TRENDSETTER NEWS 100 SPECIFICATIONS
(FOR DEVICES WITH SERIAL NUMBER NG0358 AND HIGHER)

Product description

The Kodak® Trendsetter® NEWS™ 100 is a fast, flexible, automatic platesetter optimized for exposing thermal plates for newspaper printing. The NEWS 100 features a SQUAREspot laser head and automatic plate loading and unloading of single-wide (broadsheet) format plates or double-wide (panorama) format plates. When configured to use single-wide plates, the NEWS 100 is able to load one plate at a time from a dual stack, automatically alternating between stacks for each single broadsheet job submitted. The NEWS 100 outputs imaged plates for delivery to a processor and punch bender.

Features and benefits

- Automatically loads, images, unloads, and feeds plates to a processor without operator assistance
- Manual bypass feature included

Prerequisites

- Prepress or platemaking environment: 17-30ºC (63-86º F), 20-70% relative humidity, non-condensing
- Site preparation per *Trendsetter NEWS Family Site Preparation Guide* (part number 73-3363)

Available configurations

- Trendsetter NEWS 100 engine only
- Trendsetter NEWS 100 with a Print Console workstation for TIFF-based workflow and Copydot Toolkit software for viewing, resampling, and cropping

Components

Standard hardware:

- Plot engine with automatic plate loader/unloader
- Thermal imaging head

Documentation:

- *Trendsetter NEWS Visual Reference Guide* (part number 653-01287A)
- Trendsetter NEWS online help
- *Trendsetter Output Devices Safety Guide* (part number 761-00029A)

Training included: Basic on-site operator training provided with installation

Consumables included: Filters

Options

Optional hardware:

- 1016 or 1270 dpi imaging
- High resolution (2400 or 2540 dpi) imaging—NEWS 100C
- Debris removal cabinet (requirement based on media qualification)
- Narrow format: single-wide plate down to 276 mm (10.87 in.) along-drum axis
- Wide format: image area up to 1118 mm x 700 mm (44 in. x 27.56 in.)
- Full format: image area up to 1118 mm x 838 mm (44 in. x 33 in.)

- Unload table with plate rotator
- Preloader interface to enable communication with a NELA PL-T plate loader

Optional training:

- Contact your Kodak representative for related course offerings.

Input

Plate size

	Standard	Wide Option	Full Option
Around-drum circumference			
Maximum	700 mm (27.56 in.)	700 mm (27.56 in.)	838 mm (33 in.)
Minimum	432 mm (17 in.)	432 mm (17 in.)	432 mm (17 in.)
Minimum —manual loading only	304 mm (12.4 in.)	304 mm (12.4 in.)	304 mm (12.4 in.)
Along-drum axis:			
Single-wide (broadsheet) plates			
Maximum	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)
Minimum	289 mm (11.375 in.)	289 mm (11.375 in.)	289 mm (11.375 in.)
Minimum (Narrow Format Option)	276 mm (10.87 in.)	276 mm (10.87 in.)	276 mm (10.87 in.)
Double-wide (panorama) plates:			
Maximum	985 mm (38.6 in.)	1118 mm (44 in.)	1118 mm (44 in.)
Minimum	451 mm (17.75 in.)	451 mm (17.75 in.)	451 mm (17.75 in.)

Plate type

Thermal IR-sensitive aluminum plates, 830 nm, qualified for Trendsetter NEWS

Note: Some plates may restrict the operating range of the platesetter system. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operations and storage.

Plate thickness

0.2 mm to 0.3 mm (0.008 in. to 0.012 in.)

Plate capacity

Plate thickness	Single-wide plates		Double-wide plates	
	Standard	Wide/Full	Standard	Wide/Full
0.2 mm (0.008 in.)	250	160	125	80
0.25 mm (0.010 in.)	200	120	100	60
0.3 mm (0.012 in.)	166	80	83	40

Output

Non-imaged areas

6.1 mm (0.24 in.) along leading edge and 4.0 mm (0.16 in.) along trailing edge

Note: The non-imaged area along the leading edge can be reduced to 2 mm (0.08 in.) with optional modified leading edge clamps. For this option, each clamp has a 126-mm (5-in.) long cut-out area.

Resolution
- NEWS 100: 1200 dpi
- NEWS 100C: 2400 dpi or 1200 dpi

Maximum line screen (recommended[1])
- NEWS 100: 200 lpi, 25 micron Kodak Staccato®
- NEWS 100C: 450 lpi, 20 micron Staccato

Specific functions

Autoloader: Automatic plate loading and unloading

Automatic registration
- Plate edge—registered horizontally to blocks mounted on drum
- Vertical edge located with precise optical sensing

Temperature compensation: Image size is adjusted automatically to compensate for plate thermal expansion and contraction.

Automatic clamping: Adjusts to any plate size (within the maximum and minimum allowed)

Processor interface: Monitors the status signals if provided by the processor, and the processor meets the requirements described in the Processor Interface Guide (part number 719-00694)

Performance

Throughput (plates per hour[2])

		NEWS 100 plates per hour	NEWS 100C plates per hour
Single-wide (broadsheet)	320 mm (12.5 in.)	110	100
	340 mm (13.37 in.)	107	96
	360 mm (14.2 in.)	104	93
	400 mm (15.75 in.)	100	88
Double-wide (panorama), 2 pages with center gutter	640 mm (25 in.)	78	59
	680 mm (26.75 in.)	74	56
	720 mm (28.3 in.)	71	53
	800 mm (31.5 in.)	65	49
	890 mm (35 in.)	60	45
	960 mm (37.8 in.)	57	42
	1030 mm (40.5 in.)—Wide or Full option	56	40
	1118 mm (44 in.)—Wide or Full option	53	37

1. Media dependent. Consult your Kodak representative for qualified media capabilities.

Repeatability	± 10 microns (0.4 mil) between two plates imaged by the same Trendsetter NEWS output device (at the largest plate size)
Accuracy	± 40 microns (1.6 mil) between two plates imaged by different Trendsetter NEWS output devices (at largest plate size)
Registration	± 25 microns (1.0 mil) between image and plate edge (at largest plate size)
Environmental conditions	• 17º to 30ºC (63º to 86ºF) and 20% to 70% relative humidity, non-condensing • Prepress or platemaking environment • Compliance with *Trendsetter NEWS Family Site Preparation Guide* (part number 73-3363) • Some media may restrict the operating range of the platesetter system. Consult the media manufacturer for their recommended temperature and humidity ranges for plate operations and storage.
Noise emissions	The Trendsetter NEWS 100 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 platesetter will not exceed 74 dB(A) when tested in accordance with EN ISO 7779:2001, *Acoustics—Measurement of airborne noise emitted by information technology and telecommunications equipment.*
Electrical requirements	• Rated 200 to 240 VAC (+6%/–10%) single phase, 50/60 Hz, 15 A • Maximum load conditions: 5 A, 1100 W imaging; 3 A, 600 W idle
Compressed air requirements	370 liters per min at 620 to 830 kPa (13 scfm @ 90 to 120 psig)
Equipment dimensions	• Width: 2830 mm (111.4 in.) • Depth: 1834 mm (72.2 in.)[3] • Height: 940 mm (37 in.) to top of housing; 1805 mm (71 in.) to top of loader; 2110 mm (83 in.) to top of unload table in raised position[3] • Output table height: 910 mm to 985 mm (36 in. to 39 in.)
Equipment weight	680 kg (1500 lb)
Regulatory compliance	• ELECTRICAL/MECHANICAL: CSA 60950-1, UL 60950-1, EN 60950-1, EN 60204-1, Low Voltage Directive 73/23/EEC, Directive of Machinery 98/37/EC • LASER SAFETY: CDRH 21 CFR 1040.10, EN 60825 (Class 1 Laser Product)

2. Maximum productivity for continuous operation with Kodak-qualified 90 mJ/cm^2 media sensitivity. Productivity may be reduced by job queuing delays, raster file format, raster file manipulations, plate processor transport speed, plate exposure requirements, and plate placement in load bay.
3. Unload table rotator is assumed.

- EMC: FCC Part 15, (Class A), EN 55022/CISPR-22 (Class A), EN 55024, EN 61000-3-3, Directive of Electromagnetic Compatibility 2004/108/EC