

POLYMOUNT

CREATORS OF REUSABLE SOLUTIONS

The Polymount Film Cleaner PPC



POLYMOUNT
FILM CLEANER
REUSE & RECYCLE YOUR PRINTED FILM



The next big thing in Flexo & Gravure:
The Polymount Film Cleaner

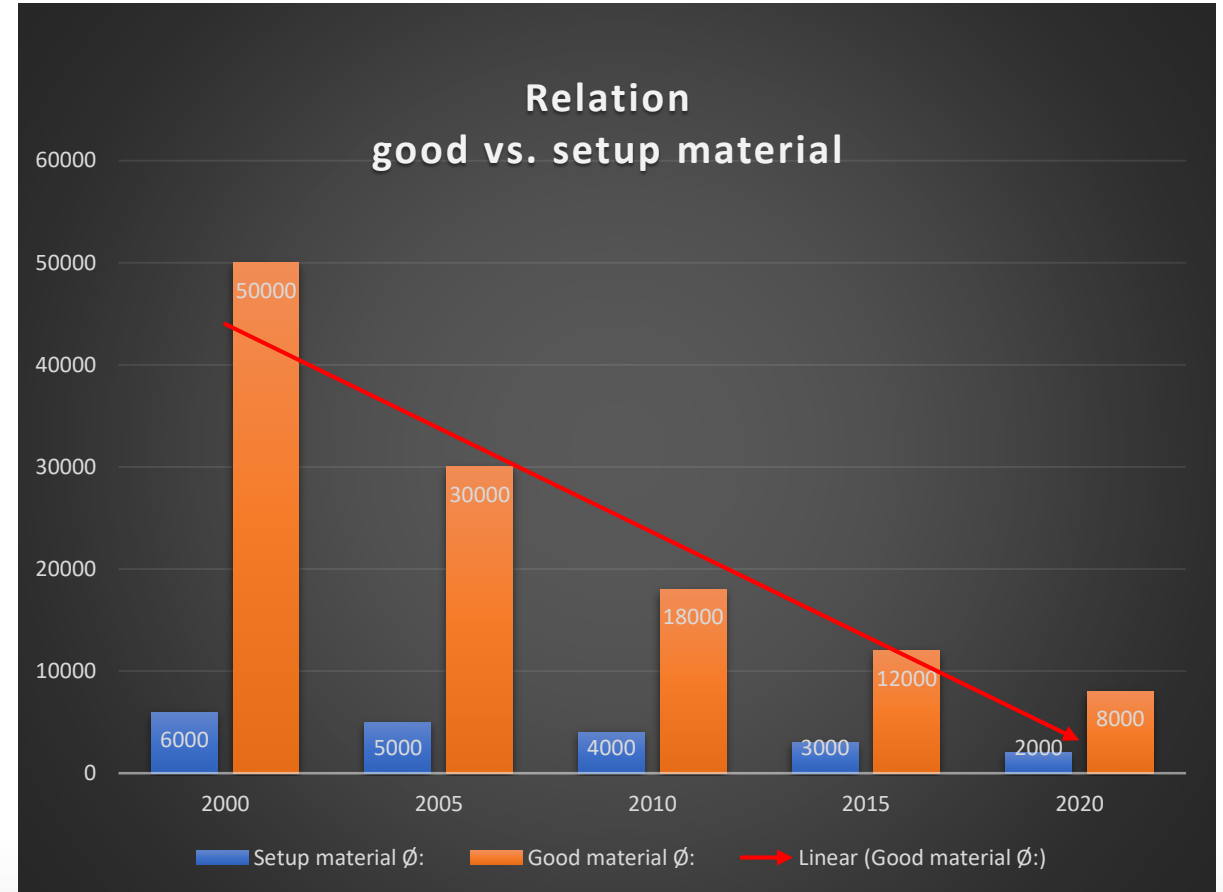
What is the Polymount Film Cleaner?

- In short:
- A machine specifically designed to clean printed film



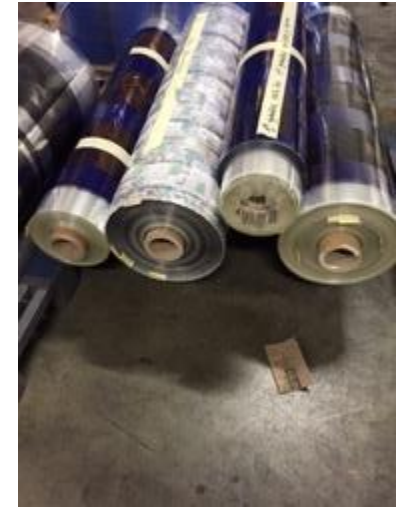
Why do you need a Polymount Film Cleaner?

- JIT principles & increasing product variants trigger shorter lead times with smaller and smaller print runs
- Ratio between **setup** vs. **good** material has become very unfavorable
- This pressure will continue to spiral and is the only stable trend in the entire printing & packaging industry
- Saving potential up to **15%** on total substrate cost.



Every printers faces same challenges

- Massive amounts of untapped start-up waste is packed and piled in dark corners of every printer world wide
- Every printer acknowledges this problem
- Useful purpose until today unknown!



What is the Polymount Film Cleaner build for?

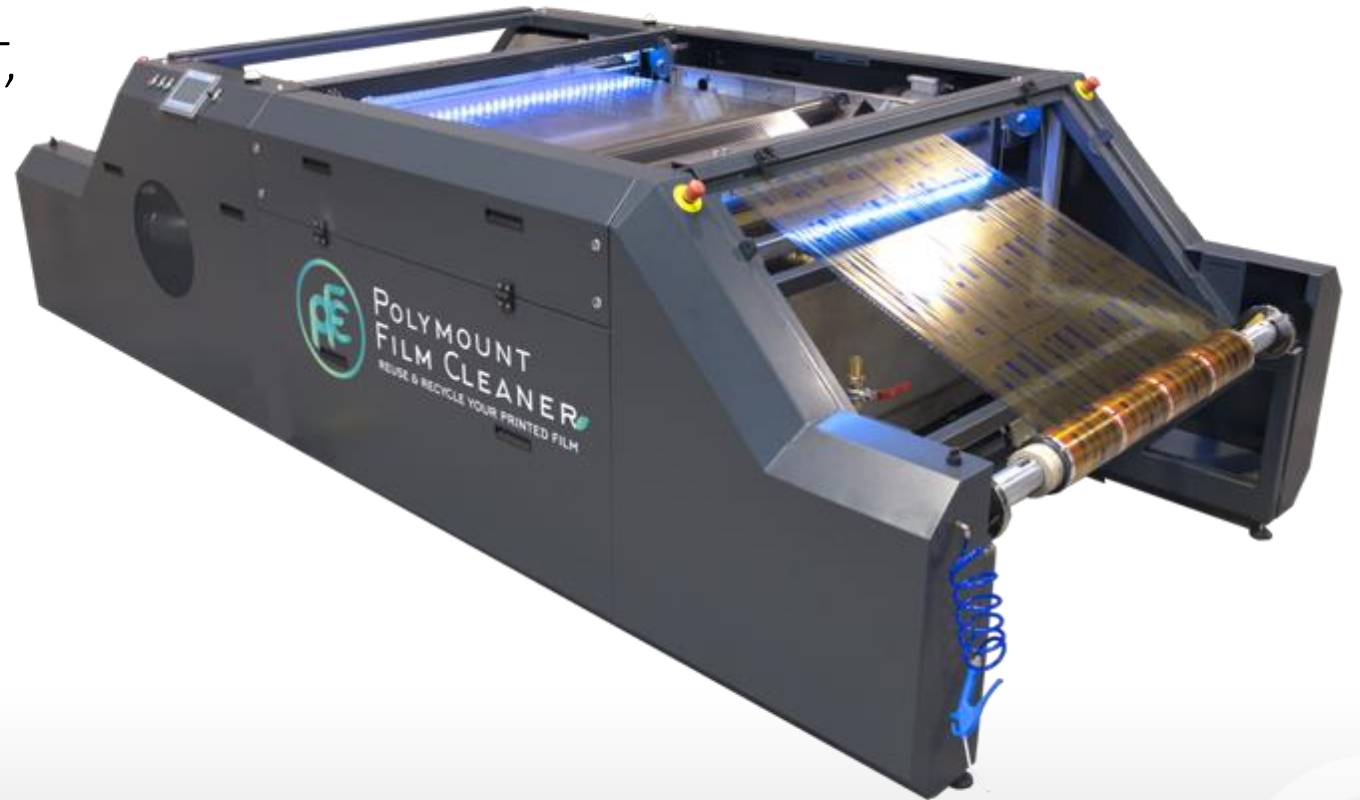
3 key applications:

- To clean and reuse printed setup material
- Ability to sell cleaned rolls at the end of lifetime instead of disposing against cost. Alternatively in-house recycling.
- If application allows, overproduced/ wrongly printed material can be recycled. Tests with EREMA show very promising results.



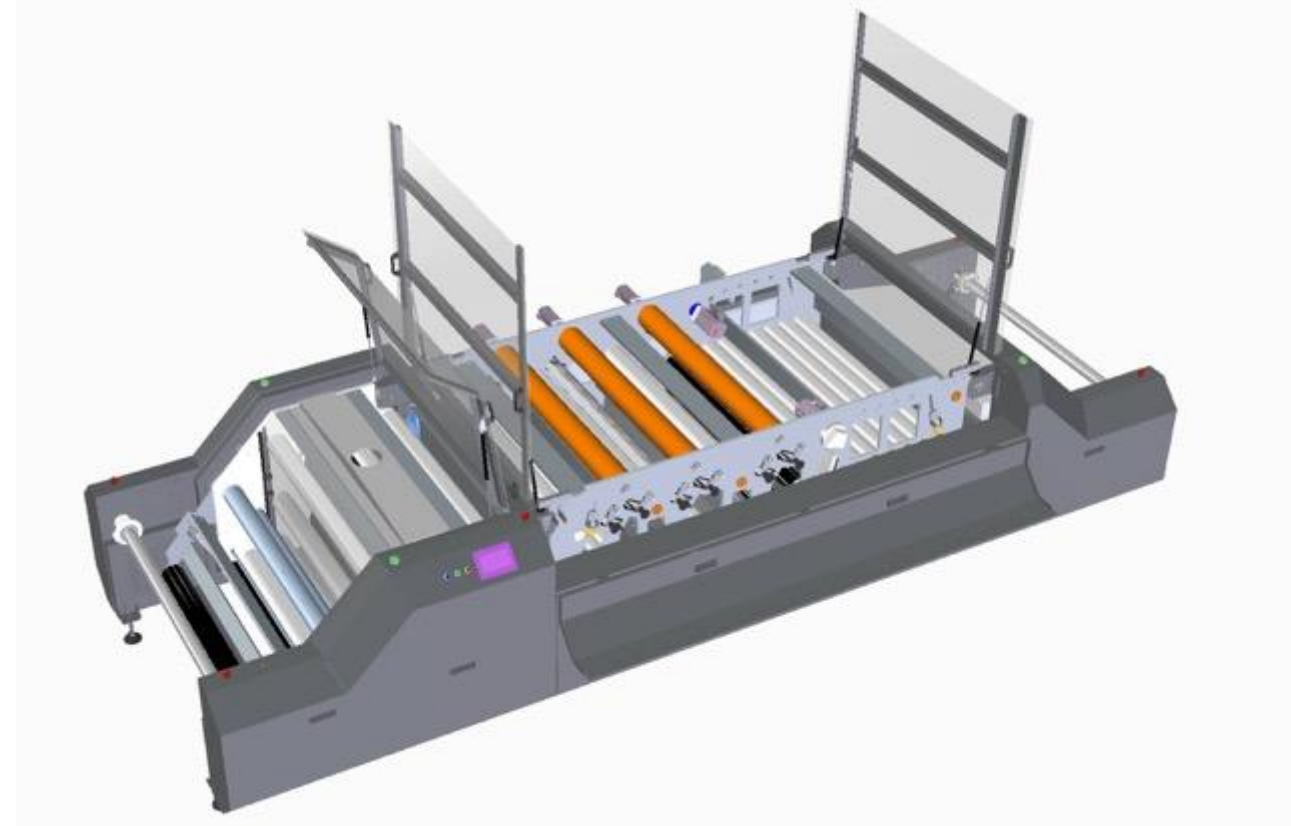
The Polymount Film Cleaner is the answer!

- **Materials:**
Cleans all standard non-absorbent packaging materials like PA, PAO, PP, PET, PE, BOPP etc.
- **Thickness:**
~20 micron up to ~200 micron
- **Ink type:**
Solvent and water based inks
- **Speed:**
50 meters per minute
- **Maximum width material:**
1300mm, future 1950mm width available



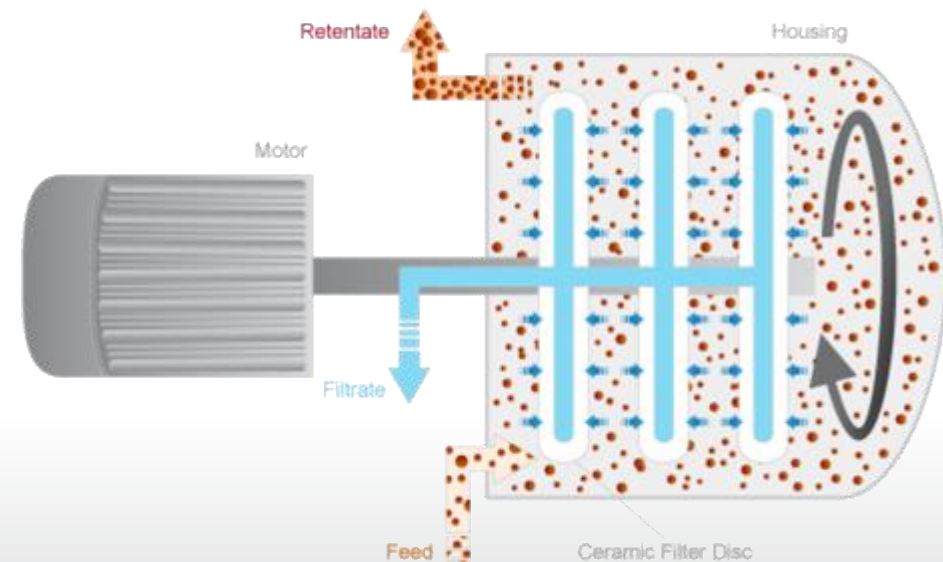
How does it work?

- **Step 1:** Controlled Un-wind
- **Step 2:** The film is submerged and retained to crack the dry ink film. Soft microfiber cloths clean the film gently and non-abrasive
- **Step 3:** The second cleaning cycle to remove last residues and deep clean the substrate
- **Step 4:** Final rinsing bath to remove any remaining ink contamination
- **Step 5:** Patented „slip-dry-technology“ dries the film already to >99%
- **Step 6:** The drying section secures a thorough dry film on a very small footprint
- **Step 7:** Re-wind



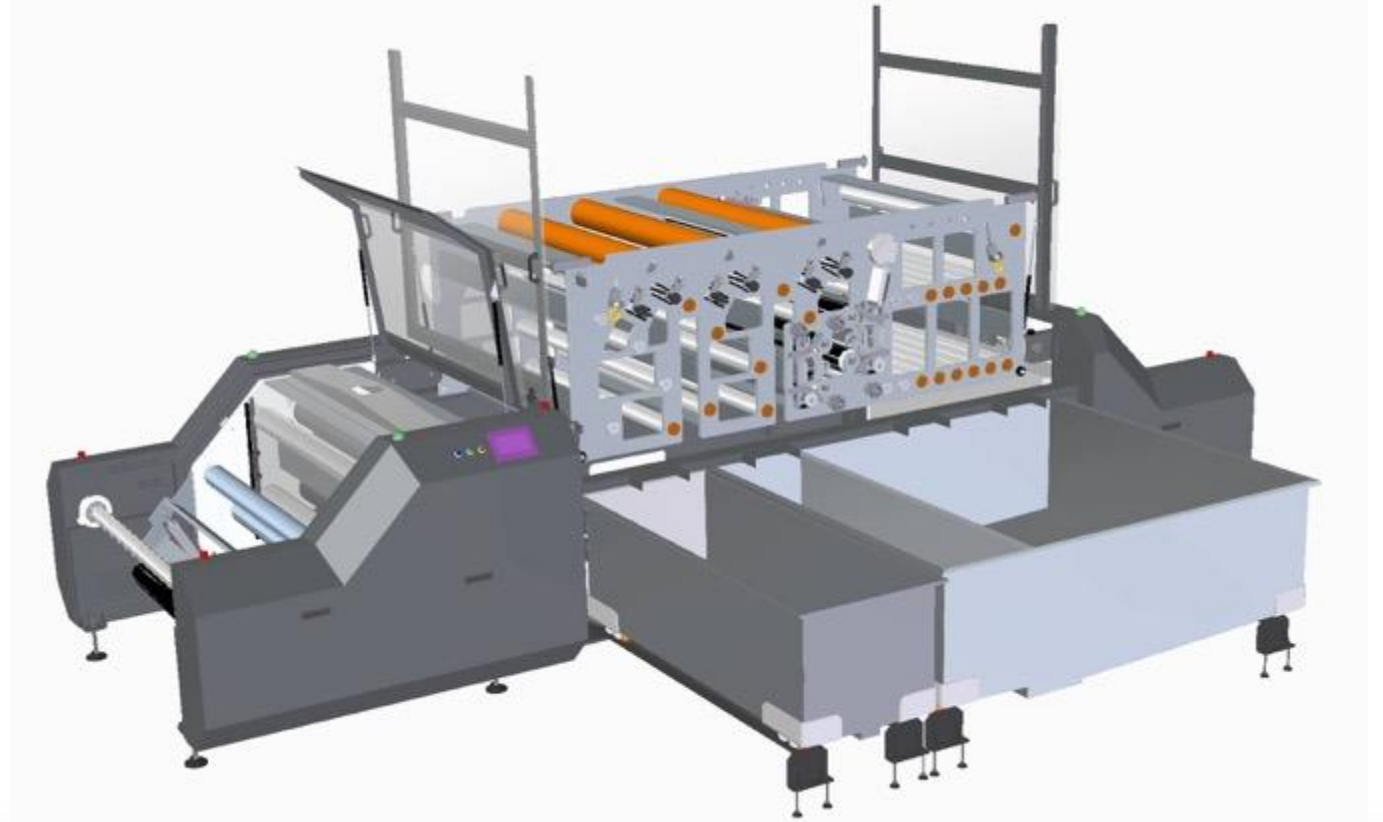
Polywash & filtration unit

- The Polywash 6000 family is a purposely developed cleaning liquid for the Polymount Film Cleaner
- A special filter technology was developed to recover the unique properties of Polywash over time
- Fresh Polywash is continuously circulated in the washing tanks of the machine
- The filtration can filter particles down to 30nm
- Goal was to maximize efficiency at minimal cost and environmental impact



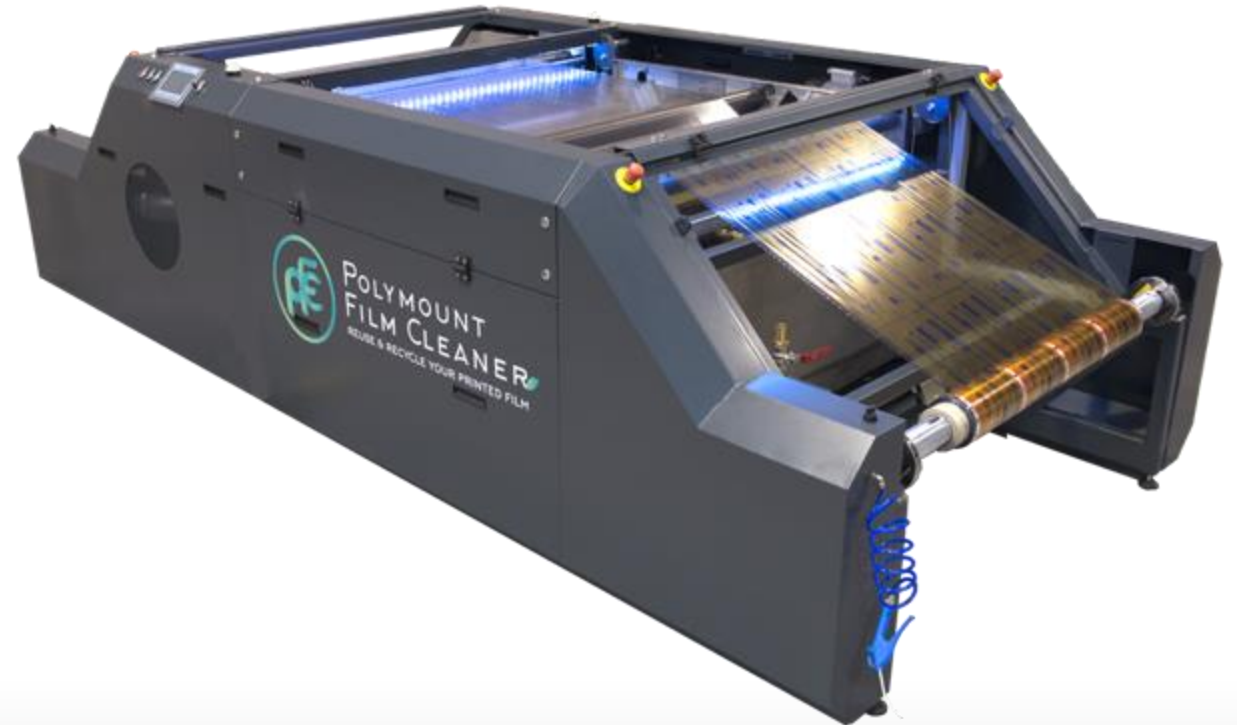
What's in for you?

- A straight forward & “simple” machine
- Easy to operate and super compact
- Not Atex requirements necessary
- Servo motors and web tension control across all units
- Patented drying technology “slip dry” via rubber strips dries film simple but extremely efficient
- Very good accessibility to all moving parts for maintenance or in case of e.g. web breaks, etc.



Summary

- Recover setup-/ production material in a simple and cost effective way
- Reclaim money from your recycler instead of paying to dispose
- For all commonly used non-absorbent films
- Suitable for solvent & water based inks
- Surface treatment e.g. Corona remains intact
- Eco friendly and sustainable due to reuse of cleaning liquid
- **Easy & simple to use**



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Thank you for your attention

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Polymount HQ

Melkrijder 6
3861 SG Nijkerk
The Netherlands
Tel. +31 33 299 62 70
Fax. +31 33 299 62 07

Manufacturing sites

The Netherlands
Czech Republic
US

Sales offices

The Netherlands	Germany
Czech Republic	France
United Kingdom	Sweden
Latin America	Mexico
Hong Kong	US

WWW.POLYMOUNT-INT.COM