



# Laser Anilox Cleaning

Flexo Industry



# CleanLink

- to your cleaning unit

- Remote service
- Real-time data
- Operator app

Get access to real-time data and the status of the machine, all at your fingertips! Whether you're on the go or in the office, you can monitor the performance of your cleaning unit and make adjustments as needed. No more guessing or wondering if your machine is working properly - the CleanLink system gives you the peace of mind you need to focus on other important tasks. Plus, with remote service capabilities, you can have any issues addressed quickly and efficiently.

Read more at [flexowash.com/cleanlink](https://flexowash.com/cleanlink) or simply scan the QR-code →



# Anilox Laser Cleaning

Get a waste-free, completely safe, and automatic anilox cleaner that will give you a more sustainable cleaning solution. The FW LASER Anilox Cleaners can be installed without requiring water supply, drain or safety equipment.

## Our Solution

- Waste-free and completely safe
- Only requires air and power
- Sustainable cleaning method



# Anilox Laser Cleaning

## The Flexo Wash Way

The FW Laser Anilox Cleaners are developed with newest laser technology and software systems. It is a waste-free and sustainable cleaning method with no liquid handling or consumption.

### Loading

Place the aniloxes as is on the traction stations. Choose the anilox from the database where all the properties are defined (diameter, length, lines)



### Extraction

The extraction system removes all dust and fumes, making sure no nano particles will enter the room.  
The cleaning programme stops automatically when the cleaning and extraction process is finalized.

### Cleaning

The high-frequency laser will clean the anilox with a precise defined pulse which ensures an even distribution of energy.



# Case Story

The Danish manufacturer of paper bags and carriers, Scanbag A/S, has installed a laser anilox cleaner from Flexo Wash for its production plant in Skive. The FW 2000 model, which was introduced in 2018, is the first laser model in the company's anilox cleaning range that dates back 25 years and involves more than 3,000 installations.

With anilox cleaning being such a fundamental part of the flexo printing process, the new laser technology is ideal for 100% cleaning without damage to the

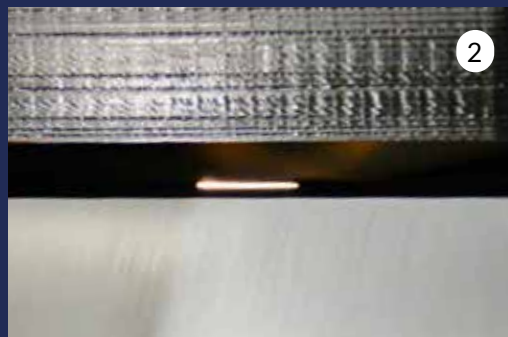
expensive rolls, with the guarantee of consistent print quality and reduced downtime.

Speaking for Scanbag, printer Søren Bligaard stated: "We are very satisfied with the cleaning results and the easy handling of the aniloxes. We tested another system, but it damaged the rolls. With the Flexo Wash system we have no issues at all."

The new Flexo Wash laser cleaner sits well with the company's ethos of quality, safety and focus on the environment.

*"We are very satisfied with the cleaning results and the easy handling of the aniloxes. We tested another system, but it damaged the rolls. With the Flexo Wash we have no issues at all."*

1: Loading. 2: Cleaning. 3: Extraction through a 3-filter configuration.



# Anilox Laser Cleaning

## How does it work?

Get a waste-free, completely safe and automatic anilox cleaner that will give you a sustainable cleaning solution.  
The FW LASER Anilox Cleaner only requires air and power.

Before

After







1



2



3



4



5



6



1. When loading the anilox simply place it on the traction system - no adaptor is needed.
2. Class 1 laser system which is safe under all conditions of normal use - no need for safety goggles or other safety equipment.
3. By choosing the LaserX or LaserX2 you can get shorter cleaning time with same high degree of safety.
4. Database over with anilox inventory that contains data regarding cleaning and alarms. The data is available directly on screen but can also be accessed via LAN connections.
5. The movable traction stations make it possible to clean aniloxes of various length in the same unit.
6. Before and after: The laser cleaning system provides high-quality cleaning results.
7. The easy accessible filter consists of two different combination filters. Both a filter mat, a HEPA and an active carbon filter are integrated ensuring that all particles are collected within the unit by the extraction system.





# LIQUID OR LASER?

## Interview

# Liquid or laser cleaning of aniloxes?

Flexo Wash offers two ways to clean your expensive and delicate aniloxes:

- Cleaning with liquid and high-pressure water
- Cleaning with laser technology

Both give perfect cleaning results and will reduce your downtime and expenses from printing with dirty aniloxes. But which is best for you and your needs?

*Below you will find an interview conducted by Area Sales Manager, Mette Laursen with our American colleagues Ryan Potter (Vice President, Flexo Wash LLC) and Patrick Potter (President, Flexo Wash LLC) giving an insight into the answer to this question.*

**Patrick and Ryan, today many printers in the label and flexible packaging industry use the very well known system of cleaning with liquid. But many of these printers maybe have an anilox cleaner that needs replacement. So, Patrick and Ryan, how should they choose this?**

**Patrick:** Sure, Mette, it's a great question and one that we get pretty frequently. It really comes down to how they work in their production process today. By offering both liquid and laser cleaning, it allows them to step back and look at their current process to determine what is the best method of cleaning.

**Ryan:** And a lot of factors goes into that: How many jobs is the converter running per day? Are they changing over aniloxes pretty frequently, and how many aniloxes are they trying to clean during that particular shift? Do they have a large anilox inventory? Do they have spare aniloxes that they can put in? All of these factors feed into a decision because time is really one of the most important factors when you are deciding between liquid and laser anilox cleaning. And then there is also some other questions around any type of corporate mandates, or concerns around not having access to a drain or water with liquid cleaning. So, we try to step back with each customer, and discuss their particular circumstances to determine the best method of cleaning.

**So, Ryan, what are the advantages of laser cleaning? What about all the talks about laser cleaning destroying aniloxes?**

One of the main advantages of laser cleaning is that its a simple and easy operation. The operator will just open the door, he can either scan the anilox with an RFID chip or barcode reader, or he can input the anilox ID-number. At that point the machine will know all the specifications necessary for the proper cleaning, and he closes the lid, hits start and the machine will run.

*In regards to damage - Flexo Wash spent a lot of time not only developing the best anilox cleaner, but also the safest laser anilox cleaner. There is many safety functions to prevent the anilox from being damaged during the cleaning proces.*

**What about waste stream when it comes to laser?**

**Ryan:** With the laser anilox cleaner there is no waste stream. The only consumables there are, are filters for the vacuum system. What about liquid cleaning, what are the advantages here? And what about the talks about liquid cleaning only being daily cleaning and not deep cleaning? Actually, liquid cleaning has been around for nearly 25 years, and with over 4000 installations around the world, we know that it is the safest and the most effective means of cleaning your aniloxes.

It is good for daily deep cleaning. when the machine is working probably as it's intended to, you will be able to regain the full cell volume in a quick and efficient cleaning method. Liquid cleaning also offers in addition to time, the flexibility of the number of aniloxes you can clean. So, for a wide web converter or printer they can clean maybe one or two per 15-20 minute wash cycle, whereas a narrow web printer can clean between 1-9 aniloxes per cycle. So, it offers a great deal of flexibility.

For anyone that has a concern about the waste stream, we have so many different ways to work with them on that concern, to treat the effluent to make sure that it works with any of their corporate mandates or environmental questions.

**Thank you Patrick and Ryan. So, you say that it very much depends on the customer which system to choose?**

Absolutely, Mette. Clean is clean, and it's best to let the customer decide what method to use to achieve that.

# Anilox Laser Cleaning

## Which machine should I choose?

Factors like cleaning speed, how many aniloxes you wish to clean per cleaning cycle etc. determine which laser unit you should choose. On the pages you will find a brief introduction to the different units and their specifications - for more info ask your FW sales representative.



### FW Laser

Our safe & high-quality laser system gives you waste-free anilox cleaner that will ensure you a more sustainable cleaning solution without compromising the cleaning result.

### FW LaserX

All the same qualities as the standard laser but with improved technology, making it possible to clean twice as fast, but with the same high quality and degree of safety.

### FW LaserX2

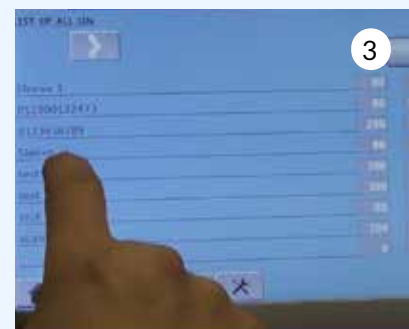
The ultimate high-capacity laser cleaning system with all the same qualities as the two others, but with a cleaning speed that reduces the cleaning time to only 25% of what the standard laser cleaner uses.

	Aniloxes per wash	Max diameter	Max cleaning length	Max weight per aniloxes:
FW 2000 Laser	1 - 4*	230 mm (9")	1730 mm (68")	200 kg (440lbs)
FW 3000 Laser	1 - 4*	300 mm (11.8")	2730 mm (107,5")	800 kg (1763,7lbs)
FW 4000 Laser	1 - 4*	300 mm (11,8")	3730 mm (146,9")	800 kg (1763,7lbs)
FW 2000 LaserX	1 - 4*	230 mm (9")	1730 mm (68")	200 kg (440lbs)
FW 3000 LaserX	1 - 4*	300 mm (11,8")	2730 mm (107,5")	800 kg (1764 lbs)
FW 4000 LaserX	1 - 4*	300 mm (11,8")	3730 mm (146,9")	800 kg (1764 lbs)
FW 2000 LaserX2	1 - 4*	230 mm (9")	1730 mm (68")	200 kg (440lbs)
FW 3000 LaserX2	1 - 4*	300 mm (11,8")	2730 mm (107,5")	800 kg (1764 lbs)
FW 4000 LaserX2	1 - 4*	300 mm (11,8")	3730 mm (146,9")	800 kg (1764 lbs)

\* Depending on configuration. Total maximum cleaning length reduces by 50 mm for each anilox

## Options and Accessories

- Q-cam
- Barcode Reader
- Automatic anilox identification (RFID) possible



1: Camera - watch the cleaning process in real-time on the display. 2: Easy access to the anilox details in the database either by Barcode Reader or Automatic anilox identification (RFID). 3: Cleaning data on each anilox is registered in the database.

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