

# Cleaning Equipment Wide Web



**FLEXO WASH**

Leading Cleaning Technology



## Flexo Wash Around the World

25 years ago Flexo Wash was founded by an inventive Danish label printer who faced the increased requirements for improved print quality as well as a safe and efficient production.

He strove to create cleaning units that would reduce downtime on his press. The first Flexo Wash Parts Washer was built by using his old dishwasher. Later he started building other machines where he could recover the anilox cell volume completely in only a few minutes.

Through continuous innovation and development Flexo Wash today distributes a diverse line of highly advanced cleaning equipment for all sectors of the industry.

The products are distributed around the world through a wide network of subsidiaries and distributors making Flexo Wash the world's leader of flexographic and converter cleaning technology.

During the years more than 3000 machines have been installed.

Flexo Wash is constantly developing their products and strives to make innovative solutions meeting the demand of the customers while being user friendly at the same time.

### **FLEXO WASH Offices**

- Flexo Wash, Skødstrup, Denmark
- Flexo Wash France, Taluyers (Lyon), France
- Flexo Wash, Leeds, United Kingdom
- Flexo Wash, Kentucky, USA
- Flexo Wash Asia, Kuala Lumpur, Malaysia



# LEAN Your Production

The mission of Flexo Wash is to help you improve your productivity, keep a constant print quality and a safe and healthy working environment.

Reduction of downtime, waste and investments in aniloxes, plates, ink and material is a key factor for every label printer together with the brand owners needs for a high, constant print quality and short delivery times. Having the right washing equipment covering all your washing needs will help you optimize your production and to get the most out of your printing press.

*All Flexo Wash products are designed for a LEAN production:*

- We customize our equipment to fit the growing complexity of cleaning needs, using specialized holders for anilox rolls, doctor blade chambers etc.
- All Flexo Wash machines have a 100% automatic washing process eliminating any manual labour in the washing process.
- The perfect cleaning result created in a Flexo Wash machine has its origin from a label printer and is achieved by 25 years of constant development.

Ask Flexo Wash for a complete package deal to cover all your washing needs in order to LEAN your production and obtain an optimum output from your printing press.

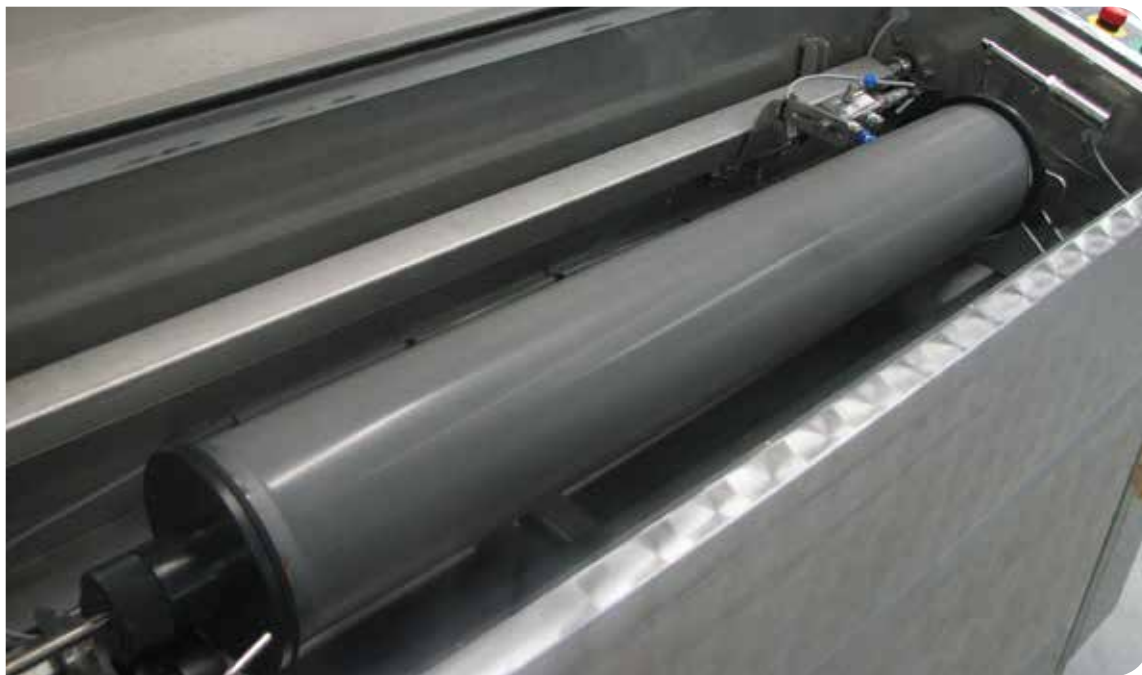


## Want to see it work in your own production?

We know that seeing is believing and would therefore like to show you what our washing machines can do to help you LEAN your production.

Ask your local Flexo Wash representative for a demonstration of our equipment at your own factory.





- Designed for All Ink Types
- Recirculation/Re-use of Liquid
- Short Washing Time
- Harmless to the Rolls
- Cell Volume Completely Restored
- Safe and Easy Washing
- Stainless Steel

## Anilox Roll Cleaners

The fully automatic Anilox Roll Cleaners are designed to deep clean/restore anilox rolls, anilox sleeves or gravure cylinders of all sizes. Furthermore it is also a very good tool for the daily washing and maintenance of rolls.

The Flexo Wash system is based on liquid and high-pressure water. Therefore the system is effective even for high line aniloxes. The quick and gentle cleaning process leaves the rolls totally clean and ready for immediate use after just 10-20 minutes cleaning without causing any wear or tear to the roll.

This makes it possible to keep your anilox rolls totally clean at all times ensuring a high and consistent print quality and a long lifetime of the anilox rolls.

The Anilox Roll Cleaner is an advanced machine, which can be operated by all types of personnel. It does not require a profound knowledge to operate the machine.

### **The FW Anilox Roll Cleaners meet your cleaning needs:**

The different models and sizes offer various options but all have these common characteristics:

*The roll gets absolutely clean - No wear or tear on roll - Quick and easy to use*

The units are also very adequate for cleaning sleeves or plates. A complete range of sleeve adapters and plate drums are available.

*"Because of the Anilox Roll Cleaner, the condition of our aniloxes is always consistent. It is important to always have clean aniloxes to keep the same printing quality. And that we have!"*

Dep. Print Manager  
Ulrich Wiemers  
Coveris Flexibles  
Germany  
FW 2000M Anilox Roll Cleaner

Print Manager  
Jörg Rohde  
Wentus  
Germany  
FW 3000 PLC Anilox Roll Cleaner

*"With the unit from Flexo Wash we can clean the rolls and sleeves when necessary. After having placed the roll or sleeve and pressed the start button the machine will automatically go through the wash cycle and it is not necessary to keep the machine under surveillance during cleaning. In this way the employees can spend their time doing other things."*

## Quick and Efficient Cleaning:

1. Place the roll in the machine, close the lid and press start.
2. The roll rotates while cleaning liquid is sprayed on it.
3. At the end of the wash cycle liquid is drained back to tank for re-use.
4. High pressure water is sprayed on the roll removing all ink residues and cleaning liquid.
5. An air stream blows off excessive water.

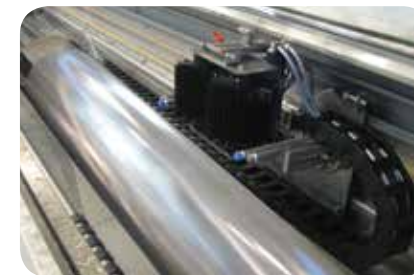
## Eco-friendly Cleaning:

The FW Anilox Cleaners work with environmentally friendly cleaning liquid, which is specially made for deep cleaning of rolls with all types of ink. For print sleeves and plates auxiliary liquids in a separate built-in tank is recommended.

The water from the high pressure rinse is automatically led directly to the drain, to a tank for re-use or to one of our water treatment units. The water consumption is only 10 litres for each roll meter.

## Options and Accessories:

- Extra traction system of machine for cleaning extra roll.
- Drum for plate cleaning.
- Adaptor for sleeves.
- Double tank system for 2<sup>nd</sup> cleaning liquid.
- Drainage tank for re-use of rinse water.
- Automatic liquid filling system.
- Stationary sleeve holders (shortens cleaning length with 300 mm)
- Servo driven traction system.
- Waste water treatment unit.



Anilox Roll Cleaner	FW 992 XL	FW 2000M	FW 2500M	FW 2000	FW 3000	FW 3000-2	FW 3500	FW 4000	FW 4500 XL
<b>Max Diameter</b>	2x180 mm (7")	200 mm (7.8")	200 mm (7.8")	300 mm (11.8")	300 mm (11.8")	2x300 mm (2x11.8")	300 mm (11.8")	300 mm (11.8")	450 mm (17.7")
<b>Max Length incl Shaft</b>	1860 mm (73.2")	1800 mm (70.8")	2300 mm (90.5")	1800 mm (70.2")	2800 mm (110.2")	2800 mm (110.2")	3300 mm (130")	3800 mm (150.2")	4300 mm (169.3")
<b>Max Cleaning Length</b>	1600 mm (63")	1700 mm (67")	2200 mm (86.8")	1400 mm (54.4")	2400 mm (94.4")	2400 mm (94.4")	2900 mm (114.2")	3400 mm (134.4")	3900 mm (153.5")
<b>Max Weight</b>	2 x 25 kg (2 x 55 lbs)	200 kg (440 lbs)	200 kg (440 lbs)	800 kg (1764 lbs)	800 kg (1764 lbs)	2 x 800 kg (2 x 1764 lbs)	800 kg (1764 lbs)	800 kg (1764 lbs)	1000 kg (2204.6 lbs)
<b>Number of Rolls</b>	2 (4)	1 (2)	1 (2)	1 (2)	1 (2)	2 (4)	1 (2)	1 (2)	1
<b>Machine Dimensions (LxWxH) *</b>	2207x798x1805 mm (86.9"x 31.4"x 71.1")	2310x553x1625 mm (91"x 21.8"x 64")	2810x553x1625 mm (111"x 21.8"x 64")	2515x1216x1863 mm (98"x 47.9"x 73.4")	3515x1216x1863 mm (138"x 47.9"x 73.4")	3510x1263x2128 mm (138"x 49.7"x 83.8")	4015x1216x1863 mm (158"x 47.9"x 73.4")	4515x1216x1863 mm (178"x 47.9"x 73.4")	5015x1204x2125 (197.4"x 47.4"x 83.7")
<b>Power Supply</b>	3x400V+N+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+N+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+N+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+PE, 50 Hz (3x480V+PE, 60 Hz)
<b>Compressed Air</b>	6-7 Bar, 100 l/min (85-100 PSI, 8.9 CFM)	6-7 Bar, 100L/min (85-100 PSI, 3.5 CFM)	6-7 Bar, 100L/min (85-100 PSI, 3.5 CFM)	6-7 Bar, 350L/min (85-100 PSI, 12 CFM)	6-7 Bar, 350L/min (85-100 PSI, 12 CFM)	6-7 Bar, 350L/min (85-100 PSI, 12 CFM)	6-7 Bar, 350L/min (85-100 PSI, 12 CFM)	6-7 Bar, 350L/min (85 PSI, 12 CFM)	6-7 Bar, 350L/min (85 PSI, 12 CFM)
<b>Control System</b>	Microprocessor	Microprocessor	Microprocessor	PLC	PLC	PLC	PLC	PLC	PLC

\* Height: With lid open  
- Larger units available on request



# Multi Cylinder Cleaning



The Multi Cylinder Cleaner system is based on washing and rinsing of cylinders. The quick and gentle cleaning process leaves the cylinders clean and ready for immediate use after just cleaning without causing any wear or tear to the cylinder.

With a standard Wash and Rinse system you can clean 8-12 cylinders per hour. All cylinders are cleaned by using eco friendly cleaning liquid, afterwards they are rinsed with water at high pressure and finally an air stream removes excess water.

The cylinders can be transported from the printing machine to the Multi Cylinder Cleaner on a special designed trolley with a cylinder carriage.

The carriage is loaded from the trolley into the loading station and automatically transported through the cleaning process.



Multi Cylinder Cleaner Model	CW 1900	CW 2300
Max. total cylinder length (incl. shaft)	1900 mm (74.8")	2300 mm (90.6")
Max. face length (shaft-less cylinders)	1350 mm (53.1")	1700 mm (66.9")
Max. face length (shafted cylinders)	1050 mm (41.3")	1400 mm (55.1")
Max. repeat length	1130 mm (44.8")	1130 mm (44.8")
Min. repeat length (other on demand)	470 mm (18.5")	470 mm (18.5")
Max. weight of 2 cylinders in kg	800 kg (1764 lbs)	800 kg (1764 lbs)
Electricity**	3x400V+N+PE (3X480V+PE, 60Hz)	3x400V+N+PE (3X480V+PE, 60Hz)
Compressed air	6-7 bar - 250 L/min (100 PSI, 66 GPM)	6-7 bar - 250 L/min (100 PSI, 66 GPM)

\* Special machine sizes on request / Height with lid open.

\*\* Special electricity on request.



# FW Inline Cleaning

Automatic Anilox Roll Cleaner for large rollers which are not easily removed from the printing machine, e.g. within the corrugated cardboard industries.

The machine consists of:

1. **Control unit:** A trolley with pumps, control and liquid tank which is connected directly to the cleaning chamber.
2. **Cleaning chamber :** Contains nozzles for filling-in the cleaning liquid and jet for the high-pressure water spray .

During the cleaning process the cleaning chamber is mounted to the printing machine instead of the doctor blade chamber. We use rubber edges to secure that it is tightly closed to the anilox roller. The chamber is connected to the control unit with tubes.

The printing machine's drip plate is used for collection of water, which is then pumped to the drain.

The above process including the mounting of the chamber can be done in 35-40 min. Afterwards the printing station is ready for immediate reuse.

## Quick and Efficient Cleaning:

1. Place the cleaning chamber in front of the Anilox and press start.
2. The roll rotates while heated cleaning liquid is sprayed on to the roll.
3. At the end of the wash cycle liquid is drained back to tank for re-use.
4. High pressure water is sprayed on the roll removing all ink residues and cleaning liquid.
5. An air stream blows off excessive water.



### FW Inline Cleaning

<b>Machine Dimensions LxWxH</b>	1900 x 650 x 1900 mm (75" x 26" x 75")
<b>Trolley Dimensions LxWxH</b>	1470 x 800 x 1050 mm (58" x 32" x 41")
<b>Washing width</b>	1650 mm (65") *
<b>Max. washing height</b>	1800 mm (71")
<b>Min. washing height</b>	350 mm (14")
<b>Power supply</b>	3 x 400V + N + PE, 50 Hz (3 x 480V + PE, 60 Hz)
<b>Air supply</b>	350-600 L/min, 6-7 bar (12.5-21 CFM, 85-100 PSI)

\* Other sizes on request





- Safe and Easy Washing
- Short Washing Time
- Made for All Ink Types
- Re-circulation of Cleaning Liquid
- Clean All Press Parts
- Minimal Maintenance

Technical Manager  
Mr. Maurer  
Folienprint Rako GmbH  
Germany  
PK 250 WR FrontLoad Parts Washer

*"The machine is very easy to load from the front compared with other machines that would have to be loaded from the top. This is also one of the reasons for deciding on the Flexo Wash solution"*

## Parts Washers - EasyLoad

The fully automatic washing units are designed for easy handling of press parts. It is possible to wash doctor blade chambers, ink trays, ink sumps and other removable press parts used with all types of inks, varnishes etc. The units can be equipped with a trolley, which makes the handling even easier.

The quick and easy wash operation allows press operators to focus on press make-ready functions and thus reducing the changeover time and the labour involved in washing. This results in reduced down time, constant print quality and a safe and healthy cleaning and working environment.

The Parts Washers can be customized according to each customer's specific needs. They are made with a moving nozzle arm, which ensures a more dynamic liquid flow, a higher pressure and thus an improved wash result.

Flexo Wash parts washers can be built to clean with solvents, alkaline liquids, ecofriendly liquids and distillable eco-friendly liquids.

### Three Types – Standard, ATEX or ATEX Electrical:

- The standard unit is controlled by a micro processor and recommended when non-flammable and environmentally-friendly cleaning liquids are used in the machine.
- The ATEX units are ex-proof according to ATEX guidelines and required when solvent is used for washing the press parts in the machine. These units are made with pneumatic control system.
- The electrical ATEX units are ex-proof according to ATEX guidelines and required when solvent is used for washing the press parts in the machine. These units are made with a PLC control system and with electrical pumps.



## Two Stage Closed Wash Cycle:

The Wash & Rinse Series offers an automatic two stage cleaning process with separate tanks for wash and rinse:

- Wash liquid is sprayed over the press parts at high pressure. After wash the liquid is drained back to the tank through filters for re-use.
- The parts are rinsed with liquid/water. This can run back to the tank and then be re-used.

## Safe, Quick and Easy Washing:

1. Place the items to be washed in designated positions
2. At the end of the wash cycle the cleaning liquid is drained back to tank for re-use.
3. Automatic after rinse cycle (optional)
4. Lid opens leaving the parts to evaporate and dry (optional)

## Options and Accessories:

- Trolley with slide-in grid for easy handling of parts.
- High performance rotating nozzles for ink buckets.
- Flexible jets to focus spray on difficult to clean items.
- Racks for ink trays, cylinders and doctor blades.
- Cleaning of hoses.
- Automatic rinse at end of wash cycle - open system.
- Automatic rinse at end of wash cycle - closed circuit.
- Extra tank, pump and jets for 2. cleaning liquid.
- Distillation systems and complete piping between Parts Washer, tanks and distiller.
- Waste water treatment unit.



Parts Washer Model	PK 240 EasyLoad	PK 280 EasyLoad
Net Wash Area LxWxH	2120 x 1024 x 600 mm (83,5" x 40,3" x 23,6")	2520 x 1024 x 600 mm (99,2" x 40,3" x 23,6")
Recommended Print Width	500- mm (20"- )	500- mm (20"- )
Machine Dim. LxWxH*	2990 x 1529 x 2700 mm (117,7" x 60,2" x 106,3")	3390 x 1529 x 2700 mm (133,5" x 60,2" x 106,3")
Power Supply	3x400V+N+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+N+PE, 50 Hz (3x480V+PE, 60 Hz)
Compressed Air	6 bar, 650 L/min (85 PSI, 23 CFM)	6 bar, 650 L/min (85 PSI, 23 CFM)

\* Height with open lid





- Safe and Easy Washing
- Short Washing Time
- Made for All Ink Types
- Recirculation of Cleaning Liquid
- All Stainless Steel
- Easy Loading/Unloading
- Minimal Maintenance

*"There is no doubt that cleaner parts make presses more productive, and with turnarounds continuing to shorten, we cannot afford to waste time and substrate resolving streaks and other defects caused by dirty parts. Considering how much we have invested in the two new presses, and the value of the work we process, the Flexo Wash technology has been good value and shown a fast return on investment."*

Roberto Ribas Monteiro  
Monteiro, Ribas Embalagens Flexiveis SA  
Portugal  
PK 350 WR FrontLoad ATEX Electric

## Parts Washers - FrontLoad

The PK FrontLoad is a very user-friendly parts washer, where the press parts are easily slid into the unit from the front.

The fully automatic washing units are designed for easy handling of press parts. It is possible to wash doctor blade chambers, ink trays, ink sumps and other removable press parts used with all types of inks, varnishes etc. The units can be equipped with a trolley, which makes the handling even easier.

The quick and easy wash operation allows press operators to focus on press make-ready functions and thus reducing the changeover time and the labour involved in washing.

The Front Load units are always built with customized wash area according to each customer's specific needs.

Flexo Wash parts washers can be built to clean with solvents, alkaline liquids, ecofriendly liquids and distillable eco-friendly liquids.

### Three Types – Standard, ATEX or ATEX Electrical:

- The standard unit is PLC-controlled and recommended when non-flammable and environmentally-friendly cleaning liquids are used in the machine.
- The ATEX units are ex-proof according to ATEX guidelines and required when solvent is used for washing the press parts in the machine. These units are made with pneumatic control system.
- The electrical ATEX units are ex-proof according to ATEX guidelines and required when solvent is used for washing the press parts in the machine. These units are made with a PLC control system and with electrical pumps.



II 2G c IIB T3

## Two Stage Closed Wash Cycle:

The Wash & Rinse Series offers an automatic two stage cleaning process with separate tanks for wash and rinse:

- Wash liquid is sprayed over the press parts at high pressure. After wash the liquid is drained back to the tank through filters for re-use.
- The parts are rinsed with liquid/water. This can run back to the tank and then be re-used.

## Customized Wash Areas:

All units are customized according to customer specifications. This includes special racks and different types of high performance nozzles that are optimised for the specific application.

The machine is designed to the specific press parts, which makes it easy for the operator to slide the parts into the machine. The nozzles will quickly and efficiently wash all the press parts.

## The Different Wash Area Layouts are:

- *Tray Rail:* For trays placed in upright position. With side spray for optimised liquid flow over the parts.

- *2-Story:* For various parts. Gives double wash area.
- *Sliding Grid:* For pans and smaller parts. The depth of the machine is used in the best possible way.
- *Grid:* The most flexible solution for larger parts such as ink trays and chambers.
- *Trolley with Slide-in Grid:* The parts can be loaded on the trolley at the press; driven to the Parts Washer and the grid with the parts on can easily be slid into the cleaning unit. After finished cleaning process the grid with the parts can be removed from the unit and the parts can be driven back to the press on the trolley. In this way the operator only needs to handle the parts once.
- *Rotating Nozzles:* For targeted cleaning of ink buckets.

## Options and Accessories:

- Distillation systems and complete piping between Parts Washer, tanks and distiller.
- Transport trolley for press parts.
- Hose cleaning.
- Basket for small parts.
- Automatic liquid filling system.
- Waste water treatment unit.

Parts Washer Model	PK 250 FrontLoad	PK 300 FrontLoad	PK 350 FrontLoad
Net Wash Area LxWxH	2000 x 1800 x 700 mm (79" x 71" x 28")	2500 x 1800 x 700 mm (98" x 71" x 28")	3000 x 1800 x 700 mm (118" x 71" x 28")
Machine Dim. LxWxH*	3405 x 2259 x 2764 mm (134" x 88,9" x 108,8")	3905 x 2259 x 2764 mm (153,7" x 88,9" x 108,8")	4405 x 2259 x 2764 mm (173,4" x 88,9" x 108,8")
Power Supply	3x400V+N+PE, 50 Hz (3x480V+N+PE, 60 Hz)	3x400V+N+PE, 50 Hz (3x480V+N+PE, 60 Hz)	3x400V+N+PE, 50 Hz (3x480V+N+PE, 60 Hz)
Compressed Air	6 bar, 650-3200 L/min (85 PSI, 23-113 CFM)	6 bar, 650-3200 L/min (85 PSI, 23-113 CFM)	6 bar, 650-3200 L/min (85 PSI, 23-113 CFM)

\* Height: With lid open

- Larger units available on request





- Quick and Gentle Wash Operation
- Conveyor Belt for easy Loading of Plates
- Minimum Labour Involved
- Clean and Dry Items after a few Minutes
- No Wear or Tear on Plates
- Minimum Maintenance

## Plate Wash

The fully automatic Plate Washers are designed to wash print plates and plates from letterpresses in a very gentle way leaving them 100% clean and dry; ready for immediate reuse.

Manual washing can easily damage the plates. It is time consuming and often seen as a problem area from a health and safety point of view. Let operators focus on the printing process and press-make-ready functions.

All Flexo Wash Plate Washers are created to wash all types of inks and designed for environmentally friendly cleaning liquids.

The machines are made of steel and other highly resistant quality material, which ensures a long lifetime of the product and a very low degree of maintenance.

In 1 hour the machine can clean about 20 meters of plates.

### Different Models:

The PW 82 - PW 180 is for horizontal cleaning of plates. The units are controlled by a microprocessor with a user-friendly touch screen, where the wash programmes are adjusted. After the print job all plates are placed on the conveyor belt, which automatically takes them through the entire wash process.

*Flexo Print Manager  
Dhanhay Oarboodeen  
Nampak Flexible  
KwaZulu-Natal, South Africa  
PW 82 WR Plate Washer*

*"Cleaning is always a filthy job. Before we got the Flexo Wash unit, we spent a lot of time cleaning up the aftermath of manual cleaning. Now we simply place plates on the conveyer. The machine runs in a closed loop system, so we don't have any spillage on the floor. Staff who used to spend time on cleaning now has time to do other tasks."*

Director  
Gaurav Vora  
Dynaflex  
India  
PW 82 WR Plate Washer

"The machines are very easy to use,  
and there has been a visible difference  
post cleaning."

## Various Applications:

The Wash & Rinse Series offers a automatic two stage cleaning process, where the first stage is cleaning and the second stage is rinsing.

## Two Types of Rinsing Systems are available:

- Open rinse system (WRO) with fresh water, which is led to the drain.
- Closed circuit rinse system (WR) where water is recirculated from a separate build-in tank. With this system no drainage from the machine is required.

## Quick and Efficient Washing Process

- The plates are easily placed on the conveyor belt. The plates will automatically be drawn into the machine.
- The unique combination of specially made soft, moving brushes and adequate cleaning liquid ensures an efficient but yet gentle washing of the plates.

- The rinse water removes the final ink residues and cleaning liquid.
- After the warm air blowing the plates are left 100% clean, dry and ready for immediate reuse. The entire process only takes a few minutes.

## Eco-Friendly Cleaning:

All Plate Washers are designed to clean all types of inks. The eco-friendly cleaning liquids from Flexo Wash are specially developed to efficiently remove the different types of inks from the plates in only a few minutes.

## Options and Accessories:

- Belt for unloading of plates.
- Extended inlet conveyor belt.

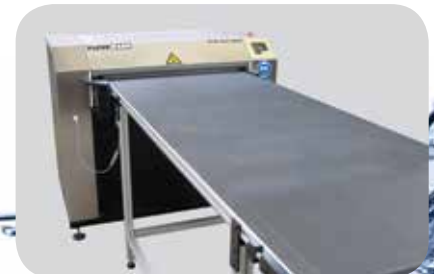
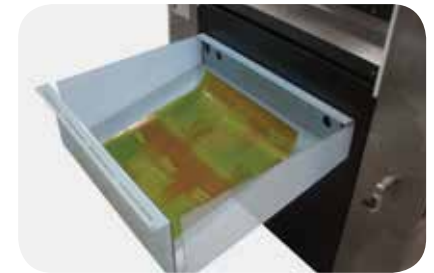
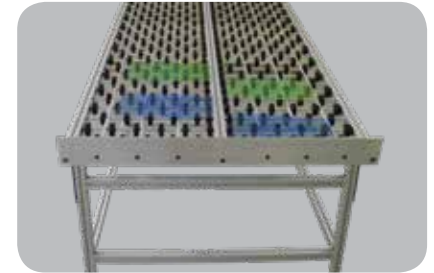


Plate Washers Model	PW 82	PW 92	PW 115	PW 130	PW 180
Max. Plate Width	820 mm (32")	920 mm (36")	1150 mm (45")	1300 mm (51")	1800 mm (71")
Machine Dim LxWxH*	3640 x 1340 x 1150 mm (143"x 53"x 45")	3740 x 1440 x 1150 mm (151"x 57"x 45")	3970 x 1700 x 1150 mm (156"x 67"x 45")	5050 x 1920 x 1150 mm (199"x 76"x 45")	1050**x 2320 x 1150 mm (41"x 91"x 45")
Power Supply	220/240V+PE, 50Hz (220/240V+PE, 60Hz)	220/240V+PE, 50Hz (220/240V+PE, 60Hz)	220/240V+PE, 50Hz (220/240V+PE, 60Hz)	220/240V+PE, 50Hz (220/240V+PE, 60Hz)	3 x 400V+PE, 50Hz (3 x 480 V+PE, 60Hz)

\* Size incl. inlet conveyor belt and excl. outlet conveyor belt

\*\* Unit length only, belt and unloading table have customized measurements  
Alternative sizes upon request



- Quick and Gentle Wash Operation
- No Liquid Inside of Sleeve
- Minimum Labour Involved
- Clean and Dry Items after a few Minutes
- No Wear or Tear on Plates or Sleeves
- Minimal Maintenance

Print Supervisor  
Mogens Gloggenhøisen  
Amcor Flexibles Raackmann  
Denmark  
SL 4V Sleeve Washer

## Sleeve Washers

The fully automatic Sleeve Washers are designed to wash laser-engraved print sleeves as well as plates mounted on sleeves.

Manual washing can easily damage the sleeves. It is time consuming and often seen as a problem area from a health and safety point of view. Let operators focus on the printing process and press-make-ready functions.

All Flexo Wash Sleeve Washers are created to wash all types of inks and designed for environmentally friendly cleaning liquids.

The machines are made of stainless steel and other highly resistant quality material, which ensures a long lifetime of the product and a very low degree of maintenance.

### Different Models:

The SL 2200 Sleeve Washers are for cleaning of one sleeve, which is loaded horizontally in the unit. The unit is controlled by a microprocessor.

The SL 6V is made to clean up to six sleeves simultaneously. In this model the sleeves are loaded vertically in the unit. The unit are controlled by a PLC with a user-friendly touch screen, where various wash programmes are available.

*"Sleeves are very easily inserted in the unit, the doors are closed and the start button is activated. 15 minutes later the totally clean and dry sleeves can be taken directly to storage. Compared to having a wash unit for only one sleeve, we are today, with the SL 4V, saving around 10 man hours per day and the operator can now focus on other press-make-ready functions instead of washing."*

## Various Sleeve Dimensions:

All Flexo Wash Sleeve Washers are adjustable, which makes it possible to wash sleeves of different sizes.

Different adaptors make it possible to wash various sleeve diameters in the same unit. The special made rubber coated adaptors ensure that no liquid enters the inside of the sleeves.

## Washing Process:

- Sleeves are easily loaded into the unit and fixed by adequate adaptors, which are made to avoid liquid entering the inside of the sleeve.
- The unique combination of specially made soft rotating brushes and adequate cleaning liquid ensures an efficient but yet gentle washing of the sleeves.
- The high pressure water rinse removes the final ink residues and cleaning liquid.

- After the air blowing the sleeves are left 100% clean, dry and ready for immediate reuse. The entire process only takes a few minutes.

## Eco-Friendly Cleaning:

All Sleeve Washers are designed to clean all types of print sleeves and all types of inks. The eco-friendly cleaning liquids from Flexo Wash are specially developed to efficiently remove the different types of inks from the sleeves in only a few minutes.

## Options:

- Automatic liquid filling.
- Waste water treatment.
- XL version with larger outer diameter for the sleeves
- XL version with extended height and outer diameter for the sleeve

Sleeve Washers model	SL 2200	SL 6V
No. of Sleeves	1	6
Max. Sleeves Dim.	OD 340 x 1700 mm (OD 13"x 67")	OD 280 x 1700 mm (OD 11"x 67")
Machine Dim (LxWxH)*	2335 x 1002 x 1871 mm (91.9"x 39.4"x 73.7")	3500 x 2000 x 2900 mm (138"x 79"x 114")
Power Supply	3x400 V+N+PE, 50 Hz (3x480V+PE, 60 Hz)	3x400V+N+PE (3x480V+PE)
Compressed Air	6-7 bar, 600 L/min (85-100 PSI, 21 CFM)	6 bar, 1000 L/min (1000 PSI, 35 CFM)

\* Height with lid open  
- Alternative sizes available upon request





## Drum Wash

The Drum Wash is for cleaning of 100L and 200L drums. The drums are easily loaded into the machine. Just place it over the nozzle, turn the handle, close the lid and press start.

It is an EX-proof machine for cleaning with solvents.

### Safe, Quick and Easy Washing:

1. Place the drum to be washed in the machine.
2. Close the lid, set required washing program and press start.
3. The drum is cleaned on the inside by means of a rotating jet.
4. When required, liquid can be pumped to sedimentation tank by turning the handle.
5. Sludge can then be drained off before liquid can be returned to the wash unit.
6. The machine will stop automatically after ended wash cycle.



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	PK Drum Wash
Machine Dimensions LxWxH	2100 x 1300 x 1500 mm (82.7" x 51.2" x 59.1")





# Bucket Wash

With the Bucket Wash you are able to wash up to 2-4 small buckets at a time. Place the buckets over the nozzles, close the lid and press start. This machine can wash with either solvents or alternative liquid.

Different models exist for different types of ink:

1. Water based ink and plastic buckets
2. Solvent based ink
3. UV-based ink

## Safe, Quick and Easy Washing:

1. The buckets are placed in the adequate holders in the machine and the lid is closed.
2. Close the lid, set required washing program and press start.
3. Liquid is sprayed onto the parts.
4. The parts are rinsed with hot water or the same liquid as for wash, leaving the parts ready for immediate use.
5. At the end of the wash cycle the cleaning liquid is drained back to the tank for re-use.
6. The lid is opened leaving the parts to dry.



	PK Bucket Wash
Machine Dimensions LxWxH	1550 x 1200 x 1250 mm (61" x 47.2" x 49.2")
Wash area	1150 x 900 x 400 mm (45.3" x 35.4" x 15.7")





## Distillers

The Flexo Wash distillers are the most modern distillation units worldwide.

All distillers perform a high output during fully automatic operation, which follows three simple steps:

- The solvent is automatically filled into the distiller from the dirty solvent tank.
- The process works continuously until all solvent has been distilled.
- Drainage of the viscous residue through valve - no cleaning necessary, the unit is immediately ready for the next operation.

## Solvent Packages

We offer a complete solvent reclaim system where the Parts Washer and Distillation System (distillation unit, clean and dirty solvent tank) are connected and work in a closed loop.

- Water cooled condenser
- Fully automatic distillation process
- High reclaim percentage
- Clean and dirty solvent tanks

The Parts Washers from Flexo Wash can also be connected to already existing distillers.



Distiller	DI-500	DI-1200	DI-2400	DI-3300	DI-5500
<b>Total Vessel Volume</b>	70 L (18 Gal)	140 L (37 Gal)	160 L (42 Gal)	300 L (79 Gal)	500 L (132 Gal)
<b>Approx. Dist. Rate*</b>	7 - 20 L/hour (2 - 5 GPH)	20 - 60 L/hour (8 - 18 GPH)	40 - 90 L/hour (11 - 24 GPH)	60 - 140 L/hour (16 - 37 GPH)	100 - 220 L/hour (26 - 58 GPH)
<b>Distiller Dimensions</b>	1215 x 1240 x 1600 mm (48" x 49" x 63")	1400 x 1000 x 2700 mm (65" x 39" x 104")	1300 x 1000 x 2700 mm (59" x 41" x 104")	2000 x 1300 x 2900 mm (77" x 51" x 113")	2200 x 1100 x 3200 mm (87" x 43" x 126")

\*Depending on solvent type



# Eco-Friendly Cleaning Liquid

The working environment as well as the environment around us have always been the most important parameter to Flexo Wash.

The Flexo Wash equipment is built to clean with environmentally friendly cleaning liquids and to consume as little cleaning liquid as possible. The liquid is always filtrated and recirculated and will be reused in the machines.

Flexo Wash has special liquids to solve any demand for cleaning all different ink types and applications.

The liquids are developed to meet today's demands of high print quality and productivity. This is only possible if you make sure that your aniloxes, print plates and other press parts are kept clean.

With the REACH regulations and the VOC directive the environmental concern has become an even more important topic. Flexo Wash also has VOC free liquids for cleaning of UV and solvent based inks.

The Flexo Wash liquids are of high durability and are formulated for the longest stand time, trouble free operation and long service intervals. This helps to make eco-friendly cleaning liquids an affordable alternative and thus provide a safer cleaning of parts and a better environment.



## ANILOX CLEANING

- FW Anilox + Cleaner is designed for all ink types.
- Waterbased alkaline liquid based on natural soda.
- Harmless to the rolls
- Alusafe liquids

## CLEANING OF WATER BASED INKS

- FW Aqua Cleaner is a water based alkaline liquid for cleaning of press parts
- Non corrosive
- Alusafe liquids

## CLEANING OF SOLVENT BASED INKS

- FW Solvent Cleaners are an environmentally friendly substitute for solvents
- Harmless to all types of metal
- Non flammable liquids
- High flash point
- Liquid that can be distilled
- VOC free liquid

## CLEANING OF UV INKS

- The FW UV Cleaners are specially designed for cleaning of UV inks
- Long life time
- Guaranteed and proven harmless to the delicate screens





**FLEXOWASH**

Leading Cleaning Technology

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V202/20170301