

300.000 page long-term test by Druckerchannel.de Kyocera outpaces the competition

The experts of the test magazine Druckerchannel.de examined four 32-43 ppm laser printers for a six month period printing 1.2 million sheets of paper. Outstanding test winner was the Kyocera FS-3830N. The monochrome ECOLaser printer demonstrated high quality, easy handling and lowest total costs.



The giants in test were beaten by the smallest and most compact printer!

Druckerchannel.de tested the laser printers from October 2004 to March 2005 for performance, quality, ergonomics and economy. The Kyocera FS-3830N had to compete with the Lexmark T630, the Ricoh Aficio AP600N and the HP LaserJet 4250.

Conditions

Each system had to print at least 300,000 pages of the new test document according to

ISO 19752; approximately 60,000 pages per month, 2,000 pages per day or 83 pages per hour. The test lab ensured that printing did not exceed the monthly volume recommended by the manufacturer. The print quality was checked at regular intervals during the total test period. Druckerchannel.de also recorded all the necessary action during printing, e.g. toner replacement, drum unit replace-

ment, cleaning cycles, replacement of worn accessories (fuser, paper pickup rollers, etc.), or simply the removal of a paper jam. ■



Kyocera FS-3830N

Total costs* 3,226 €
Costs per page 1.08 ct



HP LaserJet 4250

Total costs* 4,339 €
Costs per page 1.45 ct



Ricoh AP600N

Total costs* 5,681 €
Costs per page 1.90 ct



Lexmark T630

Total costs* 6,489 €
Costs per page 2.16 ct

* Total costs after 300,000 pages incl. costs of purchase, toner and maintenance-kit

“Economical and fast”

The FS-3830N also won the test in 9/04 edition of the German computer magazine PC professional. The “SEHR GUT” rating put the printer at the top of the magazine’s Top-Ten list. The experts’ opinion on the ECOLaser printer: “very high print rate, sumptuous equipment and very low printing costs.”



The challenge:

300,000 pages

Six months of continuous operation, 24 hour a day

The competitors

Four b/w laser printers with an output of 32-44 ppm/A4

The jury

The experts of the technical magazine Druckerchannel.de

Modus operandi

Test laboratory, test document according to ISO 19752

The winner

Kyocera FS-3830N

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Results in detail



Overview	HP LaserJet 4250	Kyocera FS-3830N	Lexmark T630	Ricoh AP600N
Speed (according to manufacturer)	43/44 ppm	33/35 ppm	33/33 ppm	32/33 ppm
Resolution in dpi	1,200 x 1,200	1,200 x 1,200	1,200 x 1,200	1,200 x 1,200
Costs per text page (ISO 10561; 3,2%)	0.9 ct	0.4 ct	1.1 ct	0.9 ct
Time to first page	8 sec.	9 sec.	9 sec.	7 sec.
Max. paperweight	200g/m ²	200g/m²	216g/m ²	162g/m ²
Memory (max.)	48 MByte (512 MByte)	96 MByte (576 MByte)	32 MByte (288 MByte)	64 MByte (320 MByte)

Conclusion by Druckerchannel.de

The FS-3830N mastered the high print volume without fault or major interventions. Easy printer cleaning and toner changing, little paper dust and excellent print

quality provided convincing results. Paper handling is simple, the machine works reliably and has a robust design. The experts did not identify any wear inside.

The print quality remained constant even after 300,000 pages, and the actually incurred printing costs of 1.08 cent per page are the lowest in the test. ■

Extremely economical and environment-friendly owing to the ECOSYS technology

With ECOSYS Kyocera has developed a technological concept that is just as economical as it is environment-friendly. Compared with conventional systems ECOSYS products have an up to 30 times longer life cycle owing to extremely durable components like printer drums manufactured from amorphous silicon. The ECOSYS concept does not only ensure low printing costs, it also produces up to 75 % less waste. As only the toner has to be refilled, it is not necessary an exchange the entire cartridge.

Toner cartridge consumption and quantities of waste produced during the test

Kyocera FS-3830N	HP LaserJet 4520	Lexmark T630	Ricoh AP600N
14 toner kits	15 cartridges	16 cartridges	16 cartridges

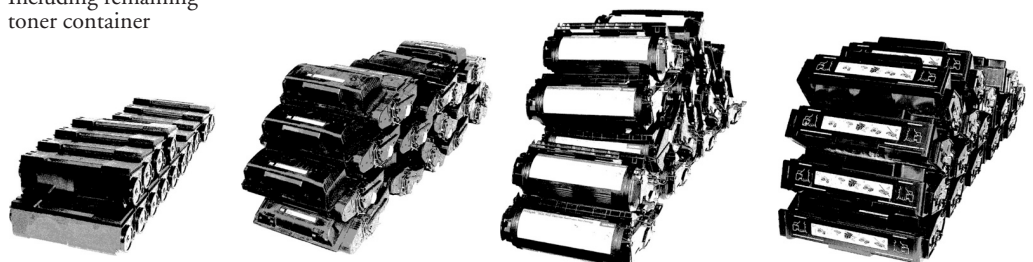
4.0 kg waste

20.2 kg waste

32.0 kg waste

38.4 kg waste

Including remaining toner container



Source: Druckerchannel.de