

HP Color LaserJet 3600n vs. top competitors



Devices competing with HP Color LaserJet printers have serious shortcomings.

Competitor	Key Weaknesses	Specifics
Brother HL-4040CN	Starter cartridges, more consumables, slow warm-up from Powersave	<ul style="list-style-type: none"> The Brother ships with only 1,500 page worth of CMY toner and only 2,500 pages worth of black toner, while HP includes 4,000 CMY pages and 6,000 black pages worth an extra \$309, based on the price of the Brother high-capacity toner. The Brother takes 40 seconds to warm-up and print from Powersave vs. 15.5 for HP. This means the HP can print approximately 7 pages before the Brother completes printing its first page. Additional parts to replace beyond toner – waste toner unit every 5,000 color pages, imaging unit every 17,000 pages, and transfer kit every 50,000 pages, vs. 0 additional parts beyond toner for HP. The Brother image drum unit uses 4 corona wires, which require periodic cleaning to prevent damage.
Dell 3110cn	Slow warm-up and printing at half-speed in Best PQ mode	<ul style="list-style-type: none"> The Dell 3110 takes 35 seconds to warm up and print from Powersave vs 15.5 for HP. In Best PQ mode, Dell takes almost twice as long as HP to print a suite of 21 files – 26.1 min. vs. 14.8. The Dell requires manual color plane registration while HP includes automatic registration. For 2-sided printing the Dell requires a duplex accessory which may add to the size of the printer.
Konica - Minolta MagiColor 5430DL	Very unusual and large toner cartridge design will require lots of supplies storage space, plus imaging at the bottom of the printer requires cleaning.	<ul style="list-style-type: none"> The Konica - Minolta toner cartridge design is very large and awkward and takes 3 times the storage space compared to HP's toner cartridges. The Konica - Minolta waste toner kit must be replaced every 8,000 color pages. FPO from Powersave is 40 sec. vs. only 15.5 sec for the HP Color LaserJet 3600 The Konica - Minolta unit ships with 3,000 mono & color-pages compared to HP 6,000-page mono & 4,000-page color for HP (a value of \$158 of extra toner using standard cartridges). The KM5430DL requires periodic lens cleaning to maintain acceptable print quality.
Lexmark C532n	Many consumables to replace and manual color plane registration alignment	<ul style="list-style-type: none"> Lots of parts to replace beyond toner – 4 drums every 20,000 color pages which require a tedious manual alignment process, and a toner waste every 30,000 pages – 23 additional parts beyond toner in the first 100,000 pages vs. 0 for HP. The Lexmark C532n takes 70 seconds to warm-up and print from Powersave, vs. 15.5 for HP (expected). HP ships toner for 4,000 CMY and 6,000 black pages, while Lexmark includes toner for only 3000 CMY pages and 4000 K pages – an extra value worth \$145, using Lexmark high-capacity return prices.
Oki C5500n (US)/C5600n (EU)/C5800n (EU)	LED cleaning and PQ problems. Lots of parts to replace and less toner shipped with the printer.	<ul style="list-style-type: none"> The OKI 5500n ships with toner for 1500 pages, and the OKI 5600n and 5800n ship with toner for 2,250 pages compared to HP 6,000 mono pages & 4,000 color pages – an extra \$345 or €158 value. Serious print-quality issues – worst-in-class color mapping, streaking and misregistration. The OKI C5500 prints it's first page from Powersave in about 43 seconds vs. 15.5 for HP, which means the HP can print approximately 7 pages before the OKI completes printing its first page. Complex user interaction – 10 consumables vs. only 4 for HP, lens cleaning, and clearing paper jams on the OKI often requires removal of consumables.
Samsung CLP-600n	1 st generation in-line engine with problems	<ul style="list-style-type: none"> The Samsung CLP-600n requires more space and is heavier than HP's Color LaserJet 3600. The Samsung CLP-600n does not support automatic duplex printing and there is no DN model. Samsung ships with only 2,000 page worth of toner, while HP includes 4,000 CMY pages and 6,000 black pages worth an extra \$278, based on the price of Samsung toner. HP warms up and prints from Powersave in 15.5 seconds compared to 57 for the CLP-600, and from default mode HP printed 17 out of 20 files faster than Samsung. Samsung users must replace a transfer kit every 35,000 pages and the fuser at 50,000 pages.

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	HP	Brother	Dell	K-Minolta	Lexmark	OKI	Samsung
						C5500n (US) / C5600n (EU)/ C5800n (EU)	
Specifications	Color LaserJet 3600n	HL-4040CN	3110cn	MagiColor 5430DL	C532n		CLP-600n
Engine	Canon	Brother	Fuji-Xerox	Konica – Minolta	Lexmark	Okidata	Samsung
Technology	In-line Laser	In-line laser	In-line laser	In-line Laser	In-line Laser	In-line LED	In-line laser
Print speed – color (letter/A4)	17 ppm / 17 ppm	21 ppm/ 20 ppm	17 ppm/ 17 ppm	21 ppm / 20 ppm	22 ppm / 21 A4	5500n: 20 ppm / 20 ppm	21 ppm / 20 ppm
Print speed – black (letter/A4)	17 ppm / 17 ppm	21 ppm/ 20 ppm	31 ppm/ 30 ppm	21 ppm / 20 ppm	24 ppm / 23 A4	5600n: 20 ppm / 32 ppm 5800n: 26 ppm / 32 ppm	21 ppm / 20 ppm
Resolution – best print quality	ImageREt 3600 600 x 600	600 x 600 (mono) 2400 x 600 (color)	600 x 600 2400 IQ	2400 x 600	1200 x 1200	1200 x 600	2400 x 600 effective
Monthly duty cycle (up to)	50,000 pages	35,000	60,000 pages	60,000 pages	75,000	60,000 pages	45,000 pages
Memory – standard	64 MB	64 MB	128 MB	64 MB	128 MB	64 MB	32 MB
Memory – maximum	64 MB	576 MB	1152 MB	576 MB	640 MB	320	32 MB
Processor	360 MHz	300 MHz	400 MHz	200 MHz	375 MHz	200MHz	250 MHz
Automatic duplexing	Duplex in D bundles	With HL-4070CDW model	Optional duplex	Optional external unit	In D bundle	optional	No
PDLs	Host-based	PCL 6	Postscript 3, PCL 6	Host-based	PCL, PostScript	Host-based	Host-based
Connectivity	USB 2.0, 10/100	USB 2.0, parallel 10/100, pictbridge	USB 2.0, parallel 10/100	USB 2.0 Standard 10/100	USB 2.0 Standard 10/100	USB 2.0 Standard 10/100	USB 2.0, 10/100
Warranty	1 year on site	1 year exchange	1 year	1 year exchange	1 year on site	1 year limited	Not specified
U.S. street price	\$599	\$399	\$549	\$599	\$499	\$599 for 5500n	\$499
EMEA street price	€ 495	TBD	€ 551	€ 599	€ 461	€ 540 for 5600n € 660 for 5800n	€ 534
U.S. cost per page – color	11.5	13.6 hi cap 18.3 std	9.4 hi cap 10.5 std	10.9 value pack 12.3 std	11.7 – 9.6	12.0 hi cap 15.6 std	11.6
U.S. cost per page – black	2.2	3.4 hi cap 4.0 std	1.4 hi cap 1.5 std	2.1 std	2.0	2.1 hi-cap 2.9 std	2.6
Euro cost per page – color	12.4	TBD	7.2 hi cap 8.0 std	12	11.7 – 9.6	5600n: 15.7 5800n: 12.3	10
Euro cost per page – black	2.3	TBD	1.2 hi cap 1.3 std	1.9	2.0	5600n: 2.9 5800n: 2.1	2.2
Number of consumables	4	7	4	7	11	10	6
Consumables yield – color (in pages)	4,000	1,500 or 4,000	4,000 or 8,000	6,000	3,000 or 5,000	5500n: 2,000 or 5,000 5600n: 2,000 5800n: 5,000	4,000
Consumables yield – black (in pages)	6,000	2,500 or 5,000	5,000 or 8,000	6,000	4,000	5500n: 2,000 or 5,000 5600n: 6,000 5800n: 6,000	4,000
Toner in the box	4,000 CMY 6,000 K	1,500 CMY 2,500 K	4,000 CMY 5,000 K	3,000 CMYK	3,000 CMY 4,000 K	5500N: 1500 CMYK 5600n/5800n: 2250 CMYK	2,000 CMYK
Imaging unit yield	N/A	17,000	N/A	N/A	20,000 color pages	20,000	N/A
Transfer kit	Lifetime	50,000	Lifetime	120,000	120,000 pages	60,000	35,000
Fuser yield	Lifetime	Lifetime	Lifetime	N/A	120,000 pages	60,000	50,000
Other kit	N/A	N/A	N/A	Transfer Roller @ 120,000	N/A	N/A	N/A
Toner waste	N/A	5,000 color 20,000 mono	N/A	8,000 color 32,000 - mono	7,500 color 30,000 mono	N/A	N/A
FPO from Powersave	15.5	40	35	40	70	43	57

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