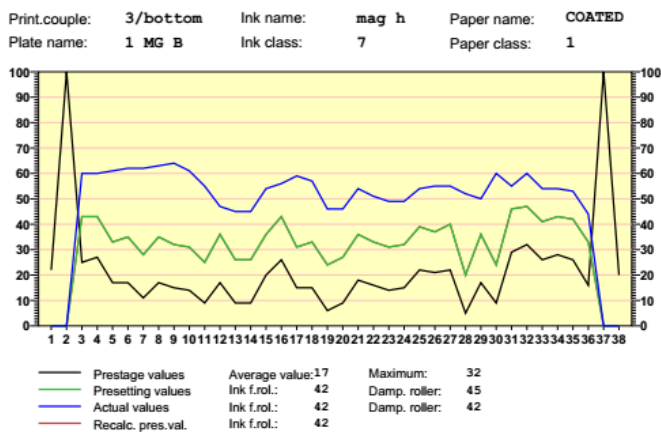


Waste Reduction

Make Ready Waste Reduction Program

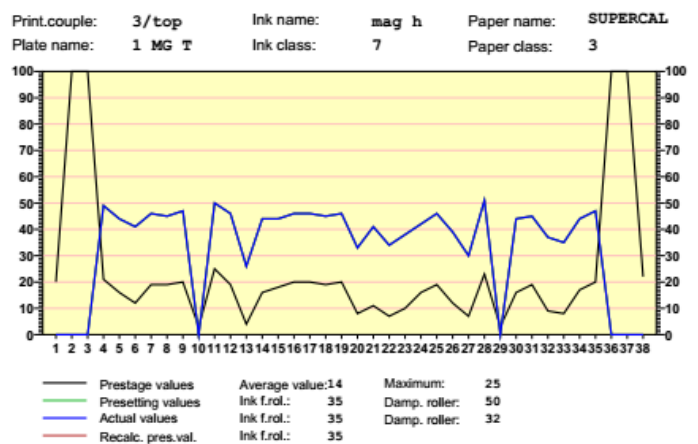
Ink presetting **before** the program

Actual values far away from presetting



Ink presetting **after** the program

Actual values mimic preset values



The PECOM Press Manager (PPM) from manroland is a powerful tool for scheduling and optimising productions. Correct utilization of the PPM will improve presetting for both components and ink which in turn reduces the make ready time and waste.

Make ready waste contributes on average XX% of total waste

Program Highlights

- Onsite assessment of the current situation
 - Component calibrations
 - Ink and roller settings
 - Start-up procedures
- Analysis of regular products
- Database modifications using customized formulas
- Process optimization and training
- Master product creation and saving



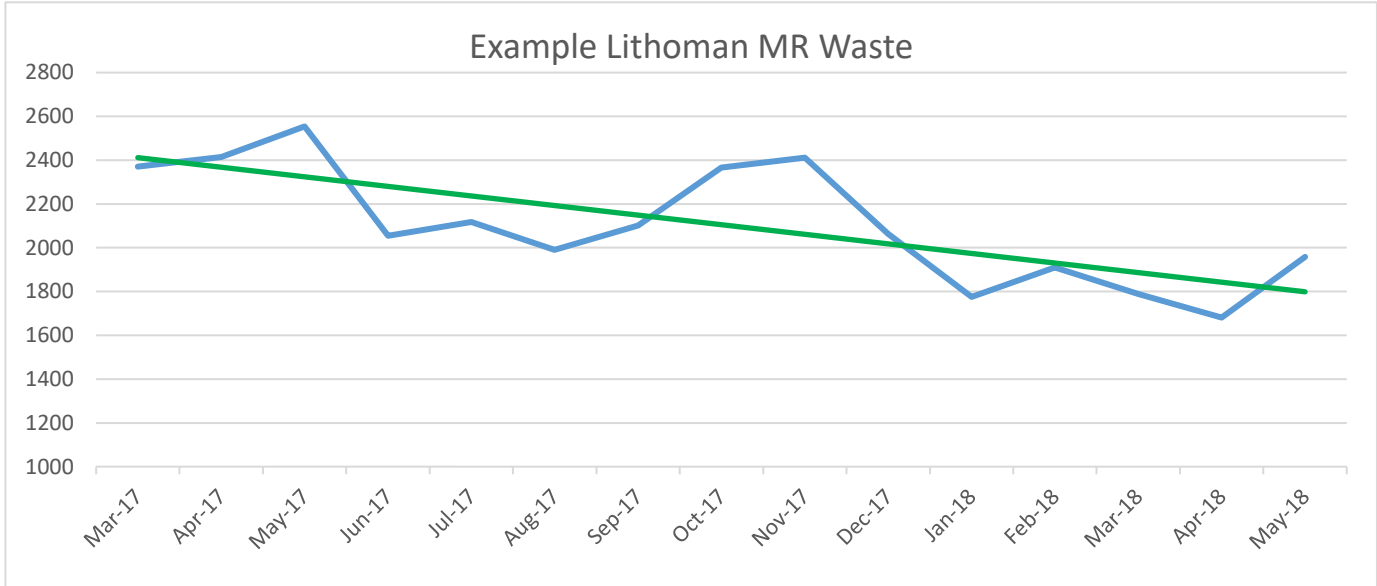
Presetting is the key

A manroland MRW reduction program can be customized for each machine depending on the existing equipment's age and software.

The work is carried out by a manroland Pecom technician and can also include a manroland print demonstrator for added expertise on the printing side.

Typically 3-4 days are needed to start. These days will include checking the press status and then analyzing and making initial changes to the database.

A scheduled day per week for the following 4-6 weeks is needed to monitor the make ready's and make further adjustments for ink presetting as well as assisting in the master creation and saving. Through this most of the common productions are covered. A return visit once per month to check the progress and make sure that "bad habits" have not returned is also recommended.



ROI

Every machine is different.

Here is an example from a lithoman.

- 130 products per month
- Average revolution weight 0.1kg
- Current average makeready waste = 3000 Revolutions
- 10% reduction in makeready waste = 300 Revolutions
- 300 rev x 130 products = 39,000 rev/month
- 39,000 x 0.1kg = 3.9 tonne
- 3.9 x12 = **46.8 tonne in paper saving**

With nearly 50 tonne of paper saving the ROI is less than 6 months

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