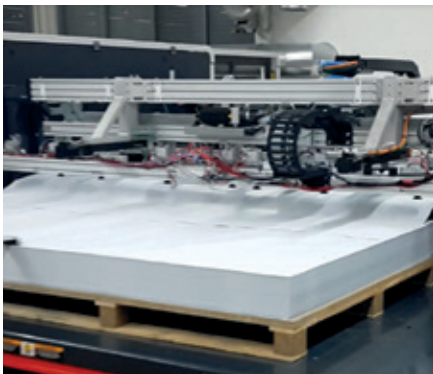


# HP Scitex Flex Sheets Loader Option



Creating new opportunities for sign and display shops with high-productivity rigid and flexible applications

HP Scitex Flex Sheets Loader Option is an automated, high-productivity solution for the HP Scitex 17000 Corrugated Press that opens new opportunities for more applications and business growth for sign and display printers, by enabling flexible applications at fast production.



HP Scitex Flex Sheets Loader



HP Scitex 17000 Corrugated Press

The HP Scitex Flex Sheets Loader Option provides fully automated, stack-to-stack, high-quality printing on a range of flexible and rigid media with high productivity, wide color gamut that meets ISO validation standards<sup>1</sup>, and low-odor prints<sup>2</sup> that suit sensitive spaces.

Inks that have a leading environmental profile<sup>3</sup> help reduce operational costs, as additional protective overcoat equipment or process steps may not be needed<sup>4</sup>.

The HP Scitex Flex Sheets Loader Option can be used with HP HDR230 or HP HDR245 Scitex Inks.

**Using HP HDR230 Scitex Inks**

For **indoor applications** requiring robust performance on paper and paperboard media.

**Using HP HDR245 Scitex Inks\***

For **indoor and outdoor applications** requiring robust performance on select rigid plastics<sup>9</sup>, paper and paperboard media.

**Applications**

- Front- and back-lit POP/POS posters, corrugated displays, floor displays, counter tops, advertising standees, retail-ready packaging, high-impact graphics corrugated packaging
- Bus shelters, billboards & city light posters (front- and back-lit), POP posters
- Rigid POP applications, including corrugated displays, floor displays, counter tops, advertising standees, retail-ready packaging, and high graphics corrugated packaging

**High-productivity printing**

- Flexibility and surface durability<sup>4</sup> together help reduce cycle time/costs, as additional overcoat may not be needed
- Print longer runs with minimal maintenance intervention for enhanced productivity and break-even point
- High-quality results on flexible and rigid media, including paper and paperboard media
- High-quality results on flexible and rigid media, including paper, paperboard media, and selected **rigid plastics**

**Achieve precise image quality at high productivity**

- See image quality at high productivity—HP HDR230 and HP HDR245 Scitex Inks are optimized for HP Scitex High Dynamic Range printing
- Meet ISO12617-8 validation standard<sup>1</sup>
- Smooth transitions and wide color gamut for enhanced print quality<sup>5</sup>

**Leading environmental profile**

- Low odor—The inks are formulated to produce low-odor prints tested according to the DIN EN 1230-1 standard<sup>2</sup>
- For indoor applications—HP HDR230 Scitex Inks are UL GREENGUARD GOLD Certified, and meet AgBB criteria<sup>3</sup>
- For indoor applications—Provide up to 24 months indoor durability<sup>6</sup>
- For outdoor applications—Prints provide up to 24 months fade resistance under outdoor lighting conditions<sup>7</sup>
- Deinkable, recyclable prints —“Good Deinkability” per ERPC and INGEDE; recyclable per PTS-RH 21/97 method<sup>8</sup>

## Performance parameters

<b>Media types</b>	<p><b>Flexible and rigid substrates</b>, including paperboard, white-back and blue-back paper, from 115 gsm and up</p> <ul style="list-style-type: none"> <li>Selected* rigid plastics media are supported by HP HDR245 Scitex inks<sup>9</sup></li> <li>Limitations:           <ul style="list-style-type: none"> <li>Flexible media loading requires de-installation of the HP Scitex Corrugated Grip mats, reducing corrugated board hold-down and warp handling capabilities</li> <li><b>Thin plastic sheets</b> may be supported and require further testing</li> </ul> </li> </ul>																				
<b>Print alignment (X,Y)</b>	Alignment registration $\pm 0.6$ mm at 3.2 m ( $\pm 0.024$ in at 10.5 ft) long substrate; $\pm 1.3$ mm ( $\pm 0.05$ in) in double side																				
<b>Unload stack alignment</b>	Up to $\pm 2$ mm ( $\pm 0.08$ in) (X,Y)																				
<b>Single load</b>	Requires some manual setup (~5 minutes per change) for a number of media sizes																				
<b>Multiloading</b>	<ul style="list-style-type: none"> <li><b>Rigid: 1, 2, 3 &amp; 4-up</b></li> <li><b>Flexible: 1-up</b> (flexible multi-load 2 and 3-up need further development and testing depending on media type and size); manual setup is required (~5 minutes per change)</li> </ul>																				
<b>Maximum printing speed</b>	<ul style="list-style-type: none"> <li><b>Rigid</b> - Up to 1000 m<sup>2</sup>/hr (10,764 ft<sup>2</sup>/hr) or 200 full-size sheets/hr (same as standard HP Scitex 17000 Corrugated Press)</li> <li><b>Flexible media approximated throughput**</b></li> </ul> <table border="1"> <thead> <tr> <th>Mode</th> <th>Beds/hr</th> <th>m<sup>2</sup>/hr</th> <th>ft<sup>2</sup>/hr</th> </tr> </thead> <tbody> <tr> <td>Sample</td> <td>85</td> <td>435</td> <td>4682</td> </tr> <tr> <td>Display</td> <td>115</td> <td>588</td> <td>6329</td> </tr> <tr> <td>Packaging</td> <td>145</td> <td>742</td> <td>7986</td> </tr> <tr> <td>Draft</td> <td>155</td> <td>793</td> <td>8535</td> </tr> </tbody> </table>	Mode	Beds/hr	m <sup>2</sup> /hr	ft <sup>2</sup> /hr	Sample	85	435	4682	Display	115	588	6329	Packaging	145	742	7986	Draft	155	793	8535
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<b>Loader operation GUI</b>	Done from a software utility that is external to the main GUI (=“VNC”)																				

## Ordering information

CP441A	HP Scitex Flex Sheets Loader Option	
HP HDR230 Scitex Inks	HP HDR245 Scitex Inks	
<b>CP814A</b>	HP HDR230 1X10L Cyan Scitex Ink	<b>CP836A</b> HP HDR245 1X10L Cyan Scitex Ink
<b>CP815A</b>	HP HDR230 1X10L Magenta Scitex Ink	<b>CP837A</b> HP HDR245 1X10L Magenta Scitex Ink
<b>CP816A</b>	HP HDR230 1X10L Yellow Scitex Ink	<b>CP838A</b> HP HDR245 1X10L Yellow Scitex Ink
<b>CP817A</b>	HP HDR230 1X10L Black Scitex Ink	<b>CP839A</b> HP HDR245 1X10L Black Scitex Ink

\* Plastics media support<sup>9</sup> requires HP HDR245 Scitex Inks only. Use of HP HDR245 Scitex Inks has to be approved on a case-by-case basis.

\*\* Calculation is based on full-size bed loading of 1.60 x 3.2 m substrates, and may vary according to specific media type and dimensions.

<sup>1</sup> Verified with the Ugra/Fogra Media Wedge V3 (Fogra39L) standard in POP Production Corrugated Gloss mode. Color verified with Caldera Print Standard Verifier, printed on CalPaper (coated paper). Tested December, 2015.

<sup>2</sup> HP HDR230 and HP HDR245 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. Print odor is rated on a scale of 0 (no perceptible odor) to 4 (strong odor). Print odor with HP HDR230 and HP HDR245 Scitex Inks are rated 1-2 for prints produced in matte mode. Odor test results validated by internal HP testing.

<sup>3</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. HP HDR245 Scitex Inks meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products based on internal HP assessment evaluating HP HDR245 Scitex Inks, similar to HP Scitex inks that were tested at UL labs and achieved full compliance. For more information, visit [umweltbundesamt.de/en/topics/health/commissions-working-groups/committee-for-health-related-evaluation-of-building](http://umweltbundesamt.de/en/topics/health/commissions-working-groups/committee-for-health-related-evaluation-of-building). Using inks that meet AgBB criteria does not indicate the end product meets the criteria.

<sup>4</sup> In internal HP testing performed in December 2015 and January 2016, samples of PWell E/EB Flute corrugated board with Graph+ liner were printed Matte and Gloss on HP 17000 Corrugated Presses with HP Scitex High Dynamic Range (HDR) Printing Technology using HP HDR245 Scitex Inks and were tested within 24 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 January 2016 comparing the rub resistance of HP HDR245 Scitex Inks to leading competitors demonstrated significantly greater surface durability.

<sup>5</sup> HP HDR230 Scitex Inks color gamut tested on P-Well Effute coated media in June, 2015. HP HDR245 Scitex Inks color gamut tested on December, 2015. Based on HP internal testing.

<sup>6</sup> For indoor applications, prints provide up to 24 months indoor durability. Tested according to indoor lightfastness predictions using a light exposure chamber and illumination from bare-bulb fluorescent lamps (with no glass or plastic sheet between the lamps and prints). The test was conducted at office ambient temperature and humidity on Metsäboard Kemiart Graph+Graph+ liner media in accordance with ANSI/ISO IT9.9-1996. HP HDR230 Scitex Inks were also tested behind glass under direct outdoor light at office ambient temperature and humidity for color fading. The measured duration on Metsäboard Kemiart Graph+Graph+ liner media is up to 3 months in accordance with ISO 18937.

<sup>7</sup> Fade-resistance testing according to ASTM D2565-99. Tested on 3M self-adhesive vinyl.

<sup>8</sup> Prints made with HP HDR230 Scitex Inks on Ekman GMWM130, 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).

<sup>9</sup> Performance varies by media type. Some plastic media types, such as acrylics, are not compatible. For more information on the performance of HP HDR245 Scitex Inks on various media types, see [hp.com/go/mediasolutionslocator](http://hp.com/go/mediasolutionslocator).

Learn more about the HP Scitex 17000 Corrugated Press at [hp.com/go/Scitex](http://hp.com/go/Scitex)

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