

# HP Scitex 17000 Corrugated Press



Take digital productivity to the next level—and see high-quality results delivered cost effectively



Reap the benefits of digital production for your corrugated applications without the tradeoffs. Experience higher levels of digital productivity. Cost effectively take on more short/medium-run jobs. Print in high speed and still achieve high quality.

## Deliver higher levels of productivity

Make easy work of high-volume digital post-print production with this highly productive digital press. Print up to 1,000 m<sup>2</sup>/hour. Easily accommodate warped media. Accomplish more with hands-free operation, automated feed, and zero setup.

- Take advantage of high-volume post print production—print up to 1,000 m<sup>2</sup>/hour thanks to a robust duty cycle.
- Smooth operation on industrial-grade corrugated board—HP Scitex Corrugated Grip for warped media.
- Save time and labor with hands-free and stack-to-stack operation and automatic loading.
- Easily meet market turnaround demands with zero setup and efficient operation.



**Digitally print corrugated applications that grow your business—and profit potential.**

## Cost-effective short- and medium-run production

Gain the flexibility of digital production with an economical printing solution. Short and medium runs are cost effective up to 800 B-0 sheets.<sup>1</sup> HP HDR230 Scitex Inks and HP Corrugated Grip help keep your costs low.

- You can profitably convert over two million m<sup>2</sup>/year.<sup>2</sup>
- Improve conversion and your breakeven point on orders up to 800 B-0 sheets.<sup>1</sup>
- HP HDR230 Scitex Inks are designed for economical corrugated printing on paperboard media.
- Print on a wide range of corrugated media, including heavy-duty double wall board, with HP Scitex Corrugated Grip.

## See high-quality results at fast production speeds

Print corrugated materials at high speed and achieve the quality you need. HP Scitex High Dynamic Range (HDR) Technology, by design, enables both speed and quality. Easily control gloss application and color saturation while working with a broad color gamut.

- Benefit from proven, proprietary HP Scitex High Dynamic Range (HDR) Printing Technology: automatically use small ink drops for quality, large drops for speed.
- HP HDR230 Scitex Inks—high-value, low-odor prints<sup>3</sup> for indoor corrugated applications like floor displays.
- Wide color gamut simulates standard offset colors.<sup>4</sup>
- Accommodate changing client requirements with on-the-fly control of gloss levels and color saturation.

## Confidently grow with your digital investment

Going digital has never been so easy. This press fits easily into your existing environment. Plus HP offers end-to-end solutions, including prepress and workflow support, a broad services package, and management tools that help optimize performance.

- Work with an ecosystem of HP and partner solutions—from prepress to finishing, management software and services.
- Integrates easily into existing environments with stack-to-stack operation and similar finishing processes.
- Rely on HP's broad portfolio of training, support, and productivity services.
- Optimize press performance—HP Scitex Print Care and HP SmartStream Production Analyzer.

## Enhance your productivity with HP Services

HP Services offers you the broadest portfolio of proven service programs to keep your business running productively. Our certified service teams are committed to meeting your end-to-end needs and driving your business productivity and sustainability for a profitable printing operation. Learn more at [hp.com/go/scitexservice](http://hp.com/go/scitexservice)

<sup>1</sup> Based on a typical offset job basket, using Packaging print mode up to 870 m<sup>2</sup> per hour.

<sup>2</sup> The highest capacity possible (including maintenance) with an unlimited number of jobs and full production efficiency surrounding the press.

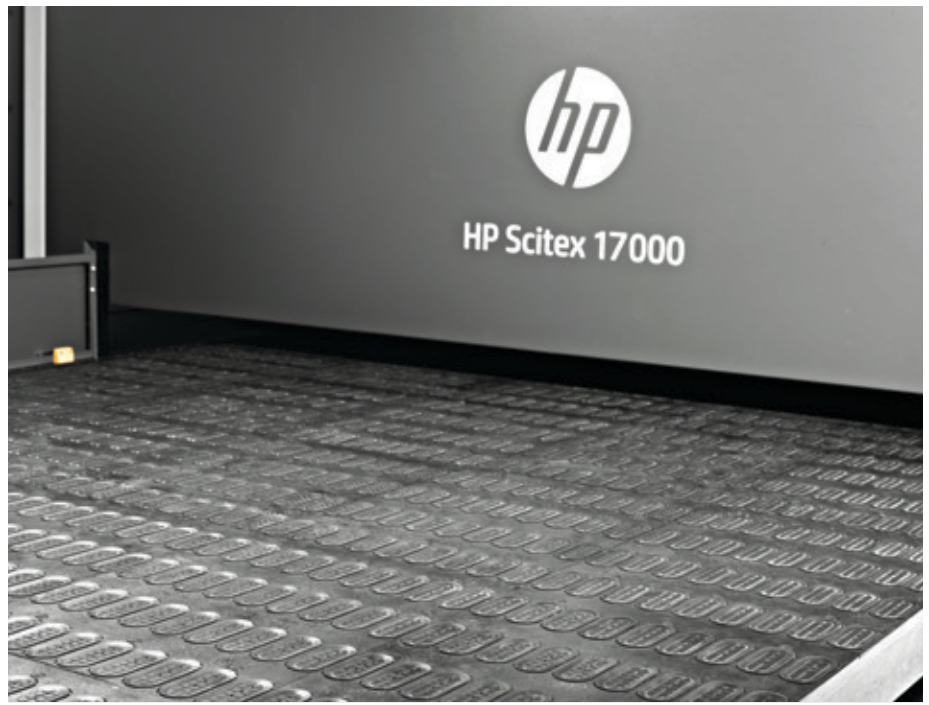
<sup>3</sup> HP HDR230 Scitex Inks are formulated to produce low-odor prints that are tested according to the DIN EN 1230-1 odor standard for paper and board intended to come into contact with foodstuffs. Print odor is rated on a scale of 0 (no perceptible odor) to 4 (strong odor). Print odor with HP HDR230 Scitex Inks at POP Production is rated 1-2 for prints produced in matte mode. Odor test results validated by internal HP testing.

<sup>4</sup> Meet ISO validation standard according to ISO12647-8. Tested on P-Well Eflute coated media. Based on HP Internal testing in June, 2015.

**HP HDR230 Scitex Inks for the HP Scitex 17000 Corrugated Press have achieved GREENGUARD GOLD Certification.<sup>15</sup>**



**HP HDR230 Scitex Inks have been independently tested by Papiertechnische Stiftung (PTS) for Deinking and Recyclability and are certified per INGEDE Method 11.<sup>16</sup>**



## HP Scitex Corrugated Grip

**Print on industrial-grade standard boards — and help save time and cost**

The HP Scitex Corrugated Grip overcomes the challenges of printing on warped corrugated boards. It easily handles boards with a warp of up to 40 millimeters, 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 17000 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<sup>5</sup>, and enable high throughput on a range of rigid substrates. Low-odor prints<sup>6</sup> are tuned for indoor use.<sup>15</sup>

## 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.

<sup>5</sup> 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.

<sup>6</sup> 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.

**1** Small drops produce high quality

**2** Large drops produce high productivity

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

## Technical specifications

<b>Productivity</b>	Up to 1000 m <sup>2</sup> /hr (10764 ft <sup>2</sup> /hr) or 200 full-size sheets/hr <sup>7</sup>			
<b>Media</b>	<ul style="list-style-type: none"> <li>Handling: Automatic up to 4-sheet simultaneous printing width for 1 sheet 700 to 3200mm; 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 1600mm</li> <li>Types:<sup>8</sup> Using automatic loader: Corrugated boards<sup>9</sup></li> <li>Maximum size: 160 x 320 cm (63' x 126') for both automatic loader and manual loading</li> <li>Thickness: Up to 25 mm (1'), Minimum: 0.8 mm</li> <li>Weight for automatic loading: Up to 12 kg (26 lb)</li> <li>Weight for manual loading: Up to 40 kg (88 lb)</li> </ul>			
<b>Printing</b>	<ul style="list-style-type: none"> <li>Technology: HP Scitex High Dynamic Range (HDR) Printing Technology</li> <li>Ink types: HP HDR230 Scitex Inks, pigmented UV-curable inks</li> <li>Printheads: Total 416 HP Scitex HDR300 Printheads (104 per color)</li> </ul>		<ul style="list-style-type: none"> <li>Ink colors: Cyan, Magenta, Yellow, Black</li> <li>Color standards: HP HDR230 Scitex Inks meet validation print standards according to ISO12647-8<sup>10</sup></li> </ul>	
<b>Print modes</b>	<b>Mode</b>	<b>Beds/hr (up to)<sup>11</sup></b>	<b>m<sup>2</sup>/hr</b>	<b>ft<sup>2</sup>/hr</b>
	• Sample	• 90	• 460	• 4950
	• Display	• 125	• 640	• 6888
	• Packaging	• 170	• 870	• 9364
	• Draft	• 200	• 1000	• 10764
<b>RIP</b>	<ul style="list-style-type: none"> <li>Software: GrandRIP+ by Caldera<sup>12</sup> or ONYX Thrive<sup>13</sup></li> <li>Input formats: All popular graphic file formats, including PostScript®, PDF, EPS, Tiff, PSD, and JPG</li> <li>Front-end software features: Step-and-repeat, color management and file sizing, edge-to-edge printing (bleed), selective gloss, hot folder, align to left/right and automatic multi-sheet</li> </ul>			
<b>Physical characteristics</b>	Dimensions (W x D x H with covers open): 12.8 x 6.7 x 3.4 m (42 x 22 x 11.2 ft), Weight: 8500 kg (18740 lbs), including covers and IDS cabinet			
<b>Operating environment</b>	Temperature: 17° to 30°C (63° to 86°F), Humidity: 50-60% RH			
<b>Operating requirements</b>	<ul style="list-style-type: none"> <li>Printer electrical voltage: 3x400VAC ±10%, 50/60Hz ±1Hz</li> <li>Printer power consumption @50Hz (printing): 32 kW, 58 A and @60Hz (printing): 37kW, 60 A</li> <li>UV arc system electrical voltage: 3 x 380 / 400VAC ±10%, @ 50Hz ±1Hz   3 x 440 / 480VAC ±10%, @ 60Hz ±1Hz</li> <li>UV arc system power consumption: 400V@50Hz: 45 kW, 70 A,<sup>14</sup> 480V@60Hz: 48 kW, 62 A</li> <li>UV LED system electrical voltage: 3 x 400VAC ±10%, @ 50/60Hz ±1Hz</li> <li>UV LED system power consumption: 400V@50/60Hz: 21 kW, 31 A</li> </ul>			
<b>Applications</b>	Corrugated displays; Floor displays; Counter tops; Advertising standees; Retail ready packaging; High graphics corrugated packaging			

## Ordering information

<b>Product</b>	• CX120A: HP Scitex 17000 Corrugated Press	
<b>Options/upgrades</b>	• CP421A: HP Scitex Ball Transfer Table Kit	• CP401AA: HP SmartStream Production Analyzer
<b>Printheads</b>	• CW980-01008: HDR300 Printhead	
<b>HP HDR230 Scitex Inks</b>	<ul style="list-style-type: none"> <li>• CP814A: HP HDR230 10-liter Cyan Scitex Ink</li> <li>• CP815A: HP HDR230 10-liter Magenta Scitex Ink</li> </ul>	<ul style="list-style-type: none"> <li>• CP816A: HP HDR230 10-liter Yellow Scitex Ink</li> <li>• CP817A: HP HDR230 10-liter Black Scitex Ink</li> </ul>
<b>Maintenance</b>	• CP803A: HP MF30 10-liter with Acu Scitex Cleaner	• CN750A MF10 25L Scitex Cleaner
<b>Service</b>	<ul style="list-style-type: none"> <li>• HA151AC: HP Full Coverage Support Contract</li> <li>• HA965AC: HP Shared Maintenance Support Contract</li> <li>• HK951AC: HP Printhead Allowance Service (Optional Extended Coverage)</li> <li>• HK930A1: HP On-site Ramp Up Services</li> </ul>	<ul style="list-style-type: none"> <li>• CS042A: HP Standard Uptime Kit</li> <li>• CS043A / CX190-05370: HP Printer Maintenance Kit</li> <li>• CS031A: HP Comprehensive Uptime Kit</li> </ul>

<sup>7</sup> On 160 x 320 cm (63' x 126') sheets, including a full loading and unloading cycle.

<sup>8</sup> 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](http://hp.com/go/mediasolutionslocator).

<sup>9</sup> E, EE, and EB fluted boards; additional quality flat boards apply.

<sup>10</sup> Printed in Production WG print mode in gloss on P-Well E-Flute coated media, validated with the Ugra/Fogra media wedge V3 and IDEAlliance Digital Control Strip 2009. Color verified with Caldera's Print Standard Verifier. Tested June, 2015.

<sup>11</sup> Calculation based on full-size bed loading of 1.60 x 3.2 m substrates.

<sup>12</sup> X-Rite i1 Color for HP—Caldera profiles generated with i1 Profiler.

<sup>13</sup> Onyx Thrive provided in basic configuration (211).

<sup>14</sup> 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%.

<sup>15</sup> 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](http://ul.com/gg) or [greenguard.org](http://greenguard.org). Tested on prints made on Scrolljet 904 175 g/m<sup>2</sup> 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.

<sup>16</sup> Prints made with HP HDR230 Scitex Inks on Ekman GMMW130, 130 g/m<sup>2</sup> 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).

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