

WIDE  
WEB

# PRODUCT CATALOGUE

# SLEEVE WASHING

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*SL .NXT, SL 6V- & SL 3000 DLE-series*

**FLEXO WASH**  
Leading Cleaning Solutions

# CLEAN ALL TYPES OF SLEEVES IN ONE UNIT

Flexo Wash offers a variety of equipment for cleaning of sleeves of all dimensions and types. The Sleeve Washers will clean all types of rubber sleeves, laser-engraved print sleeves, plates mounted on sleeves etc.

## GENTLE & EFFICIENT CLEANING

The unique technology combines the use of cleaning liquid, brushes, high-pressure water and compressed air, which ensures a gentle and efficient cleaning of the sleeve.

## FULLY ADJUSTABLE

All Flexo Wash Sleeve Washers are adjustable, which makes it possible to wash sleeves of various lengths. Rubber coated cones make it possible to wash various sleeve diameters in the same unit. The rubber cones ensure that liquid does not enter the inside of the sleeves.

**DLE**  
Also available as  
DLE sleeve cleaner:  
**SL 3000 DLE**



Use together with  
Recirculation Unit



## TAKE CARE OF YOUR SLEEVES

- Fully automatic and extremely gentle cleaning process for all types of ink
- Minimal maintenance is required
- The unit have a long life time
- Environmentally friendly cleaning

### SL 6V

- For cleaning of up to 6 sleeves
- Max diameter:  
300 mm (11.8")
- Max length:  
1700 mm (69.9")

### SL 6V XL

- For cleaning of up to 6 sleeves
- Max diameter:  
350 mm (13.8")
- Max length:  
1700 mm (69.9")

### SL 6V XXL

- For cleaning of up to 6 sleeves
- Max diameter:  
350 mm (13.8")
- Max length:  
2200 mm (86.6")

### SL 8V

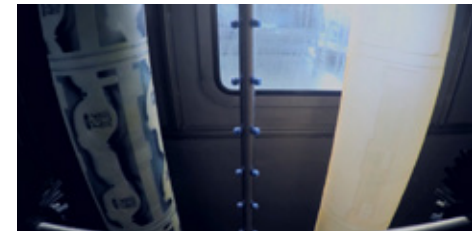
For cleaning of up to 8 sleeves

- Max diameter:  
280 mm (11.8")
- Max length:  
1700 mm (69.9")

## BEFORE WASH



## AFTER WASH



## SL 2000-2500 .NXT

- For cleaning of one sleeve
- Max diameter:  
340 mm (13.4")
- Max length:  
SL2000.NXT: 1300 mm (51.2")  
SL2500.NXT: 1800mm (70.9")

# HOW DOES IT WORK?

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## EFFICIENT WASHING PROCESS

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 AND ACCESSORIES

- 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

### WASHING

The rotating brushes are activated and are washing the sleeve with the cleaning liquid.

This unique combination of the FW cleaning liquid and soft brushes ensures an effective cleaning without any risk of damaging the plate or sleeve.

The sleeve is rotating during the entire process thus ensuring an even and thorough cleaning.

After wash, the liquid is drained back to the tank through a filter for reuse.

### RINSING

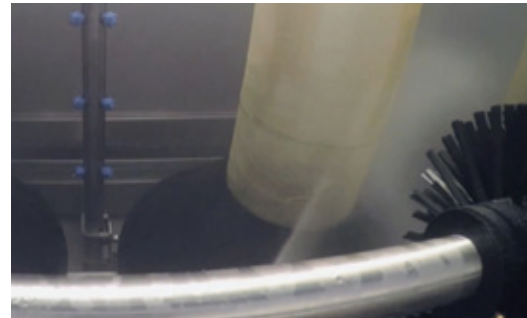
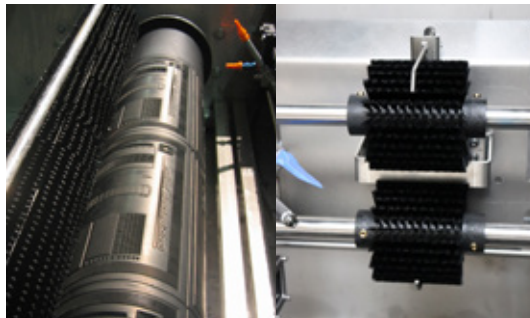
Thereafter the sleeves are after rinsed with high-pressure water.

### DRYING

Finally the water is removed from the sleeve by compressed air.

The sleeve rotates during the entire process, which only takes about 10 minutes.

Afterwards the sleeve is clean and dry and can be stored or put into production immediately.



# HANDLING & LOADING

There are two types of Sleeve Washers by Flexo Wash:

- SL .NXT & SL 3000 DLE: Both toploaded units with room for washing one sleeve at a time
- SL 6V: A frontloaded unit with room for washing up to 6 sleeves simultaneously

## LOADING ONE-SLEEVE UNIT

- The entire process is fully automatic. The operator only has to put the sleeve into the machine and press the start button.
- The sleeve is easily put into the unit and placed in adequate holders with soft end sealing which will keep the sleeve ends tight and avoid cleaning liquid and water getting inside the sleeve.
- This holder also makes it possible to wash different types of sleeves in the unit.

## LOADING MULTI-SLEEVES UNIT

- The entire process is fully automatic. The operator only has to put the sleeve into the machine and press the start button.
- The sleeves are easily put into the unit vertically and are safely locked in place with the special rubber cone holders. The cones are designed to ensure that no cleaning liquid and water is entering the inside of the sleeve.
- This holder also makes it possible to wash sleeves of various sizes in the unit. (However, only one size at a time).





# FEATURES



Easy and improved pull-out tank



Improved lid design



Better and faster draining



Liquid filling & emptying system



Liquid level indicator



Inclination of tub for less liquid carry-over



Automatic lid opening



Easy adjustment

# MACHINE DETAILS

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## MICROPROCESSOR CONTROL

Enables easy change various settings as e.g. washing time, rotation speed and temperature. The washing programs have been pre-programmed according to the following standard setting:

- Program 1: Washing time 5 minutes
- Program 2: Washing time 10 minutes
- Program 3: Washing time 20 minutes

The settings are password protected - but can be changed.

## PLC CONTROL (only SL 6V)

The user friendly Siemens S7-1200 PLC enables the operator to easily change the various program settings e.g. washing time, rotation speed and temperature.

## PUMPS

One diaphragm pump for spraying of cleaning liquid and another high-pressure pump for high-pressure rinse water.

## FILTER

The 50 microns filter for collection of the ink particles, gives a longer lifetime of the cleaning liquid. It is placed under or behind the washing unit and can easily be changed or cleaned. Should normally be changed once a month or after approx. 100 wash cycles.

## NOZZLES

Two types of nozzles are installed; air nozzles made of PWDF and high pressure nozzles made of stainless steel.

## TANK

One tank for cleaning liquid is located under or behind the washing unit and it has a built-in heating element. Cleaning liquid can easily be filled into the tank through the filling funnel. Furthermore the tank has a valve in the bottom, which makes it easier to empty it.

## LIQUID LEVEL (only SL 2200)

The tank has a indicator to visualise the liquid level and a high level switch.

## SENSORS (only SL 2200)

Three sensors determine the route of the slide in proportion to the length of the sleeve.

# MACHINE DETAILS

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## ALARMS

Filter alarm: Indication that it is time to change the filter.

Service alarm: Alert the operator to arrange service for the machine.

Liquid level alarm: Low liquid level. No washing is possible before the liquid level is back to normal.

Fuse alarm (only SL 6V): Alert when a fuse is blown.

Heat alarm (only SL 6V): If the liquid is not heated or if the heater is switched off.

Motor alarm (only SL 6V): Alert in case of motor failure.

## SLEEVE ADAPTORS (only SL 2200)

Inside the machine an adaptor is mounted in each end. This adaptor is made to fit the specific sleeve and consists of 3 parts; a steel plate, a rubber seal and a POM disc to fit inside the sleeve. The left adaptor is equipped with an axial cylinder to hold the sleeve.

## EXHAUST

The unit is prepared for exhaust. When the unit is connected to your ventilation system, the exhaust can be connected to the Micro Processor or PLC control system - thus opening and closing automatically.

## RINSE WATER

Disposal of liquid waste and rinse water must be in accordance with local rules and authorities. It is the customers responsibility to ensure that any disposals are approved by all the required local authorities.

## CLEANING LIQUID

The cleaning liquid can be heated by a heating element.

The Sleeve Washers works with the following cleaning liquids:

Water based inks:

- FW Aqua Cleaner: Water based liquid. The liquid is mixed 1:10 with water.

UV/Solvent Based inks:

- FW UV/Solvent Cleaner 1a: Liquid for solvent based inks and UV based inks.

Combination of water based and UV/Solvent based inks:

- FW UV/Aqua Cleaner 2: This liquid dilutes water based inks as well as UV/Solvent based inks.

# CUSTOMER FEEDBACK

In order to keep up with the amount of sleeves that needed washing every day, Danish printer company Amcor invested in a multi -sleeve unit from Flexo Wash.

## TIME SAVER

*"Compared to having a wash unit for only one sleeve, we are today, with the Sleeve Washer, saving around 10 man hours per day", Print Supervisor Mogens Gloggenhser explains, "And the operator can now focus on other press-makeready functions instead of washing."*

When asked about comparing the Sleeve Washer with manual washing of the sleeves, Gloggenhser replies: *"We have always used automatic equipment to wash our sleeves and I can only imagine how many man hours could be saved by going from manual washing to the Sleeve washer from Flexo Wash."*

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*"We never have to worry about problems occurring from dirty sleeves"*

## ALWAYS 100% CLEAN SLEEVES

The Amcor Sleeves are taken to the wash room directly after printing, where they are cleaned within 2-3 hours before being left for storage.

*"In this way we always have 100% clean sleeves and we never have to worry about problems occurring from dirty sleeves",* says Gloggenhser and continues:

*"The 10 minute wash cycle fits our working routine very well and the flow of sleeves from printing to washing to storage works very well for us."*