Data sheet

HP Scitex FB7600 Industrial Press

Future proof your investment

Grow your business faster

Achieve quick ROI with more digital printing opportunities. Produce almost any application with up to 8 colors[1] on a wide range of media, to expand your business. Workflow enhancements increase productivity and reduce effort.

Profit more from the first run
Print both short and long runs now and attract new customers. Fast printing speeds, optional automatic or multi-sheet loading, and high-quality results across a range of applications mean you can print more jobs with greater efficiency.

- See better image quality delivered at faster speeds, with improved ability to print text and fine details.

- Turn jobs around. Print up to 95 full sheets/hour (production speed), up to 55 full sheets/hour (POP quality).

- Streamline your printing process with the optional multi-sheet loading table or the Hostert automatic loader.

Do more with digital
Attract more customers and print a wider variety of jobs. HP FB225 Scitex inks adhere to a wide range of flexible and rigid sheets. Higher productivity on plastics[2] and corrugated media creates greater opportunities to expand your business.

- Up to 8 inks[1]—varnish for visual effects; light black for neutral grays; orange for more Pantone® coverage.

- Achieve maximum throughput—and high margins—on plastics.[2]

- Save time—HP FB225 Scitex inks provide cross-hatch level adhesion[3]—no need for pretreatment.

- Enjoy simultaneous loading/unloading with the ¾-automated media handling system.

[1] Use of HP FB225 Light Black, Orange, and Varnish Scitex Inks with the HP Scitex FB7600 Industrial Press requires purchase of the HP Scitex FB7x00 Enhanced Color Pack. Light black, orange, and varnish inks are added to the six process colors, providing higher image quality at high throughput. Switch from orange or light black to varnish; however, it is not possible to switch back, from varnish to orange or light black. Use of the HP Scitex FB7x00 Enhanced Color Pack may cause deviation of up to 10% from previously published throughput in some print modes. HP FB225 Varnish Scitex Ink is designed for use with the Caldera RIP 9.1 and up.

[2] Plastics media span is narrower when using HP FB225 White Scitex Ink.

[3] With the exception of HP FB225 White Scitex Ink on plastics. According to D3359-02 ASTM Standard Test Methods for Measuring Adhesion by Tape.

[1]Use of HP FB225 Light Black, Orange, and Varnish Scitex Inks with the HP Scitex FB7600 Industrial Press requires purchase of the HP Scitex FB7x00 Enhanced Color Pack. Light black, orange, and varnish inks are added to the six process colors, providing higher image quality at high throughput. Switch from orange or light black to varnish; however, it is not possible to switch back, from varnish to orange or light black. Use of the HP Scitex FB7x00 Enhanced Color Pack may cause deviation of up to 10% from previously published throughput in some print modes. HP FB225 Varnish Scitex Ink is designed for use with the Caldera RIP 9.1 and up.

[4]Use of white ink with the HP Scitex FB7600 Industrial Press requires purchase of the HP Scitex FB7500/FB7600 White Ink Kit. Installation of the white ink kit may cause deviation of up to 10% from previously published throughput in some print modes.

[5]HP FB225 Scitex Inks are GREENGUARD Children and Schools Certified[SM] (see greenguard.org). HP FB225 color Scitex inks meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products (see umweltbundesamt.de). Test prints submitted at POP17 print mode. Using GREENGUARD Certified inks or inks that meet AgBB criteria does not indicate the end product is Certified or meets the criteria. Meeting AgBB criteria is not applicable when HP FB225 color Scitex inks are used together with HP FB225 White Scitex Ink.

[6] Cured HP FB225 process color Scitex inks have reduced odor compared to HP FB221 Scitex Inks, except when these inks are used together with HP FB225 White Scitex Ink (Lk, O not tested).

[7]An independently conducted and reviewed study (Sylvatica, 2010) indicated that printing point-of sale signage on the HP Scitex FB7500 Industrial Press (upon which the HP Scitex FB7600 Industrial Press is based) has a lower carbon footprint than producing the same signage with an equivalent screen printer for print-run lengths within which some 90% (Who Buys Wide Format Study, InfoTrends, April 2009) of signage print jobs fall.

Maximize your uptime

Embrace a partner committed to your long-term success. This press—combined with HP programs, services, and quality care—is designed to maximize uptime and reliability and provide scalable, modular technologies that enable flexibility and growth.

• Confidently expand your digital capabilities, knowing that this press is a total HP technology offering.
• Get more from your investment with this scalable, modular press designed to grow with your business.
• Anticipate technical issues before they cause downtime. HP Scitex Print Care—a new level of service from HP.
• Two extra printhead beams and ink slots for white ink upgrade[4] or light black, orange, and varnish inks[1].

Improve the environmental profile of your printing

Print with an improved environmental profile. Digital printing can help reduce waste. The inks are GREENGUARD Children & Schools Certified[SM], color inks meet AgBB criteria[5] —and with reduced odor[6]—enable a great solution for indoor applications.

• See how digital on-demand technology can help reduce waste and the carbon footprint of your printing.[7]
• Create new indoor opportunities—cured HP FB225 process color Scitex inks have reduced odor.[6]
• Reassure with inks that are GREENGUARD Children & Schools Certified[SM], color inks meet AgBB criteria.[5]

HP SmartStream Workflow on the HP Scitex FB7600 Industrial Press

HP and partners provide solutions and production workflow tools that offer greater uptime and flexibility to help print service providers grow profits.

End-to-end Solutions

• The HP SmartStream Workflow Portfolio provides complete workflow solutions – from job creation to fulfillment – to efficiently drive more pages to press, and help print service providers preserve profitability on short-run, low-revenue jobs by minimizing preparation and finishing time.
• HP Scitex Print Care is the industry-leading set of tools and services that help you anticipate technical issues before they cause downtime and provide quick, accurate diagnosis and resolution. Experience fast, efficient HP service that helps you maximize uptime and reduce costs.
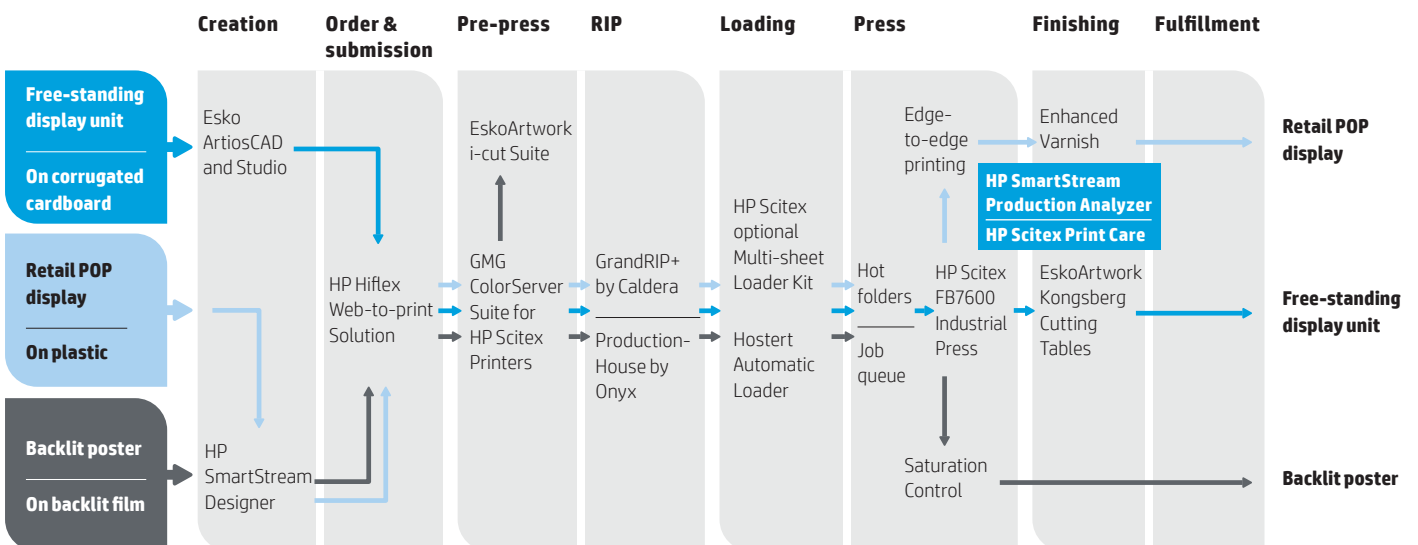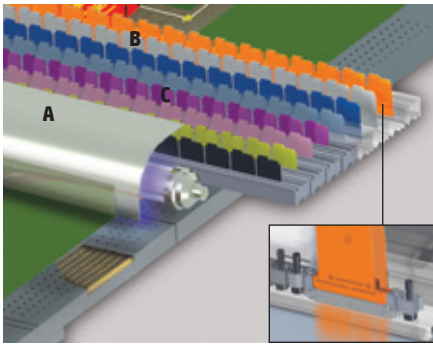
6A

A. Cold mirror technology
B. Enhanced color or white - 52 or 104 additional X2 printheads
C. Color printhead beams - 312 X2 printheads
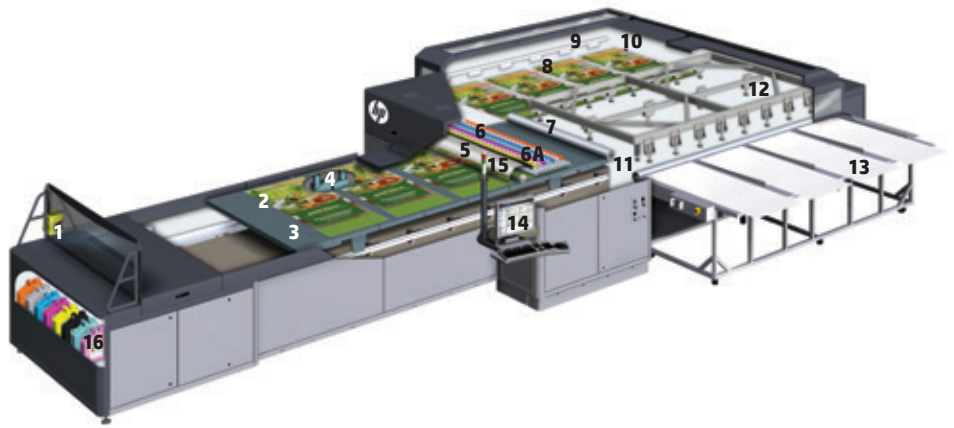
HP Scitex FB7600 Industrial Press

1. Safety zone sensor
2. Manual alignment pins
3. 6 Zone vacuum table
4. Patented tubeless vacuum system
5. Cold mirror technology
6. Up to 416 X2 printheads
7. Press Roller
8. Unloader lift table
9. Media alignment bar
10. Media stack height sensor
11. Media thickness detector
12. Smart pistons handling system
13. Multi-sheet loading table
14. HP Scitex Print Care
    HP Scitex Production Analyzer
15. Attention lights
16. FB225 UV ink tanks

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, driving your business productivity and sustainability for a profitable printing operation. Learn more at hp.com/go/scitexservice
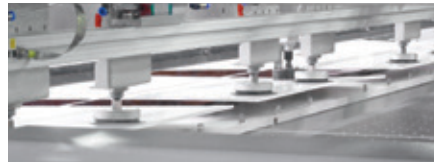
Loading system
The versatile loading mechanism enables the use of a wide range of media. Together with in-line media sensors, a media thickness indicator, and an automatic alignment procedure, the loading system helps minimize the impact of operator error.

Vacuum table
The six zones vacuum table minimizes the need for masking or taping of exposed areas. The table moves according to the sheet's length, ensuring higher sheets-per-hour rates for smaller sheet sizes. In-line pins ensure accurate registration when loading particularly sensitive or heavy media with the manual mode.

Press roller
An iron roller provides extra flattening of wavy media.

Multi-Sheet and Automatic Loading Options
An optional multi-sheet loading table allows simultaneous printing of up to 4 sheets for smaller, pre-cut sheets, and alignment to left or right for efficient double-sided jobs. The Hostert Automatic Loader enables stack-to-stack operations for enhanced productivity.

Unloading lift
Highly accurate stack registration is enabled with the media alignment bar assembled on the unloader lift.

UP to 416 HP Scitex X2 Printheads
HP Scitex X2 drop-on-demand piezoelectric inkjet printheads equipped with up to 53,248 nozzles enable the high ink flows required to print high-quality images at high speeds. Access to the printheads is easy. The printing bridge doors open to each side, and the printing bridge is raised. The operator-level replacement process is straightforward.

Technical specifications

Productivity	Up to 500 m²/hr (5380 ft²/hr) or 95 full-size sheets/hr[1]
Resolution	Up to 600 dpi
Media	• Handling: Sheet-to-sheet ¾-automatic loading, semi-automatic and manual loading and unloading, and up to 4-sheet simultaneous printing with optional Multi-sheet Loader Kit • Types[2]: Foam PVC, PVC sheets, polystyrene (HIPS), fluted polypropylene, polycarbonate, polyethylene, synthetic paper, SAV, paper, foamboard, corrugated cardboard,[3] compressed cardboard, and others • Size: Rigid and flexible sheets up to 165 x 320 cm (65 x 126 in) • Thickness: Up to 25 mm, Minimum: 130 gsm • Weight for automatic loading: Up to 20 kg (44 lb) • Weight for manual loading: Up to 40 kg (88 lb)
Printing	• Technology: Drop-on-demand, piezoelectric inkjet • Ink types: UV-curable pigmented inks • Ink compatibility: HP FB225 Scitex Inks • Ink colors: Cyan, magenta, yellow, black, light cyan, light magenta, and optional white, orange and light black • Ink coverage: Up to 124 m²/L (1335 ft²/L) (at POP40 mode) • Printheads: 312 total (52 per color), additional 104 for white, orange and light black inks • Outdoor durability: Up to 2 years UV with abrasion and water resistance[4] • Ink drop: 42 pl • Printable area: 165 x 320 cm (65 x 126 in)

Print modes	**Mode[5]**	**Maximum Productivity**	**Beds/hr[6]**	**Mode[5]**	**Maximum Productivity**	**Beds/hr[6]**
	• POP17	• 90 m²/hr (967 ft²/hr)	• 17	• POP52	• 274m²/hr (2948 ft²/hr)	• 52
	• POP30	• 160 m²/hr (1720 ft²/hr)	• 30	• POP55	• 290 m²/hr (3120 ft²/hr)	• 55
	• POP34 Text	• 180 m²/hr (1937 ft²/hr)	• 34	• Prod70	• 360 m²/hr (3873 ft²/hr)	• 70
	• POP40	• 210 m²/hr (2260 ft²/hr)	• 40	• Prod95	• 500 m²/hr (5380 ft²/hr)	• 95
	• POP48	• 250 m²/hr (2688 ft²/hr)	• 48			

RIP	• Software: GrandRIP+ by Caldera[7] or ProductionHouse by Onyx • Input formats: All popular graphic file formats, including PostScript, PDF, EPS, Tiff, PSD, and JPG • Front end software features: Layout, step-and-repeat, color management and file sizing and cropping, edge-to-edge printing (bleed), queue, saturation control, slow loading speed, image 2, hot folder, and align to left/right and multi-sheet with optional Multi-sheet Loader Kit
Physical characteristics	Dimensions (w x d x h): 10.5 x 5.6 x 1.6 m (34.5 x 18.4 x 5.2 ft), Weight: 5000 kg (11,024 lb) with vacuum unit
Dimensions (w x d x h)	4 x 3.25 x 2.03 m (13.2 x 10.7 x 6.7 ft), Weight: 2,700 kg (5,952 lb)
Operating environment	Temperature: 15 to 30°C (59 to 86°F), Humidity: 50 to 60% RH
Operating requirements	• Printer electrical voltage: 3-phase, 380 to 480 VAC, 50/60 Hz (+/- 3 Hz) • Printer power consumption: 17 kW, 30 A (printing), 17 kW, 30 A (max) • UV electrical voltage: 3-phase, 380 to 480 VAC, 50/60 Hz (+/- 3 Hz) • UV power consumption: 25 kW, 68 A[8] (printing), 40 kW, 120 A (max)
Applications	3D displays; Banners; Directional rigid signage; Displays; Double-sided banners; Exhibition, Event graphics; Exterior signage; Graphics design; Indoor posters; Interior decoration; Light boxes - film; Light boxes - paper; POP/POS; POP rigid; Posters; Short-run packaging; Specialty rigid applications

Ordering information

Product	• CM103A: HP Scitex FB7600 Industrial Press	
Options/Upgrades	• CP390A: HP Scitex FB7500/FB7600 Multi-sheet Loader Kit • CP386A: HP Scitex FB7500/FB7600 White Ink Kit	• CP408A HP Scitex FB7x00 Industrial Press Enhanced Color Pack • CP411A HP Scitex FB7x00 Hostert Auto Loader Connector Kit
Original HP printing supplies	• CP530A: HP FB225 2X5L White Scitex Ink • CP756A: HP FB225 2x5L Cyan Scitex Ink • CP757A: HP FB225 2x5L Magenta Scitex Ink • CP758A: HP FB225 2x5L Yellow Scitex Ink • CP759A: HP FB225 2x5L Black Scitex Ink	• CP760A: HP FB225 2x5L Light Cyan Scitex Ink • CP761A: HP FB225 2x5L Light Magenta Scitex Ink • CP798A HP FB225 2X5L Light Black Scitex Ink • CP794A HP FB225 2X5L Orange Scitex Ink • CP801A HP FB225 2X5L Varnish Scitex Ink
Maintenance	• CN750A: HP MF10 25-liter Scitex Cleaner	

[1] On 165 x 320 cm (65 x 126 in) sheets, including a full loading and unloading cycle.

[2] Limitations to media may apply. Please refer to hp.com/go/mediasolutionslocator

[3] E, EE, and EB fluted boards; additional quality flat boards apply.

[4] According to ASTM D2565-99.

[5] Each print mode's gloss level can be controlled.

[6] Numbers provided are based on maximum number of full-size beds per hour (full bed size 1.65 x 3.2 m, 5 x 10 ft).

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

[8] 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/ScitexFB7600

Sign up for updates
hp.com/go/getupdated

Share with colleagues

Rate this document