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# Founder Flexo Miracle HD Screening Introduction

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Founder Information Industry is a leader in the information technology, providing comprehensive solutions, including IT services, software, hardware, and data operation.

**Beijing Founder Electronics CO., Ltd.**

- FlexoRound Screening
- FlexoRound Balance Screening
- Miracle Cell technology
- Benefits
- How to Setup Flexo Screening in EagleRIP

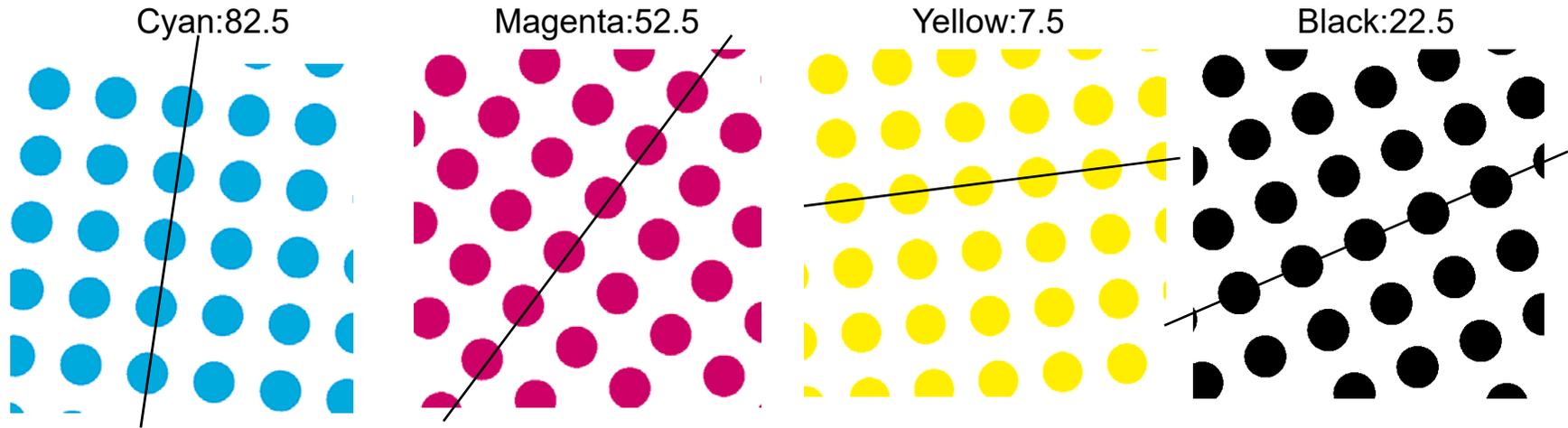
## Advantage

- Irrational angle technology, completely solves the visual problem coming from rational angle technology
- Improves the rosette pattern created by overprinting multiple separations, gray level is exquisite and smooth

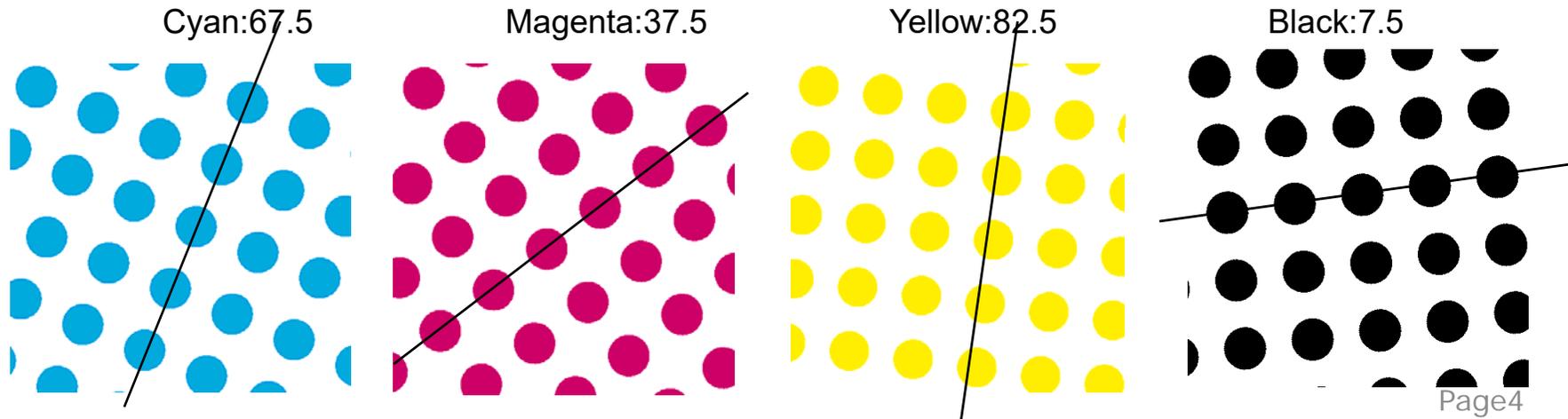
# FlexoRound Screening

## New screening angle technology

FlexoRound 1

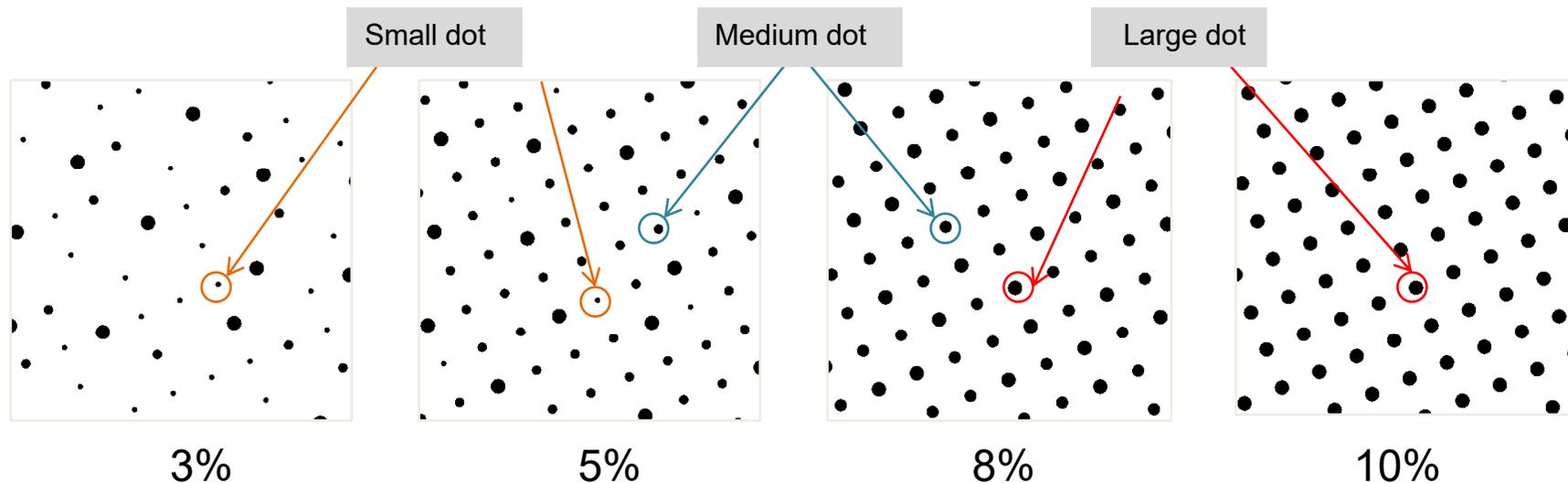


FlexoRound 2



# FlexoRound Balance Screening

- On the highlight, based on AM screening technology, we adopt dots with different sizes – small, medium and large, increase gray level . As the dot percentage increases, the size of each individual dots increases accordingly, and they all reach the same size at certain dot percentage, to improve the smoothness and texture of highlight in flexo printing.



- On highlight, all dots of small, medium and large support each other during washing plate, this special technology can break the limitation of highlight dots in flexo printing, and get a smooth transitions to 0%.

## Increase ink density of shadow in flexo printing

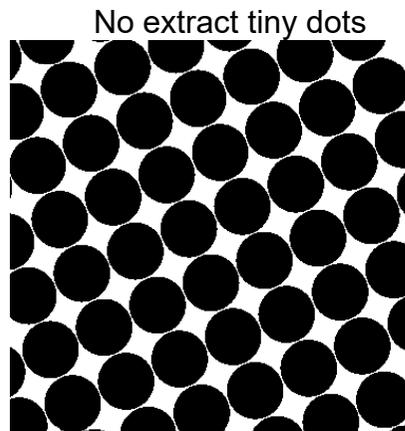
- On the shadow, based on FM screening technology, adds extract tiny dots in the shadow, increases the ink surface tension by these tiny dots, and increase the ink density of shadow, this special technology greatly improves the shortage of insufficient solid ink of flexo printing, and get a excellent print quality.

### Miracle cell setting:

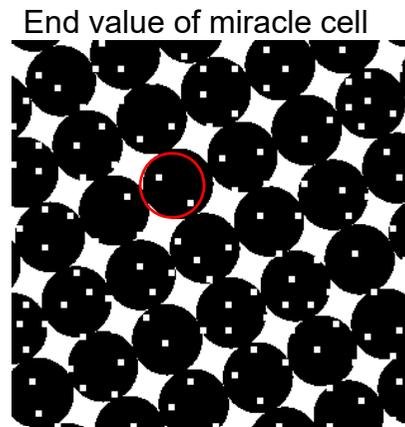
- Miracle cell size (0-5 pixel),
- Miracle cell density (0-50%),
- End percentage of miracle cell (50-100%),
- Miracle cell type (single: cell density is fixed, gradient: cell density is variable in different dot percentage)

# Miracle Cell technology

End value of miracle cell

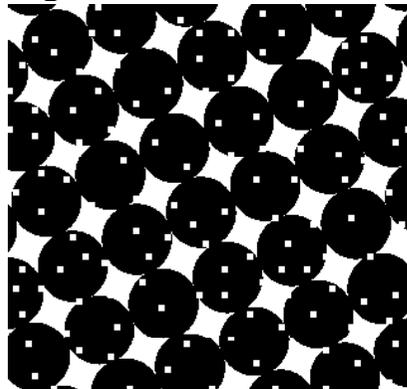


79%

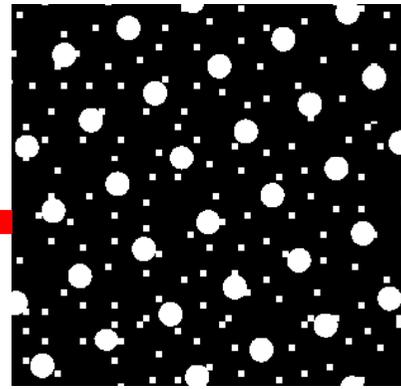


80%

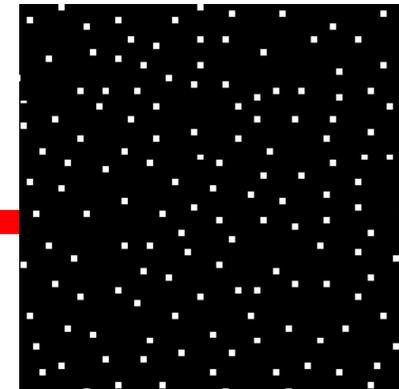
Miracle cell type sets to single, density of extract tiny dots in different dot percentage is fixed



80%



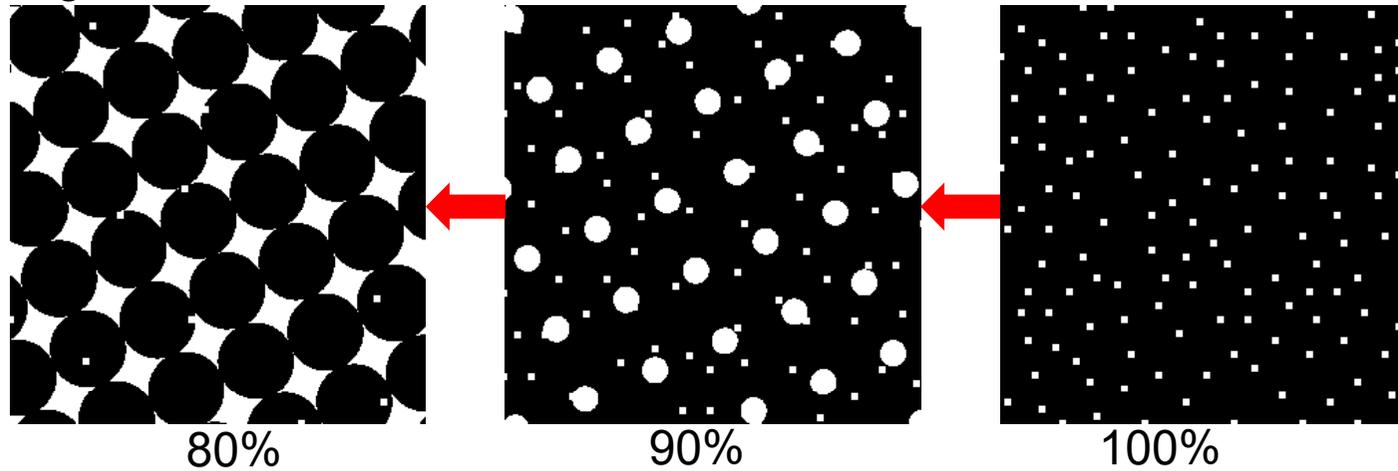
90%



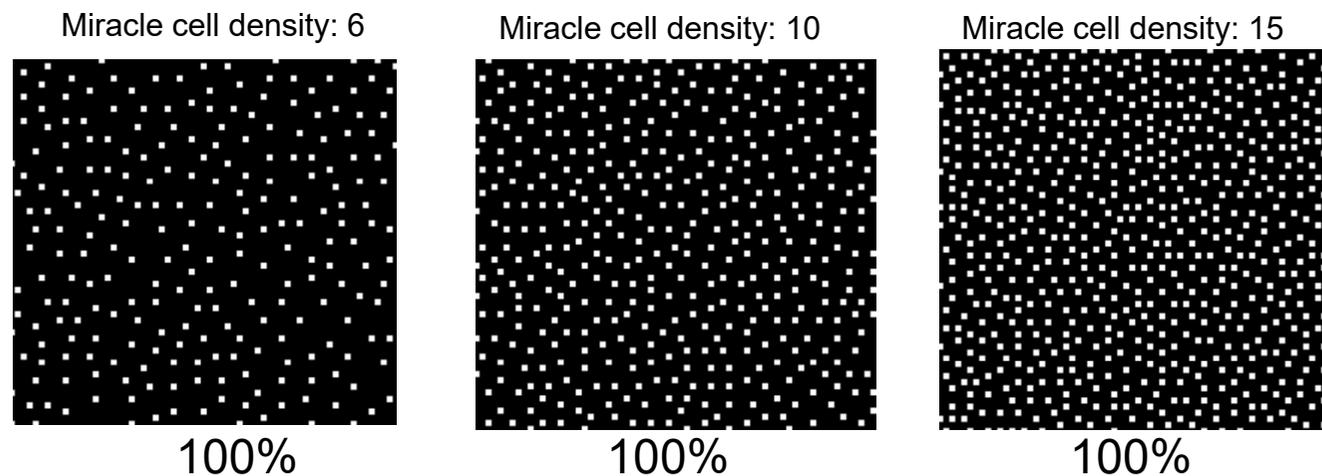
100%

# Miracle Cell technology

Miracle cell type sets to gradient, density of extract tiny dots dots in different dot percentage is variable



Different miracle cell density setting



Founder Miracle Flexo HD technology provides a high quality flexo printing

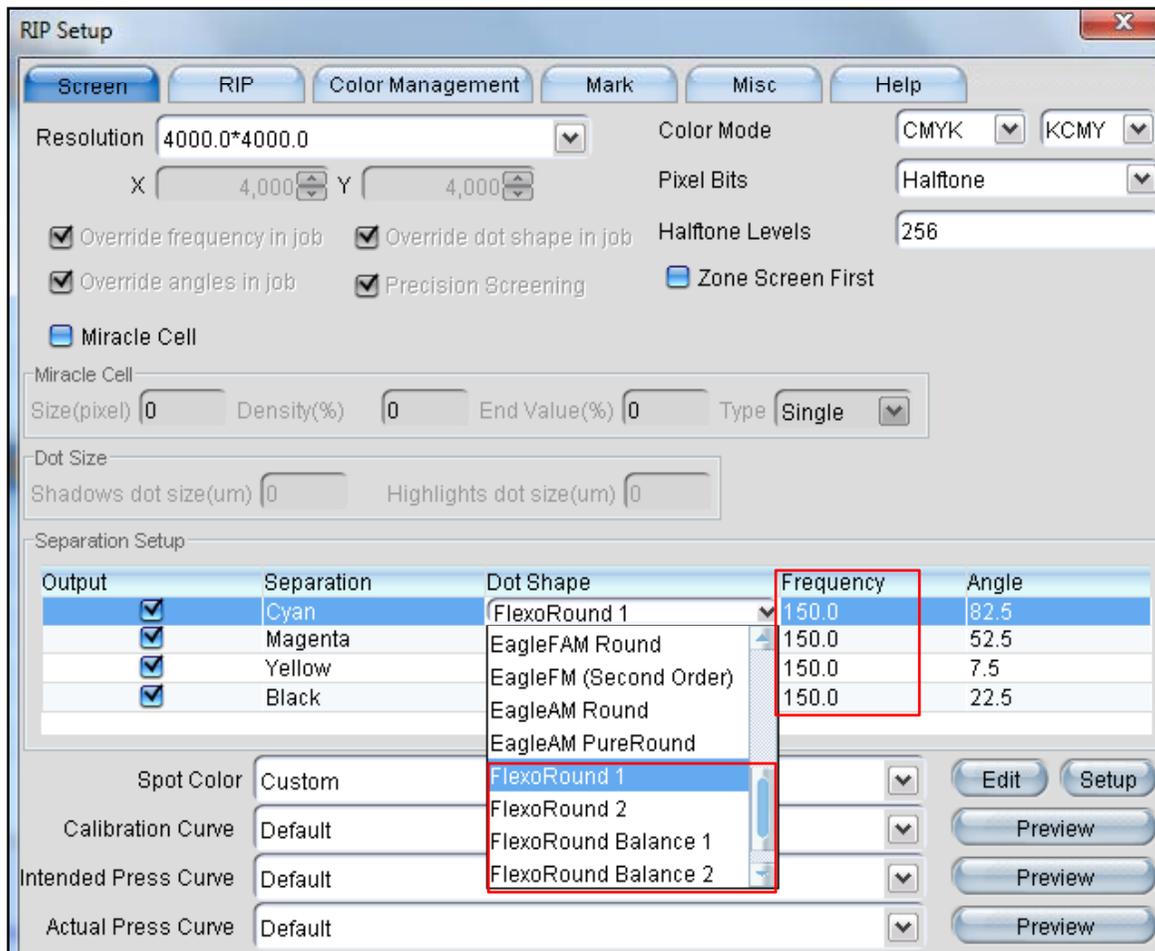
1. Achieves high quality of flexo printing with existing press equipment, no complex and expensive machine and working method changed.
2. Improves quality of highlights and shadows, gets higher solid ink density.
3. Better reproduces dot ranged from 0%-100%.
4. Smoother flat tones, texts, gradients and solids.
5. Implements highest image resolution to 9600dpi, getting more accurate images, smoother tints and a greater color gamut. (Supports 2400/2540/2800/3200/3600/4000/4800/5080/5600/6000/7200/8000/9600dpi)

# How to Setup Flexo Screening in EagleRIP

# How to Setup Flexo Screening

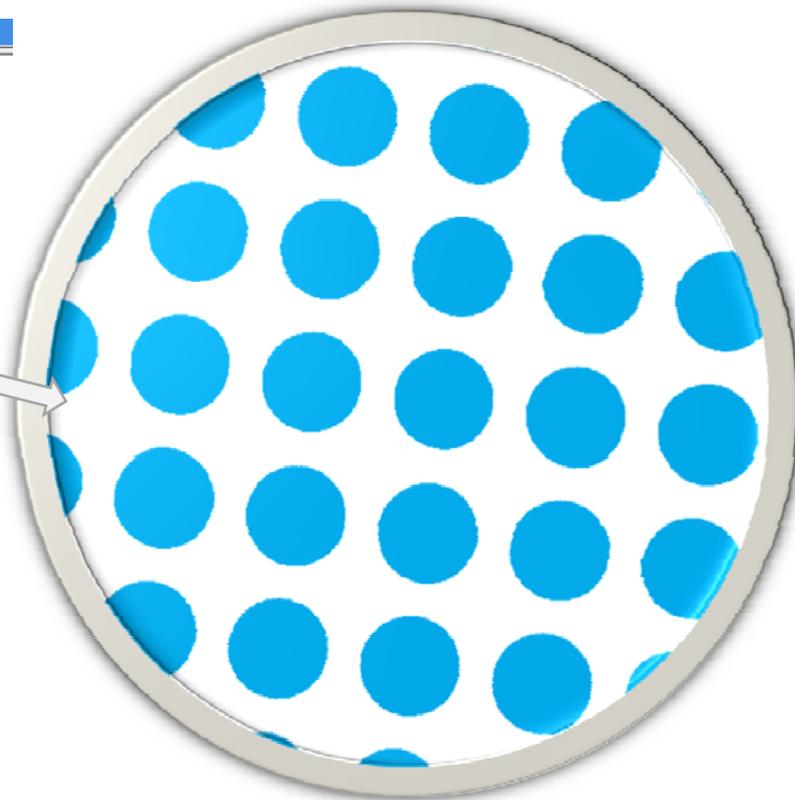
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1. Select TIFF template
2. Select dot shape (FlexoRound 1/2 or FlexoRound Balance 1/2 )
3. Select frequency



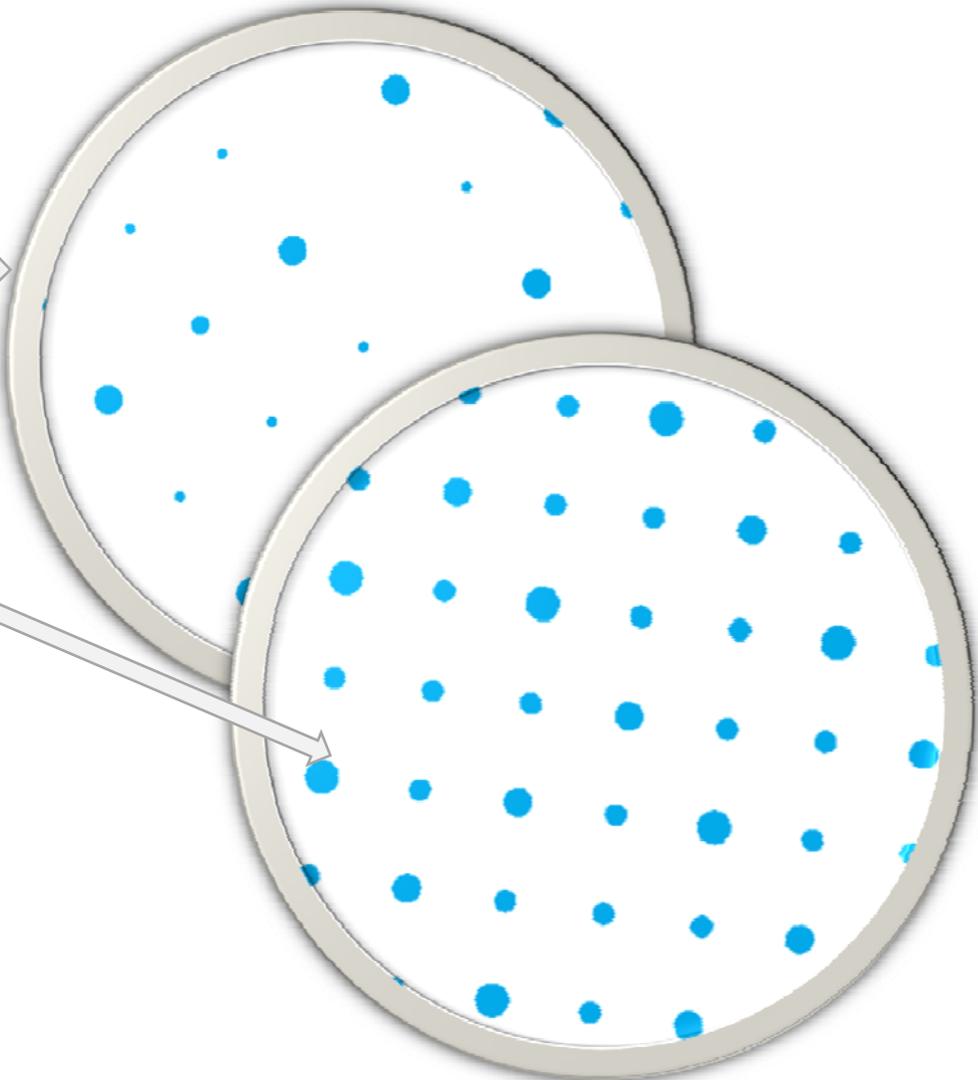
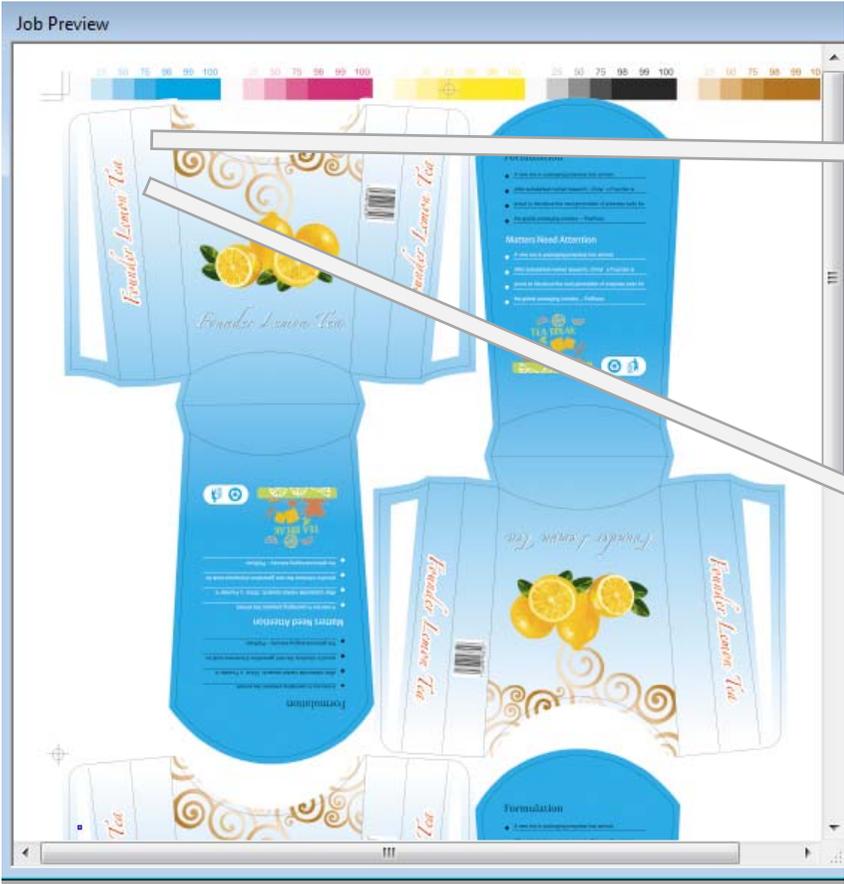
# How to Setup Flexo Screening

## FlexoRound Screening



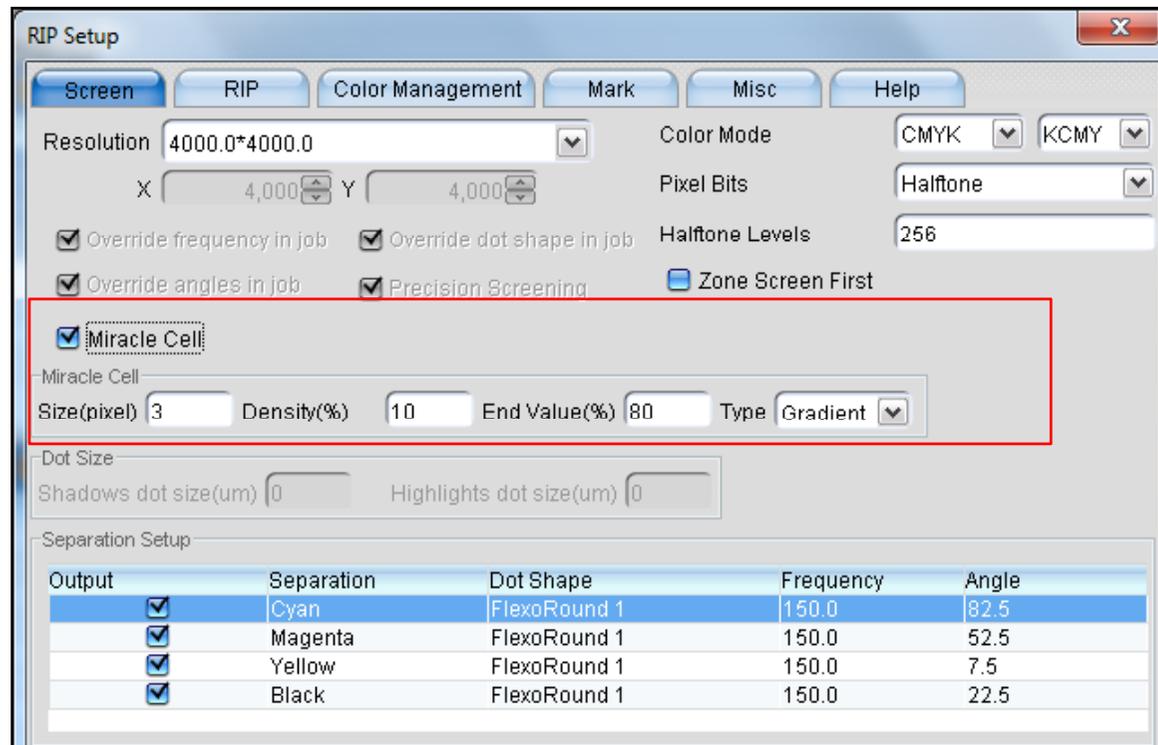
# How to Setup Flexo Screening

## FlexoRound Balance Screening



# How to Setup Flexo Screening

1. Select TIFF template
2. Select dot shape (FlexoRound 1/2 or FlexoRound Balance 1/2 )
3. Check "Miracle Cell" option, modify the setting if necessary
4. Miracle Cell setting: miracle cell size (0-5 pixel), miracle cell density (0-50%), end percentage of miracle cell (50-100%), miracle cell type (single: cell density is fixed, gradient: cell density is variable in different dot percentage)



# How to Setup Flexo Screening

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Miracle Cell technology



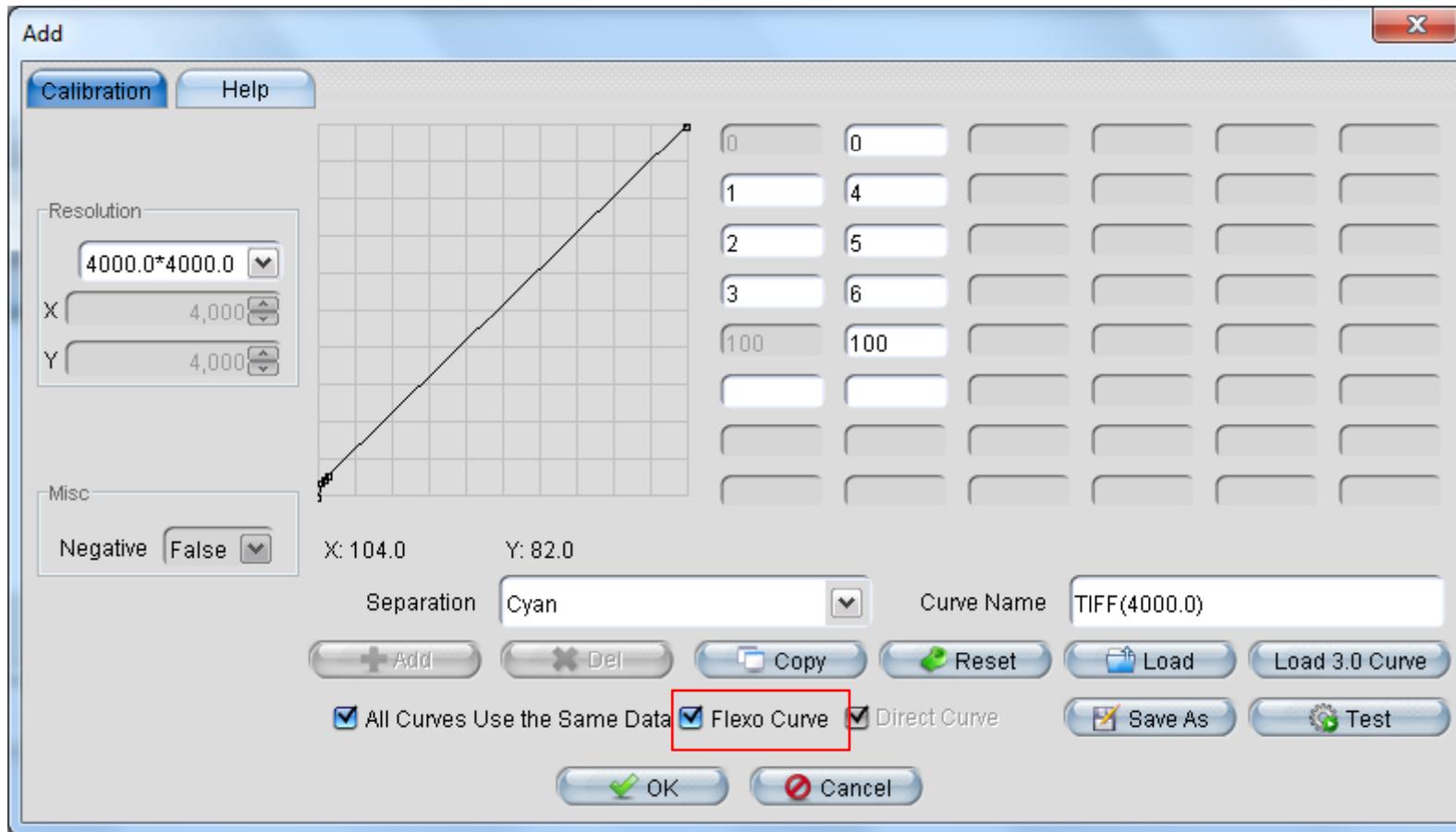
# How to Setup Flexo Screening

1. Supported resolution and frequency of Flexo screening
2. The frequency in **red** at below table does not support miracle cell function

Resolution (DPI)	Frequency (LPI)	
	FlexoRound 1 / 2	FlexoRound Balance 1 / 2
2400	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
2540	40/50/65/87/100/110/120/133/150/165/175/200	100/110/120/133/150/165/175/200
2800	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
3200	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
3600	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
4000	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
4800	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
5080	40/50/65/87/100/110/120/133/150/165/175/200	133/150/165/175/200
5600	40/50/65/87/100/110/120/133/150/165/175/200	175/200
6000	40/50/65/87/100/110/120/133/150/165/175/200	175/200
7200	40/50/65/87/100/110/120/133/150/165/175/200	175/200
8000	40/50/65/87/100/110/120/133/150/165/175/200	175/200
9600	40/50/65/87/100/110/120/133/150/165/175/200	175/200

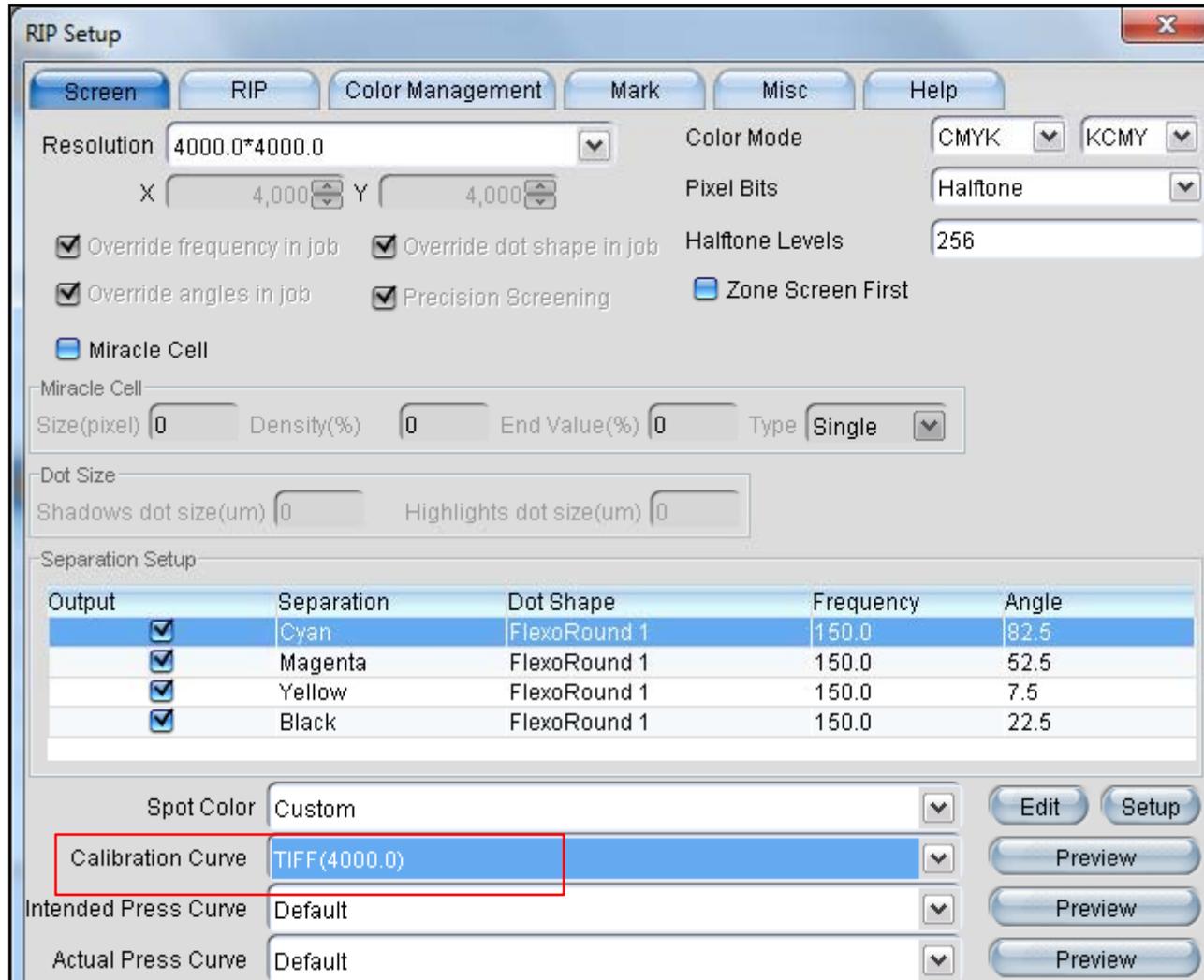
# How to Setup Flexo Screening

Create flexo curve if necessary



# How to Setup Flexo Screening

Load the flexo curve in the template



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# Thanks



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