



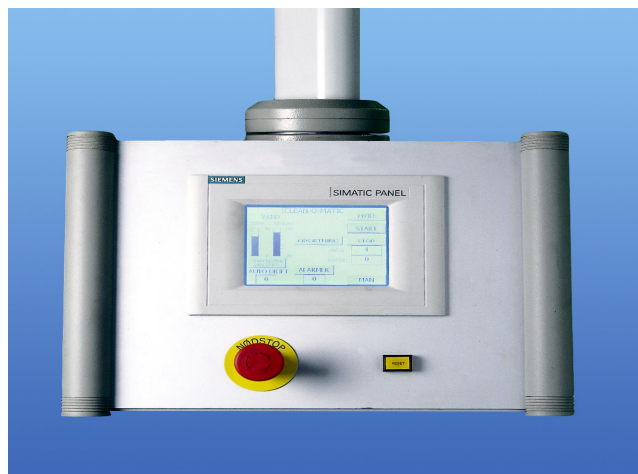
bcm transtech a/s



CleanFlex stereo washing machine by bcm transtech a/s



The washing machine are built to fit the stereos



Easy handling and configuration of the operations



A "dirty" Stereo running into the washing machine



The "clean" Stereo after the cleaning process



The Stereos are washed and dried in one working) procedure.

Press

..."Another current development is CleanFlex, a fully automatic washing machine for stereos that ensures effective and thorough cleaning".

..."Advantages of the system include low water and energy consumption, environment friendly atmosphere, low noise level and clean plates. Though only recently introduced to the market this stereo washing machine has been long term tested at an SCA boxplant in Denmark."

Quotes from an article published by Paper Board Industry.



Environment friendly stereo washing machine by bcm transtech a/s

Cleanflex - Fully automatic flexo-washing machine

CleanFlex is a fully automatic washing machine with a unique, highly developed cleaning technique, which ensures an effective, gentle and thorough cleaning of the stereotypes with use of a minimum of water and energy consumption and in a very environment friendly atmosphere.

CleanFlex is designed on tried and tested principles, which, thanks to new technology, have been combined in one piece of equipment.

Five rows of brushes move gently forwards and backwards

using **pre-heated** water and soap. This action ensures that the clichés are not subject to any wear and tear while passing through the machine. As soon as the clichés enter the machine, they are softened with a gently prewash on both sides. This removes most of the ink.

Next the clichés pass through three more rows of brushes, which remove the last traces of ink. Finally, they are dried on both sides **with warm air** and emerge from the machine with no drips and ready for immediate reuse or storage.

The Environment

The CleanFlex is complete **environment friendly** as **there is no use of organic solvents. Only Water, Soap and Foam retardant liquid are used for cleaning.**

From the very start, the concept behind CleanFlex has been to create an environment-friendly machine without compromising on efficiency. This has been achieved with this machine, partly due to low water consumption

compared to other similar equipment.

The washer includes a 150-litre water tank, which allows the water to be re-circulated and reused for as long as the user think it is suitable. Throughout the wash, soap and water are very sparingly pumped out over the brushes. So this system has nothing in common with noisy and energy-hungry high pressure cleaning.

Automation

The biggest advantage of CleanFlex is that it meets today's requirements for automation.

This is in part because the equipment is controlled by a Siemens pic-unit.

A revolvable display is attached, allowing the operator

to simple control of the following: Water temperature, Automatic change of water, Speed of throughput, Adjustment of amounts of soap and antifoam, Programs for different types of clichés/ halftone blocks/different inks etc.

Technical Data

Power supply: 400 v 3ph + N + E, consumption 10,5 kW

Water supply: Ordinary Mains water supply

Outlet of waste water: connected to the existing drainage system.

Water tank: 150 L

Pump capacity: 1,200 L/min.

Principal dimensions: 1-242 cm / w-150 cm / h-240 cm

Weight: around 1,350 kg Transport length (standard): 8,5 m.

Cliché size (standard): 1,7 m, although 3 m with a specially designed rail.

Conveyer speed: By 50 Hertz – 1,3 m/min. By 90 Hertz – 2,14 m/min.

Noise level: < 80 dB.

Conclusion

CleanFlex has first been tested at the factory in a year-long development process and then again by some of the biggest packagers and manufactures in Denmark.

CleanFlex lives up to the expectations of being a cliché washer that fulfils the requirements for efficiency, safety, functionality, the environment, and, not least, full customer satisfaction.

Advantages of Using CleanFlex

The figures below document a trial period of 28 days, with 4 hours of washing a day.

Low water consumption: approx. 148 liters per day

Electricity consumption: 20 kW/h per day

Cleaning soap: 1,5 liters per day

Foam retardant: 0,2 liters per day

No compressed air used for drying.

The machine is fast and easy to operate. It halved the washing time in relation to our old washer, and, at the same time, the printing plates were as good as new and completely dry shortly after exiting the machine.

The choice of two kinds of suspension system - rails or clips - makes it easy to attach the printing plates irrespective of whether they are fitted with frames. The machine can be operated by a single employee, who can even work on something else while the machine is actually washing.

The benefits listed above are just a few of those we have enjoyed by using CleanFlex, Please contact BCM Transtech to arrange a visit to our factory.

Sonny Wolder

13.03.01, SCA Svenstrup – Denmark



Specifications:

| | | |
|----------------------|-------------|---|
| External dimensions: | Length: | 2.350 mm total, w/conveyor 7.050 mm |
| | Height: | 2.300 mm |
| | Width: | 1.250mm total, w/conveyor 1.600mm |
| Weight: | | 1.300 kg. |
| Capacity: | Plate size: | Height: 1.700 mm Length: 3.000 mm. |
| Speed: | Wash 1: | Set from panel |
| | Wash 2: | Set from panel |
| | Transport: | 2.2 metres/min. |
| Connection: | Electrical: | 3 x 400V + N + E, 16 A 50 Hz |
| | Water: | 3/4" hose |
| | Drainage: | 25 mm drainage hose |
| | | Drainage system must be in accordance with local regulations. |
| Noise level: | | < 80 dB. |

The CleanFlex Flexo-Washing Machine observes the rules of EEC Norm IEC 60204-1.

