

BEST-IN-CLASS FLEXO

The KODAK FLEXCEL NX System '16 promise:
GOLD STANDARD PRINT QUALITY
and COMPELLING PRODUCTION EFFICIENCY

Delivered with the simplest plate portfolio in the industry
Fully integrated and differentiated plate making solution
Unparalleled consistency
Fastest imaging
Fully upgradeable platform

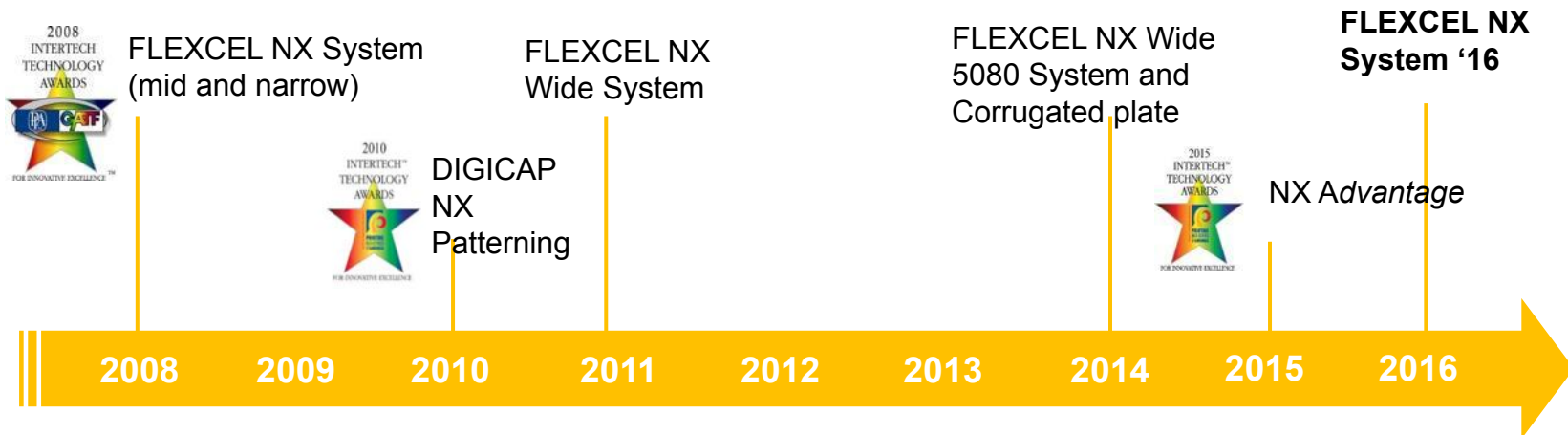
Across the broadest range of applications and print conditions:

Tag and Label | Flexible Packaging | Folding Carton | Corrugated Boxes | Security



Success is proven and real

- **500** FLEXCEL NX Systems sold in over 70 countries
- Leading printers are switching to FLEXCEL NX Plates
- Track record of gravure/offset to flexo conversions
- FLEXCEL NX Plate sales growth rate = **4x** industry growth rates
- Continuous stream of technology innovation that fuels our customers' competitive advantage and efficiency



FLEXCEL NX System '16

Benefits

Gold standard print quality with compelling production efficiency

FLEXCEL NX has set the benchmark for exceptional process printing:



Greatest
color
consistency



Widest
color
gamut



Best
highlight
performance



Greater use
of process printing

FLEXCEL NX System '16 delivers innovation that expands performance:



Best
ink laydown
across all
print conditions



Broadest
contrast
range



Cleanest
and smallest
reverses



Cleanest
and brightest
print

For all flexo applications and print conditions



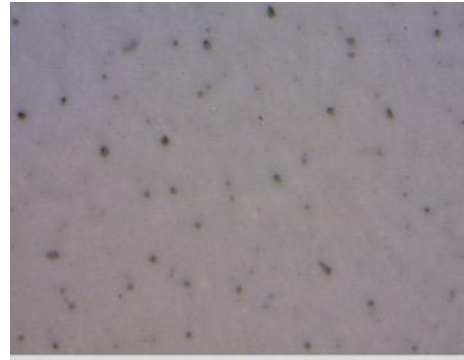
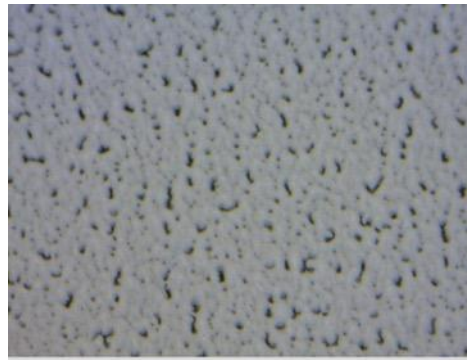
Best ink laydown

- FLEXCEL NX: Already proven to deliver best performance for process printing
- LATEST Advanced DIGICAP NX Patterning expands capability
- NOW a plate can be optimized for **all** ink types @ **all** anilox volumes for **all** applications
- ACHIEVE target ink density, pinhole-free with lower coated ink weights

FLEXCEL NX System '16



Other flexo



Med Volume anilox

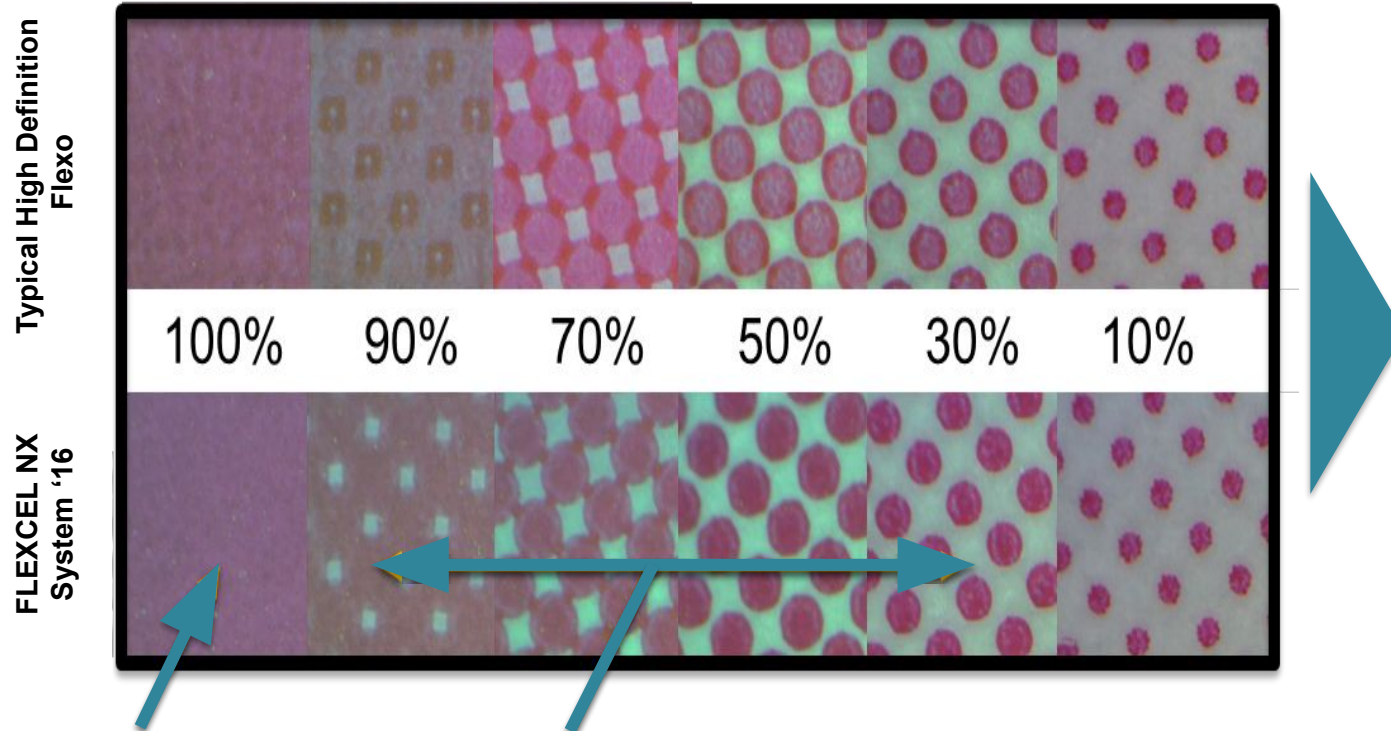
High Volume anilox

ENABLING...

- Superior white ink printing on film
- Improved spot colors
- Better coverage for varnishes, metallics & specialty inks
- Exceptional ink transfer on corrugated board

Full range of capabilities with just two plate types

Broadest tonal range & contrast



RESULTS IN ...

More color range
More contrast
More shadow details
More shelf appeal

Improved solid
ink laydown

More open shadow to mid tonal range
Increased contrast and color gamut

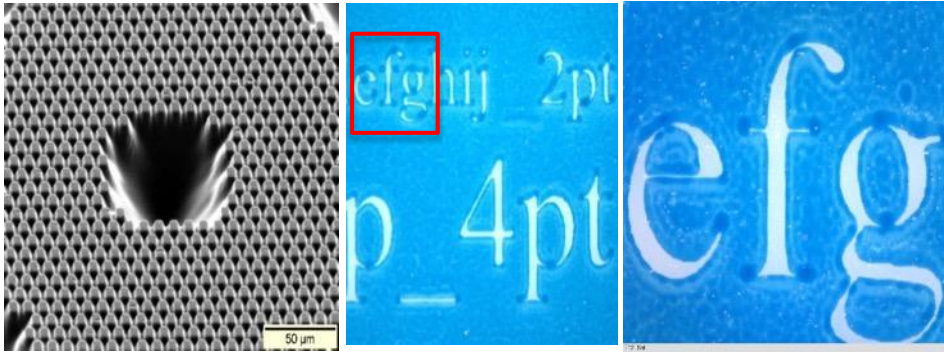
CONTRAST
CONTRAST
CONTRAST
CONTRAST
CONTRAST



Cleanest and smallest reverses

Enables reduced font size spec, improved legibility...

opens door for reduced nutritional box size / increase selling space

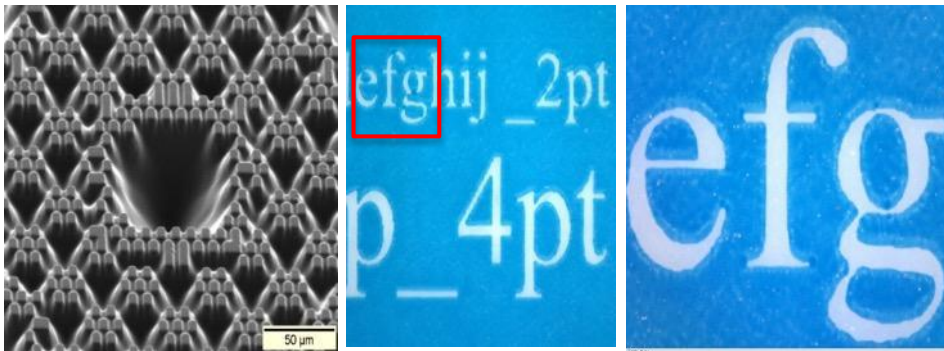


Selling space

Branding, graphics,
messaging

Nutritional Box

Government
required information,
limited sales value



Selling space

Branding, graphics,
messaging

Nutritional Box

Government required
information, limited
sales value

CLEANER REVERSE TEXT



MORE SELLING SPACE



Cleanest, brightest printed colors

- Reduces the graying effect for metalized laminates used in flexible packaging
- Improves shelf impact on Kraft liners for shelf-ready packaging
- Brighter colors for off-white papers



Simulated



Gold standard print quality with compelling production efficiency

FLEXCEL NX proven to deliver:



Faster
startup



Reduced ink
and substrate



Longer
plate life



Fewer
plates



Increased
press
speed

FLEXCEL NX System '16 delivers even more:



Ink savings:
White/spot
colors/more



Fewer press
stops for
cleaning



More efficient
lamination



Better
performance
on lower grade
paper/boards

Across the full range of flexo applications
and print conditions



FLEXCEL NX System '16 for wide web flexibles

Gold Standard Print Quality and Compelling Production Efficiency

Be at the leading-edge with:

- Cleaner print, fewer press stops, increased efficiency
- Gravure quality achievable in daily production
- Major image contrast improvements
- Smaller, more readable text
- Outstanding performance with solvent and water-based inks
- Improved lamination performance



FLEXCEL NX System '16 for corrugated post-print

Gold Standard Print Quality and Compelling Production Efficiency

Be at the leading edge with:

- Improved solid ink laydown – higher densities with lower ink volumes
- Brighter, cleaner brand colors
- Improved results on lower grade liners – cost saving opportunities
- Lower highlight dot gain dramatically improves image reproduction
- Cleaner reverses and open shadows for greater contrast
- Higher line screens possible



FLEXCEL NX System '16 for narrow web labels

Gold Standard Print Quality and Compelling Production Efficiency

Be at the leading edge with

- Best flexo match to digital printing
- Offset quality process printing
- Improved solid ink laydown for spot colors, metallics and varnishes
- Cleaner reverses and open shadows for spot colors
- Excellent performance with lower grade substrates
- Excellent swell resistance



FLEXCEL NX System '16 for paperboard

Gold Standard Print Quality and Compelling Production Efficiency

Be at the leading edge with:

- High-speed, stable printing
- Fewer press stops for cleaning
- Brighter, cleaner colors
- The cost benefits of web flexo with the quality of sheet fed offset
- Excellent performance with lower grade substrates



FLEXCEL NX System '16

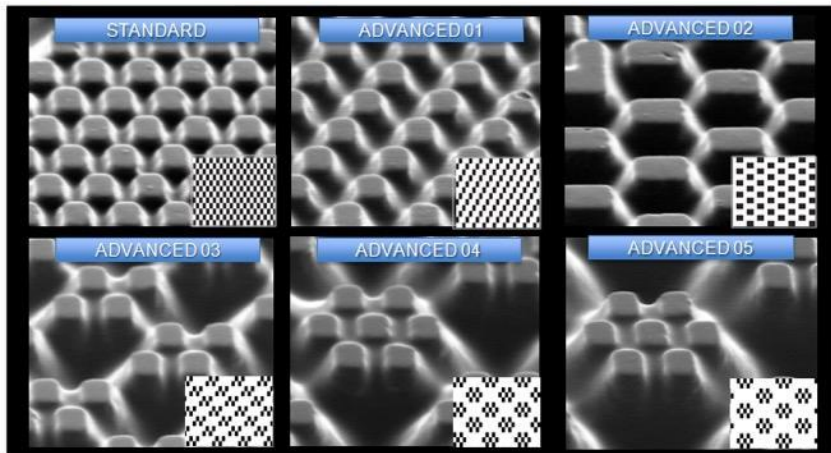
Technology

FLEXCEL NX System '16:

Built upon two powerful innovations

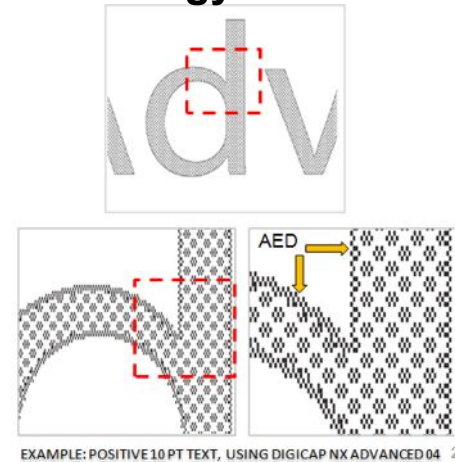


Expertly-engineered Advanced DIGICAP NX Patterning



Expands the range of applications by enabling a single plate to be optimized across a wide range of print conditions, all ink types and anilox volumes.

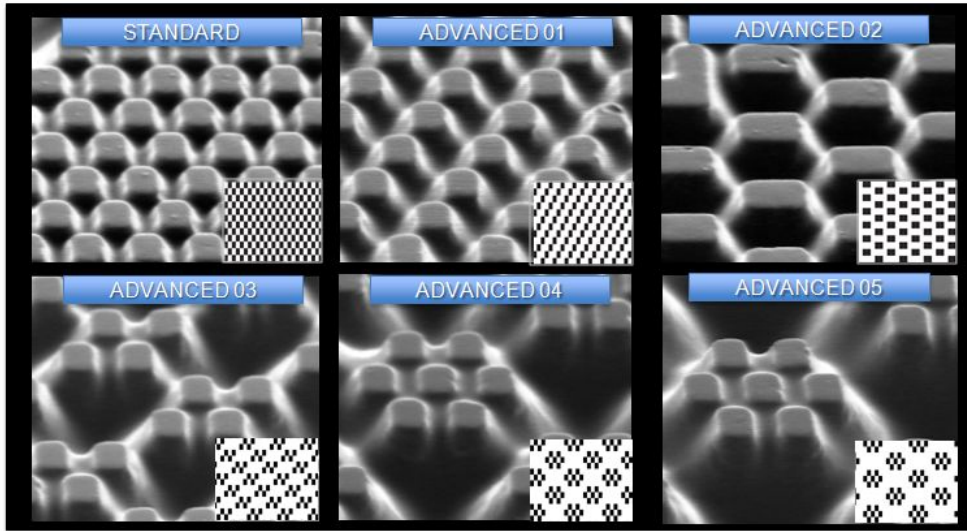
Advanced Edge Definition Technology



A Kodak patented technology that controls ink flow at the edge of objects resulting in greater visual edge definition, especially in fine reverses, and cleaner print, dramatically improving tonal range and contrast for shadow detail.



Expertly-engineered Advanced DIGICAP NX Patterning

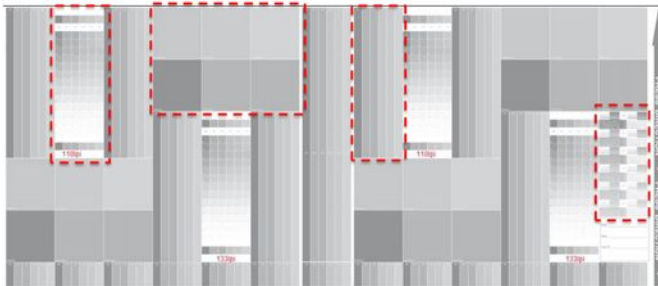


Enables exceptional print performance

- Outstanding ink transfer
- Higher density with lower ink weights
- Range of patterns for range of ink volumes

Reduces inventory costs

- Only Kodak enables a single plate to be optimized across a wide range of print conditions, all ink types and anilox volumes.



Easy to select patterns –

Simple print test tool provides data on selection for anilox/tape/ink/DIGICAP NX combination

Easy to apply patterns –

Applied in TAP. NX tags are used to enable single plate to be optimized across a wide range of print conditions, all ink types and anilox volumes.

A MAJOR INNOVATION

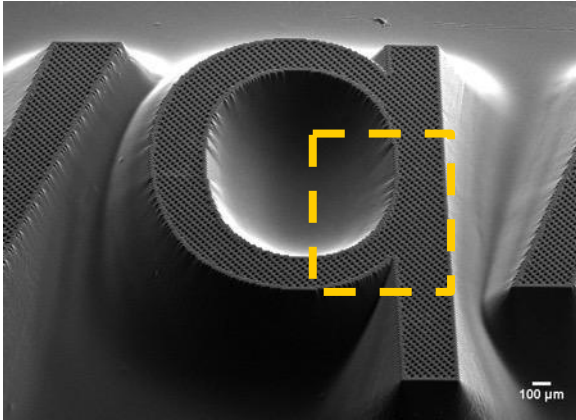
One pattern is not sufficient to cover all flexo needs.

Only the FLEXCEL NX System has the imaging and plate reproduction capability to consistently reproduce this unique range of patterns.

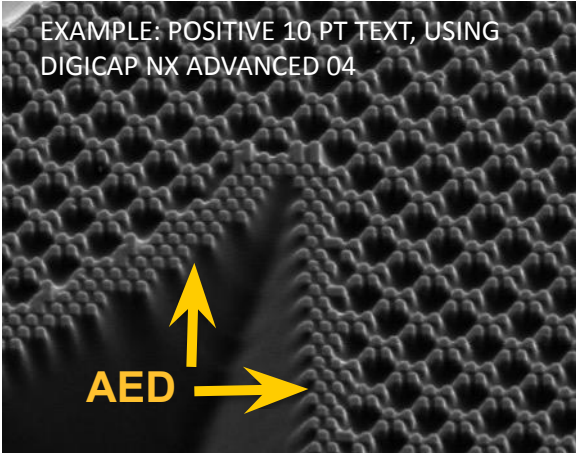
A 'built-in' textured plate can never do this.



Advanced Edge Definition – Exclusive Patented Technology



EXAMPLE: POSITIVE 10 PT TEXT, USING
DIGICAP NX ADVANCED 04



A MAJOR INNOVATION

Only the FLEXCEL NX System has the imaging and plate reproduction capability to consistently reproduce and apply this unique range of patterns at the object level.

A 'built-in' textured plate will never be able to do this.

Benefits

- Better positive text and bar codes
- **Smaller reverse text** use
- Expanded **tonal range**
- Increased **contrast**
- Ensures **clean printing**
- Maximizes productivity

How it works

- Automatically applied when using Advanced DIGICAP NX Patterns
- Controls ink flow to keep the print clean

Additional tools for specific needs

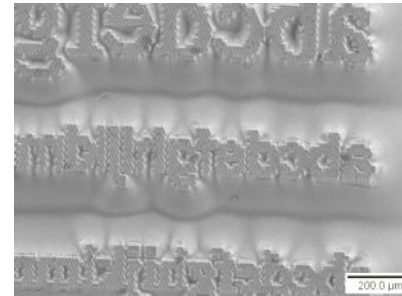
NEW HYPERFLEX NX OPTIONS



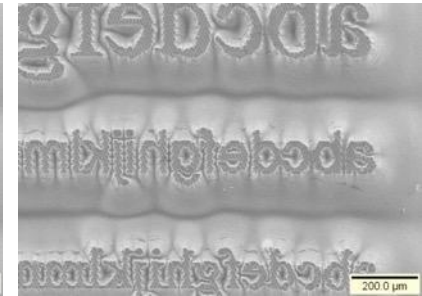
Optimizes floor height for best highlight dot print stability, plate making latitude and widening the achieve range and contrast for highlights.

NEW

4800 x 9600dpi imaging



2400 dpi



4800 dpi

Enhances the printing of micro-text and security features unique high resolution applications

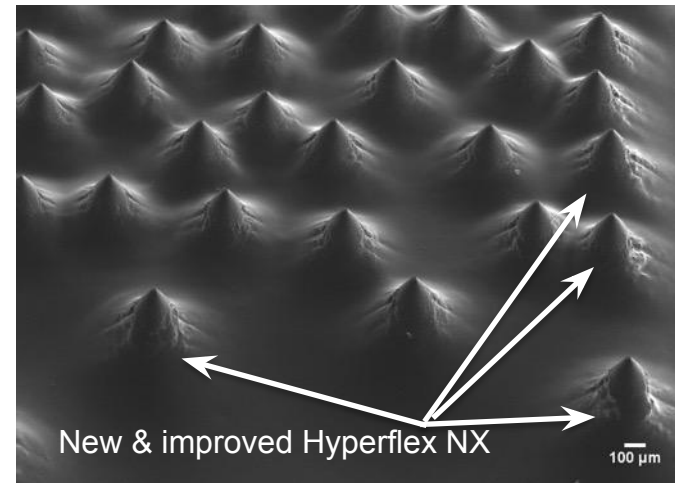
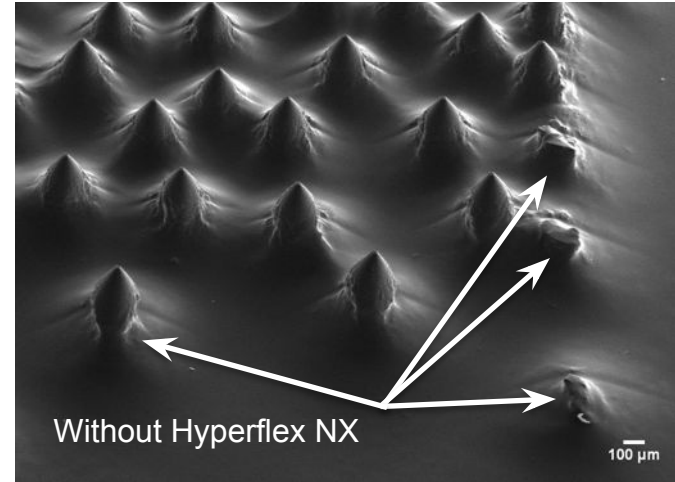
New HYPERFLEX NX Options

Benefits

- Improved highlight dot stability, consistency and holding of isolated highlight dots
 - Holds 20 micron isolated dots
- Improved latitude for back exposure/relief, main exposure and impression

How it works

- New HYPERFLEX NX options produce a smooth slope around dots without a shelf
- New settings change the number of light valves and their spacing influencing how much the localized floor is raised
- Consistent exposure and relief allows jobs with and without HYPERFLEX NX to be on the same plate



High Resolution 9600x4800 dpi

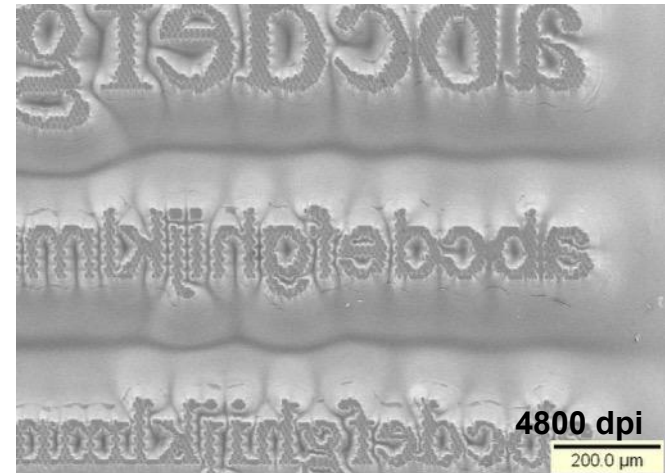
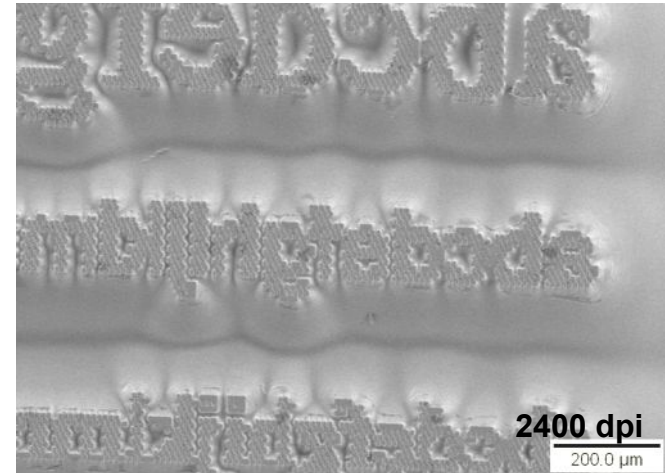
(license sold separately)

Benefits

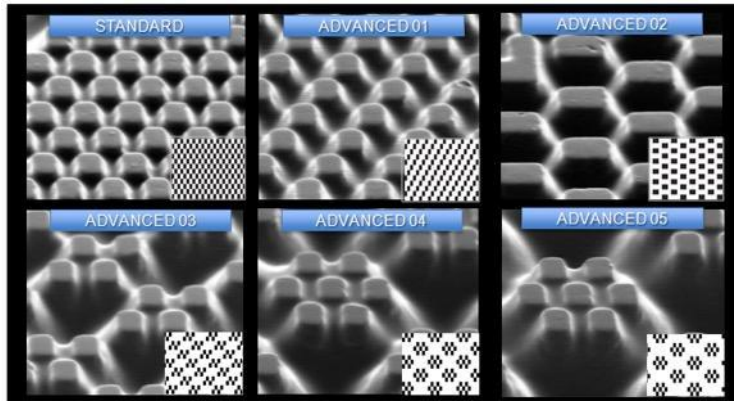
- Enhances performance for micro text (<1pt) and security applications
 - Supports 4800x4800 dpi and 9600x4800dpi imaging modes
 - Available for FLEXCEL NX Mid/Narrow, WIDE 3547 and Wide-C Imagers
- Most packaging applications are not enhanced by high resolution
 - KODAK SQUARESPOT imaging technology enables excellent quality at 2400x2400

How it works

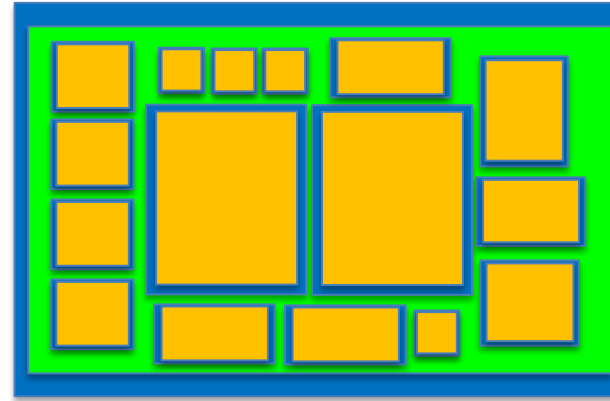
- License sold separately
- Higher resolution results in larger file sizes
- Higher resolution requires longer imaging times, approximately double
- Easily switch between standard imaging and high resolution imaging from job to job



Powerful plate-making productivity tools



NX Tags – a powerful feature that enables multiple surface patterns to be applied by prepress operators to a single plate layout – enabling, with the use of a single plate type, the efficient imaging of plates customized by print condition for maximum on-press cost savings.



Solvent Saving Invert Waste Feature – software features that help drive efficiencies with 20-40% reduction in washout solution usage. TAP user can selectively invert trim waste on a layout preset basis and specify a border around the TIFF file that is not inverted.

Cutting Table Support – COMING SOON

Integrated support for Zünd and Kongsberg cutting tables further improving plate-making productivity.

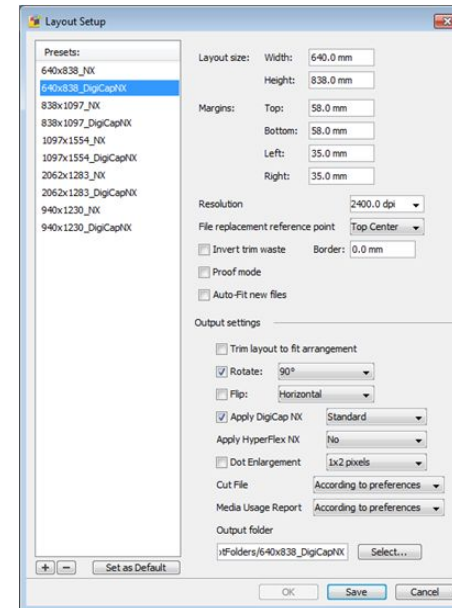
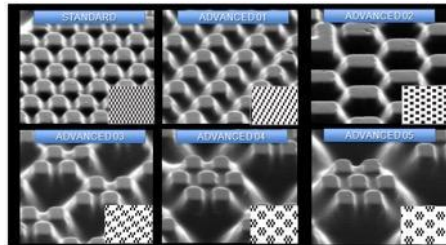
NX Tags

Benefits

- Pre-press remains in control of usage
 - NX tag instructions are automatically executed when layout is output

How it works

- Individual screened 1 bit TIFF files can be tagged with instructions for
 - DIGICAP NX patterns
 - HYPERFLEX NX for light valve pixels in highlights
 - Dot Enlargement to enable highlight cleanup feature and threshold for dot size
- NX tags allow different files in a layout to have different DIGICAP NX patterns, HYPERFLEX NX and Dot Enlargement settings



Easy Controls –
TAP Software includes easy controls for defining and using NX tags

Original File Name	DigiCap NX tag	HyperFlex NX tag	Dot Enlargement tag	Saved file name
test.file.C.tif	Standard	No	1x2	test.file.0SN12.C.tif
test.page.K.tif	Advanced01	Yes	2x3	test.page.01Y23.K.tif
flood.page.W.tif	Advanced04	No	No	flood.page.04N00.W.tif
demo.file.M.tif	None	No	No	demo.file.00N00.M.tif

Preferences – job settings can be saved as preferences in TAP software to improve productivity

Invert trim waste

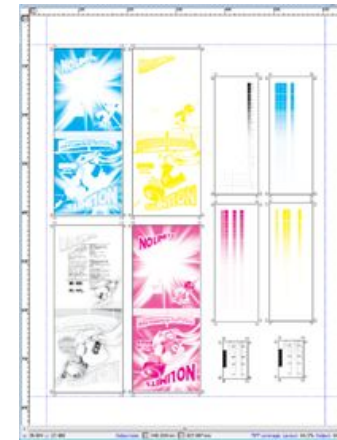
Benefits

- Reduces solvent usage by 20-40%
- Environmental benefit
- Cost savings

How it works

- The area of the layout not occupied by TIFF files is inverted when the layout is output.
- This results in the unused area being exposed on the Thermal Imaging Layer and the plate material being crosslinked.
- Therefore, the unused area won't be washed out when the plate is processed.

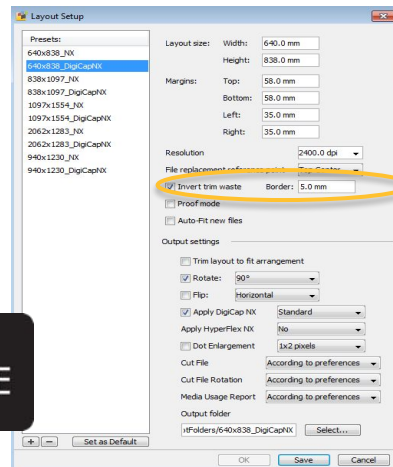
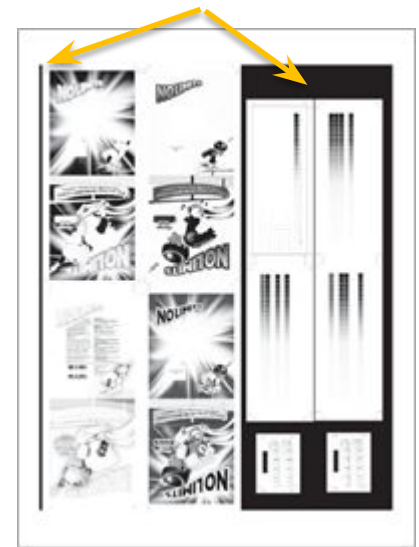
Original Layout



Invert Waste OFF



Invert Waste ON



FLEXCEL NX System '16

Support

Kodak is here to help

Service and support to maximize your business

A full range of Implementation Services

- Program is implemented by our team of flexo experts
- Includes optimization of your NX system and training on FLEXCEL NX best practices – prepress, plate making and printing.
 - We help you take advantage of the latest NX upgrades and features and optimize them for your environment and your needs
 - Designed to increase your productivity and efficiency
 - Proactively monitor your system and practices to identify process drift and get you back on track

Certification Programs

- Plate making
 - Ensure the customer process is within specification and operating correctly
 - Train the operators on the latest procedures and troubleshooting techniques
- Press
 - Help the customer to gain full benefit of NX Advantage



A full range of services

Helping customers make the most of FLEXCEL NX System '16

Start up
Assistance

FLEXCEL NX
Print Certification

FLEXCEL
NX Plate
Certification

Implementation
Services

Peak
Performance
Check-up

Plate Making
Process Review

NX
ADVANTAGE
Optimization

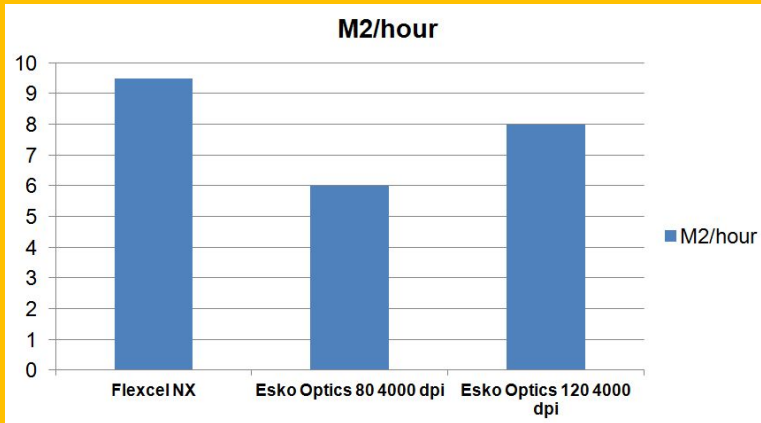
Press Optimization
Support

In platemaking
At the press

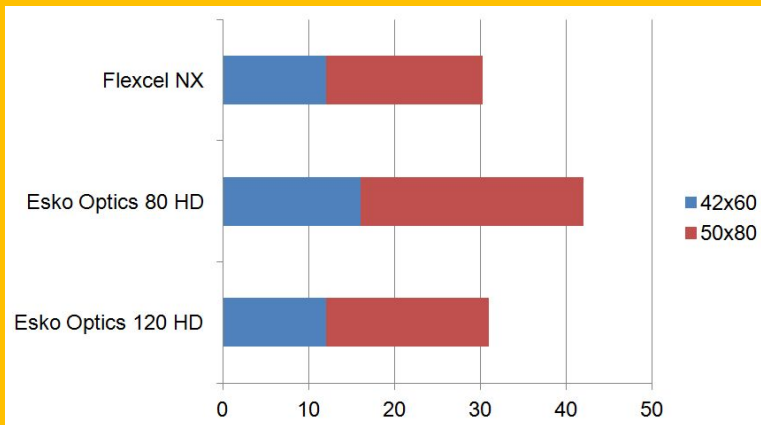


The competition

FLEXCEL NX – Fastest High Definition Imaging



FLEXCEL NX is the fastest imaging time in the industry and always high definition



Even with lamination time, NX is still the fastest system

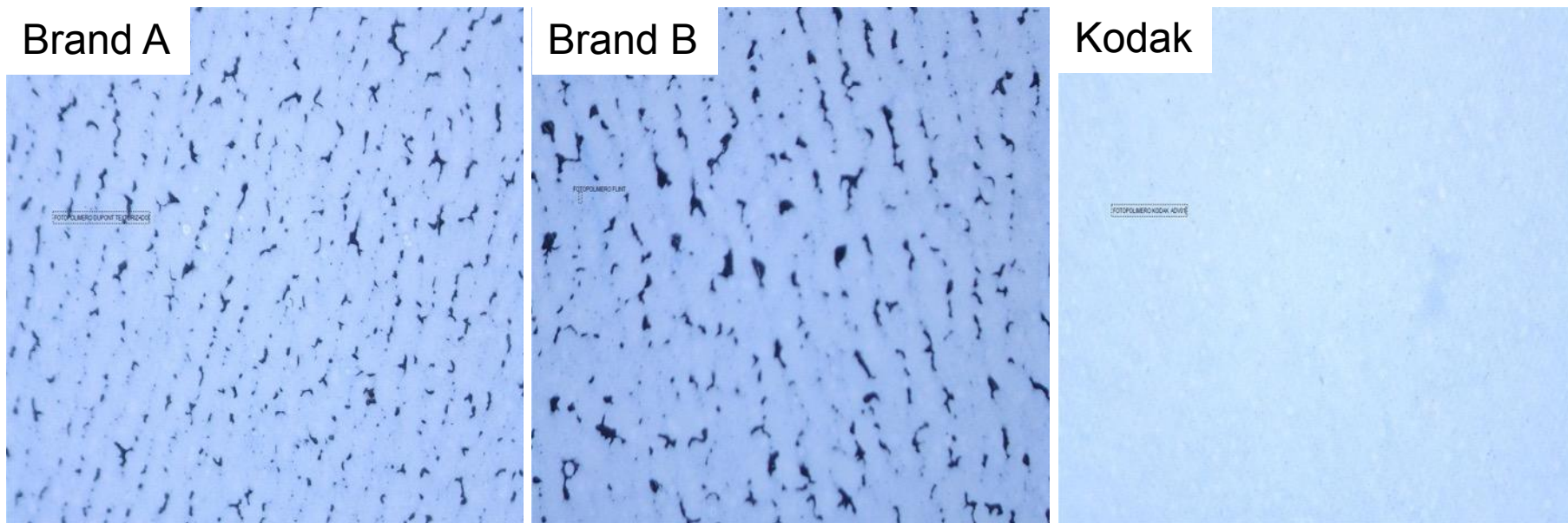
No expensive hardware upgrades and no extra plate types

Kodak Micro Engineered Surface Patterns better ink laydown, lower ink weight

**Wide Web Flexible Customer
White Ink Print Test @ 200X**

Competitive “built-in” Flat Top Dot Plates versus Flexcel NX System ‘16

Test: April 2016



Customer printed plates simultaneously side-by-side

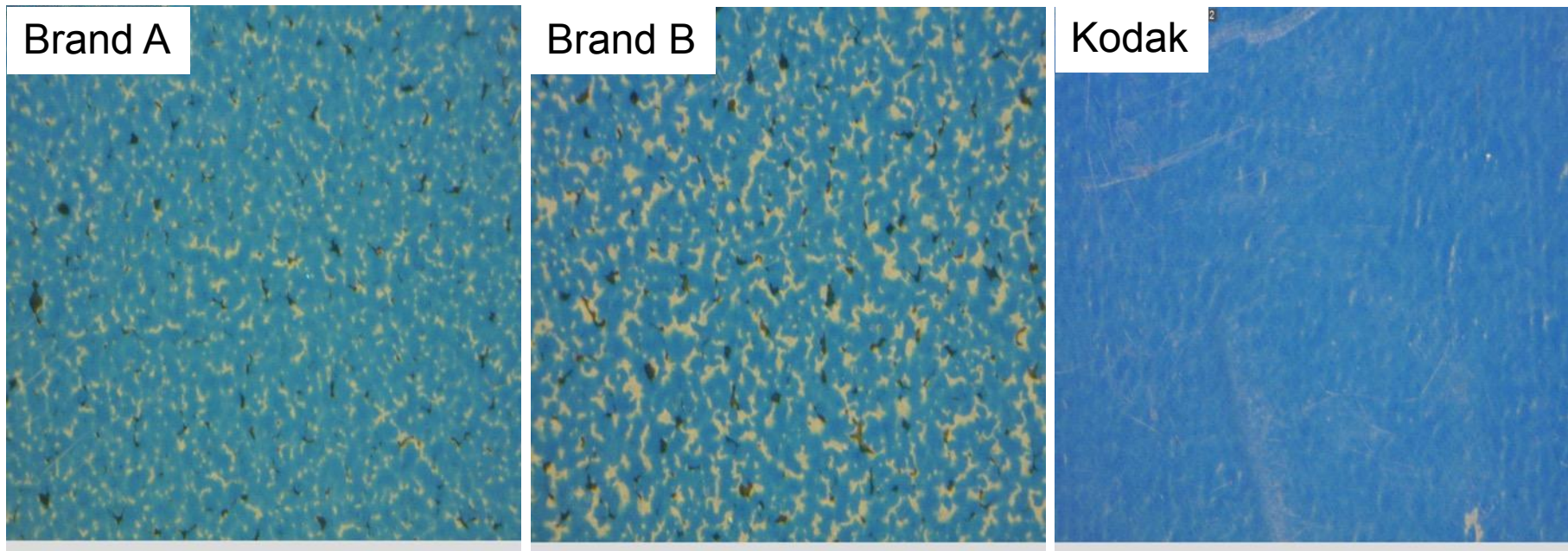
Brand A	Brand B	Kodak
0.83 Gm ²	0.79 Gm ²	0.67 Gm ²
		20% less

Kodak Micro Engineered Surface Patterns better ink laydown, brighter colors

Wide Web Flexible Customer

Cyan and White Ink Print Test @ 50X

Competitive “built-in” Flat Top Dot Plates versus Flexcel NX System ‘16



Customer printed plates simultaneously side-by-side

When you see **BLACK** it is holes in the **WHITE**

When you see **WHITE** it is holes in the **CYAN**

When you overprint another color it will be a dirty color



Questions?

Appendix



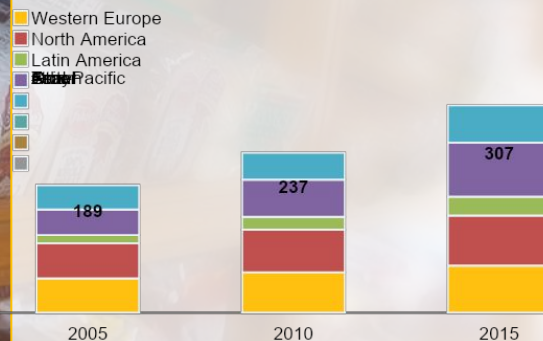
Packaging growth: opportunity for flexo

Packaging Industry - \$250b

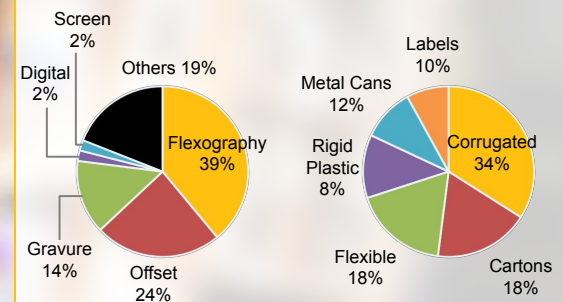
- Fastest growing and sustainable print market
- Highly fragmented value chain
- Ripe for technology substitution
- Kodak well positioned to lead digitization and drive integration

Packaging Market Growth (\$bn)

Primary Addressed Market: \$1.1B

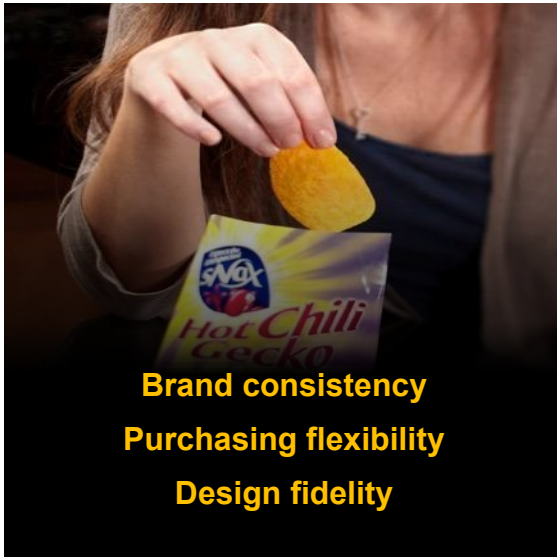


Packaging Market Breakdown

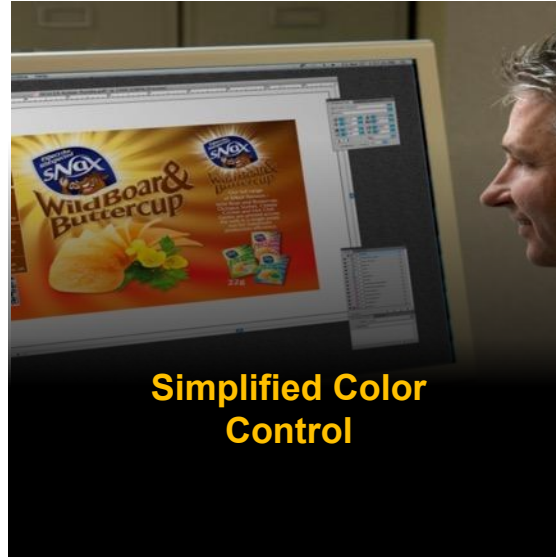


Industry needs

Brand owners



Prepress service providers



Printer/Converters



Kodak's Flexo Packaging Portfolio

Differentiated technology and solutions



FLEXCEL NX
System



FLEXCEL Direct
System



Media
Digital and Analog Flexo
plates, films and sleeves



APPROVAL
Media



Miraclon
Letterpress
Plates



Production
Workflow

Backed by World Class Service and Support

Packaging Printing - Corrugated, Folding carton, Flexible,
Labels

JIT production, shelf-appealing decoration



Flexcel NX System

Addressing needs of core value chain

Efficiency

Productivity

Consistency

Fidelity

Flexibility

Complexity

- Increased yields for printers; reduced waste, greater efficiency
- Consistent plate making and printing; predictable on-press performance
- Print with fewer colors
- Image reproduction to rival offset and gravure
- Maximize on-shelf impact for consumers
- Simplify prepress



FLEXCEL NX SYSTEM

Value in the pressroom

Average cost model for a \$10M flexo printer

Category	Current costs as % of gross sales	Annual cost based on \$10M sales revenue
Administration	9.0%	\$900,000
Sales	4.0%	\$400,000
CSR, ESTIM	4.0%	\$400,000
Prepress Labor	2.0%	\$200,000
Prepress Materials	1.5%	\$150,000
Outside Prep Costs	0.1%	\$10,000
Press Make-ready	13.0%	\$1,300,000
Press Run Time	29.0%	\$2,900,000
Press Run Substrate / Ink	29.0%	\$2,900,000
Other Outside	1.0%	\$100,000
Finishing	2.5%	\$250,000
Interest Expense	2.0%	\$200,000
Profit	2.9%	\$290,000

70%

Press room savings are so substantial that they mitigate plate spend.

Up to 20% savings in make-ready waste
Up to 10% increase in press utilization
Up to 10% savings in ink usage

Actual cost savings depend on application, substrate and production operation

Jim Aust – Industry Consultant



Flexcel NX System: Simple integrated solution

Choice of five output sizes



Flexcel NX Wide 5080
System



Flexcel NX Wide
System (4260)



Flexcel NX Wide
3547 System



Flexcel NX Mid
System



Flexcel NX Narrow
System

Versatile media portfolio



Flexcel NXH Plate

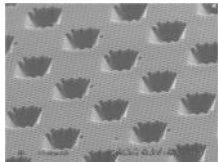


Flexcel NX Thermal Imaging Layer



Flexcel NXC Plate

Added-value print application software



Advanced **DigiCap** NX Patterning with Advanced Edge Definition
Hyperflex NX

4800 x 9600 High-Resolution Imaging capability (when required)

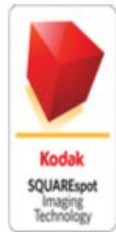
Spotless Printing Solution

Maxtone SX Screening

Flexcel NX System

Differentiated technology delivers customer value

Disruptive technology platform



High
resolution
materials



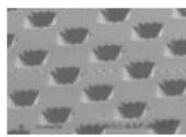
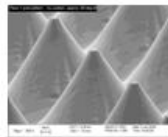
Unique
lamination
process



Differentiated
software
solutions

- ✓ High resolution thermal imaging
- ✓ Specialized coating
- ✓ 20+ years and \$300m investment
- ✓ Highest resolution flexographic plate making process

Customer value



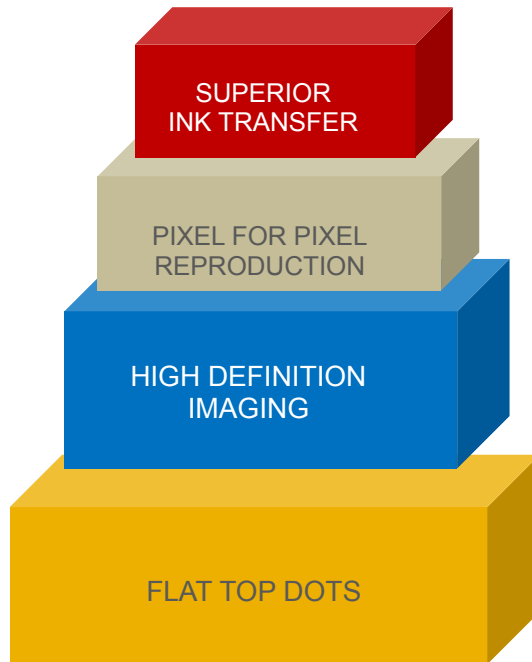
- ✓ Stability
- ✓ Consistency
- ✓ Image reproduction
- ✓ Ink transfer

Reduced
total cost
of
ownership



Industry-changing technology

Kodak Flexcel NX System



Results:

- ✓ Up to 10% reduction in ink usage
- ✓ Image reproduction that rivals offset and gravure
- ✓ Consistency and predictability never experienced before in flexo
- ✓ Up to 20% reduction in press setup time and waste
- ✓ Up to 10% increase in press utilization

A full Portfolio for Corrugated Printing

Differentiated solutions for pre-print and post-print applications

DIGITAL IMAGING SYSTEMS

FLEXCEL NX Wide and
FLEXCEL NX Wide 5080 Systems



DIGITAL SHEET PHOTOPOLYMER

FLEXCEL NXH Plates
FLEXCEL NXC Plates



ANALOG SHEET PHOTOPOLYMER

FLEXCEL SRH, SRM, SRC / SRC-K Plates
DITR Film



LIQUID PHOTOPOLYMER

DITR Film

