

HP Scitex FB7500 Printer

Convert production volume to digital—this solution delivers throughput up to 500 m² (5380 ft²)/hour and broad media versatility enabled by HP inks. The entire printing system is designed and tested by HP for quality results every time you print.



Boost profits and elevate your digital capability

- **Capitalize on a printer that provides the highest productivity of its price class.**¹ The HP Scitex FB7500 Printer's high print speeds make it ideal for printing medium and long runs of POP/POS applications with tight schedules and in high-paced, demanding environments. Full productivity, including loading and unloading, is up to 500 m² (5380 ft²)/hr—equivalent to 95 full beds/hr or 105 120 x 240 cm (47 x 94 in) sheets/hr.²
- **Expand your digital capability with a competitive total cost per sheet for medium POP runs.** Last-minute POP/POS applications and on-demand print runs are lucrative markets. Capitalize on this demand with a digital printer that shifts the crossover point with screen and offset printing. With the HP Scitex FB7500 Printer, you are able to shift more jobs to your digital printer, reducing your fixed costs in the process. Benefit from a printer that consumes less power and uses less production and pre-press floor space than multi-color screen printers and large-format offset presses.
- **Transform your business and enjoy greater productivity with an automated and efficient workflow.** Make efficient use of your time and resources. Using a 3/4-automatic material workflow, reduce idle time between sheets by up to 75 percent with only one operator. Manual loading and unloading of a sheet can take 45 seconds or more, while the loading mechanism reduces that time to no more than 12 seconds. Digital printing also results in fewer errors and therefore fewer wasted prints, compared with traditional screen printing.

Add highly versatile digital production printing

- **Rely on the same highly productive workflow to print on both flexible and rigid media.** Use the same versatile platform to print flexible and rigid applications, saving set-up time and floor space.

Print directly on sheets up to 25 mm (1 inch) thick with automatic loading, or print specialty applications with manual loading.

- **Print on an extensive range of sheeted material from paper to thick boards with fast-curing HP UV-curable inks.** Experience media versatility comparable to that of screen printers. Dedicated inks provide versatility across a very wide range of applications from paper to plastics and provide a solution—using new HP FB221 Scitex inks—specifically designed for folded cardboard displays and self-adhesive vinyl. It's an easy, hassle-free switch between ink sets. And whatever the media, fast-drying HP UV-curable inks deliver outstanding application versatility and long-lasting color.
- **Deliver vibrant signage—with HP UV-curable inks—that stands up to the demanding requirements of a wide variety of applications.** HP UV-curable inks, developed specifically for the HP Scitex FB7500 Printer, enable fast curing and vibrant POP displays, signage, exhibition graphics, backlit displays, bus shelters, posters, and more. With two-year outdoor durability,³ water- and abrasion-resistant HP UV-curable inks cure with light exposure and do not require large drying systems, which improves workflow efficiency and saves space.

Designed by screen printers for screen printers

- **Move your production volumes to an HP digital printer and achieve the high-quality results you're used to seeing, including accurate and consistent double-sided prints.** The HP Scitex FB7500 Printer includes 312 unique HP Scitex X2 drop-on-demand piezoelectric inkjet printheads. The printer achieves high productivity with a 20kHz firing frequency through 39,936 nozzles, which produce the high ink flows required to print high-quality images at high speeds. This provides excellent coverage of solid areas,



¹ Based on published manufacturer specifications as of February 2009.

² Productivity print speeds are based on printing in Production 95 mode on 165 x 310 cm (65 x 122 in) sheets. This is measured from the time the first copy is initially loaded to when the last copy of the print run is unloaded.

³ HP FB220 and FB221 Scitex inks offer two years outdoor durability, tested according to ASTM D2565-99.

while six colors minimize graininess and provide high definition. The printer also delivers highly accurate registration for double-sided and backlit applications.

- **Move seamlessly from screen to digital printing with an HP printer that delivers a familiar, intuitive experience.** Shorten your learning curve with the HP Scitex FB7500 Printer. Its highly accurate and intuitive loading mechanism provides both the productivity and versatility you expect for high-volume applications. Accurate unloading stack registration enables minimal intervention before finishing and packaging.
- **Take advantage of a cleaner printing workspace with digital versus screen technology.** Eliminate time-consuming clean-up and create a better workspace for your employees and customers. Use fewer chemicals and petroleum-based products with digital versus screen printing and eliminate items such as squeegees and mixing palettes, so your employees work more easily and can move on to the next job quickly.
- **Count on a printing platform that will grow with your business.** Depend on the HP Scitex FB7500 Printer to deliver true value and performance now and into the future. Designed as a modular printer that will grow with your business, you get more from your investment. Whether you are ready to expand into new markets or expand your digital capabilities even further, this upgradeable printer will enable you to do so.

Enjoy new levels of usability and reliability

- **Save time and money with reliable, user-replaceable printheads.** Reliability and ease of use matter. Take industrial reliability and serviceability to a new level with the HP Scitex X2 piezoelectric printhead. Individual printheads are easy to access and replace in less than 10 minutes—not including an intuitive calibration process—minimizing downtime and avoiding the expense of a service call. And printhead maintenance is completely automatic.
- **Maximize uptime in industrial environments with a platform built on HP printing expertise.** A technology designed for industrial inkjet applications, the HP Scitex X2 piezoelectric printhead brings together silicon-based Micro Electro-Mechanical Systems (MEMS) technology and innovative piezoelectric inkjet technology. The HP Scitex X2 Printhead's MEMS chip is developed and manufactured at the same HP site that has been producing the fluidic MEMS die for the past 25 years for world-leading HP thermal inkjet printers.
- **Rest assured knowing your printer is available and productive thanks to reliable HP Scitex Support.** At HP Scitex, we are fully committed to our clients' long-term success. We are as serious about supporting our clients with top-quality care as we are about providing world-class printing systems. That means we are committed to ensuring that you enjoy maximum uptime and productivity. All HP Scitex programs and services are designed with that single goal in mind. Wherever you are, you can be sure that HP Scitex-certified experts are close by and ready to help.



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Once the operator inserts a sheet between a set of in-line media sensors, the loading system is activated, initiating the highly accurate automatic alignment and registration process. Substrate thickness is verified automatically by a thickness indicator, reducing the effects of operator error.



The loading mechanism is highly versatile, enabling the use of a wide range of sheeted material. Once the sheet is aligned and registered, the operator is free to prepare the next job. The loaded sheet will be moved automatically to the vacuum table once the current sheet is printed, reducing idle time between sheets by up to 75 percent.



A vacuum table with six zones 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.



Manual mode should be used when printing jobs on particularly sensitive or heavy media. Inline pins ensure accurate registration.



As soon as the sheet is printed, it is unloaded automatically to the lift, while the next blank sheet is simultaneously placed on the vacuum table, ready for printing. A durable polycarbonate cover ensures operator safety in the lift area while printing is in progress. Highly accurate stack registration increases productivity in post-print cutting and packaging processes.



Printhead replacement 1:
The printing bridge doors open to each side. The printing bridge is raised using a pneumatic mechanism.



Printhead replacement 2:
Access to the print heads is easy. The operator-level replacement process is straightforward, taking up to 45 minutes, including calibration.

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Technical specifications

Productivity	Up to 500 m ² /hr (5380 ft ² /hr) or 95 full-size sheets/hr ¹
Resolution	Native up to 500 dpi
Media	
Handling	Sheet-to-sheet 3/4-automatic loading and unloading
Types	Foam PVC, PVC sheets, foamboard, corrugated cardboard ² , displayboard/cardtsock, compressed cardboard, polystyrene, SAV, paper, synthetic paper, corrugated polypropylene and others
Size	Rigid and flexible sheets up to 165 x 320 cm (65 x 126 in)
Thickness	Up to 25 mm (1 in)
Printing	
Technology	Drop-on-demand, piezoelectric inkjet
Ink types	UV-curable pigmented inks
Ink compatibility	HP FB220 Scitex Ink, HP FB221 Scitex Ink
Ink colors	Cyan, magenta, yellow, black, light cyan, light magenta
Printheads	312 total (52 per color)
Outdoor durability	Up to 2 years UV with abrasion and water resistance ³
Ink drop	42 pl
Printable area	165 x 320 cm (65 x 126 in) ⁴
Print modes	
	POP 17 mode up to 90 m ² /hr (969 ft ² /hr) or 17 full-size sheets/hr ⁵
	POP 34 mode up to 180 m ² /hr (1937 ft ² /hr) or 34 full-size sheets/hr ⁵
	POP 34 Text mode up to 180 m ² /hr (1937 ft ² /hr) or 34 full-size sheets/hr ⁵
	POP 42 mode up to 220 m ² /hr (2367 ft ² /hr) or 42 full-size sheets/hr ⁵
	Production 63 mode up to 330 m ² /hr (3551 ft ² /hr) or 63 full-size sheets/hr ⁵
	Production 95 mode up to 500 m ² /hr (5380 ft ² /hr) or 95 full-size sheets/hr ¹
RIP	
Software	GrandRip+ by Caldera or ProductionHouse by Onyx
Input formats	All popular graphic file formats, including PostScript, PDF, EPS, Tiff, PSD, and JPG
Front end software features	Loading new file during printing, step-and-repeat, and double-sided printing
Physical characteristics	
Dimensions (w x d x h)	10.5 x 5.6 x 1.58 m (34.5 x 18.37 x 5.2 ft)
Weight	5000 kg (11,024 lb) with vacuum unit
Operating environment	
Temperature	10 to 30° C (50 to 95° F)
Humidity	30 to 86% RH (non-condensing)
Operating requirements	
Printer electrical voltage	3-phase, 400 V ac + N+ G (±5%), 50/60 Hz, 63 A per phase
Printer power consumption (peak)	30 KW, Cos _ 0.92
UV electrical voltage (peak)	3-phase, 380/480 V ac + N+ G, 50/60 Hz, 128/100 A per phase
UV Power consumption	76 KW

¹ On 165 x 310 cm (65 x 122 in) sheets, including a full loading and unloading cycle

² E, EE, and EB fluted boards

³ According to ASTM D2565-99

⁴ Maximum printable length in Production 95 Mode 310 cm (122 in)

⁵ On 165 x 320 cm (65 x 126 in) sheets, including a full loading and unloading cycle

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Ordering information

Product
CG749A HP Scitex FB7500 Printer

Ink supplies

CH675A	HP FB220 Cyan Scitex Ink 5 Liter
CH676A	HP FB220 Magenta Scitex Ink 5 Liter
CH677A	HP FB220 Yellow Scitex Ink 5 Liter
CH678A	HP FB220 Black Scitex Ink 5 Liter
CH679A	HP FB220 Light Cyan Scitex Ink 5 Liter
CH680A	HP FB220 Light Magenta Scitex Ink 5 Liter
CH736A	HP FB221 Cyan Scitex Ink 5 Liter
CH737A	HP FB221 Magenta Scitex Ink 5 Liter
CH738A	HP FB221 Yellow Scitex Ink 5 Liter
CH739A	HP FB221 Black Scitex Ink 5 Liter
CH740A	HP FB221 Light Cyan Scitex Ink 5 Liter
CH741A	HP FB221 Light Magenta Scitex Ink 5 Liter

Warranty & Service:

HP Scitex FB7500

CC903-90346	24M Full Coverage Warranty Care Pack
CC903-90347	48M Full Coverage warranty Care Pack

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