Page Counts and Toner Usage.

**Information Level: 4**
(2 = Semi-confidential, Konica Minolta, internal use only, 3 = Service Partners/Distributors/First Line usage only. 4 = General Information, may be send to end-users.)

**Page Counts:**

For every Konica Minolta printer, you are able to read the page count of the printer. This can either be done through a status monitor, through a configuration page or the statistics page. The available options differ per printer model.

For Konica Minolta Color Printers, there are always 3 page counts listed.

1. **Total Page Count.**
2. **Color Page Count.**
3. **B/W (monochrome) Page Count.**

![Total Page Count: 427
Color Page Count: 339
B/W (Monochrome) Page Count: 88](image)

**B/W (monochrome) Page Count.**

The monochrome page count ONLY counts the number of pages that were really black and white only. For some printers it is necessary to change the driver to monochrome and some other printer models automatically detect black and white only print outs.

As soon as there is a little color (logo for example) included on the page, the output will be a color output and not monochrome unless the driver is set to monochrome printing.

**Color Page Count.**

The color page count, counts all pages that contain any color or pages that are black and white but the driver is not changed to monochrome printing. The color page count will count for the usage of ALL colors, cyan, magenta, yellow and black.

**Total Page Count.**

The total page count reflects the number of B/W (monochrome) page count + Color Page Count.
Normalized Page Count.

Some of the Konica Minolta Printers also have a normalized page count on their statistics or configuration page. The normalized page count recalculates all paper sizes printed back to LETTER sized paper.

Example:

<table>
<thead>
<tr>
<th>Total Counts:</th>
<th>Sheets Printed by Paper Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monochrome:</td>
<td>201</td>
</tr>
<tr>
<td>Color:</td>
<td>6092</td>
</tr>
<tr>
<td>Total:</td>
<td>6293</td>
</tr>
</tbody>
</table>

| Total Normalized Counts:       |
| Monochrome:         | 100                           |
| Color:              | 7809                          |
| Total:              | 7909                          |

The total counts reflect the number of monochrome and color pages printed in all sizes.

The normalized counts reflect the number of monochrome and color pages printed in letter sized paper. There are 201 pages, all sizes, printed and this is, calculated back to letter sized paper, 100 sheets. This means that the paper size printed is A5 or smaller.

A4 (210*297 mm) sized paper is 3.38% larger than letter (216*279 mm) sized paper.
A3 (297*420 mm) sized paper is 51.69% larger than letter (216*279 mm) sized paper.
Oversized (311*457 mm) sized paper is 57.6% larger than letter (216*279 mm) sized paper.

Toner Cartridge / Consumable Specifications.

All consumables have specifications in with the maximum life times of all consumables are defined. In the user manual you can find the exact specifications for each consumable in your printer. The specifications are always based on A4/letter sized paper and 5% coverage.

Example:

<table>
<thead>
<tr>
<th>Item</th>
<th>Average Life Expectancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toner cartridge</td>
<td></td>
</tr>
</tbody>
</table>

At 5% coverage

**Standard in-box Cartridge =**
1,500 pages (Y, M, C, K)

**Replacement Cartridge =**
Standard-capacity: 1,500 pages (Y, M, C)
High-capacity: 4,500 pages (Y, M, C, K)
Coverage.

Coverage means the % of toner being used on one page. A page with 5% coverage is filled for 5% with toner and 95% of the page is empty (no toner).

5% coverage sample / 95% of the page is empty.

The coverage and output resolution are also directly linked to each other. When a page is printed at 600 dpi (dots per inch = 2.51 cm), the amount of toner on a square inch will be less than when printing the same page at 2400 dpi. At 600 dpi, 600 dots are placed on a square inch while at 2400 dpi, 2400 dots are placed on the same square inch.

Coverage versus Consumable Life Time.

Konica Minolta defines that a given cartridge will print "X" pages at "Y" percent coverage; the average page of text has 5% of the paper covered with toner.

This means that if each page that is being printed contains 5% black toner, 5% yellow toner, 5% magenta toner and 5% cyan toner, the toner cartridges will reach the life time defined.

5% coverage page. Approximately 80% coverage for Cyan.
If the amount of toner on a page gets higher, the life time of a toner cartridge will decrease accordingly.

Example: Toner cartridge has a maximum life time of 4,500 pages at 5% coverage.

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Maximum Life Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>4,500 pages</td>
</tr>
<tr>
<td>10%</td>
<td>2,250 pages</td>
</tr>
<tr>
<td>15%</td>
<td>1,500 pages</td>
</tr>
<tr>
<td>20%</td>
<td>1,125 pages</td>
</tr>
<tr>
<td>25%</td>
<td>900 pages</td>
</tr>
</tbody>
</table>

If there is more toner being used on a page, the maximum life time will go down as well. In a toner cartridge is a fixed amount of toner available and the toner can be used to print 4,500 pages when there is, in average, 5% of toner on a page or you can print 1,125 pages maximum if every page is filled, in average, for 20% with toner.

**Note:** A color printer only has 4 color toner cartridges, Cyan, Magenta, Yellow and Black. With these 4 colors we create the colors on your print out.

This means that parts of your image might look Cyan but there might be a little magenta being mixed to retrieve a better/darker blue output.

When mixing Cyan, Magenta and Yellow, you will, theoretically, get a black color. Because of the way the toners are developed, you will get a brownish color instead of black. For this reason printer manufacturers have add black as a color as well to make sure that black text/fills are real black and not composite (mixed) black.