

HP Smart Tank 581 All-in-One Printer



The smart, connected tank printer



Enjoy everyday reliability with the HP Smart Tank 581 wireless All-in-One printer that delivers HP quality you expect and savings that are anything but expected

Highlights

- Simple set-up
- Border-less printing
- Made from recycled plastic
- Flatbed scanner
- Spill-free refill bottles



Auto on/off



Mobile app



Easy setup

Smart tank value

- Up to 12,000 pages of black or 6,000 color pages of color ink keeps you printing at a fraction of the cost
- Save on energy with HP Auto-On/Auto-Off technology
- Ink sensors help prevent costly printhead replacements

Ready when you are

- Stay connected and keep printing with self-healing Wi-Fi
- Print and scan on the go from any mobile device
- Mobile fax with HP Smart app

Conveniently intuitive

- Easy mobile-guided setup
- Print more at an ultra-low cost pages with up to 12,000 black pages or 6,000 color pages of ink bottles in the box
- Color-coded, mess-free recyclable bottles for easy refill

Footnotes

⁴ Wireless operations are compatible with 2.4 GHz operations only. Learn more at www.hp.com/go/mobileprinting. Wi-Fi is a registered trademark of Wi-Fi Alliance®.

⁵ Requires the HP Smart app download. For details on local printing requirements see www.hp.com/go/mobileprinting. Certain features/software are available in English language only and differ between desktop and mobile applications. Subscription may be required; subscription may not be available in all countries. For details, see: www.HPSmart.com. Internet access required and must be purchased separately. HP account required for full functionality. List of supported operating systems available in app stores. Fax capabilities are for sending a fax only.

⁶ HP Auto-On/Auto-Off Technology capabilities subject to printer and settings; may require a firmware upgrade.

⁷ Ink bottles can be recycled through HP's Planet Partner Program. Program availability varies. See hp.com/go/recycle

⁸ HP ink bottles compared to HP ink cartridges. Cost per page based on expected black and composite (cyan/magenta/yellow) page yield results based on HP methodology and continuous printing of ISO/IEC 24712 test pages. Not based on ISO/IEC 24711 test process. Actual yield varies based on content of printed pages and other factors. Some ink from included bottles is used to start up the printer. For more information about fill and yield, see hp.com/go/learnabouteink.

⁹ Black and composite color average per bottle (cyan/magenta/yellow) Three HP GT53 black bottle included in the box print up to 4,000 test pages on average. Results based on HP methodology and continuous printing of ISO/IEC 24712 test pages. Not based on ISO/IEC 24711 test process. An additional black ink bottle may be required to print 6000 color test pageaverages. Actual yield varies based on content of printed pages and other factors. Some ink from included bottles is used to start up the printer. For details, see: www.hp.com/go/learnabouteink

Technical specifications

Functions	Print, copy, scan
Print technology	HP Thermal Inkjet
Print speed ^{5,7}	Black (A4, ISO): Up to 12 ppm; Colour (A4, ISO): Up to 5 ppm; Draft black (A4): Up to 22 ppm; Draft colour (A4): Up to 16 ppm; Draft black (A4 Memo): Up to 30 ppm; Draft colour (A4 Memo): Up to 24 ppm
First page out	Black (A4, ready): As fast as 14 sec; Colour (A4, ready): As fast as 21 sec
Print resolution	Black (best): Up to 1200 x 1200 rendered dpi; Colour (best): Up to 4800 x 1200 optimized dpi color (when printing from a computer and 1200 input dpi)
Monthly duty cycle	Up to 3,000 pages A4; Recommended monthly page volume: 400 to 800
Standard print languages	HP PCL 3 GUI; HP PCLm (HP Apps/UPD); URF (AirPrint)
Print area	Print margins: Top: 3 mm, Bottom: 3 mm, Left: 3 mm, Right: 3 mm; Maximum print area: 216 x 355 mm
Borderless printing	Yes (up to 8.5 x 11 in, 210 x 297 mm)
Number of supplies	4 (1 each black bottle, set of 3 color bottles)
Duplex printing	Manual (driver support provided)
Copy speed ⁴	Black (A4, ISO): Up to 10 cpm; Colour (A4, ISO): Up to 2 cpm
Copier specifications	Copier settings: Number of Copies, Resize, Quality, Lighter/Darker, Papersize, Papertype, ID Copy, Enhancement; Maximum number of copies: Up to 99 copies; Copy resolution: Up to 600 dpi; Reduce/Enlarge: Via HP app
Scan file format	JPG; PDF; PNG; TIFF; HEIF
Scanner specifications	Scanner type: Flatbed only; Scan input modes: Copy; HP Software; EWS; Twain version: Version 2.4; Scan size maximum (flatbed): 216 x 297 mm; Optical scan resolution: Up to 1200 dpi
Scannable area	Maximum media size (flatbed): 216 x 297 mm
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	Standard: Scan to file (from software); HP Smart Tasks
Processor speed	980 MHz
Connectivity	Standard: 1 Hi-Speed USB 2.0 (device); 1 Wi-Fi 802.11b/g/n; 1 Wi-Fi Direct
Wireless	Yes, built-in Wi-Fi 2.4G, Wi-Fi Direct
Mobile printing capability ³	HP app; Apple AirPrint; Mopria Print Service; HP Print Service Plugin (Android printing); Wi-Fi® Direct Printing
Network capabilities	Yes (via WiFi)
Memory	Standard: 64 MB Integrated DDR1
Number of paper trays	Standard: 1
Media types	Plain paper, Matte Brochure Papers, Glossy Brochure Papers, Photo papers and Envelopes
Media size	Custom (metric): 88.9 x 127 to 215.9 x 355.6 mm Supported (metric): A4; B5; A6; DL envelope, legal
Media weight, supported	Plain paper: 60 to 90 g/m²; Envelopes: 75 to 90 g/m²; Cards: up to 200 g/m²; Photo paper: up to 300 g/m²
Input capacity	Standard: Up to 100 sheets Envelopes: Up to 10 envelopes Cards: Up to 30 cards
Output capacity	Standard: Up to 30 sheets Envelopes: Up to 10 envelopes Cards: Up to 30 cards

Compatible operating systems	Windows 11; Windows 10; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; macOS 13 Ventura; macOS 14 Sonoma
Minimum system requirements	Windows: Microsoft® Windows® 11, 10; Internet connection, Microsoft® Internet Explorer or Edge. Mac: Apple® macOS v10.15 Catalina, macOS v11 Big Sur, macOS v12 Monterey; 2 GB HD; Internet required
Software included	HP Printer Software
Printer dimensions (W x D x H) ¹	Minimum: 434.66 x 361.53 x 157.26 mm; Maximum: 434.66 x 580.65 x 259.37 mm
Package dimensions (W x D x H)	495 x 198 x 478 mm
Printer weight	5.03 kg
Package weight	7.2 kg to 7.6 kg depending on number of bottle/s included
Operating environment	Temperature: 5 to 40°C Humidity: 20 to 80% RH
Storage conditions	Temperature: -40 to 60°C Humidity: 5 to 90% RH (non-condensing)
Acoustics	Acoustic power emissions: 6.4 B(A) Acoustic pressure emission: 56.8 dBA
Power ²	Requirements: Input voltage 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz). High voltage: Input voltage 200 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3Hz) ; Consumption: 0.109 watts (manual-Off), 3.023 watts (ready), 1.096 watt (sleep) ; Power supply type: Internal built in
Certifications	EN 55032:2015+A11:2020 Class B; EN 55024:2010 +A1:2015; EN 55035:2017+A11:2020; EN IEC 61000-3-2:2019; EN 61000-3-2:2014; EN 61000-3-3:2013 +A1:2019; EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.4 Conforms to ecolabel energy efficiency limits
Sustainable impact specifications ¹	Post-consumer recycled is based on the definition set in the EPEAT standard for imaging equipment, IEEE 1680.2
Country of origin	Made in Thailand
Control panel	Power On/Off, Cancel, Resume, Color Copy, Black copy, ID copy, Wi-Fi and Info button
What's in the box	4A8D4A: HP Smart Tank 581 All-in-One Printer; 3 x HP GT53 90ml Black Original Ink Bottle; HP GT52 50ml Cyan Original Ink bottles; HP GT52 50 ml Magenta Original Ink bottles; HP GT52 50ml Yellow Original Ink bottles; HP Smart Tank Printhead; Setup Guide, Reference Guide, Ink Caution flyer; Regulatory flyer; Warranty flyer; Power Cord; For more information about fill and yield, see http://www.hp.com/go/learnaboutsupplies .
Supplies, After market or Supplies, replacement	1VV21AA HP GT53XL 135ml Black Original Bottled Ink Crtg for HP Ink Tank Plus and Premium Series Printers (~6,000 pages) 1VV22AA HP GT53 90ml Black Original Bottled Ink Crtg for HP Ink Tank Plus and Premium Series Printers (~4,000 pages) MOH54AA HP GT52 70-ml Cyan Original Ink Bottle (~8,000 pages) MOH55AA HP GT52 70-ml Magenta Original Ink Bottle (~8,000 pages) MOH56AA HP GT52 70-ml Yellow Original Ink Bottle (~8,000 pages)
Service and Support	U9NQ9E HP 2 Year Next Business Day Exchange Service for MFP Page Limit UA5C0E HP 3 Year Next Business Day Exchange Service for MFP Page Limit U9NR2E HP 2 Year Onsite Exchange E-Service MFP Page Limit UA5C1E HP 3 Year Onsite Exchange E-Service MFP Page Limit U9NR5E HP 2 Year Return to Depot E-Service MFP Page Limit UA5C2E HP 3 Year Return to Depot E-Service MFP Page Limit
Warranty	One-year or 30,000 pages limited hardware warranty, whichever is earlier from the date of purchase. For more info please visit us at http://support.hp.com

¹ Dimensions vary as per configuration ² Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. ³ Wireless performance is dependent upon physical environment and distance from the access point. Wireless operations are compatible with 2.4 GHz routers only; excludes wireless direct. Wireless direct may require driver or apps be installed and connected on wireless-enabled mobile device or PC. Wireless functionality may vary by computer and mobile operating systems, see <http://hpconnected.com> . Print times and connection speeds may vary. Apple, AirPrint, Mac, and macOS are trademarks of Apple Inc., registered in the U.S. and other countries. Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Windows is a trademark of the Microsoft group of companies. Mopria®, the Mopria® Logo, and the Mopria Alliance™ word mark and logo are registered and/or unregistered trademarks and service marks of Mopria Alliance, Inc. in the United States and other countries. Unauthorized use is strictly prohibited ⁴ Speed specifications have been updated to reflect current industry testing methods. ⁵ Either after first page or after first set of ISO test pages. For details see: <http://hp.com/go/printerclaims> ⁶ Average based on ISO/IEC 24711 or HP testing methodology and continuous printing. Actual yield varies considerably based on content of printed pages and other factors. For details see <http://hp.com/go/learnaboutsupplies> ⁷ Based on HP internal A4 Memo draft document methodology. For details see <https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA8-4168ENW> . ¹⁰ Program availability varies. For details, see <http://www.hp.com/recycle> . ¹¹ Post-consumer recycled is based on the definition set in the EPEAT standard for imaging equipment, IEEE 1680.2, and is expressed as percent of total weight of plastic.



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