



HP DesignJet XT870 24-in Printer (AM0X9F)

Overview



The world's easiest multi-size printing experience^[1] for posters and CAD drawings

Produce CAD drawings, posters, and signage with a printer that delivers the world's easiest multi-size printing experience.^[1] Simplify with HP Click^[2], keep your data secure, and enhance your sustainability efforts with this compact printer.

VERSATILE—Effortless, high-quality results across sizes and formats

Print it all—from renders and CAD drawings to educational posters and durable retail signage, you'll see high-quality results across print sizes with pigment-based HP Flex Tech Inks.

SUSTAINABLE—Save energy^[4] and minimize waste^[5,7]

Invest in a compact, robust printer made with at least 45% recycled plastic and 10% recycled metal.^[5]

CONNECTED—Seamless and secure by design

Simplify printing with HP Click^[3]—available as a driver and app. Save time with real-print preview and automatic error detection.

Features



Compact printer designed for projects up to A1/D size



Print multi-size A4/A to A1/D projects automatically



Get high-quality results with pigment-based HP Flex Tech Inks



Save time with real-print preview and auto error detection[3]



Use up to 95% less ink during printhead cleaning routines[6]



Lower energy use by up to 60%[4]

[1] Based on test results using HP Click with the HP DesignJet XT870. This solution enables printing in fewer steps compared to main competitor printing solutions. Printing a 5-page mixed job set with A1 and A3 takes 3 steps using HP Click vs. 11 steps with competitor A and 8 steps with competitor B. Testing performed by Sogeti, July 2025. Detailed test report is available upon request.

[2] Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP Inks.

[3] HP Click App is compatible with Windows and Mac. HP Click Driver is compatible with Windows 11 only. HP Click software is only compatible with Original HP Ink supplies. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files.

[4] The percentage reductions in energy consumption are based on tests conducted by HP, 2024. Data based on the implementation of auto-scheduled on/off usage in various printer models, measured on a monthly basis. Actual savings may vary depending on the specific usage patterns, printer models, and environmental conditions.

[5] The HP DesignJet XT870 is crafted with at least 45% recycled plastic and 10% recycled metal. Recycled plastic is based on total plastic weight, with post-consumer recycled content defined by the EPEAT standard for imaging equipment (IEEE 1680.2). Recycled metal is based on total metal weight used in the product.

[7] The HP DesignJet XT870 Printer has replaced EPS with molded pulp cushions made from recycled fiber-based material.

Specifications

Print Resolution Color (best)	Up to 2400 x 1200 optimized dpi
AIO Functions	Print
Connectivity, Std	Gigabit Ethernet (1000Base-T), Wi-Fi 802.11b/g/n
Software Included	HP Click Driver for Windows 11, HP Click App for Windows and Mac, HP App for Windows, Mac, Android and iOS, PartnerLink
Compatibility Statement	698G7A HP DesignJet Sheet Organizer; B3Q36A HP DesignJet 24-in Spindle; CN538A HP DesignJet 3-in Core Adapter
Energy Star Certified	Yes
Product Dimensions (metric)	1100 x 690 x 935 mm
Product Dimensions (imperial)	43.3 x 27.1 x 36.8 in
Weight (metric)	38.5 kg
Weight (imperial)	85 lb
Power Consumption Description	35 W (printing), <5.5 W (ready), <2.5 W (sleep), <0.2 W (off); auto-scheduled printer on/off usage
Environmental Certifications	ENERGY STAR®, EPEAT[7], UL ECOLOGO® certified inks, CE marking (including WEEE, RoHS, REACH, ErP). In compliance with applicable WW RoHS materials restriction requirements
What Is In The Box	HP DesignJet XT870 Printer, printhead, introductory ink cartridges, printer stand, spindle, guide, warranty flyer, power cord

Additional specifications

AIO Functions (filter)	Print
Acoustic Power Emissions (active, printing)	5.6 B (A) (operating)
Acoustic Pressure Emissions	40 dB (A) (operating)
Automation Feature Photo 16	https://hp.widen.net/content/uxza1rrzzi/original/uxza1rrzzi.png
Automation Feature Photo 17	https://hp.widen.net/content/pcfjzva4i/original/pcfjzva4i.png
Automation Feature Photo 18	https://hp.widen.net/content/hyj2qypcmw/original/hyj2qypcmw.png
Automation Feature Photo 19	https://hp.widen.net/content/iiprvornvk/original/iiprvornvk.png
Automation Feature Photo 20	https://hp.widen.net/content/tlbzhquiyq/original/tlbzhquiyq.png
Automation Feature Photo 21	https://hp.widen.net/content/yfxh9y1kmx/original/yfxh9y1kmx.png
Cartridge Size (filter)	130 ml; 300 ml
Color Ink Technology (filter)	Pigment
Datasheet Feature Photo 10	https://hp.widen.net/content/e6e7tfqrnh/original/e6e7tfqrnh.png?color=ffffff00
Datasheet Feature Photo 11	https://hp.widen.net/content/xvif8cxhxi/original/xvif8cxhxi.png
Datasheet Feature Photo 12	https://hp.widen.net/content/vjj1da79gr/original/vjj1da79gr.png
Datasheet Feature Photo 13	https://hp.widen.net/content/zb3cleuisj/original/zb3cleuisj.png
Datasheet Feature Photo 14	https://hp.widen.net/content/vbd7jjep3o/original/vbd7jjep3o.png
Datasheet Photo 01	https://prismtui-int.inc.hpinc.net/PRO.Crystal.1/DAMHandler/Publication/photos/HP DesignJet T870 Printer - Front AEC_4559301.png
Electromagnetic Emission Standard	Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (RED Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Korea (KCC)
HP ePrint Capability	No
Hard Disk	None
Ink Drop	6 pl (C, M, Y); 12.6 pl (mK)
Ink Types	Pigment-based (C, M, Y, mK)
Job Storage Memory	2.7 GB reprint queue
Line Accuracy	±0.1% ^[2]
Maximum Optical Density (black)	15 L* min/1.7 D ^[3]
Maximum roll diameter (imperial) (filter)	5.2 in
Media Handling, Document Finishing	Roll feed, automatic sheet feeder (50 sheet capacity), media bin, automatic horizontal cutter
Media Sizes Custom (imperial)	Auto sheet feeder: 8.3 x 11 to 12 x 18 in; Manual feed: 8.3 x 11 to 24 x 66 in

Media Sizes Custom (metric)	Auto sheet feeder: 210 x 279 to 305 x 457 mm; Manual feed: 210 x 279 to 609 x 1676 mm
Media Sizes Standard (imperial Rolls)	14.5 to 24 in
Media Thickness (by paper path)	Up to 11.8 mil
Media Thickness Maximum (imperial)	0.0118 in
Media Thickness Maximum (metric)	0.3 mm
Media Types	Bond and coated paper (bond, coated, heavyweight coated, plain, bright white, blueprint), technical paper (natural tracing), film (clear, matte, backlit), photographic paper (ID satin, ID gloss), self-adhesive (matte/gloss, polypropylene gloss, removable fabric), banner (polypropylene matte, PVC banner), fine art material (canvas)
Media Weight Recommended (imperial)	0.01 to 0.057 lb/ft ² (roll/manual feed); 0.01 to 0.045 lb/ft ² (auto sheet feeder)
Media Weight Recommended (metric)	60 to 280 g/m ² (roll/manual feed); 60 to 220 g/m ² (auto sheet feeder)
Media Width Maximum (imperial)	24 in
Media Width Maximum (metric)	610 mm
Media sizes standard (metric rolls)	369 to 610 mm
Model Size (imperial)	24 in
Model Size (metric)	610 mm
Network Ready	Standard
Non-Printable Area (imperial cut-sheet)	0.2 x 0.2 x 0.2 x 0.2 in
Non-Printable Area (metric cut-sheet)	5 x 5 x 5 x 5 mm
Non-operating Humidity Range	0 to 95% RH
Non-printable Area Roll Media (imperial)	0.2 x 0.2 x 0.2 x 0.2 in
Non-printable Area Roll Media (metric)	5 x 5 x 5 x 5 mm
Number of Cartridges (filter)	4
Operating Altitude (imperial)	Up to 9842.5 ft
Operating Altitude (metric)	Up to 3000 m
Operating Humidity Range	20 to 70% RH (non-condensing)
Operating Temperature Range (celsius)	5 to 40°C
Operating Temperature Range (fahrenheit)	41 to 104°F

Orderable Supplies	HP Original Ink: HP 738 cartridges (Black, Cyan, Magenta, Yellow), and HP 739 printhead
Package Dimensions (imperial)	51.7 x 22.44 x 25.19 in
Package Dimensions (metric)	1310 x 570 x 640 mm
Package Weight (imperial)	104 lb
Package Weight (metric)	48.5 kg
Playbook TS Icon Dimensions AiO	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192862.png
Playbook TS icon 1	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c06122573.png
Playbook TS icon 2	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03799043.png
Playbook TS icon 3	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169234.png
Playbook TS icon 4	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05539237.png
Playbook TS icon 5	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169175.png
Playbook TS icon 6	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169254.png
Playbook TS icon 7	https://hp.widen.net/s/hpv8nh5nbj/wolf-logo-without-title-icon_m0244631
Playbook TS icon 8	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169230.png
Post Consumer Recycled Plastic In Hardware by weight of plastic	45%
Power Supply Required	Input voltage (auto ranging): 100-240 V ($\pm 10\%$), 50/60 Hz (± 3 Hz), 1.2 A max
Print Cartridge/Bottle Volume (metric)	300 ml per cartridge; 130 ml per cartridge
Print Cartridge/Bottle, Color(s)	Cyan, magenta, yellow, matte black
Print Cartridges/Bottle, Number	4 (C, M, Y, mK) cartridges
Print Head Nozzles	1376 per color; 5504 in total
Print Heads	1 (C, M, Y, mK)
Print Languages, Standard	TIFF, JPEG, URF, PDF, HP-GL/2, HP-RTL, CALS G4
Print Multi-size Files In One Click	Yes
Print Speed (filter)	20 to 30 sec/page on D size
Print Speed (imperial)	21 sec/page for D size, 120 D size 24-in prints per hour[1]
Print Speed (metric)	21 sec/page on A1, 120 A1 prints per hour[1]
Print Technology	HP Thermal Inkjet
Printer Applications (filter)	Architecture; Engineering; Construction; Maps; Presentation graphics
Printer Drivers Included	Raster driver for macOS and Windows, HP Click Driver for Windows 11, HP-GL/2 driver for Windows
Printer Features (filter)	Automatic roll and sheet switching (ARSS); Automatic horizontal cutter; Stand; Wi-Fi; USB

Printing Path	HP Click App for Windows and Mac, HP Click Driver for Windows 11, Apple AirPrint and HP app for Android and iOS devices, Windows and macOS printer drivers, printing support for Chrome OS, Wi-Fi Direct, remote printing, print from USB pen drive
Product Logos	AirPrint; CE marking; ENERGY STAR; EPEAT Climate+; UL ECOLOGO; IPv6 Ready; Mac; Wi-Fi Certified; Windows 11 Compatible; HP Wolf Security logo
Recommended Media	HP Universal Bond Paper (FSC® certified)[4] (recyclable)[5]; HP Coated Paper (FSC® certified)[4] (recyclable)[5]; HP Heavyweight Coated Paper (FSC® certified)[4] (recyclable)[5]; HP Recycled[6] Removable Adhesive Fabric; HP Opaque Scrim Banner; HP Production Matte Canvas; HP Backlit Polyester Film; HP Universal Instant-dry Gloss Photo Paper(FSC® certified)[4]; HP Universal Instant-dry Satin Photo Paper (FSC® certified)[4]; HP Everyday Matte Polypropylene
Remote Print Enabled	Yes
Roll External Diameter	130 mm (rolls up to 91.4 m)
Roll External Diameter (imperial)	5.1 in (rolls up to 300 ft)
Roll Maximum Input	1
Roll Maximum Weight (imperial)	13.2 lb
Roll Maximum Weight (metric)	8 kg
Roll Size (filter)	Up to 24 in
Safety Approvals and Requirements	USA and Canada (CSA certified); EU (RED Directive, EN 62368-1 compliant); Singapore (PSB); China (CCC); Mexico (NYCE); Argentina (IRAM); India (BIS)
Security Features	HP Wolf Pro Security, HP Secure Boot, Allowlisting, Security event logging, Disable network ports and protocols, SNMPv3, 802.1x compatibility, TLS 1.3, HP Web JetAdmin, HP Security Manager, SIEM Integration
Standard Media Sizes Supported (imperial)	Auto sheet feeder: A, B; Manual feed: A, B, C, D
Standard Media Sizes Supported (metric)	Auto sheet feeder: A4, A3; Manual feed: A4, A3, A2, A1
Standard Memory	1 GB
Storage Temperature Range (celsius)	-25 to 55°C
Storage Temperature Range (fahrenheit)	-13 to 131°F
Supported Applications, Primary	Banners; Line drawings; Maps; Posters; Presentations; Renderings; Signage
Sustainability Impact (filter)	ENERGY STAR®; EPEAT®; UL Ecologo
Technology	Ink
Technology Logo 01	AHID/6ccf9d4446c01c859534a2fb7659263b9b01ddf4
Technology Logo 02	AHID/60d2a69d632efba286c546dd6a2fcfdb5c3c9e1f
Technology Logo 03	AHID/7bee122a508ac102778a2545b78ae391a84fc2ec
Technology Logo 04	https://prismtui-int.inc.hpinc.net/PRO.Crystal.1/DAMHandler/Publication/logos/EPEAT-Climate-Logo-EPEAT-Green.png
Technology Logo 05	AHID/f9ce1e61e73ea99cc4982eaa9299291acf6e881f

Technology Logo 06	AHID/945487f2bd084417f5faf1dc22fc2c60d9acd6f2
Technology Logo 07	AHID/6f0d9166025a5031fe5065190ad987887ae7225f
Technology Logo 08	AHID/475b555c4e0d683d70ab9c27abd71316f15763f4
Technology Logo 09	AHID/461085c1b740909bae1c0b88638e669f7e1c8782
Technology Logo 10	AHID/a286acf7dedc806cefddc5c667fc866212f76463
Theoretical Minimum Line Width (imperial)	0.0008 in (via raster driver)
Theoretical Minimum Line Width (metric)	0.02 mm (via raster driver)
UNSPSC Code	43212110
UPC Number	199251089374

Ink/Toner/Paper/Printer Supplies

Ink Supplies

★ : Recommended

HP Graphic Arts Inks/Printheads

HP 738 130-ml Black DesignJet Ink Cartridge	498N4A
HP 738 130-ml Cyan DesignJet Ink Cartridge	498N5A
HP 738 130-ml Magenta DesignJet Ink Cartridge	498N6A
HP 738 130-ml Yellow DesignJet Ink Cartridge	498N7A
HP 738 300-ml Black DesignJet Ink Cartridge	498N8A
HP 738 300-ml Cyan DesignJet Ink Cartridge	676M6A
HP 738 300-ml Magenta DesignJet Ink Cartridge	676M7A
HP 738 300-ml Yellow DesignJet Ink Cartridge	676M8A
HP 738 Introductory Cyan DesignJet Ink Cartridge	4J6Y5A
HP 738 Introductory Magenta DesignJet Ink Cartridge	4J6Y6A
HP 738 Introductory Yellow DesignJet Ink Cartridge	4J6Y7A
HP 738B 130-ml Black DesignJet Ink Cartridge	498P2A
HP 738B 300-ml Black DesignJet Ink Cartridge	498P6A
HP 738M 300-ml Black DesignJet Ink Cartridge	498Q0A
HP 738M 300-ml Cyan DesignJet Ink Cartridge	676M9A
HP 738M 300-ml Magenta DesignJet Ink Cartridge	676N0A
HP 738M 300-ml Yellow DesignJet Ink Cartridge	676N1A
HP 739 DesignJet Printhead Replacement Kit	498N0A

*XT870 takes 738M inks

Accessories

Paper Handling

★ : Recommended

Spindles

HP DesignJet 24-in Spindle

B3Q36A

Roll Core Adapters

HP DesignJet 3-in Core Adapter

CN538A

Output Trays and Stackers

HP DesignJet T870 Sheet Organizer

BT6F2A

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