ThermoFlexX

HIGH QUALITY, MODULAR AND OPEN SOLUTIONS FOR FLEXO & LETTERPRESS PLATES

Labels and packaging represent growth markets

Product decoration and packaging is all around us and is here to stay.

Run lengths of label and packaging jobs are getting more versatile. To optimize the productivity and flexibility of their operations, flexo and letterpress printers and repro houses are looking for integrated plate production solutions.

These solutions include professional digital imagers, a flexible workflow to manage the whole operation, all the necessary finishing systems and consumables, as well as appropriate service support to guarantee reliable production. The main decision criteria for these investments are enhanced quality, better image control, modularity and cost optimization.

ThermoFlexX solutions meet the printers' demands

Customer intimacy

Xeikon prides itself on the intimate relationships it has built with its customers. All the solutions offered by the company are developed to solve specific customer challenges. The company maintains its "customer intimacy" by being open and approachable at all the levels of the organization.

Experience

Printers and prepress tradeshops can depend on Xeikon Prepress for experience and know-how. As a renowned innovator in the printing industry for more than 20 years, the company has been offering CtP solutions for the Newspaper, Commercial & Screenprinting Industry.

At the same time, Xeikon offers cutting edge digital presses, application specific toners, digital front ends and professional workflow integration for labels and packaging applications.

Professional quality

One of the key benefits of the ThermoFlexX imagers is their 5080ppi imaging resolution. In addition, ThermoFlexX customers swear by the manufacturing quality and reliability of these solutions.

Cost driven benefits

Clever technical innovations, such as the unique sliding vacuum capability of the ThermoFlexX imagers, are based on a deep understanding of the operators' needs for quick and accurate handling of plates, while saving costs.

Choice of plates

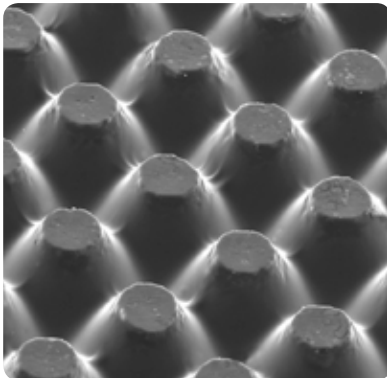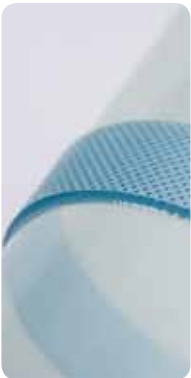Printers and repro houses can use their ThermoFlexX imagers to expose any of the leading flexo and letterpress plates. The choice is theirs, since they don't have to be locked into a 'closed system solution'. With ThermoFlexX, they have complete freedom.

Openness and modularity

ThermoFlexX imagers accept 1-bit TIFF files from any workflow or front-end. And the workflow can be as simple or as complex as the printer or repro house needs.

Professional support

In a production environment, any solution is only as good as the service support behind it. In case of ThermoFlexX solutions, the installation and support teams are always available to help customers, together with the experts from local distribution partners.

The choice is yours

Whether you need tags, labels, flexible packaging, folding carton or corrugated packaging, ThermoFlexX imagers can do it all. They offer the required combination of size and productivity for any narrow, mid, or wide web application.

All standard configurations are clear and straight-forward with no surprises of "extra" options!
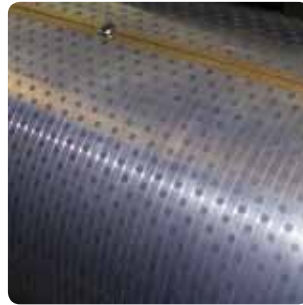
A broad range of ThermoFlexX digital imagers

		ThermoFlexX 18	ThermoFlexX 20	ThermoFlexX 30	ThermoFlexX 48	ThermoFlexX 60	ThermoFlexX 80
Maximum plate size		508 mm x 420 mm	635 mm x 500 mm	635 mm x 762 mm	900 mm x 1200 mm	1067 mm x 1524 mm	1270 mm x 2032 mm
Laser power	Standard	10 W	20W	20W	35W	50W	50W
	Optional		35W	35W	50W		
Resolutions	Standard	2400, 2540dpi	2400, 2540dpi	2400, 2540dpi	2400, 2540dpi	2400, 2540dpi	2400, 2540dpi
	Optional	4000, 4800, 5080dpi	4000, 4800, 5080dpi	4000, 4800, 5080dpi	4000, 4800, 5080dpi	4000, 4800, 5080dpi	4000, 4800, 5080dpi
Productivity*	Standard	1 sqm/h	1.5 sqm/h	1.5 sqm/h	2.5 sqm/h	3.75 sqm/h	Depends on configuration
	Optional		2.5 sqm/h	2.5 sqm/h	3.75 sqm/h		
Auto clamping				X	X	X	X
Slow drum rotation							X
Applications		Tags & Labels	Tags & Labels Folding Cartons	Labels Folding Cartons	Labels Flexible Packaging Folding Cartons	Flexible Packaging Folding Cartons	Flexible Packaging Folding Cartons Corrugated Packaging

"Productivity* Standard" is at 2540 dpi with Standard laser power.
"Productivity Optional" is at 2540 dpi with Optional laser power.*
By default all TFxX imagers are equipped with a Vacuum drum, Optional you can also order a Hybrid drum.

Relevant unique features

No other digital imager offers the unique Vacuum Slider Concept (VSC). Based on smart design, printers can insert the plate in the advanced clamping system and slide the vacuum setting towards the plate edge. "That's it!" No more need for special tape constructions or cutting plates to fit dedicated vacuum zones, thus, allowing the use of cut-off scraps!

Unique resolution flexibility

The ThermoFlexX imagers excel in their choice of resolution. Any of the following resolutions can be used: 2400, 2540, 4000, 4800 or 5080. With the 5080dpi resolution, we push the quality standards to a higher level.

- Smaller screen dots resulting in finer details
- Cleaner mid-tones
- Sharper text, lines, barcodes and QR codes
- Capability to reproduce full image contrast, thanks to the abundance of gray levels even at high screening levels
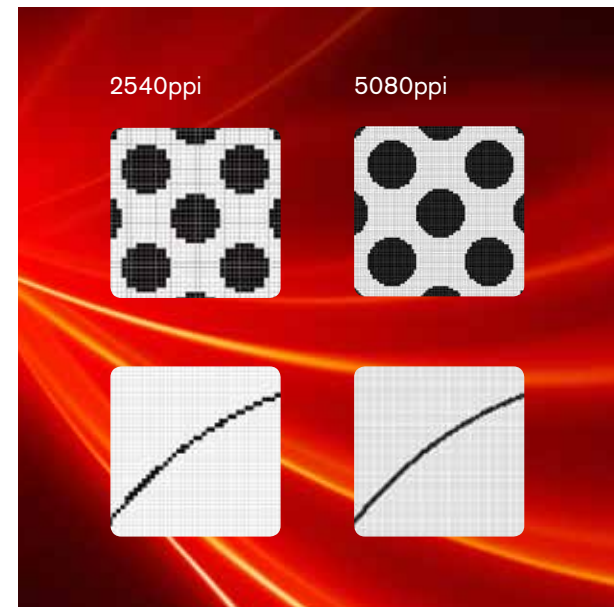
Smart technical characteristics

ThermoFlexX imagers are designed for smooth and productive operation.

- The advanced clamping system facilitates ergonomic and easy plate mounting.
- The standard vacuum drum and optional hybrid vacuum / magnetic drum assure accurate plate positioning and optimal exposure of flexo and letterpress plates.
- The integrated display enables fast, user friendly and reliable control of the imager.

Gray levels*	2540ppi	5080ppi
Screen ruling		
150lpi (60l/cm)	287	1144
175lpi (70L/cm)	211	842
200lpi (80L/cm)	161	645

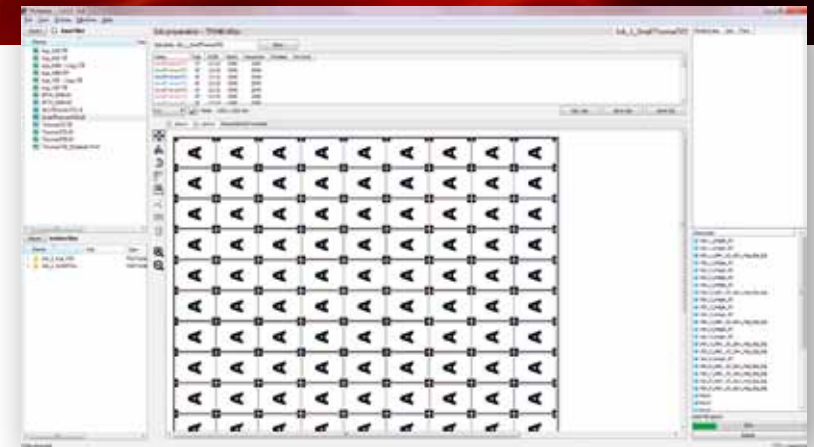*256 gray levels are required to deliver good image quality*

2540ppi   5080ppi

Professional and modular ThermoFlexX workflow

Via 1bit TIFF data input into the ThermoFlexX MultiPlate bitmap buffer, printers and repro houses can integrate a ThermoFlexX imager into any existing prepress workflow. The screened 1-bit TIFF file can be a single job file, which will be assembled on a template, or it can be an already assembled 1-bit TIFF plate.

An easy-to-use graphical interface helps you guide jobs through the MultiPlate and prepare the plate template for efficient and cost-conscious imaging. Features like: auto-arrange jobs, file cropping, gap customization, step and repeat functionality, helps you optimizing plate usage and as such reducing waste.

File import is as simple as dragging them into hot folders, which can be pre-configured with imager specific settings, like resolution, laser power,…

ThermoFlexX workflow

Any workflow → **Screened 1-bit TIFF** → **Multiplate** → **Output**

ThermoFlexX 80 - Customer Driven Technology

ThermoFlexX FlexTray

With its unequalled loading and unloading concept, the ThermoFlexX 80 offers efficient and problem free plate handling by means of the FlexTray. The FlexTray facilitates the plate transport from the warehouse to the production area, easily aligning with any flexo equipment in the prepress room. The FlexTray table can be tilted so it simplifies transport from one room to another.
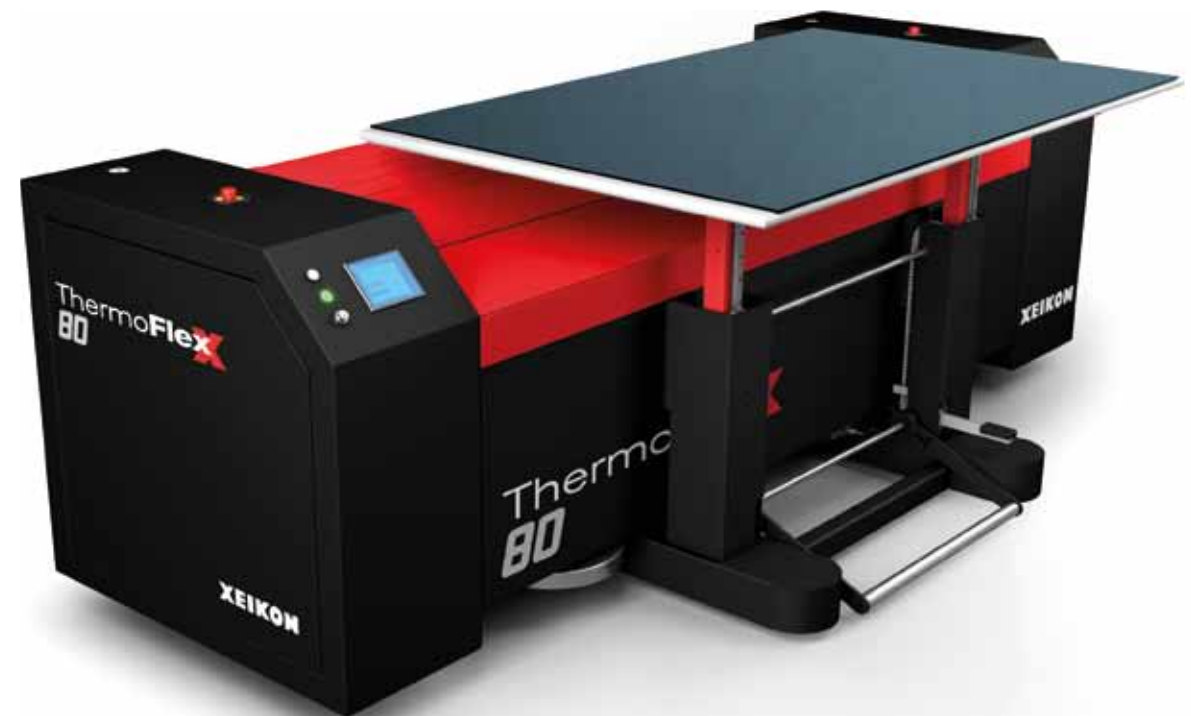The FlexTray can be adjusted in height in order to level with all exposure and processing equipment.

As an integral part of the ThermoFlexX 80, the FlexTray smoothly positions over the imager by means of guides and air valves. The guides navigate the FlexTray into the correct position over the ThermoFlexX, while the air valves generate an air cushion between plate and table resulting in a smooth plate loading and unloading.

Grow with your business

Have your ThermoFlexX 80 imager grow along your own growth path and speed thanks to unique modularity. The possibility of adding an additional imaging head, not only results in more productivity, but also offers you an important level of redundancy.

Thermo**Flex**X

Customer driven technology

ABOUT XEIKON

Xeikon Prepress has a long lasting reputation of manufacturing high quality Computer to Plate equipment. The basysPrint CtCP systems offer flexibility combined with outstanding quality using Conventional offset plates resulting in a very attractive ROI for commercial printers. The Newspapers CtP products, manufactured and designed under an exclusive OEM agreement for Agfa Graphics, are considered as the reference in the Newspaper industry.

For the flexographic market, Xeikon Prepress offers digital platemaking systems under the ThermoFlexX brand name. ThermoFlexX systems provide high-resolution plate exposure combined with flexibility and productivity.

Xeikon is also an innovator in digital printing technology. The company designs, develops and delivers web-fed digital color presses for label and packaging applications, document printing, as well as commercial printing. These presses utilize LED-array-based dry toner electrophotography, open workflow software and application-specific toners. All the Xeikon solutions are designed with the overarching principles of profitability, quality, flexibility and sustainability in mind. With these guiding principles and a deep, intimate knowledge of its customers, Xeikon continues to be one of the industry's leading innovators of products and solutions.

For more information,
visit **www.thermoflexx.com.**

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