

Product Q&A



HP Designjet T7200

Production Printer

June 2014 launch

Key messages

The HP Designjet T7200 Production Printer offers a proven solution for high-volume printing that integrates color and black-and-white, and with a low cost of ownership. Adding HP Designjet SmartStream, you will also get correct PDF management and big savings in job preparation time,¹ while gaining full control of your printing workflow.

A proven color production solution with low cost of ownership:

- ✓ Accelerate your production with high-speed color printing that delivers up to four D/A1-size pages per minute
- ✓ Print up to 1,968 ft (600 m) uninterrupted with high-capacity HP ink cartridges and three heavy rolls and increase efficiency with optional hardware accessories like an external stacker, online folder, and scanner
- ✓ Use one printer for all your black-and-white and color needs from CAD drawings to renderings and graphics, printing on a wide range of media, from bond paper to glossy photo paper, for maximum versatility
- ✓ Print black-and-white drawings at the same cost per page as comparable black-and-white LED printers²
- ✓ Boost production, manage PDFs, and cut job preparation time by up to 50%¹ with HP Designjet SmartStream; in addition, HP Crystal Preview Technology from HP Designjet SmartStream accurately shows how technical documents will be printed

HP Designjet T7200 Production Printer Q&A

1. Product features

Q: What markets is HP targeting with the new HP Designjet T7200 Production Printer?

A: The HP Designjet T7200 Production Printer is ideal for print service providers who need a solution to print many different kinds of jobs with a high speed and low running costs. Combined with HP Designjet Smartstream, the HP Designjet T7200 Production Printer is also a very convenient solution for central reprographics departments (CRDs) and reprographic houses with moderate printing volumes.

Market segments that typically have the need to produce this type of content include: AEC (Architecture, Engineering, and Construction), manufacturing, utilities, oil and gas, mining, and public sector.

Q: What new features does the HP Designjet T7200 Production Printer offer?

A: The HP Designjet T7200 Production Printer includes the following features:

- Full solution with HP Designjet SmartStream: adding HP Designjet SmartStream, an easy to run professional software, will help you increase your productivity by cutting down job preparation time by up to 50%.¹ You will also get correct PDF management while gaining full control of your printing workflow
- Online folder³ integration, with two different endorsed online folders: Butterfly Extra II Folder (GERA) and estefold 4211-HP (es-te). They can be available and controllable from HP Designjet SmartStream in the printer's preferences (for default settings) and in the settings panel and job preparation grid
- New 320 GB processor/hard disk, a significant improvement compared to the previous model of this printer

Q: What is the average recommended volume for this platform?

A: The average recommended volume for the HP Designjet T7200 Production Printer is more than 1,000m²/month. We currently have T7100 Printer customers (the previous printer model) printing more than 3,000m² per month.

Q: Is the four D/A1-size pages per minute speed in Fast mode?

A: The four D/A1-size pages per minute speed is a print speed category that only large-format Low Volume LED products can reach today. It usually takes into account only mechanical printing time, i.e. from first drop to last drop, without including cutting or processing time.

The HP Designjet T7200 Production Printer can print a D/A1-size page in 15.5 seconds in Fast mode (with Economode on)⁴ which puts this printer in this speed category—and it can reach four D/A1-size prints per minute linear speed. Including cutting and processing time, it can reach 165 D/A1-size prints per hour.

Delivering high-speed color printing up to four D/A1-size pages per minute puts the HP Designjet T7200 Production Printer at the same speed level as large-format Low Volume LED printers. Printers with the latest LED technology, such as the Océ PlotWave 300, can reach faster speeds when printing simple plots.

Q: Does the HP Designjet T7200 Production Printer offer driverless printing (USB direct printing)?

A: No.

2. Media and roll loading

Q: What types of paper this device works with?

A: The HP Designjet T7200 Production Printer supports rolls from 280 to 1,067 mm (11 to 42 in), up to 18 kg (26.5 lb), with a thickness up to 0.4 mm (15.7 mil).

There is a range of HP large format printing materials compatible with the HP Designjet T7200 Production Printer including papers with ColorPRO Technology, FSC®- or PEFC™-certified papers,⁵ and recyclable papers.⁶ For the entire HP Large Format Printing Materials portfolio, please see globalBMG.com/hp.

Supported HP large format printing materials include the following:

- HP Bright White Inkjet Paper (ColorPRO, FSC® certified,⁵ recyclable⁶)—914 mm x 91.4 m (36 in x 300 ft)
- HP Heavyweight Coated Paper (PEFC™ certified,⁵ recyclable⁶)—1067 mm x 30.5 m (42 in x 100 ft)
- HP Universal Satin Photo Paper (ColorPRO)—1067 mm x 30.5 m (42 in x 100 ft)
- HP Everyday Matte Polypropylene, 2 Pack (recyclable⁷)—1067 mm x 30.5 m (42 in x 100 ft)
- HP Universal Bond Paper (ColorPRO, FSC® certified,⁵ recyclable⁶)—914 mm x 175 m (36 in x 574 ft)

Q: What is the reason to have a maximum media thickness supported on the HP Designjet T7200 Production Printer of 0.4 mm (15.7 mil) instead of 0.8 mm (31.5 mil)?

A: The maximum media thickness is 0.4 mm (15.7 mil), supporting all technical media. Typically, only fine art media is thinner than 0.4 mm (15.7 mil). For example, HP Super Heavyweight Coated Paper is 0.25 mm (9.8 mil).

Q: How are jobs allocated to the paper rolls?

A: When you submit a print job from the HP Embedded Web Server (EWS) or the printer driver, you can specify (using the “Paper type” or “Type is” options) a particular paper type; you can even specify (using the “Paper source”, “Source is”, or “Paper Feed” options) a particular roll (1 or 2). The printer will try to satisfy these requirements, and it will also look for a paper roll large enough to print the image without clipping.

- If both rolls are suitable for the job, the roll will be chosen according to the roll switching policy (doesn't matter, minimize paper waste or minimize roll switch)
- If just one of the rolls is suitable for the job, it will be printed on that roll
- If neither roll is suitable for the job, it will be held in the job queue with the status “On hold for paper”, or printed on an unsuitable roll, depending on the paper mismatch action

Additional HP Designjet SmartStream software also allows users to allocate jobs to the paper rolls.

When it comes to the printer driver for Windows, it defines which paper types and widths are currently loaded, and on which rolls.

Q: Can I do borderless printing?

A: No. Borderless printing is not available. The minimum physical margin is 5 mm (0.1968 in).

Q: Can I load a single sheet?

A: No. The HP Designjet T7200 Production Printer only supports rolls from 280 to 1,067 mm (11 to 42 in).

3. Technology

Q: What is the Optical Media Advance Sensor (OMAS) used for in the HP Designjet T7200 Production Printer?

A: The OMAS sensor tracks the paper movement by taking pictures from the back of the media while moving (12 pictures in 0.5 sec), comparing the difference between them in real time. With OMAS, the paper advances 2 times faster than the previous HP Designjet 4x20 Printer series, increasing by 2 times the paper advance accuracy. This improvement leads to a reduction in line continuity and banding artifacts in Fast mode.

In addition, the OMAS is not only able to track paper in the printing direction, but it also measures the angle at which the paper is output from the printer. There are a set of correction algorithms in the system to adjust the firing sequences of the nozzles to that angle and produce better and straighter vertical lines than in previous products.

In summary, this is one of the technologies that enable the HP Designjet T7200 Production Printer to print at LED speeds with no compromise in image quality.

Q: What is HP Double Swath Technology?

A: HP Double Swath Technology reduces the number of scans needed to complete a D/A1-size page in landscape (only 14 scans), taking 15.5 seconds to print from the first drop to the last. With a longer image, this will translate to four D/A1-size pages per minute average linear speed.

Q: Why is inkjet technology more reliable than LED technology?

A: Inkjet systems overall are simple and require a minimum number of moving parts. Most of the printing engine resides in the printhead, which is easily replaced by the user at the end of its life. The benefit of this technology is that it requires minimum maintenance to run, which translates to lower running costs.

LED printing systems require many steps to function and all of them must work in perfect synchrony. A failure in any of the steps creates a visible defect on the paper such as vertical white lines, background noise, or a "ghost" of the previous image. Many of these defects suppose a gradual degradation of print quality, which then requires system maintenance: cleaning, developer replacement, photoconductor replacement, etc. So behind an LED printer, there is always a hidden service engineer that can lead to higher service costs. The higher the production, the more frequent the maintenance requirement is.

In contrast, the HP Designjet T7200 Production Printer, based on HP Thermal Inkjet technology, requires minimum maintenance that can be performed by the end user. For a typical large-format LED printer, maintenance visits are required three to five times per year. For the HP Designjet T7200 Production Printer, the service frequency is between six to ten times lower.

Q: How is security managed? How is access controlled?

A: The HP Designjet T7200 Production Printer has the same security features as the HP Designjet T7100 Printer:

- Ability to lock the front panel
- Set access levels to the HP Embedded Web Server
- Disable I/O options
- Secure disk erase
- External hard disk

Also, there is an Encrypted HDD Printer with a specific SKU available only in Americas.

4. SKU map and accessories

Q: Which accessories are available with the new HP Designjet T7200 Production Printer?

A: Accessories available for the HP Designjet T7200 Production Printer include:

- HP Designjet Roll Upgrade Kit
- HP Designjet PostScript/PDF Upgrade Kit
- HP Designjet 220V Stacker
- HP Designjet 110V Stacker⁸
- HP Designjet HD Pro Scanner
- HP Jetdirect 640n Print Server
- HP SmartStream Preflight Manager for HP Designjet
- HP SmartStream Print Controller for HP Designjet T7100/T7200 Production Printer
- HP endorses two production folders³: Butterfly Extra II Folder (GERA) and estefold 4211-HP (es-te)

Q: Are HP Designjet T7100 Printer accessories also compatible with the HP Designjet T7200 Production Printer?

A: Yes. HP Designjet T7100 Printer accessories are compatible with the new HP Designjet T7200 Production Printer.

Q: Can the HP Designjet T7200 Production Printer be upgraded to PostScript?

A: Yes. The upgrade requires the purchase of the HP Designjet PostScript/PDF Upgrade Kit (CQ745B).

Q: Why should I buy the HP Designjet PostScript/PDF Upgrade Kit and what are the benefits?

A: HP Designjet PostScript/PDF Upgrade Kit includes true Adobe PostScript software that ensures the highest-quality printing experience from start to finish. Users will be more efficient; will gain versatility as well as accuracy:

- PostScript reduces the steps needed to print a job: print directly from an intuitive HP front panel
- Express every detail of your vision precisely with sharp definition, vibrant colors, accurate lines, and superior resolution
- Handle complex PDF, CAD, technical drawings, maps, and other files easily and effectively
- Avoid printing errors such as carriage stops and printing artifacts and ensure PDF files are processed the way it was intended

Q: Do I need the HP Designjet PostScript/PDF Upgrade Kit to print from a Mac?

A: Yes, the HP Designjet PostScript/PDF Upgrade Kit is needed to print from a Mac with the Printer driver.

There are other options to print from a Mac, for example, by using HP Embedded Web Server. However, in order to print with a Printer driver from a Mac, the HP Designjet PostScript/PDF Upgrade Kit is needed.

Q: How does the HP Designjet PostScript/PDF upgrade accessory work?

A: The HP Designjet PostScript/PDF upgrade accessory has different elements:

- A USB dongle that you can plug into the back of the printer to convert your printer to PostScript. The printer will also support PDF, TIFF, and JPEG. Once the printer is converted to PostScript, the dongle can be removed
- A 512 MB memory DIMM that must be installed in the back of the printer
- HP Designjet SmartStream, optional professional software that offers complete PDF management, creates accurate and error-free printouts, and reduces preparation time by up to 50% on complex jobs¹—in order to add HP Designjet SmartStream, your printer must be converted to PostScript.

Q: When should the PostScript driver be used and when should the HP-GL/2 driver be used?

A: For higher productivity (from processing to printing), use the HP-GL/2 driver. For a complex PDF or PostScript file, use the PostScript driver, which provides correct object location and accurate color reproduction.

Q: What is the capacity of the bin that comes in the box with the printer?

A: The bin/basket is provided to store finished prints. It can be used in several different ways:

- To stack A0/E-size paper only. For this purpose, the top handles should be up and the bottom handles should be down. It stacks up to 100 plots
- To stack A1/D-size paper only. For this purpose, the top handles should be down; the bottom handles are irrelevant. It stacks up to 100 plots

To maximize stacking capacity, 3-inch core rolls should be used as the reduced curling of the paper provides higher stacking capacity. In dry environmental conditions, stacking capacity is reduced due to paper curling.

Q: What is the capacity of the output stackers sold as accessories with the HP Designjet T7200 Production Printer?

A: The output stacker is designed to offer a maximum capacity of 500 plots of 3-inch core media. It is recommended to use 3-inch core media with the stacker to optimize performance. The output stacker supports the following papers up to 110 g/m²:

- Plain Paper
- HP Bright White Inkjet Paper (ColorPRO, FSC® certified,⁵ recyclable⁶)
- Bright White Paper
- HP Universal Bond Paper (ColorPRO, FSC® certified,⁵ recyclable⁶)
- HP Recycled Bond Paper
- Recycled Bond Paper
- HP Coated Paper PEFC™ certified⁹⁶
- Coated Paper

Q: How do the endorsed folders integrate with the device/driver and service?

A: Both online folders,³ Butterfly Extra II Folder (GERA) and estefold 4211-HP (es-te), are integrated through the HP Designjet SmartStream.

Q: Why aren't 775-ml ink cartridges available for all colors, rather than just matte black and dark gray?¹⁰

A: This is due to the higher usage of black cartridges compared with color and grey inks and as a measure to avoid color and grey cartridges to expire.

Q: Does the output stacker impact print speed?

A: Using the output stacker adds about 2 seconds per page printed in order to synchronize the printer with the stacker picking system. So the maximum impact in speed is around 10% when printed in Fast mode.

Q: Can the printer use 2-in and 3-in rolls?

A: Yes. The HP Designjet T7200 Production Printer includes 2-in and 3-in adapter kit in the box.

Q: What is the printhead warranty?

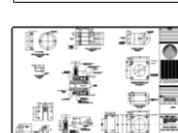
A: The expiry of the printhead warranty is indicated by the date printed next to "end of warranty" on the product, or until 1,200 ml of Original HP ink have been cycled through the printhead, whichever occurs first.

5. Total cost of ownership

Q: How does this device compare in terms of total cost of ownership (TCO) with other HP Designjet products and LED MFPs?

A: The figure below should be used as a quick reference of the ink usage. For further detailed information, please check the TCO tools.

		Ink usage (ml/ft ²)	Ink usage (ml/m ²)
CAD mono drawings	Best	0,12	1,34
	Normal	0,10	1,07
	Fast	0,09	0,93
	Economode	0,04	0,45
CAD color	Best	0,11	1,16
	Normal	0,08	0,85
	Fast	0,08	0,82
	Economode	0,04	0,40



¹ Conclusion based on an HP internal test measuring the time required to extract pages from a 50-page document and print them using several printers compared with using equivalent software programs.

² Compared with large-format Low Volume LED printers with print speeds of up to 7 Arch D pages per minute.

³ Only available in Europe, the Middle East, and Africa.

⁴ Mechanical printing time. Printed in Fast mode using HP Bright White Inkjet Paper (bond) and Original HP inks.

⁵ BMG trademark license code FSC®-C115319, see fsc.org. HP trademark license code FSC®-C017543, see fsc.org. BMG trademark license code PEFC™/29-31-261, see pefc.org. HP trademark license code PEFC™/29-31-198, see pefc.org. Not all FSC®- or PEFC™-certified products are available in all regions.

⁶ Can be recycled through commonly available recycling programs

⁷ HP Large format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See globalBMG.com/hp/ecosolution for details.

⁸ Not available in Asia Pacific and Japan.

⁹ FSC® trademark license code FSC®-C017543, see fsc.org. PEFC™ trademark license code PEFC™/29-31-198, see pefc.org. Not all FSC®- or PEFC™-certified products are available in all regions.

¹⁰ HP 763 775-ml Matte Black and Dark Gray Ink Cartridges not available in the Americas.

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