ThermoFlexX 80

The ThermoFlexX 80 with its maximum plate size of 1270 x 2032 mm (50 x 80") is the perfect fit for high volume plate makers. It's an excellent choice for ambitious printers and trade shops to make plates in the shortest time possible at highest quality. ThermoFlexX 80 is an ideal size to handle larger plates or making large amounts of jobs together, reducing material waste to a minimum. ThermoflexX 80 is the ultimate flexo plate imager combining superior quality, handling and productivity.

High quality imaging

+ The new generation optical system offers superior quality thanks to a unique design using leading edge technology. The fiber laser represents todays best technology for digital imaging, offering superior quality. The robustly designed-ThermoFlexX is made using heavy duty industrial components, making high speeds possible without fluctuation and vibrations. This provides the most accurate and consistent imaging quality available today.

Ease of Use

+ The ThermoFlexX 80 can automatically load and unload plates with one touch of a button. Manual plate handling is one of the main causes of plate damage. With this in mind we designed the FlexTray. This mobile table, which can be adjusted in height and tilted, facilitates very easy plate handling and transport.

Low Plate Waste

+ 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!

Open

+ ThermoFlexX imagers excel in their choice of resolution. Any of the industry standards can be used. ThermoFlexX imagers can be integrated with any workflow or RIP that can produce 1-bit TIFF file format. Closed file formats such as LEN-files can be seamlessly converted to 1-bit TIFF. ThermoFlexX can image all digital plates, any brand, solvent, water washable or thermal processing, and is compatible with all plate making equipment.
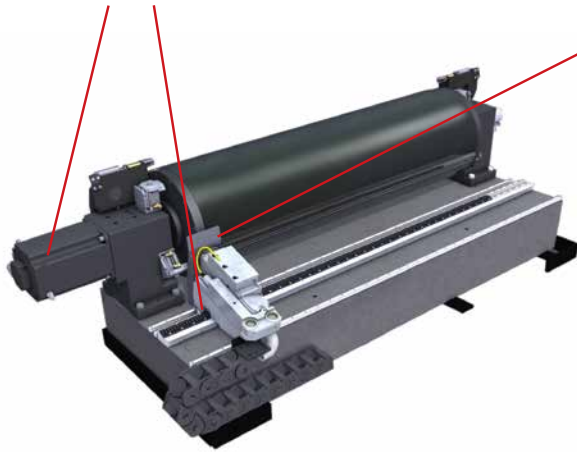
Productivity

+ The new imaging system is not only built for optimum quality, but also to combine this quality with superior speeds. Productivity up to $6m^2$/h can be achieved at the standard quality of 2540dpi. This can be doubled up to $12m^2$, thanks to our Dual Head Imaging concept. This concept also offers a certain level of redundancy.

Motion Accuracy

+ The robust design is based on a modular platform with a small footprint. The imaging system is driven by linear motors with ultimate accuracy. The direct drum drive guarantees a continuous speed without fluctuations.

Imaging Software

+ The ThermoFlexX imager is controlled by a 360° rotating display. This makes the machine accessible from any side. The intuitive interface shows the job list with all parameters and a preview of the currently imaging plate. The imaging progress on the plate preview screen is clearly visible all arround the plate room.

Laser Protection Plate

+ A plate flying off because of loading errors can happen on any CTP. 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.

Dual Head

+ Thanks to our option Dual Head Imaging concept the speed can be doubled, up to 12m^2/h at 2540 dpi. This concept also offers a certain level of redundancy.

Auto Loading

+ The ThermoFlexX 80 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.

Flextray

+ Manual plate handling is one of the main causes of plate damage. With this in mind we designed the Flextray. This mobile table, which can be adjusted in height and tilted, facilitates very easy plate handling and transport.

Automatic Calibration

+ The new generation optical system offers superior quality thanks to a unique design using leading edge technology. Our standard auto-calibration system guarantees consistency and high quality imaging.
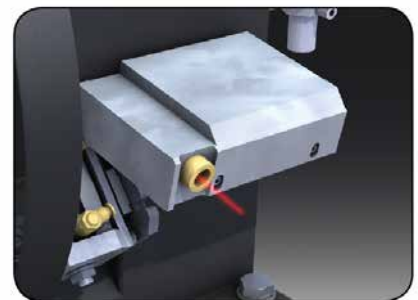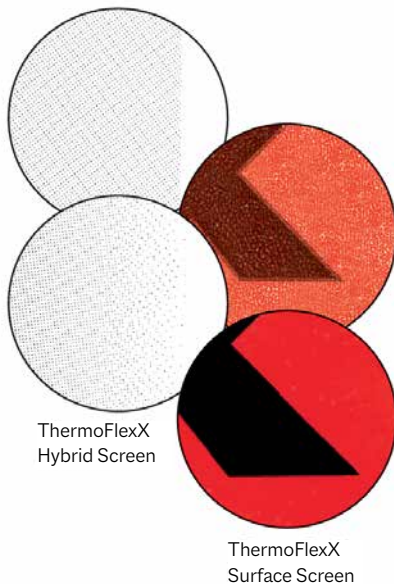
ThermoFlexX 80

3 Component Imaging Head

+ The imaging system consists of 3 independent modules: motor, optics and laser. This flexible design allows straight-forward replacement of any of the modules. It is even possible to perform optical fine tuning remotely. This makes service interventions simple and hardware upgrades effortless and straightforward.
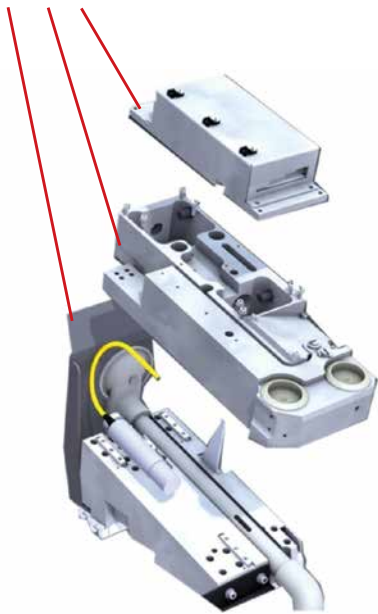
Innovative Screening

+ ThermoFlexX screening technology offers superb high-lights with a smooth transition to 0% tint value, while solids and line-work retain excellent detail.

ThermoFlexX
Hybrid Screen

ThermoFlexX
Surface Screen

Multi Resolution

+ ThermoFlexX supports all 1-bit TIFF formats from any RIP at all standard resolutions 2000, 2400, 2540, 4000, 4800, 5080 dpi. Closed file formats such as LEN files can be converted seamlessly to 1-bit TIFF format. In the Multiplate software, TIFF's with different resolution can be combined on one plate.

MultiPlate Preparation

+ MultiPlate is an intuitive interface providing amazing ease of use. 1-bit TIFF's are arranged automatically or manually and jobs of different resolutions can be combined. The status of different jobs is clearly presented. With the search and filter tool you can easily find files, even if they are stored in an archive.

High Resolution

+ With 5080 dpi resolution, we push quality standards to a higher level.
  + smaller screen dots & finer details
  + sharper text and line-work
  + full image contrast
  + greater production stability through platemaking and printing

2540   5080
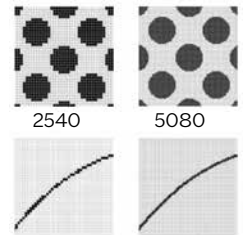
Automatic Vacuum Slider

+ Optimum plate handling and manipulation avoids accidental damage. The automatic vacuum slider, a unique feature on ThermoFlexX imagers, offers efficient operation for partial plates. By moving the slider to the edge of the plate the vacuum is concentrated beneath the plate, which eliminates the need for taping and foil covering but still allows full speed imaging.

Automatic Resolution Switching

+ The optical system is based on multiple lenses. We use the most suitable lens for each resolution without compromise in quality. Changing resolution is performed automatically in the background. The possibility of combining jobs with different resolutions on one plate saves time and avoids imposition mistakes.

ThermoFlexX 80

Technical characteristics	ThermoFlexX 80 E	ThermoFlexX 80 S	ThermoFlexX 80 D
Laser type	Fiber laser 1064nm		
Laser power	50 W	100 W*	2 x 100 W*
Standard resolution[1]	2400 2540	2400 2540	2400 2540
High resolution[1]	4000* 4800* 5080*	4000* 4800* 5080*	4000* 4800* 5080*
Productivity 2400dpi [2]	3	6*	12*
Productivity 5080dpi [2]	1.5	3*	6*
Image quality	at 2540 dpi: up to 175lpi / at 5080 dpi: up to 250lpi		
Loading table	FlexTray		
Hybrid Drum option Customized register pins Customized magnetic zones	No		
Clamping system	Automatic		
Resolution change	Automatic		
Focus setting	Auto focus		
Plate loading	Manual / Automatic		
Partial Plate handling	Automatic Vacuum Slider		
Maximum Plate sizes (drum dimensions)	1270 x 2032 mm or 50" x 80" (width: 2032 mm / circumference: 1270 mm)		
Plate thickness	0.73 to 6.35mm 0.029 to 0.25"		
Mountable plate materials	Flexo plates and letterpress plates on polyester base Dry Films 0,2mm Digital Screens Gallus Screeny		
Applications	Metal back plates Not possible		
	Corrugated Packaging Folding Carton Flexible Packaging		
Top & Bottom clamp space	15mm / 0.6"		
Machine dimensions	Width: 3550mm / 139.8" Depth: 1223 / 48.2" Height: 1200mm / 47.3"		
Required Floor Space	5500 x 5500 mm 216"x 216"		
Weight	3700 kg/ 8157 lb		
Compressed Air	Min. 6 bar - free of oil/condensation Compressor not included- 0.5" connection		
Electrical connection	Voltage: 3x400 V (+/-5%) N, PE Frequency: 50 Hz- 60 Hz Fuse: 20A Power consumption 5.6 kVA		
Exhaust & Filter system	External exhaust carbon filter system with carbon filter		
Vacuum system	External vacuum system provided		
Operating conditions	Humidity, max 70% Temperature 15-26°/ 59-79 F/ (+/-2%)		
Multiplate Software Platform Specification	Windows 10 Professional Server 64 bit 3 Ghz Quad Core (4 cores with Hyperthreading) 32 GB RAM DVD ROM/ Minimum 1 USB port for Dongle Dual 100/1000 Network Interface 1 TB hard disk		

1) By default one resolution (2400 or 2540dpi) comes with the imager. Additional resolutions are optional.
2) Depending on plate type and quality requirements. Thicker plates are imaged 60% of the mentioned productivity. * Optional
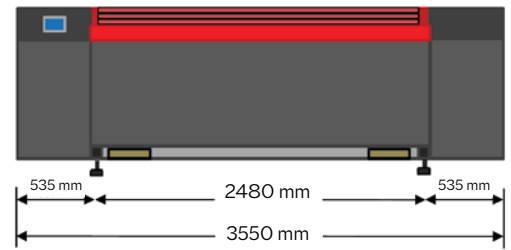
Front view

535 mm | 2480 mm | 535 mm
3550 mm

Side view

1092 mm
1193 mm
720 mm
195 mm 195 mm
1222 mm

Floor plan

Ancillary room or enclosure
Extraxtion motor & drum vacuum pump
Electrical mains in & Ethernet connection to PC
Dust extraction & Drum vauum out
Compressed air in 5"
Rear of machine Service & operator required
Max 10m tube (Tube provided)
Service access required
Service access required
≈5.5 m
Front of machine Plate loading, Flextray and service access required
Flextray (integral position)
≈5.5 m

Flextray

1800 mm
1000 mm
700 mm
1420 mm

Please contact us for additional information.

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SILVER 2022 ecovadis Sustainability Rating
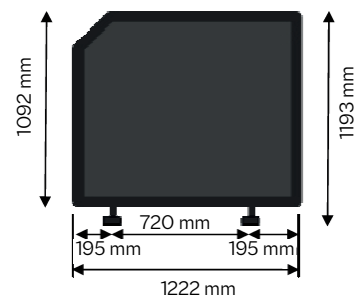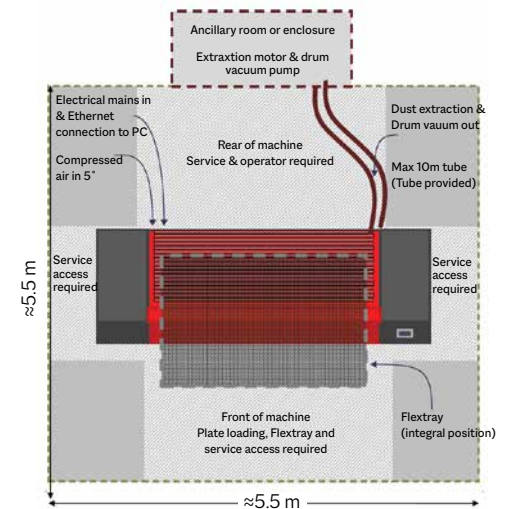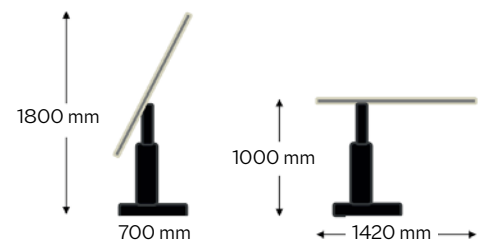
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02-2021