

# XSYS

Print solid. Stay flexible.



## TFxX 48



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## HIGHEST QUALITY IMAGING

ThermoFlexX imagers deliver superior image quality, thanks to a unique design that incorporates laser fiber technology, recognized as the pinnacle in digital imaging. Crafted and engineered in Belgium by machine and laser imager design experts, these machines boast the finest heavy-duty industrial components meticulously assembled according to engineering standards.

## EASY INTEGRATION

ThermoFlexX imagers are engineered to be open format, supporting any image resolution and seamlessly integrating with any workflow or RIP capable of generating industry-standard 1-bit TIFF files. Closed file formats like LEN can be effortlessly converted. Moreover, these imagers are compatible with all digital plates, regardless of brand or type, including solvent, water-washable, or thermal plates.

## EASY PARTIAL PLATES

Clever technical innovation, such as the unique vacuum slider, demonstrate our understanding that users need to save cost and time. No more taping partial plates!

## POWERFUL AUTOMATION

Manual plate handling is a significant contributor to plate damage. Consequently, the ThermoFlexX 48 is equipped to automatically load new plates, unload imaged ones to the FlexTray or unload them to a Catena-E UV LED exposure unit. The subsequent preloaded plate can seamlessly replace the previous one without any need for operator intervention!

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48**

- Maximum plate size: 900x1200mm (35 x 48").
- Medium web segment.
- Available with hybrid drum for ultimate flexibility.
- WoodPecker Surface Micro Structures.

**SUPPORTS  
GROWTH WITH  
MODULAR  
AUTOMATION**





# ULTIMATE ACCURACY FOR PERFECT IMAGING

Build on a robust base platform, the imaging system is driven by linear motors with ultimate accuracy. The direct drive drum motor guarantees continuous speeds without fluctuations.

# PROTECTED TO PREVENT DOWNTIME

A plate flying off because of loading errors can happen on any imager. These accidents can seriously damage the imaging unit leaving it out of operation for days as a consequence. A protection plate, installed on a separate rail system intercepts impact from a plate at any time.

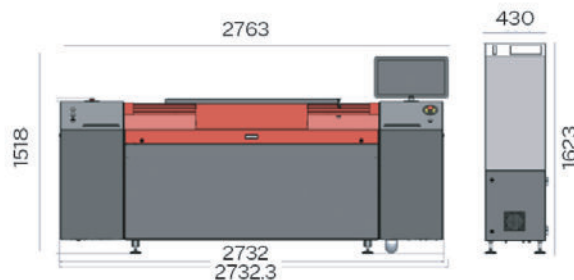
# INDUSTRY LEADING PRODUCTIVITY

The imaging system combines its optimum quality with superior speed. The standard productivity up to  $6\text{m}^2/\text{h}$  (at 2540dpi) can be doubled up by the unique dual head imaging concept up to max  $6\text{m}^2/\text{h}$  at 2540dpi, while offering pixel-by-pixel accuracy. The system can be switched to work with 1 head for redundancy.

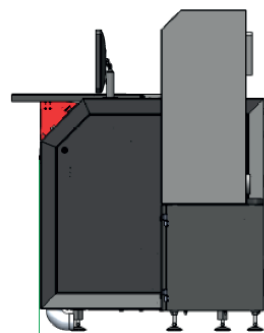
# CONVENIENT OPERATION

The ThermoFlexX 48 imager boasts a contemporary user interface, seamlessly navigable via a premium rotating touch screen. This interface presents machine controls, a comprehensive job list complete with parameters, and an intuitive imaging preview, ensuring effortless operation.

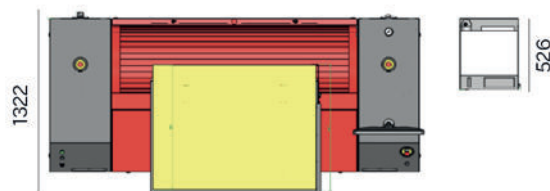
Front view



Side view



Floor plan



# INTERNAL MEASUREMENT FOR PIECE OF MIND

The revolutionary internal measurement cell enables automatic laser calibration, ensuring optimal consistency. Additionally, this system enables remote measurements for streamlined remote servicing.

# AUTO LOADING

The ThermoFlexX 48 can automatically load and unload plates with one touch of a button. An innovative guidance system makes sure that even thick plates, up to 6,35 mm (0.25”), can be seamlessly mounted on the drum, all automatically.

# WOODPECKER SURFACE SCREENING

All ThermoFlexX imagers are equipped to utilize the advanced Woodpecker surface screening options: Replay, Sharp, Nano, and Nevis. Leveraging the high-resolution optics of ThermoFlexX, these screens produce finer and higher frequency patterns for the micro structures. For more detailed information, consult the Woodpecker brochure!

# 3 COMPONENT IMAGING HEAD

The imaging system consists of 3 independent modules: motor, optics, electronics. This flexible design allows easy replacement of any module. Furthermore, with the internal measurement cell, optical fine-tuning can be remotely conducted by one of our experts.

# MULTI RESOLUTION

The ThermoFlexX supports 1-bit TIFF formats across all standard resolutions. These resolutions can be seamlessly combined on a single plate, with the automatic resolution switching system seamlessly executing the switch in the background. At the highest resolution of 5080dpi, quality standards are elevated to new heights, delivering smaller screens, finer details, and sharper text and line-work.



# ThermoFlexX 48

Technical characteristics	ThermoFlexx 40 E	ThermoFlexx 40 S
Laser type	Fiber laser 1064nm	
Laser power	50 W	100 W*
Standard resolution <sup>1</sup>	2400	2400
	2540	2540
	4000*	4000*
High resolution <sup>1</sup>	4000*	4000*
10.160 dpi for Security printing	4800*	4800*
	5080*	5080*
Productivity 2400dpi <sup>2</sup>	3	6*
Productivity 5080dpi <sup>2</sup>	1.5	3*
Image quality	at 2540 dpi:up to 175l / at 5080 dpi:up to 250lpi	
Hybrid Drum option	Optional	
Customised register pins		
Customized magnetic zones		
Loading table	Top loading table	
Clamping system	Automatic	
Resolution change	Automatic	
Plate loading	Manual/ Automatic	
Partial Plate handling	Automatic Vacuum Slider	
Maximum Plate sizes (drum dimensions)	900 x 1200mm or 35“ x 48“ (width: 1200 mm / circumference: 900 mm)	
Plate thickness	0.73 to 6.35 mm	
	0.029 to 0.25”	
Mountable plate materials	Flexo plates and letterpress plates on polyester base	
	Dry Films 0,2mm	
	Digital Screens Gallus Screeny	
	Steel backed plates require hybrid drum option	
Applications	Label & Tag	
	Folding Carton	
	Flexible Packaging	
Top & Bottom clamp space	15 mm / 0.6”	
Machine dimensions	Width: 2763mm / 108.8“	
	Depth: 1322 / 52“	
	Height: 1200mm / 47.3“	
Required Floor Space	3800 x 3500 mm	
	150“ x 138“	
Weight	2500 kg / 5512 lb	
Compressed Air	Min. 6 bar- free oil/condensation	
	Compressor not included - 0.5“connection	
Electrical connection	Voltage: 3x400 V (+/-5%) N, PE	
	Frequency: 50 Hz- 60 Hz	
	Fuse: 20A	
Exhaust & Filter system	External exhaust carbon filter system with carbon filter	
Operating conditions	Humidity, max 70%	
	Temperature 15-26° / 59-79 F/ (+/-2%)	
Multiplate Software	Windows 10/11 pc with intel i5 processor or equal.	
Platform Specification	min 16GB RAM	
	22“ HD Screen or better	
	1TB Hard Disk	
	Dual network interface	

**Please contact us for additional information.**  
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