



# HP DesignJet T870 24-in Printer (AM0X9H)

## 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]

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[1] Based on test results using HP Click with the HP DesignJet T870. 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 T870 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 T870 Printer has replaced EPS with molded pulp cushions made from recycled fiber-based material.

## Specifications

<b>Print quality color (best)</b>	Up to 2400 x 1200 optimized dpi
<b>Functions</b>	Print
<b>Connectivity, standard</b>	Gigabit Ethernet (1000Base-T), Wi-Fi 802.11b/g/n
<b>Software included</b>	HP Click Driver for Windows 11, HP Click App for Windows and Mac, HP App for Windows, Mac, Android and iOS, PartnerLink
<b>Compatibility</b>	698G7A HP DesignJet Sheet Organizer; B3Q36A HP DesignJet 24-in Spindle; CN538A HP DesignJet 3-in Core Adapter
<b>Energy star certified</b>	Yes
<b>Dimensions (W x D x H)</b>	1100 x 690 x 935 mm
<b>Dimensions (W x D x H)</b>	43.3 x 27.1 x 36.8 in
<b>Weight</b>	38.5 kg
<b>Weight</b>	85 lb
<b>Power consumption</b>	35 W (printing), <5.5 W (ready), <2.5 W (sleep), <0.2 W (off); auto-scheduled printer on/off usage
<b>Environmental certification</b>	ENERGY STAR®, EPEAT[7], UL ECOLOGO® certified inks, CE marking (including WEEE, RoHS, REACH, ErP). In compliance with applicable WW RoHS materials restriction requirements
<b>What's in the box</b>	HP DesignJet T870 Printer, printhead, introductory ink cartridges, printer stand, spindle, guide, warranty flyer, power cord

## Additional specifications

<b>Acoustic power emissions (active, printing)</b>	5.6 B (A) (operating)
<b>Acoustic pressure emissions</b>	40 dB (A) (operating)
<b>Cartridge volume</b>	130 ml; 300 ml
<b>Color ink technology</b>	Pigment
<b>Datasheet photo 1</b>	<a href="https://prismui-int.inc.hpcorp.net/PRO.Crystal.1/DAMHandler/Publication/photos/HP%20DesignJet%20T870%20Printer%20-%20Front%20AEC_4559301.png">https://prismui-int.inc.hpcorp.net/PRO.Crystal.1/DAMHandler/Publication/photos/HP DesignJet T870 Printer - Front AEC_4559301.png</a>
<b>Electromagnetic compatibility</b>	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)
<b>Features</b>	Automatic roll and sheet switching (ARSS); Automatic horizontal cutter; Stand; Wi-Fi; USB
<b>Finished output handling</b>	Roll feed, automatic sheet feeder (50 sheet capacity), media bin, automatic horizontal cutter
<b>Functions</b>	Print
<b>HP ePrint capability</b>	No
<b>Ink drop</b>	6 pl (C, M, Y); 12.6 pl (mK)
<b>Ink types</b>	Pigment-based (C, M, Y, mK)
<b>Internal Storage</b>	None
<b>Job storage memory</b>	2.7 GB reprint queue
<b>Line accuracy</b>	±0.1% <sup>[2]</sup>
<b>Maximum optical density (black)</b>	15 L* min/1.7 D <sup>[3]</sup>
<b>Maximum roll diameter</b>	5.2 in
<b>Media sizes standard (metric rolls)</b>	369 to 610 mm
<b>Media sizes standard (sheets, rolls)</b>	14.5 to 24 in
<b>Media sizes supported</b>	Auto sheet feeder: A, B; Manual feed: A, B, C, D
<b>Media sizes supported</b>	Auto sheet feeder: A4, A3; Manual feed: A4, A3, A2, A1
<b>Media sizes, custom</b>	Auto sheet feeder: 8.3 x 11 to 12 x 18 in; Manual feed: 8.3 x 11 to 24 x 66 in
<b>Media sizes, custom</b>	Auto sheet feeder: 210 x 279 to 305 x 457 mm; Manual feed: 210 x 279 to 609 x 1676 mm
<b>Media thickness</b>	Up to 11.8 mil
<b>Media thickness maximum</b>	0.0118 in
<b>Media thickness maximum (metric)</b>	0.3 mm

<b>Media types</b>	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)
<b>Media weight, recommended</b>	0.01 to 0.057 lb/ft <sup>2</sup> (roll/manual feed); 0.01 to 0.045 lb/ft <sup>2</sup> (auto sheet feeder)
<b>Media weight, recommended</b>	60 to 280 g/m <sup>2</sup> (roll/manual feed); 60 to 220 g/m <sup>2</sup> (auto sheet feeder)
<b>Media width, maximum</b>	24 in
<b>Media width, maximum</b>	610 mm
<b>Memory</b>	1 GB
<b>Model size</b>	610 mm
<b>Model size</b>	24 in
<b>Network ready</b>	Standard
<b>Non-Operating Humidity Range</b>	0 to 95% RH
<b>Non-printable area (cut-sheet)</b>	5 x 5 x 5 x 5 mm
<b>Non-printable area (cut-sheet)</b>	0.2 x 0.2 x 0.2 x 0.2 in
<b>Non-printable area (roll media)</b>	5 x 5 x 5 x 5 mm
<b>Non-printable area (roll media)</b>	0.2 x 0.2 x 0.2 x 0.2 in
<b>Number of cartridges</b>	4
<b>Operating altitude</b>	Up to 9842.5 ft
<b>Operating altitude</b>	Up to 3000 m
<b>Operating humidity range</b>	20 to 70% RH (non-condensing)
<b>Operating temperature range</b>	5 to 40°C
<b>Operating temperature range</b>	41 to 104°F
<b>Orderable supplies</b>	HP Original Ink: HP 738 cartridges (Black, Cyan, Magenta, Yellow), and HP 739 printhead
<b>Package dimensions (W x D x H)</b>	51.7 x 22.44 x 25.19 in
<b>Package dimensions (W x D x H)</b>	1310 x 570 x 640 mm
<b>Package weight</b>	104 lb
<b>Package weight</b>	48.5 kg
<b>Playbook TS icon 1</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c06122573.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c06122573.png</a>
<b>Playbook TS icon 2</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03799043.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03799043.png</a>
<b>Playbook TS icon 3</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169234.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169234.png</a>
<b>Playbook TS icon 4</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05539237.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05539237.png</a>
<b>Playbook TS icon 5</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169175.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169175.png</a>
<b>Playbook TS icon 6</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169254.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169254.png</a>

<b>Playbook TS icon 7</b>	<a href="https://hp.widen.net/s/hpv8nh5nbj/wolf-logo-without-title-icon_m0244631">https://hp.widen.net/s/hpv8nh5nbj/wolf-logo-without-title-icon_m0244631</a>
<b>Playbook TS icon 8</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169230.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169230.png</a>
<b>Playbook TS icon dimensions AiO</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192862.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192862.png</a>
<b>Post consumer recycled plastic in hardware by weight of plastic</b>	45%
<b>Power</b>	Input voltage (auto ranging): 100-240 V ( $\pm 10\%$ ), 50/60 Hz ( $\pm 3$ Hz), 1.2 A max
<b>Print Cartridge/Bottle, Color(s)</b>	Cyan, magenta, yellow, matte black
<b>Print Cartridges/Bottle, Number</b>	4 (C, M, Y, mK) cartridges
<b>Print Technology</b>	Ink
<b>Print cartridge/bottle volume</b>	300 ml per cartridge; 130 ml per cartridge
<b>Print head nozzles</b>	1376 per color; 5504 in total
<b>Print heads</b>	1 (C, M, Y, mK)
<b>Print languages</b>	TIFF, JPEG, URF, PDF, HP-GL/2, HP-RTL, CALS G4
<b>Print multi-size files in one click</b>	Yes
<b>Print speed</b>	21 sec/page for D size, 120 D size 24-in prints per hour[1]
<b>Print speed</b>	21 sec/page on A1, 120 A1 prints per hour[1]
<b>Print speed</b>	20 to 30 sec/page on D size
<b>Print technology</b>	HP Thermal Inkjet
<b>Printer Applications</b>	Architecture; Engineering; Construction; Maps; Presentation graphics
<b>Printer drivers included</b>	Raster driver for macOS and Windows, HP Click Driver for Windows 11, HP-GL/2 driver for Windows
<b>Printing path</b>	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
<b>Product logos</b>	AirPrint; CE marking; ENERGY STAR; EPEAT Climate+; UL ECOLOGO; IPv6 Ready; Mac; Wi-Fi Certified; Windows 11 Compatible; HP Wolf Security logo
<b>Recommended media</b>	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
<b>Remote print enabled</b>	Yes
<b>Roll external diameter</b>	130 mm (rolls up to 91.4 m)
<b>Roll external diameter</b>	5.1 in (rolls up to 300 ft)
<b>Roll maximum input</b>	1
<b>Roll maximum weight</b>	8 kg

<b>Roll maximum weight</b>	13.2 lb
<b>Roll size</b>	Up to 24 in
<b>Safety</b>	USA and Canada (CSA certified); EU (RED Directive, EN 62368-1 compliant); Singapore (PSB); China (CCC); Mexico (NYCE); Argentina (IRAM); India (BIS)
<b>Security features</b>	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
<b>Storage temperature range</b>	-13 to 131°F
<b>Storage temperature range</b>	-25 to 55°C
<b>Supported Primary Applications</b>	Banners; Line drawings; Maps; Posters; Presentations; Renderings; Signage
<b>Sustainability Impact</b>	ENERGY STAR®; EPEAT®; UL Ecologo
<b>Technology logo 1</b>	AHID/6ccf9d4446c01c859534a2fb7659263b9b01ddf4
<b>Technology logo 10</b>	AHID/a286acf7dedc806cefddc5c667fc866212f76463
<b>Technology logo 2</b>	AHID/60d2a69d632efba286c546dd6a2fcfdb5c3c9e1f
<b>Technology logo 3</b>	AHID/7bee122a508ac102778a2545b78ae391a84fc2ec
<b>Technology logo 4</b>	<a href="https://prismui-int.inc.hplicorp.net/PRO.Crystal.1/DAMHandler/Publication/logos/EPEAT-Climate-Logo-EPEAT-Green.png">https://prismui-int.inc.hplicorp.net/PRO.Crystal.1/DAMHandler/Publication/logos/EPEAT-Climate-Logo-EPEAT-Green.png</a>
<b>Technology logo 5</b>	AHID/f9ce1e61e73ea99cc4982eaa9299291acf6e881f
<b>Technology logo 6</b>	AHID/945487f2bd084417f5faf1dc22fc2c60d9acd6f2
<b>Technology logo 7</b>	AHID/6f0d9166025a5031fe5065190ad987887ae7225f
<b>Technology logo 8</b>	AHID/475b555c4e0d683d70ab9c27abd71316f15763f4
<b>Technology logo 9</b>	AHID/461085c1b740909bae1c0b88638e669f7e1c8782
<b>Theoretical minimum line width</b>	0.02 mm (via raster driver)
<b>Theoretical minimum line width</b>	0.0008 in (via raster driver)
<b>UNSPSC code</b>	43212110
<b>UPC number</b>	(AC4) 199642790827; (AKV) 199642790834; (B19) 199251089381; (B1K) 199251089398

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# 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

## 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 Sheet Organizer

BT6F2A

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