

Size does matter



On the edge of the century we witnessed big and box shaped color laser beam printers. Today we can afford good and reliable color laser printer for only fraction of the cost. This words would be short summary of the samsung's promotion of their new model CLP-300. Additional N with model name delares that printer is network capable. In this short review i will try to shed some light on details of the machine. Some information will be interesting for cartridge remanufacturing community, but most of infos is intended for soho users that don't get much unbiased

information when it comes to selection of new printer.

The main reason why i decided to write a review for this printer is because i think it will revolutionize the way normal users look at laser printing technology. All this research was done on my own time and with my own funds. So you can be sure that informations presented here are not censored nor presented for anyones benefit.

My first impression was great. I putted printer on the table. Oh my god. I wish all printers took so little space. Really little more then A4 sheet. And the silence. I was used of noise with samsung printers. I'm the owner of all samsung printer that ever came to market. And belive me when i say – the diference is obvious. Prvi vtis je perfekten. Malček je tih. Prede kot miška.

As an remanufacturer i was interested in internal structure and principle of operation. In principle it isn't much different then other CLP models. But real difference is the size and silence. I was also very satisfied with paper path. I made many tests with prevous CLP models. And i was dissappointed with paper feeding and paper path and also settings for different paper types. But new tiny member of CLP family done good job with special materials. I tested material R0119 – glossy adhesive label - for long run 150 pcs without pause. And no jam or any other error. Also fusing was okey because this material was thicker the driver slowed passing through fuser unit.

Next test for material handling i made with Color Copy paper 250g thick. It can be problematic for lasers to use so heavy paper, specially if machine has only 1 drum. But i was surprised. It grabbed paper from tray without any problems or my intervention. Only when i tried to reinsert same sheet to print also back it stuck. But after little help with grabbing it printer both sides. And what was the best part – it didn't leave any gray shadow on background. Really nice job for so cheap machine i must admit.

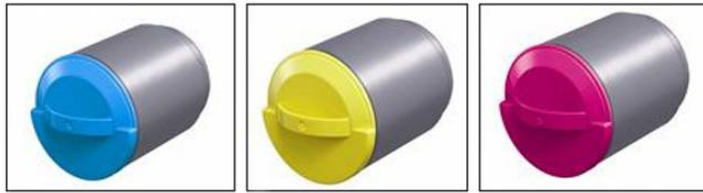
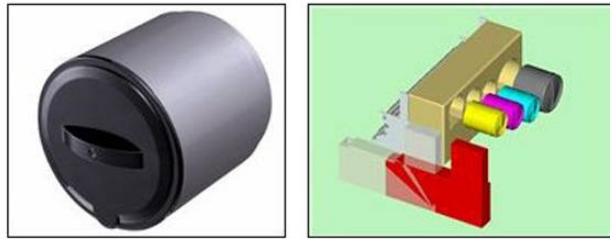
I must pay some attention to nicely made control panel. It can



be quite helpfull since machine it self doesn't have monitor. And the only identification of error is with help of this program. With N version is little harder to identify error if computer with



control panel is not anywhere near printer. The control panel also helps user solve minor problems like paper jams and toner replacement...The flaw that really pissed me off is this – during testing I wanted to make paper jam on purpose. And even if paper doesn't feed the printer want's that user takes out imaging unit before it's willing to continue printing from the jam.



Interesting thing about this machine is that it uses similar oval shaped toners as professional machines like Epson C8600, Xerox DC 220 and many others.

Toners are small to handle, no vital components to damage while handling or bringing to refill shop.

Toner change is very simple indeed. Here i agree with samsung

commercial – »easy toner change«. Simply can't get it wrong. As we are used till now there is chip on the toner cartridges. Really sweet thing. For change this toner can't be resetted when toner end is reached. So one solution is to reset it while it's only low, or to replace chip with our emulator. It comes at only fractin of the cost and you can reset it more then 100000 times using our resetter for samsung chips. While testing it happend to me that cyan toner went to end of life. I did everything to reset it but unfortunately impossible. While i exhausted all resources at my disposal i decided that it might be easier to just write emulator chip. I planed to use same PCB from OEM chip. Only replace the MCU. Research took me approx 14 days until finally testes were okey. The chip had to ignore locking command but still show to printer as it is locked. So now everyone that has small skills with soldering and desoldering can replace MCU on the board. It can be done as soon as 1 minute. This must be done only one time. After that it can be resetted as stated above.



And last thing that went on my nerves was the waste toner box. They come at a 10\$ per pcs price. Little too expensive for me. Fortunately we have cleaning chamber for cleaning toner cartridges. Printer want's to have clean mirror inside waste toner box to function.

So for conclusion all of you who are thinking about color laser but don't have money or space for big machines think about this tiny. It's quiet, cheap, reliable and best of all – cartridges are easy to refill and with my chip. Toner is readily available and cheap. And in comparison there is great difference between inkjet desktop printer and laser. From my expiriances problem with non regular usage of inkjets can lead to clogged print head. But with laser this will not happen. No need to use special paper to get waterproof prints and no worries for regular usage. You use it when you need it. My bosses is very satisfied with it. That makes me happy too ;-).

Recently some new machine came to market with same engine only different brand name. It's called Xerox Phaser 6110. I can say with great confidence that quality of machine is probably the same. Maybe Xerox has even higher quality control checks then Samsung :-). They claim in box you will get also media test pack. Samsung doesn't have it ;-).

Written on 24.3.07 in Šmarje-Sap by Andrej Janežič