



HP PageWide C500 Press

## Ink Estimator Lite User Guide

Revision C  
April 2019

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## Revision History

Revision	Release Date	Description
C	April 2019	Revised the Settings section. Added semi-automatic workflow.
B	August 2018	Added section for <a href="#">Settings</a> tab.
A	May 2018	Initial release



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# 1 Introduction

The HP PageWide C500 Ink Estimator Lite is an Excel-based tool designed to create ink consumption and cost predictions for jobs that are planned to be printed by the C500 press.

The input used by the tool is a ready-to-print PDF file. The outputs produced by the tool include:

- Ink consumption in ml
- Cost per copy
- Cost per area (sqm)

This tool can be used on any computer that has access to HP Production Prime for PageWide C500 (the C500 DFE).

## 1.1 Installation

Copy the following files to C:\Temp:

- DFE\_Proxy.exe
- Newtonsoft\_json.dll

## 1.2 Structure

The Ink Estimator Lite Excel file contains 3 sheets:

### 1.2.1 Dashboard

The user inserts the inputs on this sheet and gets the results.

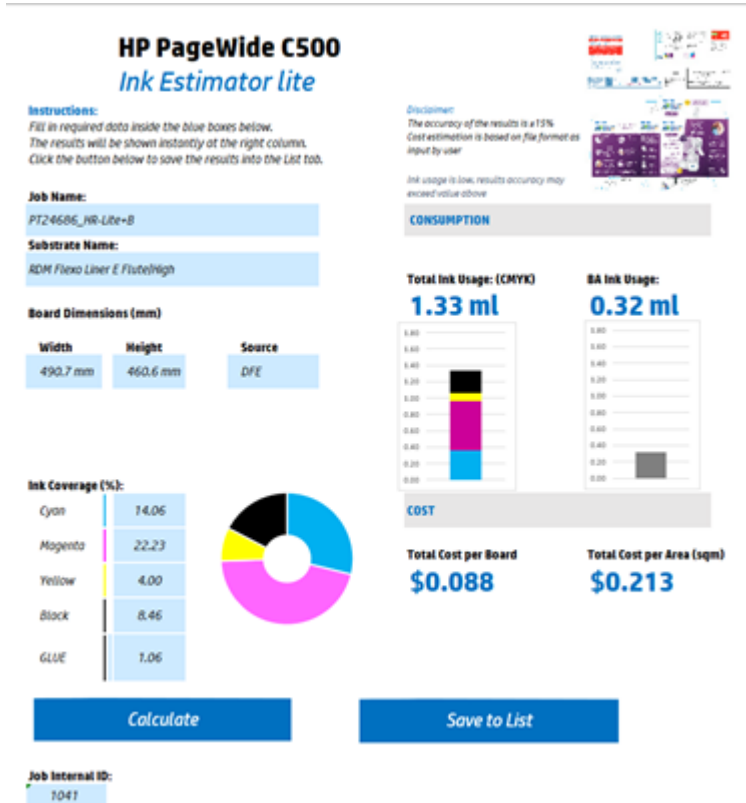


Figure 1. Ink Estimator Light - Dashboard Tab

## 1.2.2 List

The user can save an accumulated list of the estimations that were performed on the List sheet.

Input				Estimated cost				Estimated consumption				Estimated & ink coverage				Source information						
Job Name	Substrate Name	Board Width	Board Height	Cyan%	Magenta%	Yellow%	Black%	Blue%	Total Coverage%	Cost per Board (\$)	Cost per Area (cost)	Ink Usage (ml)	BA Usage (ml)	Cyan%	Magenta%	Yellow%	Black%	BA%	Total Ink (CMYK)	Source	S.Width	S.Height
ListPlus_Default	Mondi B-FluorGlands	950.0	950.0	26.1604	26.9264	31.0994	30.006	0	14.876449	0.286	0.376	4.8	1.0	0.16324	0.14659	0.16524	0.23669	0.16476	0.7272921	DFE	791.3	791

Figure 2. Ink Estimator Light - List Tab

## 1.2.3 Settings

The user enters the following values that are used for the calculations:

- Dimension units (mm/inch)
- Volume units (ml/oz)
- Cost per ink liter
- Cost per BA liter
- Cost of PH
- Cost of WWC (web wipe cassettes)
- Currency (USD/euro)
- DFE name/IP address

## 2 Ink Estimator Workflow

This section describes how to generate consumption and cost results. The parameters required to generate the estimates can be imported automatically into the tool or entered manually.

### 2.1 Preparing the Job

1. Connect to the DFE UI ([http://\[DFE\\_IP\\_address\]/dfe/index.html](http://[DFE_IP_address]/dfe/index.html)).
2. Import the job with the correct substrate name and print mode (High, Standard, Eco).
3. Select the number of copies.
4. Select a ticket template and include the following parameters:
  - Destination: **Press Controller**
  - Place Job in: **Held Job List**
  - Retain Job on Press: **Yes for 10 minutes**

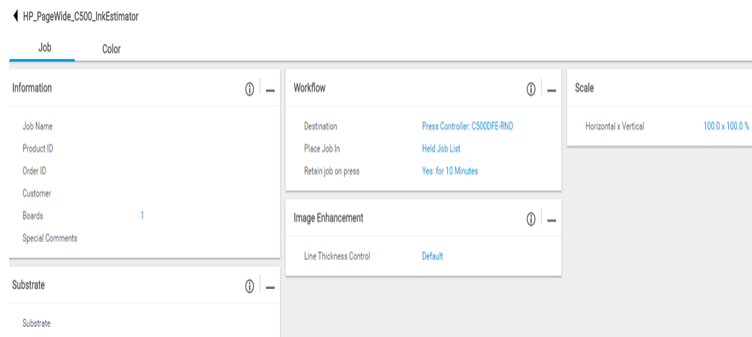


Figure 3. Sample Ticket Template

5. Click **Save**.
6. The DFE starts ripping the job automatically.

### 2.2 Semi-Automatic Workflow

Use the semi-automatic workflow to have Ink Estimator Lite import the required job details from the DFE and perform its calculations with a single click.

1. At the bottom of the Settings tab, enter the Internal ID of the job to be estimated.

**Job Internal ID:**  
1041

Figure 4. Job Internal ID field

The Internal ID can be found in the listing for the job in the Presses or Press Controllers device queue.

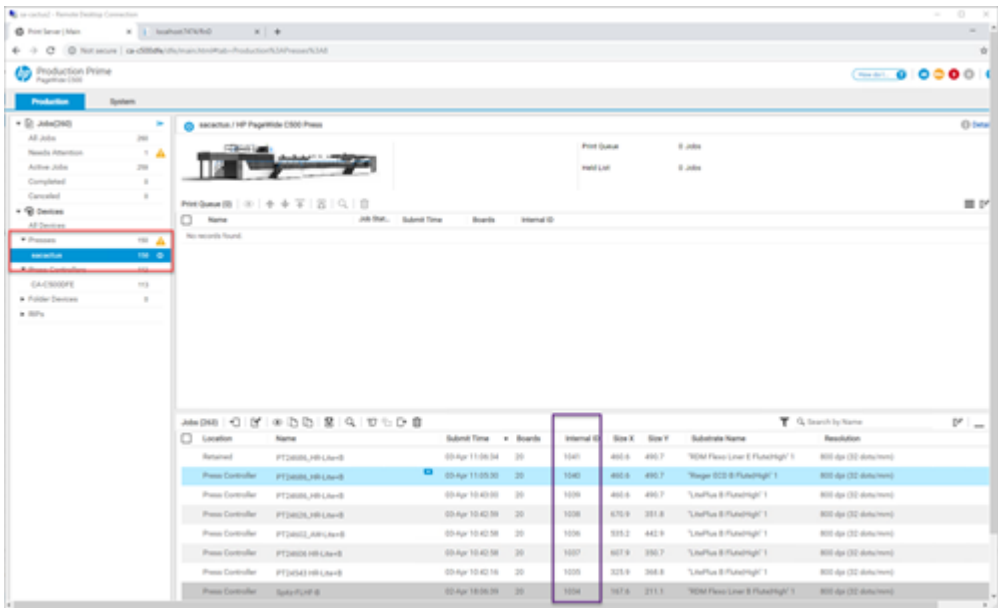


Figure 5. Internal ID Column in DFE

**Note:**

If the Internal ID column does not appear in the table on the Press tab or the Press Controller tab, click the **Edit Columns** icon and move **Internal ID** to the Displayed Columns list.

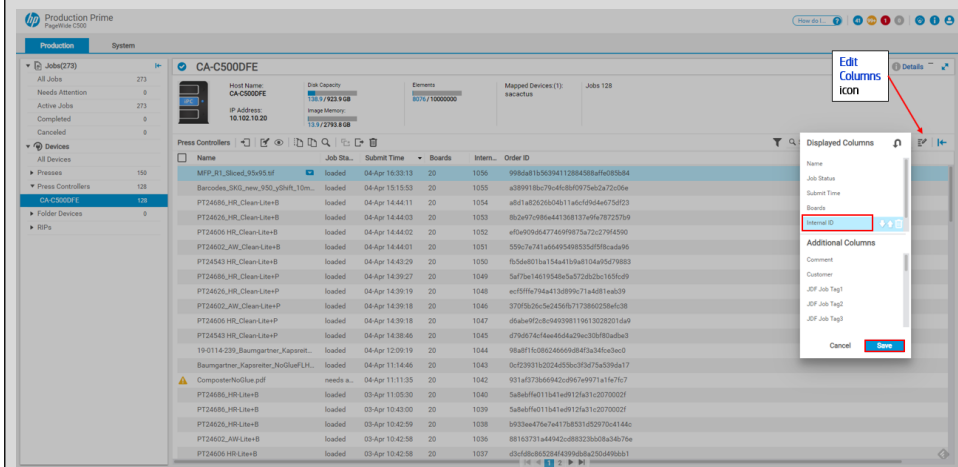


Figure 6. Adding Internal ID Column to Displayed List

2. Click Calculate. Ink Estimator Lite communicates with the DFE, imports the relevant information about the job (including a thumbnail of the image), and begins its calculations.

- The results are displayed on the right side of the Dashboard.

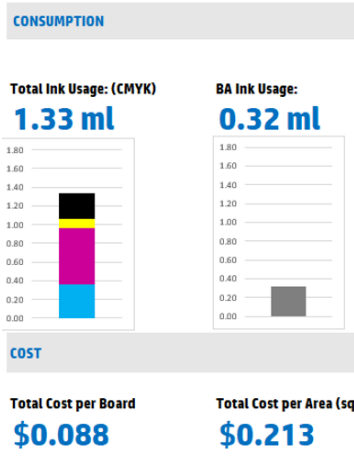



Figure 7. Calculated Results

**Note:**  
The Total Cost per Area is displayed in either sqm or MSF.

- Click . The results are saved to the table on the List sheet.

## 2.3 Manual Workflow

The procedure below describes how to enter the job details required by Ink Estimator Lite manually.

- When the ripping process is finished in the DFE, locate the ink coverage percentages, as follows:
  - Select the relevant job.
  - Click the **Preview** icon.

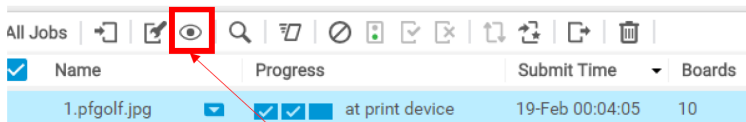


Figure 8. Preview Icon

- Click the **Total Coverage** icon.

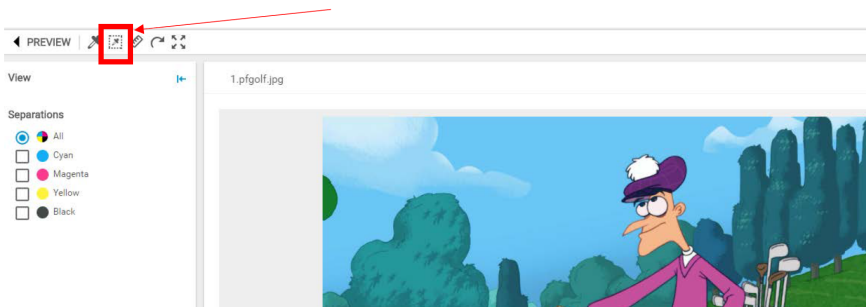


Figure 9. Total Coverage Icon



- d. The total coverage values are displayed in a popup window.

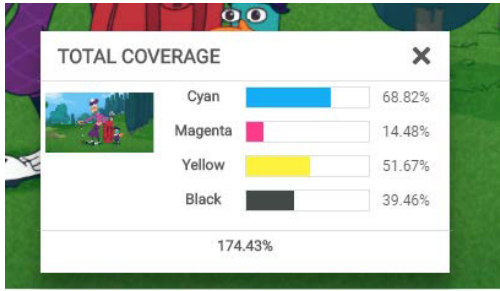


Figure 10. Total Coverage Values

- Locate the file dimensions from the PDF file:
  - Navigate to the PDF file and open it.
  - Select **File > Properties > Description > Page Size**.

**Note:**  
In the current version of the DFE, the dimensions provided in the PDF file are more accurate than the ones displayed in the DFE.

- Fill in the parameters in the blue-colored fields of the Excel sheet.

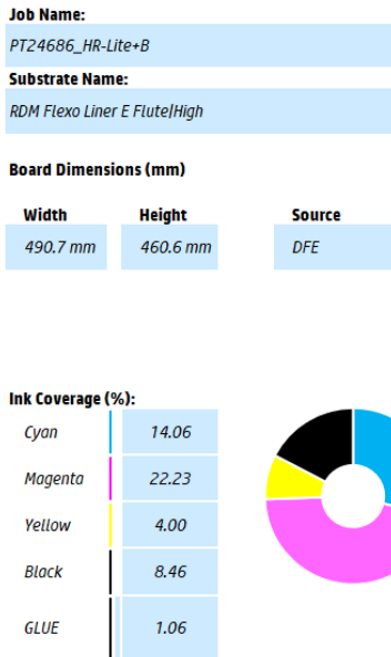


Figure 11. Parameters to Enter in Excel Sheet

4. The results are displayed automatically in the Consumption area on the right side of the Dashboard.

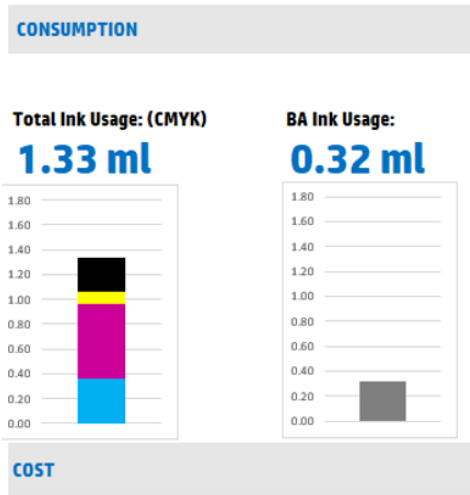


Figure 12. Calculated Results

5. Click [Save to List](#). The results are saved to the table on the List sheet.