



# HP DesignJet T650 24-in Printer (5HB08T)



## Overview

**The world's smallest plotters[1]—intuitive and responsibly designed.**

Focus on the project, not your plotter. This printer delivers incredible ease of use with HP Click Print solutions.[2] It's responsibly designed to help you save energy[4] and reduce plastics use[7]. Plus, it's compact and adaptable—to fit the way you work.

### **INTUITIVE—Easy, effortless printing**

Simplify printing with the new HP Click Print solutions—save time with real-print preview.[2]

### **OPTIMIZED—Fits the way you work**

Save space with the world's smallest plotters[1] designed to fit your office, including a built-in stand.

### **RESPONSIBLY DESIGNED—Reduce energy and plastic use**

Save 65% energy[4] with the printer on/off auto scheduler and enjoy efficient ink maintenance routines[5].

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*[1]Based on competitive comparison of operational footprint. Test performed by Sogeti and commissioned by HP in May 2024.*

*[2]HP One-click printing with HP Click software. 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]Use up to 96% less ink for routine maintenance vs. competitor. Based on HP internal testing, June 2024, comparing the HP DesignJet T200 Printer series and Canon iPF TM printer series in terms of ink used during routine printhead cleanings.*

*[7]Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled content is based on the definition set in the EPEAT standard for imaging equipment, IEEE 1680.2.*

## 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), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct
<b>Software included</b>	HP Click App for Windows and macOS, HP Click Driver for Windows 11, HP app for Windows, macOS, Android and iOS
<b>Energy star certified</b>	Yes
<b>Minimum dimensions (W x D x H)</b>	1013 x 605 x 932 mm
<b>Minimum dimensions (W x D x H)</b>	39.9 x 23.8 x 36.7 in
<b>Weight</b>	29.5 kg
<b>Weight</b>	65 lb
<b>Power consumption</b>	<35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (standby)
<b>Environmental certification</b>	ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP; EPEAT Climate+ Gold; UL Ecologo
<b>What's in the box</b>	HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord
<b>Manufacturer Warranty</b>	One-year limited hardware warranty

## Additional specifications

<b>Accessories</b>	B3Q36A HP DesignJet 24-in Spindle
<b>Acoustic power emissions (active, printing)</b>	5.8 B(A) (operating), <3.4 B(A) (idle)
<b>Acoustic pressure emissions</b>	42 dB(A) (operating), <16 dB(A) (idle)
<b>Dynamic security</b>	Dynamic security enabled printer
<b>Electromagnetic compatibility</b>	Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC/RED Directives), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Certified as Class B product: Korea (KCC)
<b>Finished output handling</b>	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
<b>High capacity of page yield (colour)</b>	20 ml of ink yields 101 A1/D pages, taking into account maintenance routines[2]
<b>Ink drop</b>	5.5 pl (C, M, Y); 12 pl (K)
<b>Ink types</b>	Dye-based (C, M, Y); pigment-based (K)
<b>Internal Storage</b>	None
<b>Line accuracy</b>	±0.1%[3]
<b>Maximum optical density (black)</b>	8 L* min/2.10 D[4]
<b>Media sizes standard (metric rolls)</b>	279 to 610 mm
<b>Media sizes standard (sheets, rolls)</b>	11 to 24 in
<b>Media sizes supported</b>	Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1
<b>Media sizes supported</b>	Auto sheet feeder: A, B; manual feed: A, B, C, D
<b>Media sizes, custom</b>	Auto sheet feeder: 8.3 x 11 to 13 x 19 in; manual feed: 8.3 x 11 to 24 x 74.7 in
<b>Media sizes, custom</b>	Auto sheet feeder: 210 x 279 to 330 x 482 mm; manual feed: 210 x 279 to 610 x 1897 mm
<b>Media thickness</b>	Up to 11.8 mil
<b>Media thickness (metric)</b>	Up to 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), photographic paper (satin, gloss, semigloss, polypropylene), self-adhesive (adhesive, polypropylene)
<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>	24 in

<b>Model size</b>	610 mm
<b>Non-Operating Humidity Range</b>	0 to 95% RH
<b>Non-printable area (cut-sheet)</b>	0.2 x 0.2 x 0.2 x 0.7 in (manual feed); 0.2 x 0.2 x 0.2 x 0.2 in (input tray)
<b>Non-printable area (cut-sheet)</b>	5 x 5 x 5 x 17 mm (manual feed); 5 x 5 x 5 x 5 mm (input tray)
<b>Non-printable area (roll media)</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>Operating altitude</b>	Up to 3000 m
<b>Operating altitude</b>	Up to 9843 ft
<b>Operating humidity range</b>	20 to 80% RH
<b>Operating temperature range</b>	5 to 40°C
<b>Operating temperature range</b>	41 to 104°F
<b>Package dimensions (W x D x H)</b>	1155 x 575 x 475 mm
<b>Package dimensions (W x D x H)</b>	45.5 x 22.6 x 18.1 in
<b>Package weight</b>	83.8 lb
<b>Package weight</b>	38 kg
<b>Playbook TS icon connectivity</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.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>Playbook TS icon display AiO</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169148.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169148.png</a>
<b>Post consumer recycled plastic in hardware by weight of plastic</b>	40%
<b>Power</b>	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1200 mA max
<b>Print Cartridge/Bottle, Color(s)</b>	Cyan, magenta, yellow, black
<b>Print Cartridges/Bottle, Number</b>	4 (C, M, Y, K) cartridges
<b>Print Technology</b>	Ink
<b>Print cartridge/bottle volume delivered</b>	80 ml (K); 38 ml (K); 29 ml (C, M, Y) per cartridge
<b>Print head nozzles</b>	1376
<b>Print heads</b>	1 (cyan, magenta, yellow, black)
<b>Print languages</b>	HP-GL/2, HP-RTL, CALS G4, JPEG, URF
<b>Print multi-size files in one click</b>	Yes
<b>Print speed</b>	26 sec/page on A1, 81 A1 prints per hour[1]
<b>Print speed</b>	26 sec/page on D, 81 D prints per hour[1]
<b>Print technology</b>	HP Thermal Inkjet
<b>Printer drivers included</b>	Raster driver for macOS and Windows, HP-GL/2 driver for Windows, HP Click Driver for Windows 11

<b>Printing path</b>	HP Click App, HP Click Driver, HP app, Windows and MacOS printer drivers, HP-GL/2 driver for Windows, Apple AirPrint, Android Default Print Service, Printing support for ChromeOS, Email printing
<b>Product logos</b>	AirPrint; ENERGY STAR; EPEAT Climate+ Gold; Carbon Neutral; Gold IPv6 Ready; Hi-Speed USB; UL Validated; Wi-Fi CERTIFIED; Windows 11 Compatible
<b>Recommended media</b>	HP Universal Bond Paper (FSC® certified)[5] (recyclable)[6]; HP Coated Paper (FSC® certified)[5] (recyclable)[6]; HP Heavyweight Coated Paper (FSC® certified)[5] (recyclable)[6]
<b>Remote print enabled</b>	Yes
<b>Roll external diameter</b>	100 mm
<b>Roll external diameter</b>	3.9 in
<b>Roll maximum input</b>	1
<b>Roll maximum weight</b>	4.1 kg
<b>Roll maximum weight</b>	9 lb
<b>Safety</b>	USA and Canada (CSA certified); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, Kazakhstan (EAC); Ukraine (UA); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS); Mexico (NYCE)
<b>Security features</b>	HP Wolf Essential Security: Secure boot with HW root of trust; Firmware Code Signature Validation; Automatic FW Updates; HTTPS Redirect enabled by default; SNMPv1/2 read-only by default; SNMPv3 disabled by default; Write-protected memory; HP Cartridge Security; Unique password; Disable USB ports; TLS 1.2; 802.1x; IPv4 & IPv6 Compatibility; CA/JD Compatibility
<b>Storage temperature range</b>	-13 to 131°F
<b>Storage temperature range</b>	-25 to 55°C
<b>Supported Primary Applications</b>	Line drawings; Presentations; Renderings
<b>Theoretical minimum line width</b>	0.0008 in
<b>Theoretical minimum line width</b>	0.02 mm
<b>UNSPSC code</b>	43212104
<b>UPC number</b>	198701027089
<b>Web address for additional information</b>	<a href="http://www.hp.com/go/designjett650">http://www.hp.com/go/designjett650</a>

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## Ink/Toner/Paper/Printer Supplies

### Ink Supplies

★ : Recommended

#### HP Graphic Arts Inks/Printheads

HP 712 2-pack 80-ml Black DesignJet Ink Cartridges	3WW89A
HP 712 29-ml Cyan DesignJet Ink Cartridge	3ED67A
HP 712 29-ml Magenta DesignJet Ink Cartridge	3ED68A
HP 712 29-ml Yellow DesignJet Ink Cartridge	3ED69A
HP 712 3-pack 29-ml Cyan DesignJet Ink Cartridge	3ED77A
HP 712 3-pack 29-ml Magenta DesignJet Ink Cartridge	3ED78A
HP 712 3-pack 29-ml Yellow DesignJet Ink Cartridge	3ED79A
HP 712 38-ml Black DesignJet Ink Cartridge	3ED70A
HP 712 80-ml Black DesignJet Ink Cartridge	3ED71A
HP 712B 38-ml Black DesignJet Ink Cartridge	3ED28A
HP 712B 80-ml Black DesignJet Ink Cartridge	3ED29A
HP 713 DesignJet Printhead Replacement Kit	3ED58A

# Accessories

## Paper Handling

★ : Recommended

### Spindles

HP DesignJet 24-in Spindle	B3Q36A
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