Datasheet

HP DesignJet T790 PostScript® Printer

The most productive 610-mm (24-inch) HP DesignJet printer[1] for small teams

QUALITY – Quickly produce outstanding results

- Six Original HP inks produce a wide colour gamut ideal for colour graphics.

- Original HP grey and photo black inks achieve precise line accuracy, dark blacks, and true neutral greys.

- Communicate with precision – produce plans, drawings, and maps with fine line quality, and up to 2400 dpi.

- Print quickly without sacrificing quality – create an A1-size print in 32 seconds with Economode.

CONVENIENCE – Speed up printing with easy workflow

- Print TIFF, JPEG, and PDF files from your printer's USB thumb drive – no computer required.

- If you're on-the-go, attach your document to an email and send it directly to your printer via ePrint.[2]

- The intuitive touchscreen simplifies navigation and printing.

RELIABILITY – Plug-and-play printer for small teams

- Focus on your design – not printing – with this reliable HP DesignJet printer.

- Quick printing – in-printer processing architecture, added memory for processing even the most complex files.

- Print confidently knowing that, even if you're in a rush, this printer can handle all your files.

For more information, please visit
http://www.hp.com/go/designjett790

Technical specifications

Print

Line drawings	32 sec/page on A1; 93 A1 prints per hour[1]
Colour images	**Fast:** 37 m²/hr[1] on coated media **Best:** 2.8 m²/hr[1] on glossy media
Print resolution	Up to 2400 x 1200 optimized dpi
Margins	**Roll:** 5 x 5 x 5 x 5 mm **Sheet:** 5 x 17 x 5 x 5 mm
Technology	HP Thermal Inkjet
Ink types	Dye-based (C, G, M, pK, Y); pigment-based (mK)
Ink cartridges	6 (cyan, gray, magenta, matte black, photo black, yellow)
Ink drop	6 pl (C, G, M, pK); 9 pl (mK, Y)
Printheads	3 (matte black and yellow, magenta and cyan, photo black and gray)
Line accuracy	±0.1%[2]
Minimum line width	0.02 mm (HP-GL/2 addressable)
Guaranteed minimum line width	0.06 mm (ISO/IEC 13660:2001(E))[3]

Media

Handling	Sheet feed; roll feed; automatic cutter
Weight	60 to 328 g/m²
Size	210 to 610-mm wide sheets; 279 to 610-mm rolls
Thickness	Up to 0.8 mm
Memory	8 GB (virtual)[4]; Standard, 160 GB hard disk

Connectivity

Interfaces (standard)	Fast Ethernet (100Base-T); Hi-Speed USB 2.0 certified; EIO Jetdirect accessory slot
Print languages (standard)	Adobe PostScript 3, Adobe PDF 1.7, HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4, HP PCL 3 GUI
Drivers (included)	HP-GL/2, HP-RTL drivers for Windows (optimized for AutoCAD 2000 and higher) HP PCL 3 GUI driver for Mac OS X PostScript Windows, Linux, and Mac drivers

Dimensions (w x d x h)

Printer	1262 x 702 x 391 mm
Shipping	1440 x 766 x 770 mm

Weight

Printer	60 kg (NA, LAR), 42 kg (EMEA, AP)
Shipping	77 kg
What's in the box	HP DesignJet T790 Printer; printheads; introductory ink cartridges; spindle; quick reference guide; setup poster; startup software; power cord

Environmental ranges

Operating temperature	5 to 40ºC
Storage temperature	–25 to 55ºC
Operating humidity	20 to 80% RH

Acoustics

Sound pressure	43 dB(A) (active); 29 dB(A) (standby)
Sound power	6.1 B(A) (active); 4.7 B(A) (standby)

Power

Consumption	< 120 watts (printing), < 27 watts (ready), < 7 watts (< 25 watts with embedded Digital Front End) (sleep), 0.1 watts (off)
Requirements	Input voltage (auto ranging) 100-240 V (±10%), 50/60 Hz (±3 Hz), 2 A max

Certification

Safety	EU (LVD and EN60950-1 compliant); Russia (GOST)
Electromagnetic	Compliant with Class A requirements, including: EU (EMC Directive)
Environmental	ENERGY STAR®; WEEE; EU RoHS; REACH; FEMP; EPEAT Bronze
Warranty	One-year limited hardware warranty

Ordering information

Product

CR648A	HP DesignJet T790 610-mm PostScript Printer

Accessories

CN538A	HP DesignJet 3-in Core Adapter
CQ783A	HP DesignJet 24-in Spindle
Q6663A	HP DesignJet T/Z 24-in Stand
G6H50B	HP SD Pro 44-in Scanner
G6H51B	HP HD Pro 42-in Scanner
J8025A	HP Jetdirect 640n Print Server

Original HP printheads

C9380A	HP 72 Gray and Photo Black DesignJet Printhead
C9383A	HP 72 Magenta and Cyan DesignJet Printhead
C9384A	HP 72 Matte Black and Yellow DesignJet Printhead

Original HP ink cartridges

C9397A	HP 72 69-ml Photo Black DesignJet Ink Cartridge
C9398A	HP 72 69-ml Cyan DesignJet Ink Cartridge
C9399A	HP 72 69-ml Magenta DesignJet Ink Cartridge
C9400A	HP 72 69-ml Yellow DesignJet Ink Cartridge
C9401A	HP 72 69-ml Gray DesignJet Ink Cartridge
C9403A	HP 72 130-ml Matte Black DesignJet Ink Cartridge
C9370A	HP 72 130-ml Photo Black DesignJet Ink Cartridge
C9371A	HP 72 130-ml Cyan DesignJet Ink Cartridge
C9372A	HP 72 130-ml Magenta DesignJet Ink Cartridge
C9373A	HP 72 130-ml Yellow DesignJet Ink Cartridge
C9374A	HP 72 130-ml Gray DesignJet Ink Cartridge
P2V33A	HP 72 2-pack 130-ml Matte Black DesignJet Ink Cartridges

Original HP large format printing materials

C6035A	HP Bright White Inkjet Paper-610 mm x 45.7 m
C6019B	HP Coated Paper-610 mm x 45.7 m (24 in x 150 ft)
C6029C	HP Heavyweight Coated Paper-610 mm x 30.5 m (24 in x 100 ft)
CZ987A	HP Premium Satin Photo Paper-610 mm x 15.2 m (24 in x 50 ft)

Service and Support

HP603E HP 3 year Next Business Day Onsite Hardware Support with Defective Media Retention for DesignJet T790-24in
HP605E HP 5 year Next Business Day Onsite Hardware Support with Defective Media Retention for DesignJet T790-24in
HP995PE HP 1 year Post Warranty Next Business Day Onsite Hardware Support with Defective Media Retention for DesignJet T790-24in
U7UW5PE HP 2 year Post Warranty Next Business Day Onsite Hardware Support with Defective Media Retention for DesignJet T790-24in
H4518E HP Network Installation Service for DesignJet High-end and Midrange
U1XV4E HP Preventive Maintenance Onsite Service for 2 hour for DesignJet Printers (Single Event)

HP DesignJet Support Services offer solutions for business critical environments—installation, extended support and maintenance, as well as variety of value-added services. For more information, please visit hp.com/go/designjetsupport.

Use Original HP inks and printheads 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 to provide precise line accuracy as well as dark blacks and true neutral grays. For more information, visit hp.com/go/OriginalHPinks.

For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

Eco Highlights

ENERGY STAR® qualified and EPEAT Bronze registered[1]
Free, convenient HP ink cartridge recycling[2]
FSC®-certified papers and a range of recyclable HP media with a take-back program[2]

[1] EPEAT registered where applicable and/or supported. See http://www.epeat.net for registration status by country.
[2] Program availability varies. Please check http://www.hp.com/recycle for details. BMG trademark license code FSC®-C115319, see http://www.fsc.org. HP trademark license code FSC®-C017543, see http://www.fsc.org. Not all FSC®-certified products are available in all regions. For information about HP large format printing materials, please visit http://www.HPLFMedia.com.

Please recycle large-format printing hardware and printing supplies. Find out how at our website
hp.com/ecosolutions

[1] Mechanical printing time
[2] ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23ºC (73°F), 50-60% relative humidity, on A0/E printing material in Best or Normal mode with HP Matte Film
[3] Measured on HP Matte Film