

ProTech Flexo



High Performance Automatic Cleaning and Drying System for Flexographic Presses



With today's demand for higher quality Flexographic printing in corrugated packaging, the need to maintain clean plates throughout the printing process has dramatically increased. Packaging buyers are demanding more sophisticated products with higher quality printing from their Flexo printers. Using the knowledge acquired as a leader in Automated Blanket Cleaning Technology for 50 years, Baldwin has developed a unique patented Automatic Plate Cleaning System that enhances print quality by delivering clean and dry plates automatically after each cleaning cycle.

System Description

- The fully automated Baldwin ProTech Flexo uses a rotating and oscillating brush roller to clean stereotypes and an integrated Air Knife to dry the plate. The gentle action of the rotating brush provides superior cleaning without damaging or scratching the stereo.
- At any time during a production run the system can execute a clean for all press plate cylinders with the press units closed and coupled.
- All functions are programmed to work automatically: on/off cleaning devices, spraying of the pre-set amount of detergent and/or water onto the brush, as well as cleaning of the brush rollers themselves prior to the next cleaning cycle.
- The Baldwin Automatic ProTech Flexo can be installed on a large variety of presses. Bobst, Cuir, Emba, Langston, Martin, SHS, Texo, Goepfert, Marquip Ward United and Celmach are just some of the press manufacturers where our patented system can be fitted to their presses.

Sample 6 color press

| | Manual Cleaning | Baldwin Cleaning System |
|---|--|--------------------------|
| Cleaning time | 5-9 min. per plate | 90 - 150 sec. all plates |
| Drying time | Included above | 30 - 60 sec. all plates |
| Total Cleaning & Drying time | Average 20 - 25 min. (2 operators) | 2 - 3,5 min. |
| Consumption water | Approx. 5 liters/plate = 30 liters total | 0,5 - 1.5 liters |
| Consumption detergent | Detergent included above | 0 - 0,075 liters |
| Wasted boards | Up to 20 | 0 - 3 |
| Loss of production | Approx. 42 % | Approx. 5 % |

Since the number and nature of the underlying parameters can vary considerably, depending on your specific press, material and operating conditions, the result achieved in practice may deviate

Advantages

Practical

- At any time, plates can be automatically cleaned and dried in as little as three (3) minutes during a production run while the press remains closed and coupled
- Improved print quality through consistent and solid cleaning
- No manual rewashing
- Significant increase of the production efficiency for the pressroom
- Reduced skin contact with inks and coatings
- Reduced risk of accidents
- Minimized operator contact with moving parts and press nip points
- No extra consumables required, such as rags and cleaning cloths
- Low maintenance required

Economical

- Quick ROI
- Shorter make-ready times and shorter press stops
- Considerable reduction of start-up waste

Ecological

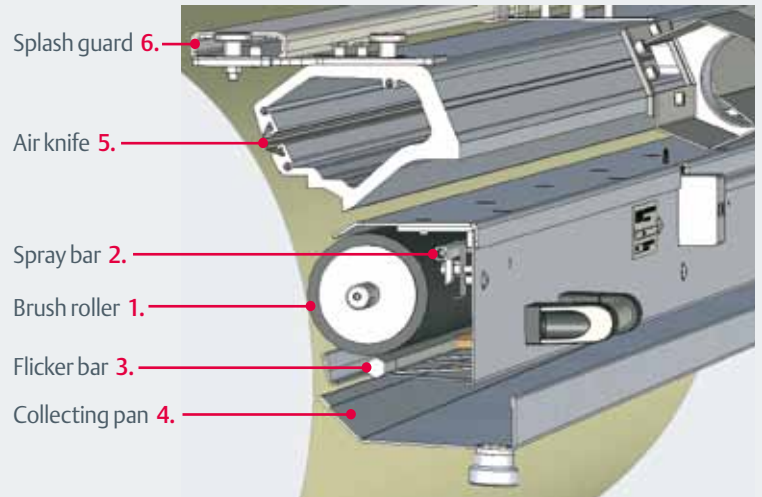
- Reduced water consumption
- Reduced cleaning agent consumption
- Cleaner environment



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The Baldwin Cleaning and Drying unit in technical terms

1. The plate cylinder is cleaned by means of a rotating and laterally oscillating brush roller.
2. A water-detergent mixture is supplied by the spray bar and sprayed onto the brush.
3. The brush roller scrubs the ink and substrate fibers from the cylinder and moves it into the cleaner unit, where it is stripped off by the flicker bar.
4. The ink and substrate fibers ends up in a collecting pan.
5. After cleaning, the plate cylinder gets dried smoothly by a separate air knife.
6. To keep misting down to a minimum a splash guard takes care.



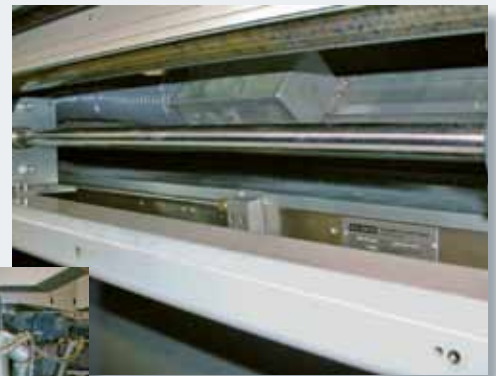
Safe Cleaning As Well As Reduced Costs


The dosage of detergent and water is program controlled and can be finely varied depending on the degree of ink, coating and board fiber buildup. Fast cleaning means shorter make-ready times and shorter press stops, which increases the productivity of the press.

This patented system allows for press operators to use a “hands off the cylinders” cleaning function that automatically prepares plates for continuation of the run. This safety feature is most beneficial for the press operators. Additional, the operators enjoy a cleaner environment with reduced risk of skin contact with inks and coatings.

Compact and Versatile with Real User Benefits

An immediate user benefit is improved quality of print production through consistent and thorough cleaning of the stereotypes. There is also a reduced risk of accidents because of minimized operator contact with moving parts and press nip points. The compact design of the Baldwin Cleaning Head permits flexo plates to be changed without difficulty or interference. With no consumables required for operation, such as rags and cleaning cloths, continuing expensive disposal costs are eliminated.



**BALDWIN – complete printing periphery in one system**

Contact us for:

- Professional advice and support
- Further product information
- Return on investment calculation (ROI)

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