

# HP DesignJet T870 24-in Printer



The world's easiest multi-size printing experience<sup>1</sup> for posters and CAD drawings



\*Product image may differ from actual product

## 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.
- Easily print multi-size A4/A to A1/D projects using the integrated input tray or roll, without manually changing from roll to sheet.
- Stay focused—print A1/D-sized plots in as fast as 21 seconds<sup>2</sup> and experience fewer ink interruptions with 130/300 ml cartridges.

## CONNECTED—Seamless and secure by design

- Simplify printing with HP Click<sup>3</sup>—available as a driver and app. Save time with real-print preview and automatic error detection.
- Protect your printer and data from cyberthreats without any effort thanks to HP Wolf Pro Security.

## SUSTAINABLE—Save energy<sup>4</sup> and minimize waste<sup>5,7</sup>

- Invest in a compact, robust printer made with at least 45% recycled plastic and 10% recycled metal.<sup>5</sup>
- Lower energy use by up to 60% with automatic on/off scheduling<sup>4</sup>, and use up to 95% less ink<sup>6</sup> during printhead cleaning routines.
- Reduce plastic waste with 100% polystyrene-free packaging<sup>7</sup> and recycle your HP cartridges through HP's Planet Partners program.<sup>8</sup>

## Messaging Footnotes

<sup>1</sup> 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.

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

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> Test commissioned by HP and conducted by Sogeti in May 2025, comparing the HP DesignJet T870, Canon TM-255, and Epson SC-T3405 in terms of ink consumption during routine printhead cleanings.

<sup>7</sup> The HP DesignJet T870 Printer has replaced EPS with molded pulp cushions made from recycled fiber-based material.

<sup>8</sup> Program availability varies. For details, see <https://www.hp.com/hprecycle>.



# Technical specifications

## Print

<b>Print speed</b>	21 sec/page for D size, 120 D size 24-in prints per hour <sup>1</sup>
<b>Print resolution</b>	Up to 2400 x 1200 optimized dpi
<b>Technology</b>	HP Thermal Inkjet
<b>Margins</b>	Roll: 0.2 x 0.2 x 0.2 x 0.2 in Sheet: 0.2 x 0.2 x 0.2 x 0.2 in
<b>Ink types</b>	Pigment-based (C, M, Y, mK)
<b>Print Cartridges, Number</b>	4 (C, M, Y, mK) cartridges
<b>Ink drop</b>	6 pl (C, M, Y); 12.6 pl (mK)
<b>Print cartridge volume</b>	300 ml per cartridge; 130 ml per cartridge
<b>Printheads</b>	1 (C, M, Y, mK)
<b>Printhead nozzles</b>	1376 per color; 5504 in total
<b>Line accuracy</b>	±0.1% <sup>2</sup>
<b>Minimum line width</b>	0.0008 in (via raster driver)
<b>Max optical density</b>	15 l <sup>3</sup> min/1.7 D <sup>3</sup>

## Media

<b>Applications</b>	Banners; Line drawings; Maps; Posters; Presentations; Renderings; Signage
<b>Handling</b>	Roll feed, automatic sheet feeder (50 sheet capacity), media bin, automatic horizontal cutter
<b>Maximum media width</b>	24 in
<b>Media rolls</b>	1
<b>Roll size</b>	14.5 to 24 in
<b>Maximum roll weight</b>	13.2 lb
<b>Maximum roll diameter</b>	5.1 in (rolls up to 300 ft)
<b>Sheet size</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>Standard media sizes supported</b>	Auto sheet feeder: A, B Manual feed: A, B, C, D
<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 thickness (maximum)</b>	0.0118 in
<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)

## Embedded controller

<b>Memory</b>	1 GB
<b>Hard disk</b>	None
<b>Job storage memory</b>	2.7 GB reprint queue
<b>Native print languages</b>	TIFF, JPEG, URF, PDF, HP-GL/2, HP-RTL, CALS G4

## Connectivity

<b>Interfaces</b>	Gigabit Ethernet (1000Base-T), Wi-Fi 802.11b/g/n
<b>Printing paths</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>Remote print enabled</b>	Yes
<b>One-click multi-size printing</b>	Yes
<b>Drivers</b>	Raster driver for macOS and Windows, HP Click Driver for Windows 11, HP-GL/2 driver for Windows
<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

## Dimensions (W x D x H)

<b>Product</b>	43.3 x 27.1 x 36.8 in
<b>Shipping</b>	51.7 x 22.44 x 25.19 in

## Weight

<b>Product</b>	85 lb
<b>Shipping</b>	104 lb

## Included

<b>What's in the box</b>	HP DesignJet T870 Printer, printhead, introductory ink cartridges, printer stand, spindle, guide, warranty flyer, power cord
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<b>HP Software and solutions</b>	HP Click Driver for Windows 11, HP Click App for Windows and Mac, HP App for Windows, Mac, Android and iOS, PartnerLink
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## Environmental ranges

<b>Operating temperature</b>	41 to 104°F
<b>Operating humidity</b>	20 to 70% RH (non-condensing)
<b>Operating altitude</b>	Up to 9842.5 ft
<b>Storage temperature</b>	-13 to 131°F
<b>Recycled plastic in printer</b>	45%

## Acoustics

<b>Sound pressure</b>	Printing: 40 dB (A) (operating)
<b>Sound power</b>	Printing: 5.6 B (A) (operating)

## Power

<b>Consumption</b>	35 W (printing), <5.5 W (ready), <2.5 W (sleep), <0.2 W (off); auto-scheduled printer on/off usage
<b>Requirements</b>	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1.2 A max

## Certifications & Compliance

<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>Electromagnetic</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>Environmental</b>	ENERGY STAR <sup>®</sup> , EPEAT <sup>7</sup> , UL ECOLOGO <sup>®</sup> certified inks, CE marking (including WEEE, RoHS, REACH, ErP). In compliance with applicable WW RoHS materials restriction requirements
<b>Country of origin</b>	China(B1K, ABG, AB1, AC4, B19, AKV, BCD, ACJ); Thailand(B1K)

## Ordering information

<b>Product</b>	AMOX9A HP DesignJet T870 24-in Printer
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### Accessories

B3Q36A	HP DesignJet 24-in Spindle
CN538A	HP DesignJet 3-in Core Adapter

### Original HP printing supplies

498N0A	HP 739 DesignJet Printhead Replacement Kit
498N4A	HP 738 130-ml Black DesignJet Ink Cartridge
498N5A	HP 738 130-ml Cyan DesignJet Ink Cartridge
498N6A	HP 738 130-ml Magenta DesignJet Ink Cartridge
498N7A	HP 738 130-ml Yellow DesignJet Ink Cartridge
498N8A	HP 738 300-ml Black DesignJet Ink Cartridge
498P2A	HP 738B 130-ml Black DesignJet Ink Cartridge
498P6A	HP 738B 300-ml Black DesignJet Ink Cartridge
676M6A	HP 738 300-ml Cyan DesignJet Ink Cartridge
676M7A	HP 738 300-ml Magenta DesignJet Ink Cartridge
676M8A	HP 738 300-ml Yellow DesignJet Ink Cartridge

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit <https://hp.com/go/OriginalHPInks>

### Original HP large format printing materials

HP Universal Bond Paper (FSC<sup>®</sup> certified)<sup>4</sup> (recyclable)<sup>5</sup>  
HP Coated Paper (FSC<sup>®</sup> certified)<sup>4</sup> (recyclable)<sup>5</sup>  
HP Heavyweight Coated Paper (FSC<sup>®</sup> certified)<sup>4</sup> (recyclable)<sup>5</sup>  
HP Recycled<sup>®</sup> Removable Adhesive Fabric  
HP Opaque Scrim Banner  
HP Production Matte Canvas  
HP Backlit Polyester Film  
HP Universal Instant-dry Glass Photo Paper(FSC<sup>®</sup> certified)<sup>4</sup>  
HP Universal Instant-dry Satin Photo Paper (FSC<sup>®</sup> certified)<sup>4</sup>  
HP Everyday Matte Polypropylene  
For the entire HP Large Format Printing Materials portfolio, please see [HPLFMedia.com](http://HPLFMedia.com).

### Service and Support

UK8L6E HP 2 year Next Business Day DesignJet T870 (In Warranty)  
UK8L7E HP 3 year Next Business Day DesignJet T870 (In Warranty)  
UK8L8E HP 4 year Next Business Day DesignJet T870 (In Warranty)  
UK8L9E HP 5 year Next Business Day DesignJet T870 (In Warranty)  
UC744E HP Network Install DesignJet Low-end SVC  
HP Support Services offer installation and extended support services (e.g. 2, 3, 4, and 5 years). For more information, please visit <http://www.hp.com/go/cpc>

## Specification Footnotes

- <sup>1</sup> Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks.
- <sup>2</sup> ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23°C (73°F), 50-60% relative humidity, on A1/D printing material in Best or Normal mode with HP Heavyweight Coated roll feed and Original HP inks.
- <sup>3</sup> With HP Universal Instant Dry Photo Gloss media with Original HP inks.
- <sup>4</sup> BMG trademark license code FSC<sup>®</sup>-C115319, see <http://www.fsc.org>. HP trademark license code FSC<sup>®</sup>-C017543, see <http://www.fsc.org>.
- <sup>5</sup> Can be recycled through commonly available recycling programs.
- <sup>6</sup> Product consists of PET fabric and coatings. With liner attached, 72% by weight of the product consists of recycled content. Base material fabric is made from 100% recycled resin.
- <sup>7</sup> The T870 is EPEAT Gold in the U.S. and Canada and has achieved EPEAT Climate+. See [www.epeat.net](http://www.epeat.net) for registration status and tier levels by country.

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