HP DesignJet T870 24-in Printer

The world's easiest multi-size printing experience[1] 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, without manually changing from roll to sheet.
- Stay focused—print A1/D-sized plots in as fast as 21 seconds[2] and experience fewer ink interruptions with 130/300 ml cartridges.

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.
- Protect your printer and data from cyberthreats without any effort thanks to HP Wolf Pro Security.

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]
- Lower energy use by up to 60% with automatic on/off scheduling[4], and use up to 95% less ink[6] during printhead cleaning routines.
- Reduce plastic waste with 100% polystyrene-free packaging[7] and recycle your HP cartridges through HP's Planet Partners program.[8]

Messaging Footnotes

[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.
[6] 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.
[7] The HP DesignJet T870 Printer has replaced EPS with molded pulp cushions made from recycled fiber-based material.
[8] Program availability varies. For details, see https://www.hp.com/hprecycle.

Works with Apple AirPrint

Datasheet

Technical specifications

Print

Print speed	21 sec/page on A1, 120 A1 prints per hour[1]
Print resolution	Up to 2400 x 1200 optimized dpi
Technology	HP Thermal Inkjet
Margins	Roll: 5 x 5 x 5 x 5 mm Sheet: 5 x 5 x 5 x 5 mm
Ink types	Pigment-based (C, M, Y, mK)
Print Cartridges, Number	4 (C, M, Y, mK) cartridges
Ink drop	6 pl (C, M, Y); 12.6 pl (mK)
Print cartridge volume	300 ml per cartridge; 130 ml per cartridge
Printheads	1 (C, M, Y, mK)
Printhead nozzles	1376 per color; 5504 in total
Line accuracy	±0.1%[2]
Minimum line width	0.02 mm (via raster driver)
Max optical density	15 L* min/1.7 D[3]

Media

Applications	Banners; Line drawings; Maps; Posters; Presentations; Renderings; Signage
Handling	Roll feed, automatic sheet feeder (50 sheet capacity), media bin, automatic horizontal cutter
Maximum media width	610 mm
Media rolls	1
Roll size	369 to 610 mm
Maximum roll weight	8 kg
Maximum roll diameter	130 mm (rolls up to 91.4 m)
Sheet size	Auto sheet feeder: 210 x 279 to 305 x 457 mm Manual feed: 210 x 279 to 609 x 1676 mm
Standard media sizes supported	Auto sheet feeder: A4, A3 Manual feed: A4, A3, A2, A1
Media Weight Recommended	60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)
Media thickness (maximum)	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)

Embedded controller

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

Connectivity

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

Dimensions (W x D x H)

Product	1100 x 690 x 935 mm
Shipping	1310 x 570 x 640 mm

Weight

Product	38.5 kg
Shipping	48.5 kg

Included

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

Environmental ranges

Operating temperature	5 to 40°C
Operating humidity	20 to 70% RH (non-condensing)
Operating altitude	Up to 3000 m
Storage temperature	-25 to 55°C
Recycled plastic in printer	45%

Acoustics

Sound pressure	Printing: 40 dB (A) (operating)
Sound power	Printing: 5.6 B (A) (operating)

Power

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

Certifications & Compliance

Safety	USA and Canada (CSA certified); EU (RED Directive, EN 62368-1 compliant); Singapore (PSB); China (CCC); Mexico (NYCE); Argentina (IRAM); India (BIS)
Electromagnetic	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)
Environmental	ENERGY STAR®, EPEAT[7], UL ECOLOGO® certified inks, CE marking (including WEEE, RoHS, REACH, ErP). In compliance with applicable WW RoHS materials restriction requirements
Warranty	Two-year limited hardware warranty.
Country of origin	Made in China; Made in Thailand

Ordering information

Product	
AM0X9A	HP DesignJet T870 24-in Printer
Accessories	
B3Q36A	HP DesignJet 24-in Spindle
BT6F2A	HP DesignJet Sheet Organizer
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
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® certified)[4] (recyclable)[5]
HP Coated Paper (FSC® certified)[4] (recyclable)[5]
HP Heavyweight Coated Paper (FSC® certified)[4] (recyclable)[5]
HP Opaque Scrim Banner (REACH compliant)[6]
For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

Service and Support

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

[1] Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks.
[2] ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC (73ºF), 50-60% relative humidity, on A1/D printing material in Best or Normal mode with HP Heavyweight Coated roll feed and Original HP inks.
[3] With HP Universal Instant Dry Photo Gloss media with Original HP inks.
[4] BMG trademark license code FSC®-C115319, see http://www.fsc.org . HP trademark license code FSC®-C017543, see http://www.fsc.org .
[5] Can be recycled through commonly available recycling programs.
[6] 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.

© Copyright 2025 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

October 2025