Kodak THERMOFLEX WIDE II 4260/5280 SPECIFICATIONS

Product Description

The Kodak® ThermoFlex® Wide II platesetter is a flexographic CTP device that is capable of imaging digital flexographic plates and sleeves. Key features of the product include:

- On-device plate load/unload
- Semi-automated conversion plate mode to sleeve mode
- Rapid sleeve mandrel changeover
- On-device sleeve load/unload

Features and Benefits

- Integral load/unload table minimizes potential damage to the LAMS layer of digital plates.
- Plates of any size and thickness up to 6.35 mm (0.25 in.) are easily loaded without masking the entire imaging drum.
- Sheet/sleeve mode conversion is greatly facilitated by the storage of the imaging drum on the device. No heavy lifting equipment or overhead gantry system is required.
- Sleeve mandrels are made up of two pieces:
  - A universal arbor with headstock/tailstock attachment features
  - A low weight, variable diameter shell to match the sleeve inner diameter.

  The two piece design eliminates the need for heavy moving equipment, ensures mandrel alignment accuracy, and allows for rapid mandrel changeovers on the device to accommodate repeat changes between sleeve jobs.
- Sleeve mandrels are cantilevered on the device to allow on-device sleeve loading/unloading.

Components

Standard Hardware

- Plot engine 1320 x 2032 mm (52 x 80 in.)
- Multi-beam 830-nm laser diode imaging head (2400 dpi)
- External support equipment with enclosures:
  - Externally vented debris removal vacuum and filter cabinet
  - Drum vacuum system
  - Chiller

Standard Software: TIFF Front End

Documentation Included

- *ThermoFlex Wide II Sheet Mode Operator Guide* (653-00728A)
- *ThermoFlex Wide II Sleeve Mode Operator Guide* (653-00752A)

Training Included: ThermoFlex Operation and Basic Maintenance (1 day)

Consumables Included	• One set of device and debris removal filters. The customer must purchase subsequent filters. • Two Kodak TFX Head windows

Options

Optional Hardware

Standard Sleeve	• Quick Change drum exchange system • Production Hub • One standard Universal Sleeve Arbor • One standard shell support shaft • One Sleeve Transport Cart • Sleeve Toolkit – software and workstation
Additional Sleeve	• Small Universal Sleeve Arbor (for smaller repeats) • Variable diameter shells (customer defined sizes within allowable limits)
Other options	• 5 days Start-up Assistance (SD-0015-6) – required for Sleeve option • Film option (facilitates film loading) • Internal venting on UDRC

Inputs

5280 Plate Option	• Around drum: 1320 mm (52 in.) maximum, 381 mm (15 in.) minimum • Along drum: 2032 mm (80 in.) maximum, 305 mm (12 in.) minimum
4260 Plate Option	• Around drum: 1067 mm (42 in.) maximum, 381 mm (15 in.) minimum • Along drum: 1524 mm (60 in.) maximum, 305 mm (12 in.) minimum
Standard Sleeve Option	• Maximum sleeve repeat: 1067 mm (42 in.) • Minimum shell bare cylinder diameter (BCD): 114.93 mm (4.52 in.) • Maximum sleeve width: 1829 mm (72 in.)
Small Sleeve Option	• 114.92 mm (4.52 in.) maximum shell BCD • 90.67 mm (3.57 in.) minimum shell BCD • 1651 mm (65 in.) maximum sleeve width

Media Type[1]	Thermal IR-sensitive flexographic photopolymer media and thermal film, 830nm
Media Thickness	Digital flexographic plates: 0.76 to 6.35 mm (0.030 to 0.250 in.) Thermal film: 0.18 to 6.35 mm (0.007 to 0.250 in.)

Output

Plate Image Area	• Around drum: plate size less 25.4 mm (1in.) • Along drum: plate size less 25.4 mm (1 in.) • Head and tail gripper margins
Sleeve Image Area	Along drum: sleeve media length less 25.4 mm (1in.)[2]
Resolution	2400 dpi
Halftone Screening[3]	2% to 98% at 175 lpi (ablated mask)
Maximum Line Screen[3] (recommended)	250 lines per inch; 98 lines per cm

Performance

Sheet Imaging Time[4] (excluding blank-skip)	V Speed[5]: 906 sq cm (140 sq. in.) per minute (66 mm (2.6 in.) per minute linear speed)
Sleeve Linear Imaging Time[4] (excluding blank-skip)	V Speed: Linear speed per minute: 97 to 86 mm (3.8 to 3.38 in.) (repeat size dependant)
Plate Load/Unload Cycle[6]	Three minute load time, two minute unload time
Plate Mode/Sleeve Mode Exchange Cycle[6]	Five minutes
SleeveLoad/Unload Cycle[6]	Two minute load time, two minute unload time
Repeatability[7]	8 microns (0.3 mils) between two consecutive exposures on the same plate left on the drum (at largest plate size)

[1] Kodak-approved media only. Contact a Kodak representative for specific media information.

[2] For Sleeves with a repeat length of 300 to 330 mm (11.81 to 12.99 in.), a 50-mm (1.97-in.) image offset must be added to the job.

[3] Results are dependant on media and environment (imager performance may exceed media capability).

[4] Imaging times are media-specific. Listed speeds correspond to an approximate media sensitivity of 4400 mJ/cm^2. Contact a Kodak representative for specific media information. Actual imaging speeds may be faster due to use of blank-skip which moves the imaging head quickly across areas not being imaged.

[5] Imaging speed on plates thicker than 4.7 mm (0.185 in.) is reduced to 670 sq cm (104 sq in.) per minute (50.8 mm (2 in.) per minute linear speed)

[6] Nominal operator time—actual operator times may vary.

[7] Results are media and environment dependant (imager performance may exceed media capability). This specification applies to features within an image, when using certified media plates with a modulus of elasticity of 10 x 10^6 psi or greater (aluminum).

Accuracy[7]	± 25 microns between two plates imaged by different ThermoFlex Wide II devices (at the largest plate size) after registration on the press
Environmental Conditions	• Temperature: 17° to 25°C (63° to 77°F)[8] • Relative humidity: 30% to 70% relative humidity, non-condensing, stable humidity[9]
Electrical and Pneumatic Requirements	
Imagers	• Electrical: 200 – 240VAC, 50/60 Hz, 24A, single phase • Pneumatic: 1130 liters/min. @ a maximum of 827 kPa (40 SCFM @ 120 PSI max.) shop air
Drum Vacuum System	Electrical: 340 – 500VAC, 50/60 Hz, 16A, three phase
Debris Removal System	Electrical: 200 – 240VAC, 50/60 Hz, 12A, single phase
Workstation	Electrical: 200 - 240VAC, 50/60 Hz, 8A, single phase or 120VAC, 50/60 Hz, 12A, single phase
Noise Emissions	The ThermoFlex Wide II output device has been designed, tested, and evaluated for compliance with the maximum noise emission limit permitted for a light industrial environment, 80 dB(A). Noise emissions from the ThermoFlex Wide II device will not exceed 77dB(A) when tested in accordance with EN ISO 7779:2001, Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment.
Equipment Dimensions	• Width: 3338 mm (131in.) • Depth: 1891 mm (74 in.) • Overall Height: 1391 mm (55 in.)
Equipment Weight	1727 kg (3800 lb)
Regulatory Compliance	
	• ELECTRICAL/MECHANICAL: UL 60950-1,CSA 60950-1, EN 60950-1 • LASER SAFETY: CDRH 21, CFR 1040, EN 60825-1 (Class 1 Laser Product) • EMC: FCC Part 15 (Class A), EN 55011/CISPR-11 (Class A), EN 61000-6-2

[8] Mandrel arbor, shells and imager must be stored in the same temperature.

[9] Flexographic media (plate and sleeves) is very sensitive to humidity changes. All media must be imaged at the same humidity value within the specified range.

Airborne Emissions	All Kodak ThermoFlex Wide II devices include a debris removal system to extract airborne emissions that may be released when imaging flexographic media. Extraction and filtration efficiency is media-dependent. Consult a Kodak representative for any supplemental air exchange or ventilation requirements.

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