

NX WIDE 5080

MARKET-PROVEN
ADVANTAGES FOR
LARGE-FORMAT
APPLICATIONS



Brand new system

In keeping with Kodak's commitment to ongoing product development, the award-winning **Kodak Flexcel NX System** portfolio has expanded once again with the addition of the **Kodak Flexcel NX Wide 5080 System**. Capable of producing **Kodak Flexcel NX Plates** up to a maximum size of 50 x 80 inches, the system allows users to maximize plate making productivity and minimize waste, and to bring the benefits of the **Flexcel NX System** to print applications with larger form size requirements. When combined with the new **Kodak Flexcel NXC Plate** it makes an ideal solution for the post-print corrugated market.

The **Kodak Flexcel NX Wide 5080 Imager** utilizes the same award-winning imaging technology common to all **Kodak Flexcel NX Imagers**, and offers operator-friendly functionality and rapid imaging speeds. In addition to the **Kodak Flexcel NX Thermal Imaging Layer**, the device offers full compatibility for **Kodak DTR 4401 Film** imaging and an opportunity to add a Hybrid Option for digital offset plate imaging.

Do more with less

The fine image reproduction, print contrast and high densities delivered by the **Flexcel NX Wide 5080 System** allow prepress service providers and converters to compete for business traditionally beyond the capabilities of flexo, enabling print buyers to take advantage of both the flexibility and cost-effectiveness of flexo and the quality they would normally expect from offset, gravure or digital printing.

In addition, **Flexcel NX Plates**—with enhanced ink transfer capabilities and high-resolution, flat-top dot structure—enable print efficiencies that include faster start up times, reduced waste and longer plate life. Plate surface texturization enabled by **Kodak DigiCap NX Patterning** means that you can expect higher densities, a wider color gamut and improvements in combination plate utilization, opening up the opportunity to reduce the number of plates required per job.

High-quality imaging for digital flexo plate making

Building on our success and expertise in thermal CTP technology, **Flexcel NX Imagers** utilize **Kodak SQUAREspot Imaging Technology** to deliver exceptional quality, productivity and consistency. The imager creates a mask for plate making—imaging the **Flexcel NX Thermal Imaging Layer** at an impressive speed—and features user-friendly semi-automatic loading and unloading.

Prior to traditional UV exposure and processing, the imaging layer is laminated to a **Flexcel NX Plate**, a key process that eliminates the presence of oxygen and ensures the creation of full-amplitude flat-top dots that are a faithful 1:1 reproduction of the original digital file.

A complete solution

Kodak combines expertise in digital imaging technology and materials science to bring you more than individual components; the **Kodak Flexcel NX Wide System** is a full solution for digital flexo that includes software, imager, plate making processes and plate materials. All components of the system are optimized to work efficiently together, bringing you best-in-class capabilities for high-definition flexo printing.

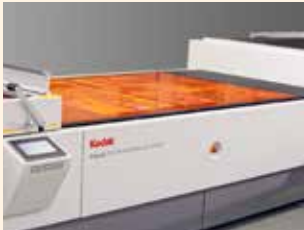
In addition, when integrated with **Kodak Insite Portal Products**, **Kodak Prinergy Workflow** and the **Kodak Spotless Flexographic Solution**, the **Flexcel NX Wide 5080 System** forms part of a complete **Kodak Solution** that delivers high quality, efficiency and automation to packaging prepress service providers and printers.

Completely integrated turnkey solution



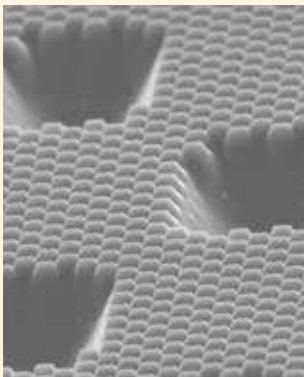
Kodak Flexcel NX Wide 5080 Imager

The NEW! **Flexcel NX Wide 5080 Imager** enables plate making up to 50" x 80," and is designed with operator friendly features in mind. Air cushion technology and leading edge detection systems facilitate the loading and unloading of large format materials, and **Kodak SQUAREspot** imaging technology delivers stable, predictable imaging that can be relied upon day after day.



Kodak Flexcel NX Wide 5080 Laminator

The **Flexcel NX Wide 5080 Laminator** is used to laminate the Thermal Imaging Layer to the **Flexcel NX Plate** prior to exposure and processing. While quick and simple, the lamination stage is critical because it removes all oxygen between the mask and the plate, allowing the creation of full-amplitude flat top dots. The new **Flexcel NX Wide 5080 laminator** is based upon a well-established successful design with enhanced features that facilitate switching between plate sizes and thicknesses.



Kodak TIFF Front End Software

Powerful **Kodak TIFF Front End Software** drives the **Flexcel NX Imager** and allows operators to preview and inspect files for accuracy before imaging, and optimize media usage by arranging multiple separations on a single plate. The result is outstanding device control and job management, fast processing speeds and simplicity of operation.

Kodak DigiCap NX Patterning

Award-winning **Kodak DigiCap NX Patterning** is implemented in the **Kodak TIFF Front End**. It utilizes the high-resolution capabilities of the **Flexcel NX Wide 5080 System** to create a micro-texturization pattern on the surface of all plate elements, significantly boosting ink transfer efficiency.



Kodak Flexcel NX Thermal Imaging Layer

The unique formulation of the **Flexcel NX Thermal Imaging Layer** allows high resolution and fast imaging, and intimate optical contact with the plate during UV exposure. The product is available in two variants with the standard version suitable for platemaking with **Flexcel NXH Plates** up to 42" x 60" in size. The new **Flexcel NX Thermal Imaging Layer-R** has been specifically designed for use with plate formats 42" x 60" and larger, and with all sizes of **Flexcel NXC Plates**.

Kodak Flexcel NXH and NXC Plates

Flexcel NX Plates are reliable, high-quality flexographic plates designed to print on a wide variety of substrates. They offer superior ink transfer, smooth solids, uniform laydown, robust on-press performance and excellent ozone resistance. **Flexcel NXH Plates** are designed to print on a wide variety of substrates, including, films, foils, paper, shrink films, pressure sensitive labels, envelopes and pre-print liner, while **Flexcel NXC Plates** are designed for post-print corrugated applications.

Accessories:



Densitometer

The X-Rite 361T UV densitometer, supplied as a standard accessory with every **Flexcel NX Wide 5080 System**, is a valuable tool for imaging set-up, troubleshooting and quality control.



Media Rack

A convenient mobile media rack, designed to be placed adjacent to the **Flexcel NX Wide 5080 Imager**, ensures that sheets of Thermal Imaging Layer-R are close at hand when required for loading.



Rolling Plate Cart

A tilting rolling cart facilitates the safe transportation of wide format plates between lamination, exposure and processing stations.

Kodak Flexcel NX Wide 5080 System specifications

Kodak Flexcel NX Wide 5080 Imager

Physical characteristics

Imager dimensions (H x W x D)	120 x 323 x 224 cm (47 x 127 x 88 in) Loading table height: 84 cm (33 in)
Debris removal cabinet (UDRC)	86 x 56 x 56 cm (34 x 22 x 22 in)
External vacuum pump (H x W x D)	51 x 67 x 144 cm (20 x 26 x 57 in) Required for imaging of offset plates only
Weight	1760 kg (3870 lb)

Workflow specifications

Workflow connectivity	Kodak TIFF Front End Software Optional: Kodak Prinergy Workflow System
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Specifications for imaging Kodak Flexcel NX Thermal Imaging Layer (TIL)

Throughput* (includes loading and unloading)	<p><i>With DigiCap NX Patterning applied:</i> Imaging rate: 12.5 m²/hr</p> <p>3.5 wide-5080 sheets per hour 5.5 wide sheets per hour 7.5 mid sheets per hour 9.5 narrow sheets per hour</p>	<p><i>Without DigiCap NX Patterning applied:</i> Imaging rate: 6.5 m²/hr</p> <p>2.0 wide-5080 sheets per hour 3.5 wide sheets per hour 4.5 mid sheets per hour 5.5 narrow sheets per hour</p>
Media sizes	<p>640 x 838 mm (25.2 x 33 in), to make 610 x 762 mm (24 x 30 in) plate</p> <p>838 x 1097 mm (33 x 43.2 in), to make 800 x 1067 mm (31.5 x 42 in) plate</p> <p>940 x 1230 mm (37 x 48 in) to make 900 x 1200 mm (35.4 x 47.2 in) plate</p> <p>1097 x 1554 mm (43.2 x 61.2 in), to make 1067 x 1524 mm (42 x 60 in) plate</p> <p>1283 x 2062 mm (50.5 x 81.1 in) to make 1270 x 2032 mm (50 x 80 in) plate</p>	
Resolution	2400 dpi	
Repeatability	16 microns between 2 consecutive exposures on the same TIL left on the drum	
Screening	<p>300 lpi maximum linescreen (0.4% to 99.6%)</p> <p>Kodak DigiCap NX Patterning</p> <p>Kodak Maxtone Screening and Kodak Maxtone CX Screening</p> <p>Kodak HyperFlex Ready Imaging Technology</p> <p>Kodak Staccato Screening</p>	

Specifications for imaging Kodak DITR 4401 film

Throughput* (includes loading and unloading)	<p><i>Imaging rate 6.5 m²/hr</i></p> <p>2.0 sheets per hour 1245 x 2007 mm DITR (49 x 79 in)</p> <p>2.5 sheets per hour 1097 x 1554 mm DITR (43.1 x 61.1 in)</p> <p>4.5 sheets per hour 838 x 1123 mm DITR (33 x 44.2 in)</p> <p>6.5 sheets per hour 600 x 750 mm DITR (23.6 x 29.5 in)</p>
Media sizes	<p>600 x 750 mm (23.6 x 29.5 in)</p> <p>838 x 1123 mm (32.9 x 44.2 in)</p> <p>1097 x 1554 mm (43.1 x 61.1 in)</p> <p>1245 x 2007 mm (49 x 79 in)</p>
Resolution	2400 dpi
Screening	200 lpi maximum linescreen (2% to 98%)

* Maximum imaging rate is based on 1554 mm media around the drum.
Maximum productivity for continuous operation with 15 seconds/cycle operator time.

The platesetter is a Class 1 Laser Product and fully complies with EN60825-1 and US Federal Regulations 21 CFR 1040.10 - CDRH.

Kodak Flexcel NX Wide 5080 System specifications (continued)

Specifications for imaging 830 nm thermal imaging IR digital offset plates with Hybrid Option

Throughput (by plate size mm) **Plates per hour: F-speed	$\frac{830 \times 1030}{20}$	$\frac{1600 \times 2062}{13}$
Repeatability	16 microns between 2 consecutive exposures on the same plate left on the drum	
Accuracy	± 35 microns (1.4 mil) between 2 plates imaged by different devices	
Registration	25 microns (1.0 mil) between image and edge at registration points	
Media thickness	0.20 - 0.40 mm (0.008 - 0.016 in)	
Media sizes	<i>Around drum dimensions:</i> min. 394 mm (15.511 in), max. 1600 mm (62.992 in) <i>Along drum dimensions:</i> min. 394 mm (15.511 in), max. 2083 mm (82.007 in)	
Screening	450 lpi max. linescreen 20 micron Kodak Staccato Screening	

**Maximum productivity for continuous operation with 15 seconds/cycle operator time and Kodak qualified media with 110 mJ per cm² sensitivity. Imaging time is dependent on media sensitivity and qualified screening. Consult your Kodak representative for specific media information.

Kodak Flexcel NX Wide 5080 Laminator

Dimensions (H x W x D)	78 x 134 x 277 cm (30.7 x 52.7 x 109 in), table height with handle: 131 cm (51.5 in)
Weight	950 kg (2094 lb)
Supported plate sizes	610 x 762 mm (24 x 30 in) 800 x 1067 mm (31.5 x 42 in) 900 x 1200 mm (35.4 x 47.2 in) 1067 x 1524 mm (42 x 60 in) 1270 x 2032 mm (50 x 80 in)

Kodak Flexcel NX Wide 5080 System

Operating conditions

Temperature	17°- 30°C (63°- 86°F)
Humidity	40%- 60% relative humidity, non-condensing

To learn more about solutions from Kodak:
Call +1-866-563-2533 in North America

Produced using **Kodak** Technology.

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