Analyst report

HP PageWide Pro 452/552/477/577 series

Legal disclaimers

Best-in-class print speeds

Comparison based on manufacturers' published specifications of fastest available color mode of all color business printers $300–$800 USD or €300-€800 Euros and MFPs $400–$1,000 USD or €400-€800 Euros as of November 2015, excluding other HP PageWide products, and products with 1% or lower market share using market share as reported by IDC as of Q3 2015. HP PageWide speeds based on General Office mode and exclude first page.
Learn more at hp.com/go/printerspeeds.

Product	Print Speed
PageWide Pro 577dw	**70**
Xerox ColorQube 8580/N	51
Xerox ColorQube 8580/DN	51
Dell C3760n	36
Dell C3760dn	36
Xerox Phaser 6600/N	36
Xerox Phaser 6600/DN	36
Xerox WorkCentre 6605/N	36
Lexmark C748e	35
Lexmark C746n	35
Lexmark C746dn	35
Canon imageCLASS LBP7780Cdn	33
Samsung CLP-775ND	33
Brother HL-L8350CDW	32
Lexmark CS510de	32
Lexmark CS510dte	32
Lexmark CX410e MFP	32
Lexmark CX410de MFP	32
Lexmark CX410dte MFP	32
Lexmark CS410n	32
Lexmark CS410dn	32
Oki Data C531dn	31
Oki Data C331dn	31
Oki Data MC362w MFP	31

Product	Print Speed
Brother HL-L8250CDN	30
Brother MFC-L8600CDW	30
Brother MFC-L8850CDW	30
Dell C2660dn	28
Dell C2665dnf MFP	28
Ricoh Aficio SP C320DN	26
Lexmark CS310dn	25
Lexmark CX310dn MFP	25
Lexmark CX310n MFP	25
Ricoh SP C250DN	24
Ricoh SP C250SF	24
Xerox Phaser 6500/N	24
Xerox Phaser 6500/DN	24
Xerox WorkCentre 6505/N	24
Xerox WorkCentre 6505/DN	24
Brother MFC-9330CDW	23
Brother MFC-9340CDW	23
Canon imageCLASS MF9220Cdn	22
Canon imageCLASS LBP7660Cdn	21
Canon imageCLASS MF8580Cdw	21
Ricoh SP C252SF	21
Samsung Xpress C1860FW	19
Canon imageCLASS MF8280Cw	14

Lowest total cost of ownership (TCO) in its class

Total cost of ownership comparison based on 90,000 pages, manufacturers' published specifications for page yields and energy use, manufacturers' suggested retail prices for hardware and supplies, average street prices for competitive devices, cost per page based on ISO yield with continuous printing in default mode with highest-available-capacity cartridges, long-life consumables of all color business printers €300-€800 Euros or $300–$800 USD and MFPs €400-€1000 Euros or $400–$1,000 USD as of November 2015, excluding products with 1% or lower market share using market share as reported by IDC as of Q3 2015. Learn more at hp.com/go/pagewideclaims and hp.com/go/learnaboutsupplies.

Device	TCO
Average TCO based on Transactional Sale in North American region	
HP PageWide Pro 552 (Transactional Sale)	**$4,397**
Samsung CLP-775ND	$5,513
Lexmark C748e	$5,559
OJ Pro X 377dw	$5,578
Ricoh SP C252SF	$5,654
Ricoh Aficio SP C320DN	$5,673
Dell C3760n	$5,904
Dell C3760dn	$6,004
Brother HL-L8250CDN	$6,421
Brother HL-L8350CDW	$6,471
Canon imageCLASS MF9220Cdn	$6,563

Device	TCO
Lexmark C746n	$6,600
Brother MFC-L8600CDW	$6,601
Brother MFC-L8850CDW	$6,671
Lexmark C746dn	$6,780
Canon imageCLASS LBP7780Cdn	$7,112
Lexmark CS510de	$7,194
Xerox ColorQube 8580/N	$7,207
Xerox ColorQube 8580/DN	$7,307
Oki Data C531dn	$7,325
Lexmark CS510dte	$7,394
Dell C2660dn	$7,526
Dell C2665dnf MFP	$7,726
Lexmark CX410e MFP	$7,817
Lexmark CX410de MFP	$7,917
Oki Data C331dn	$8,081
Lexmark CX410dte MFP	$8,117
Oki Data MC362w MFP	$8,281
Ricoh SP C250DN	$8,709
Ricoh SP C250SF	$8,809
Xerox Phaser 6600/N	$8,855
Lexmark CS310dn	$8,904
Lexmark CS410n	$8,904
Lexmark CS410dn	$8,954
Xerox Phaser 6600/DN	$8,955
Brother MFC-9330CDW	$9,003
Brother MFC-9340CDW	$9,003
Lexmark CX310dn MFP	$9,014
Canon imageCLASS LBP7660Cdn	$9,033
Canon imageCLASS MF8580Cdw	$9,133
Lexmark CX310n MFP	$9,171
Xerox WorkCentre 6605/N	$9,205
Xerox Phaser 6500/N	$9,808
Xerox Phaser 6500/DN	$9,908
Xerox WorkCentre 6505/N	$10,058
Xerox WorkCentre 6505/DN	$10,158
Samsung Xpress C1860FW	$11,089
Canon imageCLASS MF8280Cw	$11,435
Average TCO based on Transactional sales in EMEA region	
Triptane 400 MFP	**€ 4,344.00**
CANON I-SENSYS MF8580CDW	€ 8,097.12
KYOCERA ECOSYS M6526CDN	€ 8,112.78
LEXMARK CX410DE	€ 8,264.86
OKI MC352DN	€ 9,003.69

Device	TCO
BROTHER DCP-L8400CDN	€ 9,220.32
OKI MC362DN	€ 9,520.06
OKI MC562DNW	€ 9,616.49
RICOH AFICIO SP C252SF	€ 9,825.70
SAMSUNG SL-C2670FW	€10,613.15
KYOCERA ECOSYS M6526CDN	€10,698.65
LEXMARK CX410DE	€10,875.72
XEROX WORKCENTRE 6505N	€12,848.27

Best-in-class security and management features (PageWide Pro 400/500)

Best-in-class security claim based on HP review of published embedded security features of competitive in-class pro printers as of Jan 2016. For more information visit: www.hp.com/go/printersecurityclaims.

Less energy use than in-class business printers

Energy claim based on TEC data reported on energystar.gov. Data normalized to determine energy efficiency of majority of in-class business printers $300-$800 USD or €300-€800 Euros and MFPs $400–$1,000 USD or €400-€1,000 Euros as of November 2015; market share as reported by IDC as of Q3 2015. Actual results may vary. Learn more at hp.com/go/pagewideclaims.

With the TEC measurement, it is difficult to compare the energy consumption of similar products that have differing speeds. As an example, a vendor may have an identical printer model where one is specified to operate at 25 ipm and the other at 28 ipm. As per the Energy Star® test method the faster printer will inherently have a higher TEC since it has to print more pages. In this example, the 25 ipm printer is based on printing 1,500 pages per week while the 28 ipm is 1,960 pages per week.

In the table below, TEC is normalized to show roughly the amount of energy used per page to better compare products with different speeds.

Product Comparison Table of Typical Electricity Consumption

Product	Normalized TEC (kilowatt hours per week)
HP PageWide Pro 552dw	**0.112**
Brother HL-L8350CDW	0.898
Brother MFC-L8850CDW	1.022
Brother MFC-9330CDW	1.976
Canon imageCLASS MF9220Cdn	1.736
Canon imageCLASS LBP7780Cdn	0.625
Canon imageCLASS MF8280Cw	0.816
Dell C3760n	1.000
Dell C2660dn	1.173
Lexmark C746n	1.151
Lexmark CS510dte	0.938
Lexmark CX410dte MFP	0.938
Lexmark CS310dn	1.133
Lexmark CS410dn	0.664
Lexmark CX310n MFP	1.133
Oki Data C531dn	0.946
Oki Data C331dn	0.688

Product Comparison Table of Typical Electricity Consumption

Product	Normalized TEC (kilowatt hours per week)
Oki Data MC362w MFP	0.774
Ricoh Aficio SP C320DN	1.302
Ricoh SP C250DN	1.042
Ricoh SP C250SF	0.972

ColorLok

Based on internal HP testing of Original HP PageWide cartridges on ColorLok® papers.

Durability

Water, smear, fade, and highlighter resistance based on ISO 11798 testing. For details, see hp.com/go/printpermanence.

Extra-high-yield (Y) cartridges

Yield based on ISO 24711 cartridge yields for HP 976Y Extra High Yield Original PageWide Cartridges, which are not included in printer purchase; purchase separately. Comparison based on ISO 24711 cartridge yields for HP 976Y Extra High Yield Original PageWide Cartridges compared with HP 970 series Original PageWide cartridges. Extra-high-yield cartridges are compatible only with HP PageWide Pro 500 series MFPs and printers. Learn more at hp.com/go/learnaboutsupplies.

High-yield cartridges (X) cartridges

HP 970X High Yield Original PageWide Cartridges are not included in printer purchase; purchase separately. Comparison based on ISO 24711 cartridge yields for HP 970 series High Yield Original PageWide Cartridges compared with HP 970 series Original PageWide Cartridges. High-yield cartridges are compatible only with HP PageWide Pro 400 and 500 series MFPs and printers. Learn more at hp.com/go/learnaboutsupplies.

Less scheduled maintenance/fewer replacement parts vs. lasers

Less scheduled maintenance based on 150,000 pages printed, and published comparisons of majority of in-class color laser printers $300–$800 USD or €300-€800 Euros and MFPs $400–$1,000 USD or €400-€1,000 Euros as of November 2015; market share as reported by IDC as of Q3 2015. Learn more at hp.com/go/pagewideclaims.

Long-life consumables that may be required

Model Name	Long-life consumables
HP PageWide Pro 552dw	Ink Collection for PageWide devices: 1 unit
Types of long-life consumables required by most laser-class devices. Quantities/types vary by brand and model:	• Toner collection unit • Fuser maintenance kits • Drum units • Transfer maintenance kits • Waste container • Transfer belt unit • Transfer roller • Cleaning units • Fuser • Developer

Scan-to functions

Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see hpconnected.com.

Best-in-class FPOT

Comparison based on manufacturers' published specifications of first page out from ready and sleep mode of all color business printers $300–$800 USD or €300-€800 Euros and MFPs $400–$1,000 USD or €400-€1,000 as of November 2015, excluding other HP PageWide products, and products with 1% or lower market share using market share as reported by IDC as of Q3 2015. Subject to device settings. Actual results may vary. Learn more at hp.com/go/printerspeeds.

Product	FPOT
HP PageWide Pro 577dw	**6**
Brother HL-L8250CDN	15
Brother MFC-L8850CDW	15
Brother MFC-9340CDW	16
Canon imageCLASS MF9220Cdn	12.5
Canon imageCLASS LBP7780Cdn	10.5
Canon imageCLASS MF8580Cdw	15
Dell C3760n	13.5
Dell C2665dnf MFP	14
Lexmark C746dn	9
Lexmark CS310dn	10
Lexmark CX310n MFP	10
Oki Data C331dn	7.5
Oki Data MC362w MFP	7.5
Ricoh SP C252SF	14
Ricoh Aficio SP C320DN	13.5
Ricoh SP C250DN	14
Samsung CLP-775ND	10
Samsung Xpress C1860FW	16
Xerox Phaser 6600/DN	9
Xerox WorkCentre 6605/N	9

Wi-Fi Direct printing

Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®. For details, see hp.com/go/mobileprinting.

NFC touch-to-print

Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see hp.com/go/nfcprinting.

Print Microsoft® Word and PowerPoint files from USB

Feature works with Microsoft® Word and PowerPoint® 2003 and later. Only Latin language fonts are supported.

Easy printing from a variety of mobile devices (embedded print compatibility)

Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at hp.com/go/mobileprinting.HP Color Access Control

HP Color Access Control available only on HP PageWide Pro devices with a 4.3-inch touchscreen. Learn more at hp.com/go/pagewidebusiness.

HP Web Jetadmin

HP Web Jetadmin is free and available for download at hp.com/go/webjetadmin.

HP JetAdvantage On Demand

HP JetAdvantage On Demand is a web-based application that requires Internet access. Supported browsers include Microsoft® Internet Explorer® 9-11, Google Chrome® 9 and newer, Mozilla® Firefox® 4 and newer, and Safari® 5 and newer. Compatible with select HP LaserJet, Officejet Pro, and Digital Sender Flow devices that can connect to the Internet. May require a firmware upgrade. For more information, see hpjetadvantage.com.

JetAdvantage Security Manager

Based on HP internal research on competitor offerings (Device Security Comparison January 2015), and Solutions Report on HP JetAdvantage Security Manager 2.1 from Buyers Laboratory LLC, February 2015. Requires separate purchase. For details, see hp.com/go/securitymanager.

Sign up for updates
hp.com/go/getupdated

Share with colleagues

Rate this document

© Copyright 2016 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.

4AA6-4621ENW, March 2016