

STMC Test Results for PretonSaver

STMC stands for the Standardized Test Methods Committee. This global committee formed to find and promote standardized test methods for the printer cartridge industry. The test methods are used to evaluate toner printer cartridge performance.

LaserPrint Ltd. is an approved STMC company, qualified to perform STMC testing.

Test objectives

The test was conducted for Preton Ltd, to evaluate the company's product PretonSaver.

The test objectives were s to examine print quality of the PretonSaver and to estimate an average yield of toner cartridge printed with the product, using STMC measurements and methods.

Test description

Two sets of 1000 pages were printed in our laboratory under controlled environment. One set printed using PretonSaver and one set printed without this software. Before and after each set the toner hopper was weighed, and reflection density for printed areas and background were taken, to evaluate print quality.

Date of test: 17.07.05

Printer: HP (Hewlett-Packard)

Model: 4250

Serial: CNCXD18262

Toner: HP4200-ONYX

Drum: OSR42KDRGR

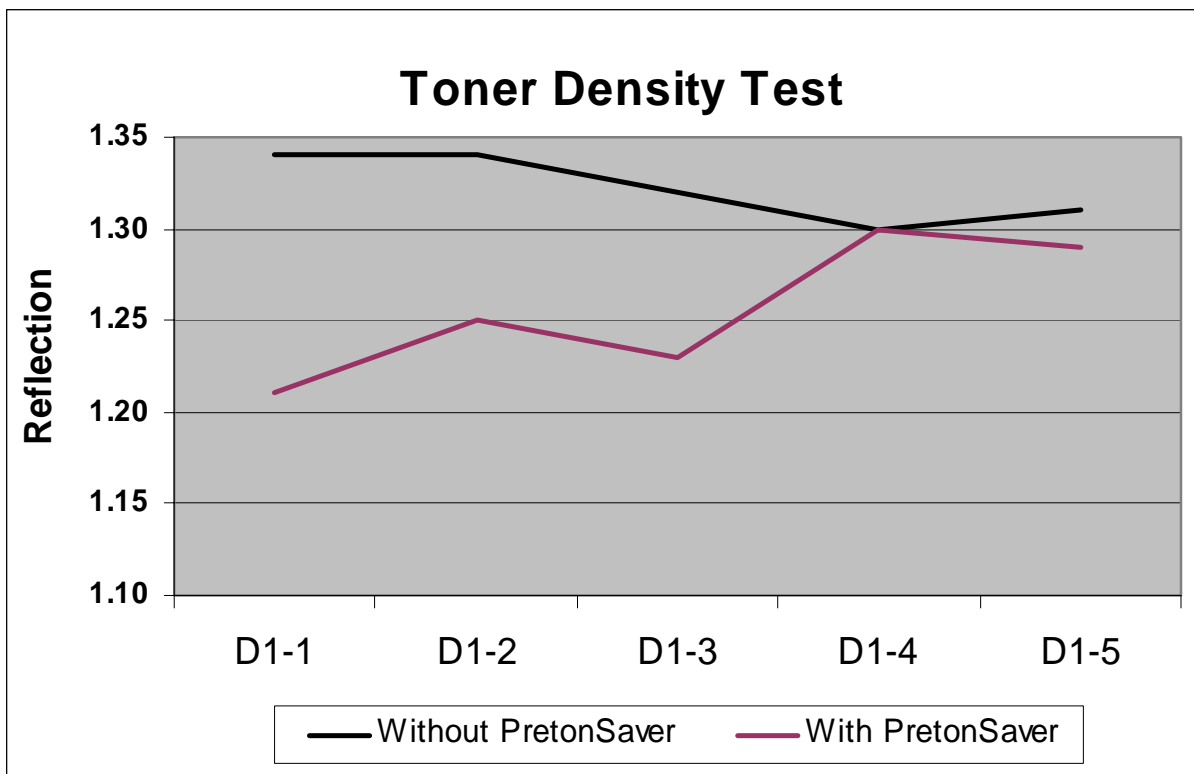
Laboratory Temperature: 26 degrees

Humidity: 65%

Findings:

1. Reflection Density (darkness of printed areas and background)

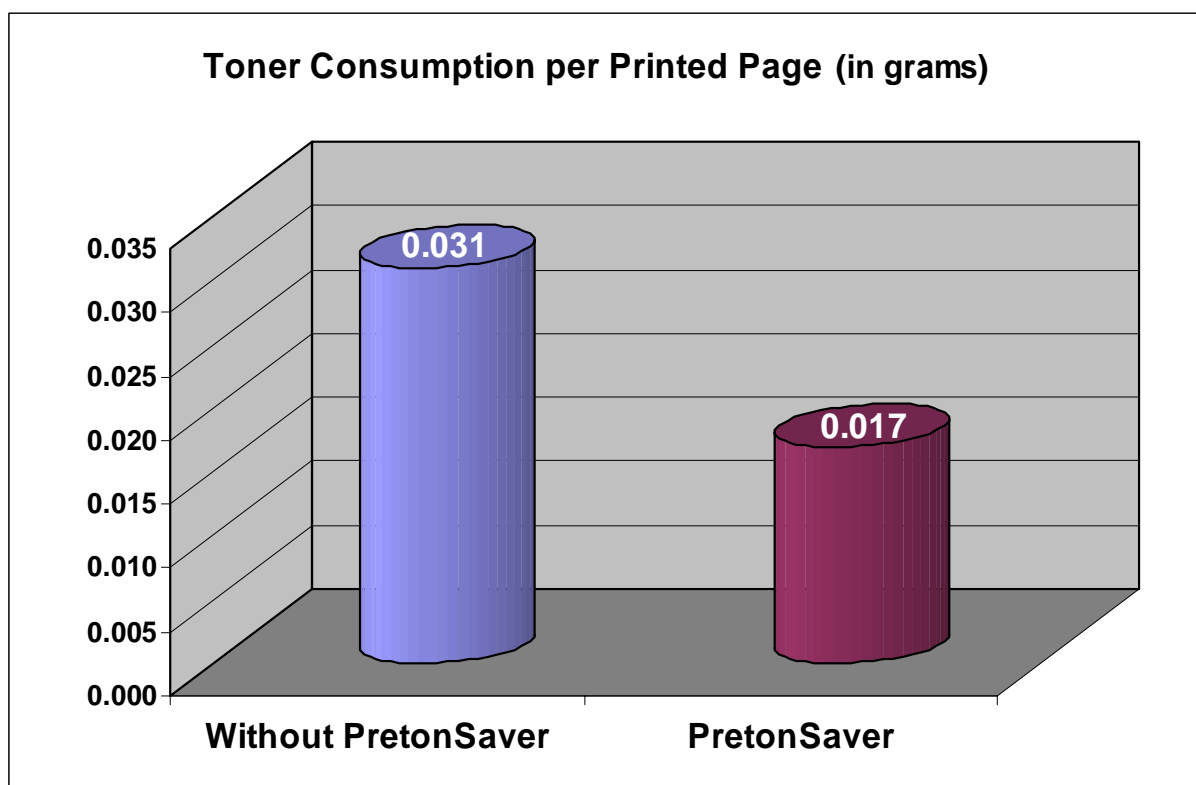
	Area	Density HP4250 (in D.U.)	Density HP4250 (in D.U.) using PretonSaver
Density Test	D1-1	1.34	1.21
	D1-2	1.34	1.25
	D1-3	1.32	1.23
	D1-4	1.3	1.3
	D1-5	1.31	1.29
Background Test	B1-1	0.090	0.085
	B1-2	0.080	0.090
	B1-3	0.090	0.100
	B1-4	0.090	0.085



Please note: Density Unity range from 0-2.00. Values over 1.10 represent solid black; values under .010 represent pure white.

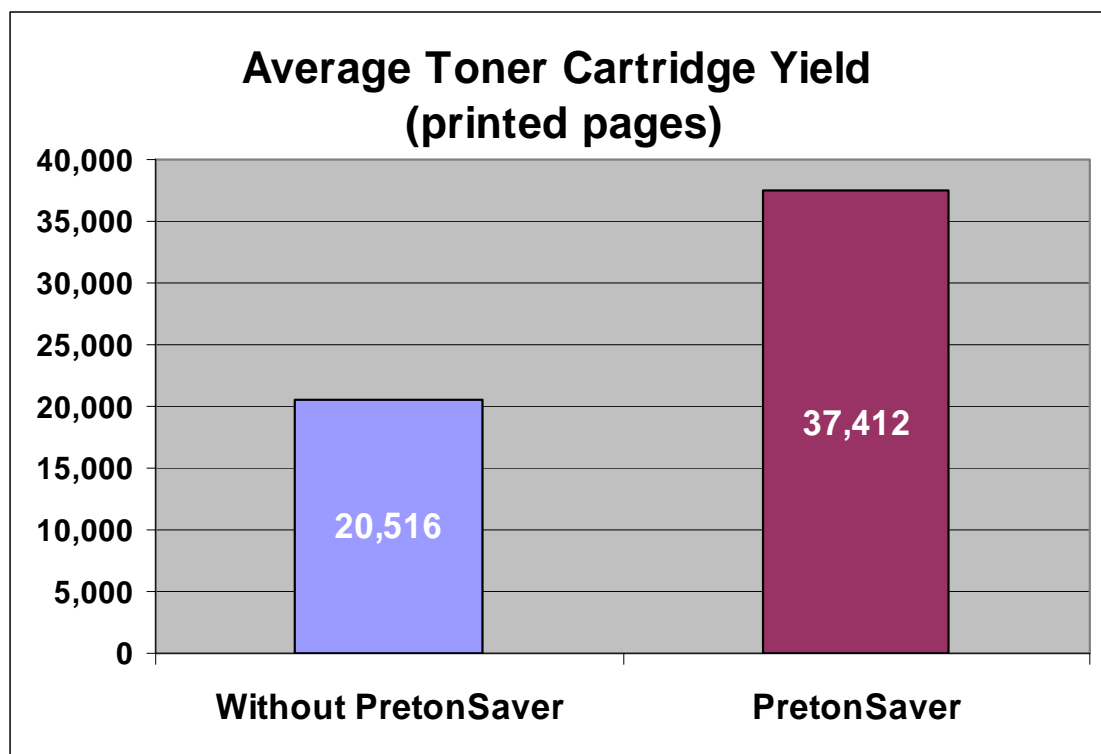
2. Toner Consumption per Page

	HP4250 (in grams)	HP4250 using PretonSaver (in grams)
Weight of hopper at the beginning of run	1936.0	1905.0
Weight of hopper at the end of run	1905.0	1888.0
Consumption in grams	31.00	17.00
Consumption per Page in grams	0.0310	0.0170
Problems during run		
Paper Jams	None	None
Other	None	None



3. Average Toner Yield (5% page coverage)

<u>Yield & Density – Result</u>	HP4250	HP4250 with PretonSaver
Average toner consumption per 1,000 pages (g/1000p)	31.00	17.00
Average toner consumption per page (g/page)	0.031	0.017
With a toner weight of	636.00	636.00
Projected Yield (5% coverage)	20,512	37,411
Maximum Density	1.34	1.30
Average Density	1.322	1.256
Maximum Background	0.090	0.100
Average Background	0.0875	0.090



Conclusion

Our findings clearly indicated that PretonSaver is not materially degrading print quality. It is clear that levels of reflection density remained high, and levels of background remained low, throughout the test.

Further, the consumption levels of toner per page indicate a significant reduction in toner consumption. It seems that a printer using PretonSaver can increase cartridge yield by approximately 85%.



Yuval Nitzan
LaserPrint Ltd.