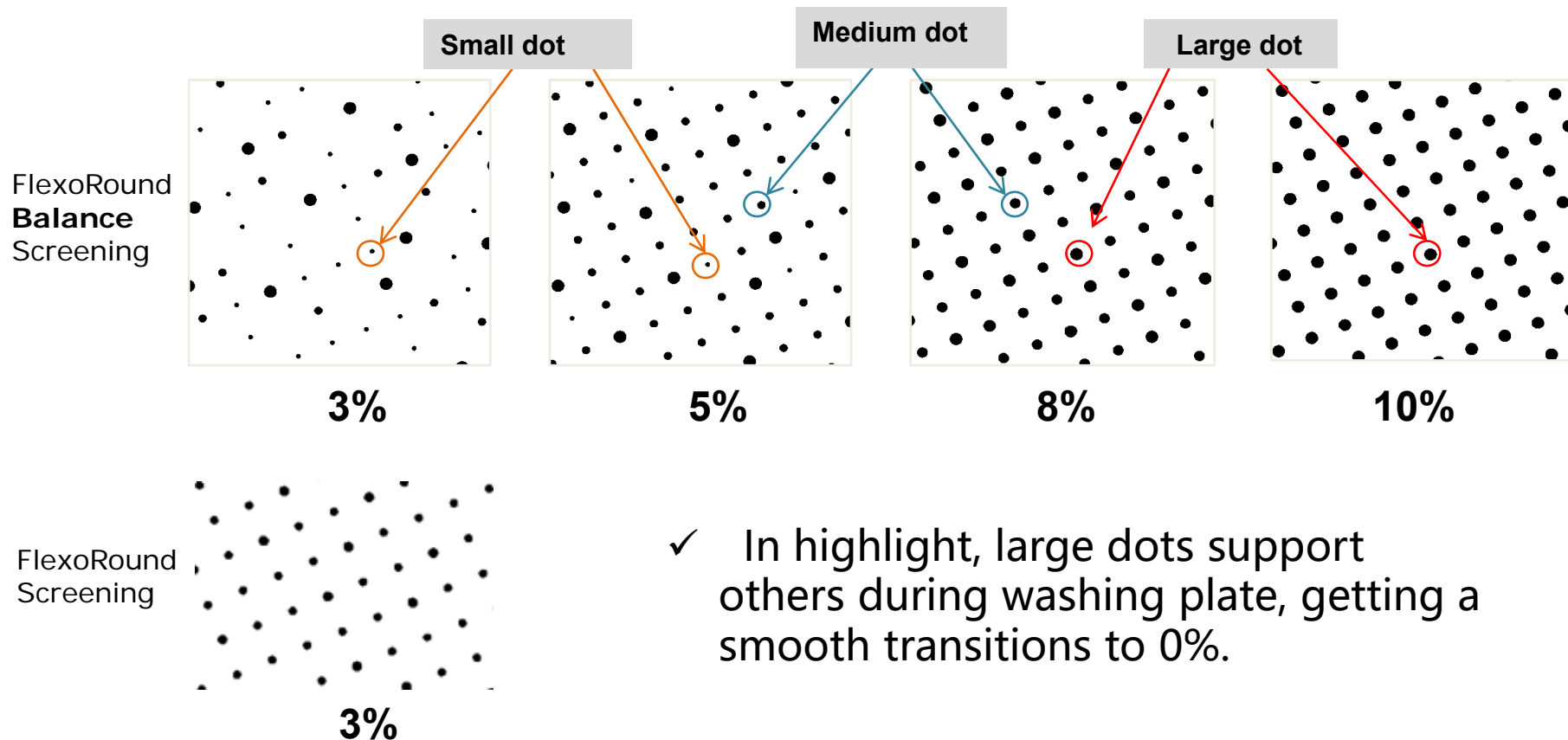- ✓ 7.5 degree shift
- ✓ Miracle cell

Key Features

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FlexoRound Screening

	82.5	52.5	7.5	22.5
Flexo Round 1	Cyan	Magenta	Yellow	Black
Flexo Round 2	67.5	37.5	82.5	7.5

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FlexoRound Balance Screening

✓ On the highlight area, adopt different dot sizes – small, medium and large, to increase gray level .

Small dot | Medium dot | Large dot

FlexoRound **Balance** Screening

3%   5%   8%   10%

FlexoRound Screening

3%

✓ In highlight, large dots support others during washing plate, getting a smooth transitions to 0%.

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FlexoRound Balance Screening

Plate A — One dot size on highlight, there is no supporting among dots.

Plate B — All dots of small, medium and large support each other while washing and printing.

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Miracle Cell

✓ Increase ink density on shadow area in flexo printing.

Output	Separation	Dot Shape	Frequency	Angle
☑	Cyan	FlexoRound 1	133.0	82.5
☑	Magenta	FlexoRound 1	133.0	52.5
☑	Yellow	FlexoRound 1	133.0	7.5
☑	Black	FlexoRound 1	133.0	22.5

90%   100%
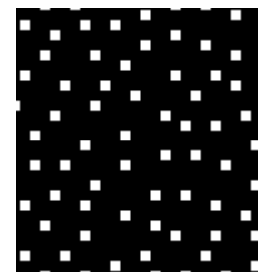
FOUNDER 方正
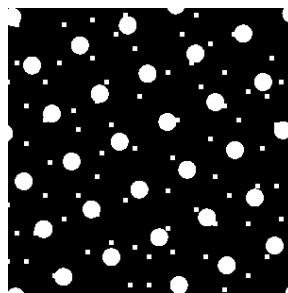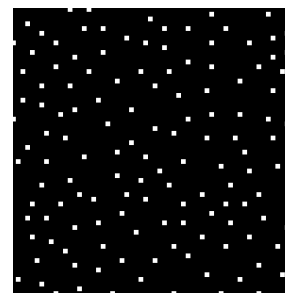
Miracle Cell

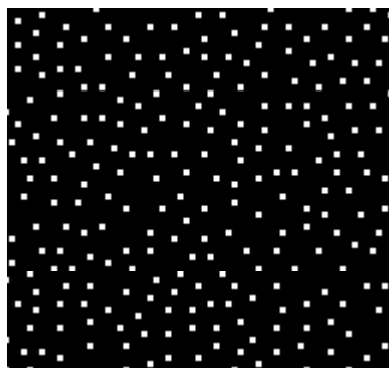✓ Size of miracle cell
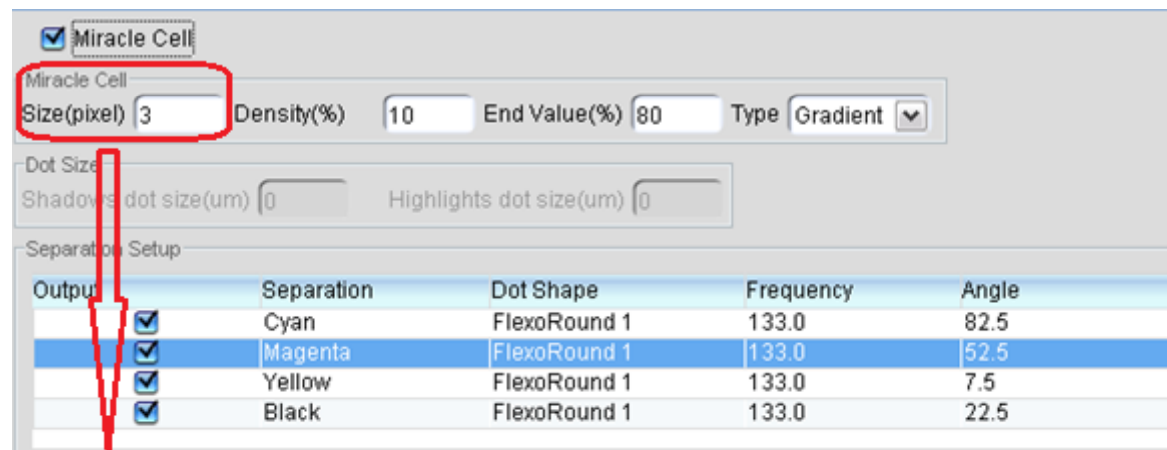
Size=1pixel
5080dpi
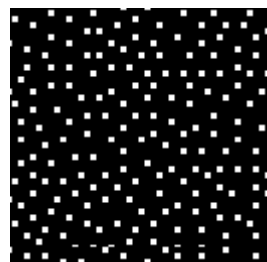
Size=3pixel
5080dpi

Size=5pixel
5080dpi

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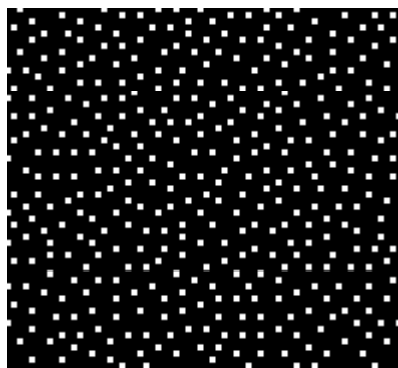## Miracle Cell

✓ Different miracle cell density settings
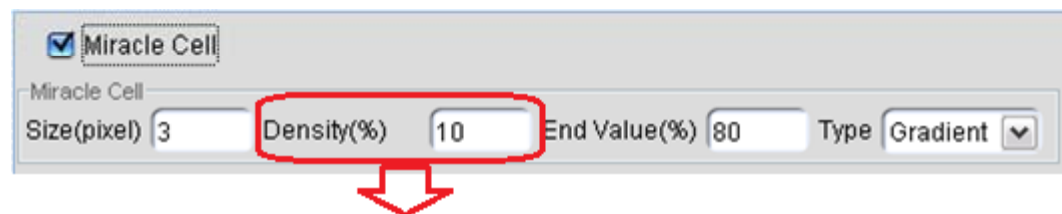
Density: 6	Density: 10	Density: 15
100%	100%	100%
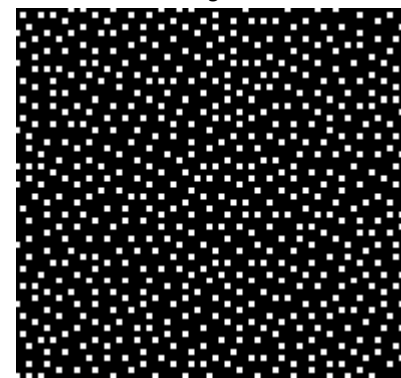
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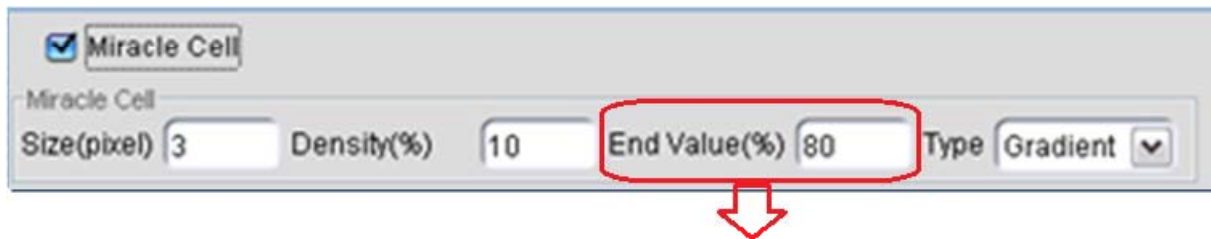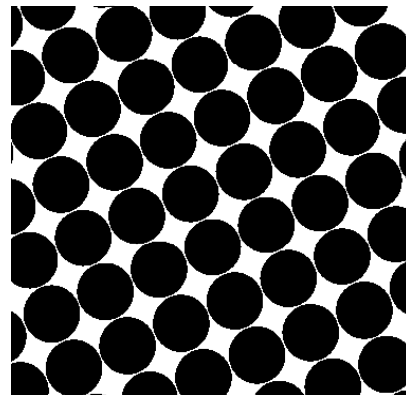## Miracle Cell

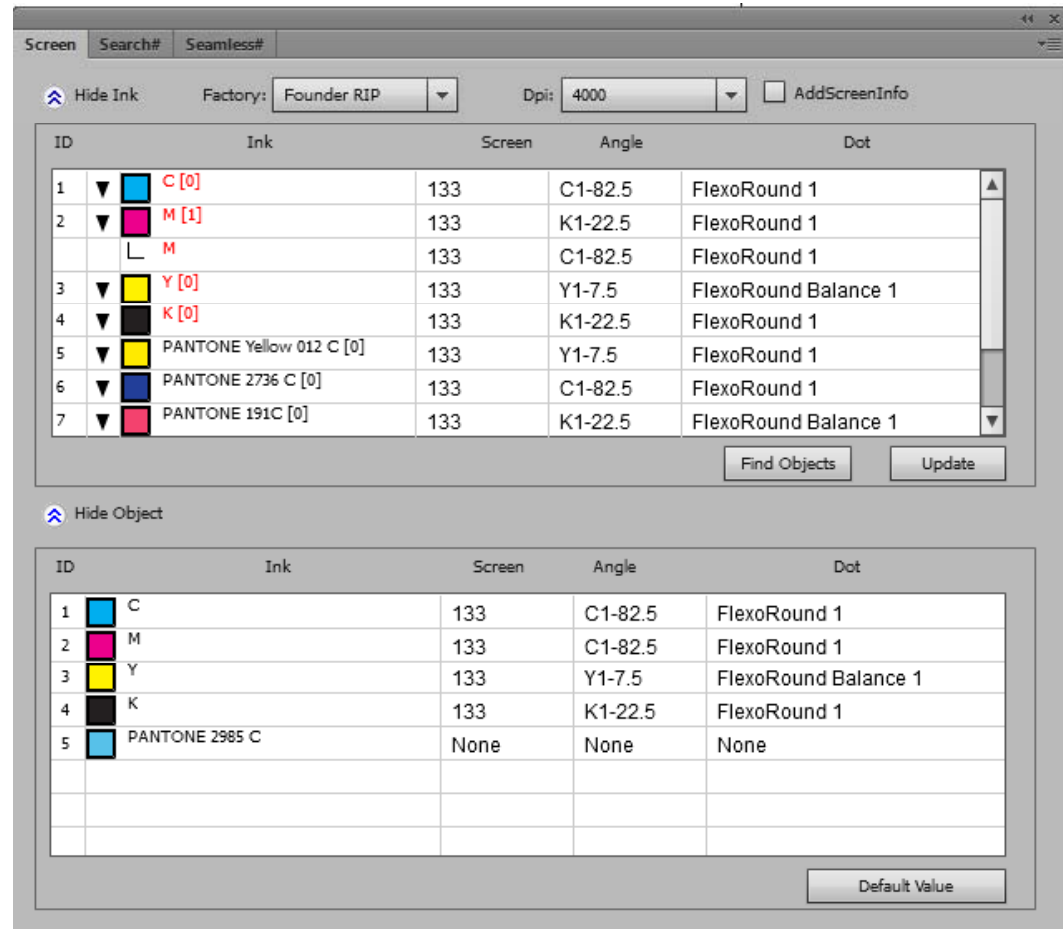✓ End value of miracle cell

No extract tiny	End value of
79%	80%
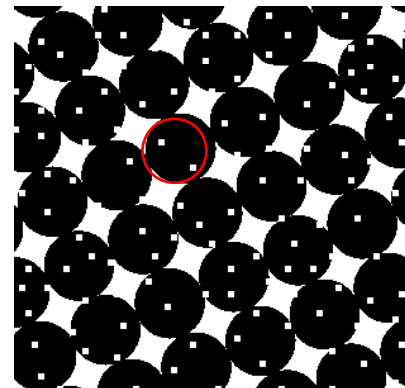
Support object screen file

Support object screen file generated by Founder **PaSharp** Screen#, specify different screening parameter for different object.
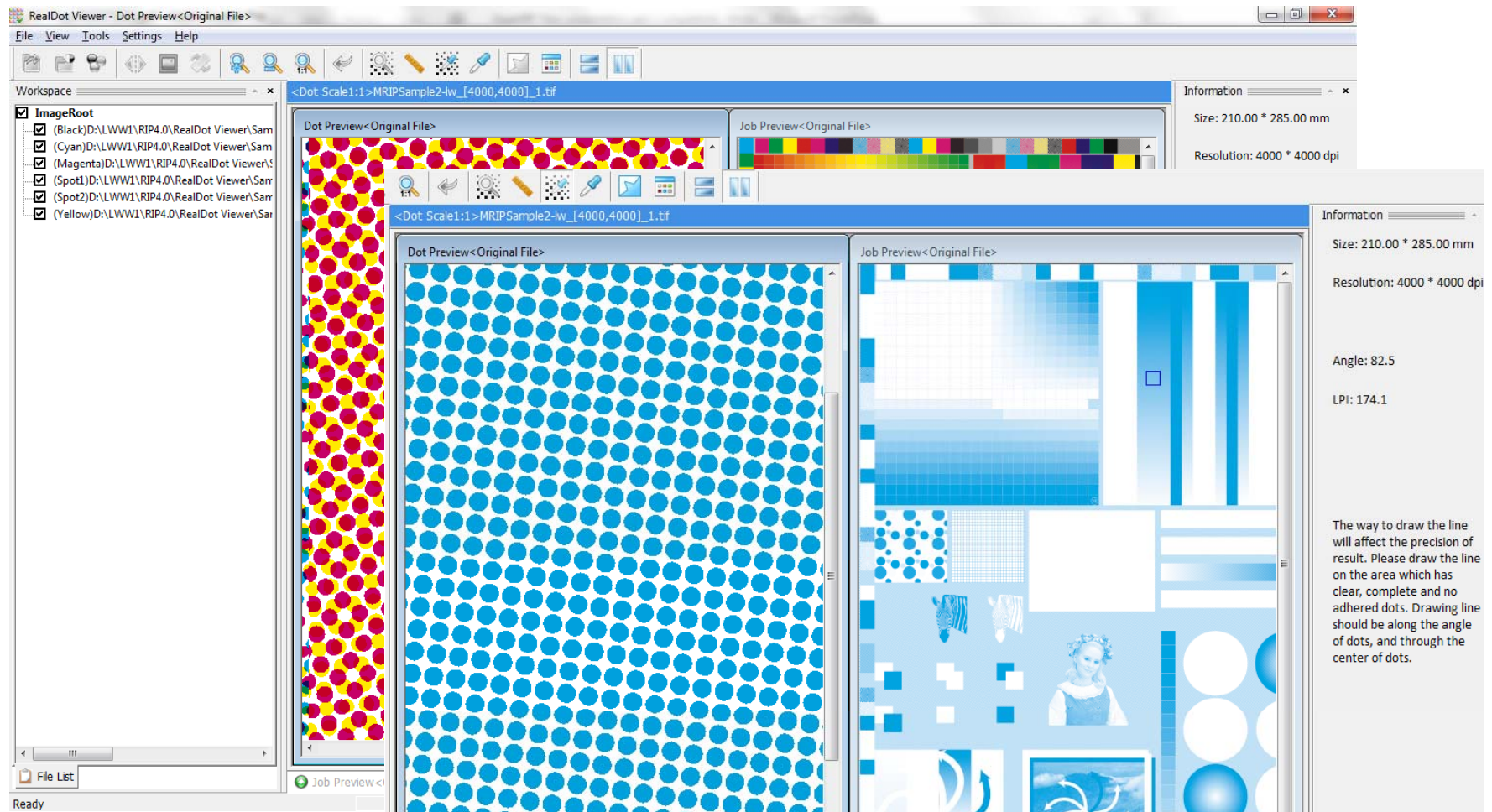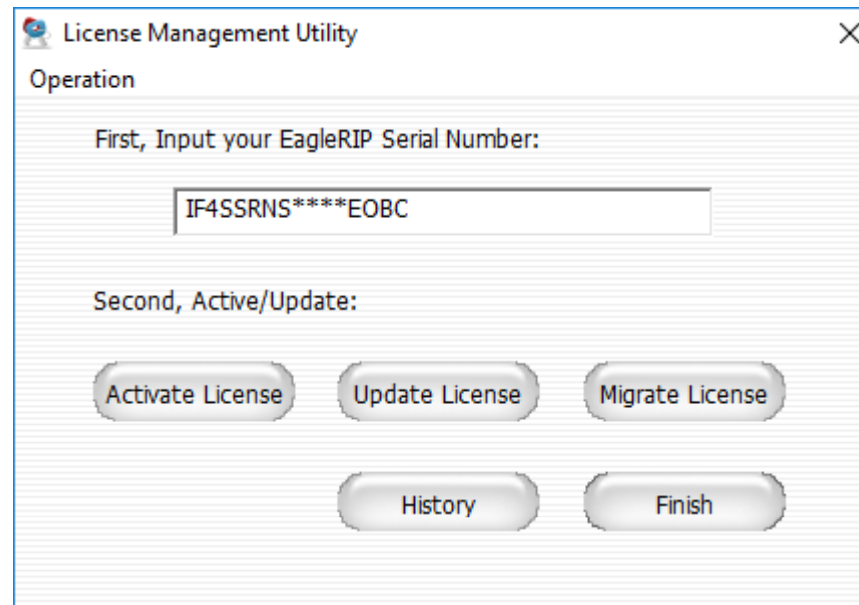
Key Features

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1-Bit TIFF

RealDot Viewer

✓ Preview real dot on monitor, compare files, measure dot angle, frequency and dot%

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Cloud licensing authorization

Benefits:

✓ Safety

✓ Save cost

✓ Flexible & Effective

✓ Easy to use

✓ **License Management Utility** is a tool to manage the cloud license via serial number.

✓ **Activate License** is to activate the cloud license.

✓ **Update License** is to add modules or extend time.

✓ **Migrate License** is to release the SN and activate on another computer.

System Requirements

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Recommended system configurations

➢ CPU: Intel i7

➢ RAM: 4GB or above

➢ HDD: 200GB free space

➢ OS: Windows 7/8/10, Windows Server 2012

System Requirements

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Compatible

- Compatible with major software packages
- Adobe CSx/CCx (Illustrator, Indesign, Photoshop etc.)
- Corel CorelDraw
- Macromedia Freehand
- Microsoft Office Suite
- Quark-Xpress
- Others...

Packs and Configurations

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Functions\Package	Standard	Premium	Label	Notes
EagleRIP 5	√	√	√	PDF 1.7, 1/8-bit TIFF
FlexoRound Screening	√	√	√	Pure round, 7.5
RealDot Viewer	√	√	√	Quality assurance tools
FlexoRound Balance Screening	–	√	○	HD: 3 sizes dots in highlights area.
Miracle Cell Technology	–	√	○	Solid ink density increase technology
CIP3	○	○	○	Producing PPF files
EagleAGS Screenings	○	○	○	Gravure screenings
EagleFAM	○	○	○	Hybrid AM&FM screening
EagleFM	○	○	○	2nd order FM screening
EagleAM-F	○	○	○	High frequency screening for newspaper
Limitation (Upgradable)	–	–	√	Size & Resolution

Thanks

F