Data sheet

HP Scitex 15500 Corrugated Press

Grow your business with highly reliable digital printing
for corrugated applications

Transform your business and profit potential with an industry-proven workhorse that delivers efficient short-run corrugated displays and POS/POP graphics.

Drive down costs with efficient short-run printing

Quickly turn around corrugated jobs. With cost-effective inks and a media handling system that enables printing on severely warped media, you can improve margins—and the break-even point. Compelling economics help you convert more pages to digital light fastness.

- Maximize productivity with multi-sheet printing.

- Overcome the challenges of printing on warped boards, with HP Corrugated Grip technology keeping media flat for high-quality, productive printing.

- Benefit from embedded stack-to-stack automation, enabling you to produce up to 1M m^2 (10.76M ft^2) a year on a single press.

Deliver high POP/POS print quality

Achieve the image quality needed for close-viewing in-store applications without compromising on speed. By design, HP Scitex High Dynamic Range (HDR) Technology enables both speed and quality.

- Harness HP Scitex HDR Technology, using 15 pl, 30 pl, and 45 pl drops that are jetted simultaneously, to provide high print quality at high speed.

- Benefit from six-color, UV-curable HP HDR Scitex Inks, delivering a wide color gamut, sharp text and detail, and a glossy appearance.

HP HDR230 Scitex Inks for the HP Scitex 15500 Corrugated Press have achieved GREENGUARD GOLD Certification.[2]

Produce varied POP/POS graphics, displays, and packaging applications

Expand your portfolio and offer your customers more. Take advantage of the opportunity to grow your business with additional capabilities.

• Offer super-wide format printing up to 1.6 m x 3.2 m (63 in x 126 in).

• Print on corrugated cardboard in varied flute thicknesses and sizes.

• Benefit from highly flexible, low-odor[1], high-durability inks that meet certification requirements for sensitive indoor applications.

Harness an industry proven workhorse and a complete solution from a trusted partner

Going digital has never been so easy. HP offers end-to-end solutions, including prepress and workflow support, a broad services package, and management tools that help optimize performance.

• Meet your commitments with confidence, with a highly reliable digital press built for high-capacity production.

• Enjoy high press uptime, with dependable performance and fast and easy maintenance.

• Save time and costs by using HP PrintOS Mobile app and Print Beat to better manage and optimize production across your HP presses and printers.

• Thrive with HP global service and support programs offering a wide variety of programs to suit your needs wherever you are.

• Optimize press performance with HP Scitex Print Care and HP SmartStream Production Analyzer.

[1] HP HDR230 Scitex Inks are formulated to produce low-odor prints that are tested according to the DIN EN 1230-1 odor standard for paper and board intended to come into contact with foodstuffs. Print odor is rated on a scale of 0 (no perceptible odor) to 4 (strong odor). Print odor with HP HDR230 Scitex Inks at POP Production is rated 1-2 for prints produced in matte mode. Odor test results validated by internal HP testing.

[2] UL GREENGUARD GOLD Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg or greenguard.org. Tested on prints made on Scrolljet 904 175 g/m2 paper, printed at Fast Sample, 80% UV power, 220% ink coverage. Using UL GREENGUARD GOLD Certified inks does not indicate the end product is certified.

HP HDR230 Scitex Inks have been independently
tested by Papiertechnische Stiftung (PTS)
for Deinking and Recyclability and are
certified per INGEDE Method 11.[3]

HP Scitex Corrugated Grip

Print on industrial-grade standard boards – and save time and cost
The HP Scitex Corrugated Grip overcomes the challenges of printing on severely warped
corrugated boards. It easily handles boards with a warp of up to 40 mm (1.57 in),
automatically flattening it and holding it down throughout the printing process. The loading
table is covered by suction mat segments, positioned to ensure effective hold-down of
boards with varied dimensions.

HP HDR230 Scitex Inks

New economies for high-end digital corrugated printing
HP HDR230 Scitex Inks, designed together with the HP Scitex 15500 Corrugated Press, are
optimized for economic printing on paper boards. The ideal fit for corrugated applications, these
inks provide leading flexibility, rub resistance, and surface durability[3], and enable high throughput
on a range of flexible and rigid substrates. Low-odor prints[1] are tuned for indoor use[2].

HP Scitex High Dynamic Range (HDR) Printing Technology

Providing precision control over color and tone for clarity of image detail, and producing prints
with the highest dynamic range, HP Scitex HDR Printing Technology is ideal for corrugated
displays and high-impact graphics in packaging applications.

[3] Prints made with HP HDR230 Scitex Inks on Ekman
GMWM130, 130 g/m2 coated media have been
independently tested by Papiertechnische Stiftung
(PTS) and have been certified as having "Good
Deinkability" according to the European Recovered
Paper Council (ERPC 2009) Deinking Scorecard and
INGEDE Method 11 (PTS Test Report No. 20874-2,
May 2015). In addition, prints made with HP HDR230
Scitex Inks on PWell E-Flute corrugated board with
Graph+ liner media have been independently tested
by Papiertechnische Stiftung (PTS) per the PTS-RH
21/97 method for recyclability and are considered
"conditionally recyclable," which can be effectively
improved by dispersion (PTS Test Report No. 20874-1,
May 2015).

[4] In internal HP testing performed in January 2015,
samples of PWell E-Flute corrugated board with
Graph+ liner were printed in POP Production in
"Corrugated appearance" on an HP Scitex Press
with HP Scitex High Dynamic Range (HDR) Printing
Technology using HP HDR230 Scitex Inks and were
tested within 72 hours of printing. Boards were folded
once through 180 degrees to one direction to simulate
a common finishing stage in printed box production.
No cracking of the image layer was observed. Rub
resistance was rated greater than 4 on coated media
when tested in accordance with ASTM D-5264 on
a scale of 1 (poor) to 5 (excellent). Smearing tests
demonstrated excellent smear resistance when
evaluated by running a one-test cycle using a Taber
5750 Linear Abraser with additional weight of 1350
grams at 25 cycles/minute. Internal HP testing
as of March 2015 comparing the rub resistance
of HP HDR230 Scitex Inks to leading competitors
demonstrated significantly greater surface durability.

1 Small drops produce high quality

2 Large drops produce high productivity

3 HP Scitex HDR Printing Technology
combines the best of both worlds

3

Technical specifications

Productivity	Up to 650 m²/hr (6997 ft²/hr) or 127 full-size sheets/hr[5]
Media	• Handling: Automatic up to 4-sheet simultaneous printing width for 1 sheet 700 to 3200 mm; width for 2 sheets 1020 to 1550 mm; width for 3 sheets 758 to 1020 mm and width for 4 sheets 700 to 758 mm. The length for all loading options is 1000 to 1600 mm • Types:[6] Using automatic loader: Corrugated boards[7] and rigid substrates • Size: 160 x 320 cm (63 x 126 in) for both automatic loading and manual loading • Thickness: Up to 25 mm (1 in), Minimum: 0.8 mm • Weight for automatic loading: Up to 12 kg (26 lb) • Weight for manual loading: Up to 40 kg (88 lb)
Printing	• Technology: HP Scitex High Dynamic Range (HDR) Printing Technology • Ink types: HP HDR230 Scitex Inks, pigmented UV-curable inks • Ink colors: Cyan, magenta, yellow, black, light cyan, light magenta • Printheads: Total 312 HP Scitex HDR300 Printheads (52 per color) • Color standards: HP HDR230 Scitex Inks meet validation print standards according to ISO12647-8*[8]

Print modes	Mode	Beds/hr (Up to)[9]	m²/hr	ft²/hr
	• Sample	• 32	• 164	• 1765
	• Text	• 58	• 297	• 3197
	• Fast sample	• 65	• 333	• 3584
	• High Quality POP	• 78	• 399	• 4295
	• POP Production	• 96	• 492	• 5296
	• Production	• 113	• 579	• 6232
	• Fast production	• 127	• 650	• 6996

RIP	• Software: GrandRIP+ by Caldera[10] or ONYX Thrive[11] • Input formats: All popular graphic file formats, including PostScript®, PDF, EPS, Tiff, PSD, and JPG • Front-end software features: Step-and-repeat, color management and file sizing, cropping, edge-to-edge printing (bleed), saturation control, selective gloss, hot folder, align to left/right and automatic multi-sheet
Physical characteristics	Dimensions (W x D x H with covers open): 12.8 m x 6.7 x 3.4 m (42 ft x 22 ft x 11.2 ft), Weight: 8500 kg (18,740 lbs), including covers and IDS cabinet
Operating environment	Temperature: 17° to 30°C (63° to 86°F), Humidity: 50-60% RH
Operating requirements	• Printer electrical voltage: 3-phase, 3x400VAC ±10%, 50/60Hz ±1Hz • Printer power consumption @50Hz (printing): 32 kW, 58 A • UV electrical voltage: 3 x 380 / 400VAC ±10%, @ 50Hz ±1Hz	3 x 440 / 480VAC ±10%, @ 60Hz ±1Hz • UV power consumption: 400V@50Hz: 45 kW, 70 A,[12] 480V@60Hz: 48 kW, 62 A
Applications	Corrugated displays; Floor displays; Counter tops; Advertising standees; Retail ready packaging; High graphics corrugated packaging

Ordering information

Product	• CX112A: HP Scitex 15500 Corrugated Press	
Options/upgrades	• CP421A: HP Scitex Ball Transfer Table Kit	• CP401AA: HP SmartStream Production Analyzer
Printheads	• CW980-01008: HDR300 Printhead	
HP HDR230 Scitex Inks	• CP814A: HP HDR230 10-liter Cyan Scitex Ink • CP815A: HP HDR230 10-liter Magenta Scitex Ink • CP816A: HP HDR230 10-liter Yellow Scitex Ink	• CP817A: HP HDR230 10-liter Black Scitex Ink • CP818A: HP HDR230 10-liter Light Cyan Scitex Ink • CP819A: HP HDR230 10-liter Light Magenta Scitex Ink
Maintenance	• CP803A: HP MF30 10-liter with Acu Scitex Cleaner	• CN750A MF10 25L Scitex Cleaner
Service	• CX110A: HP Scitex 15000 Basic Full Coverage Service • CX110A: HP Scitex 15000 Cor. Basic Shared Support Package Service	• CS034A / CX190-08320: HP Scitex 1xx00 Maintenance Kit • CS037B / CX190-03691: HP Scitex 15x00 Basic Uptime Kit Mandatory in EMEA, part of the deal

[5] On 160 cm x 320 cm (63 in x 126 in) sheets, including a full loading and unloading cycle.

[6] Cross-hatch level adhesion tested according to D3359-02 ASTM Standard Test Methods for Measuring Adhesion by Tape. Limitations to media may apply. Please refer to hp.com/go/mediasolutionslocator.

[7] All types of corrugated cardboard of any flute size, Foam Board, Folding Carton and Compress Cardboard from 0.8 to 25mm.

[8] Printed in POP Production gloss mode on CalPaper, validated with the Ugra/Fogra media wedge V3 and IDEAlliance Digital Control Strip 2009. Color verified with Caldera's Print Standard Verifier. Tested January, 2015.

[9] Calculation based on full-size bed loading of 1.60 x 3.2 m (5 x 10 ft) substrates.

[10] X-Rite i1 Color for HP—Caldera profiles generated with i1 Profiler.

[11] Onyx Thrive provided in basic configuration (211).

[12] This is the measured average/nominal power consumption while using the default setting of the machine. Should a user raise the default UV power setting, the Nominal power consumption can increase by up to 40%.

Learn more at
hp.com/go/corrugatedpackaging

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4AA5-7808EEW, April 2019, Rev 2