

Operation, construction and application of ultrasonic anilox rollers washer.

QUICKER
SMART CLEANING SOLUTIONS 4Flexo

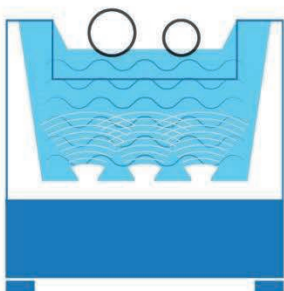


Cleaning anilox rolls using ultrasonic cleaners.

How does it work?



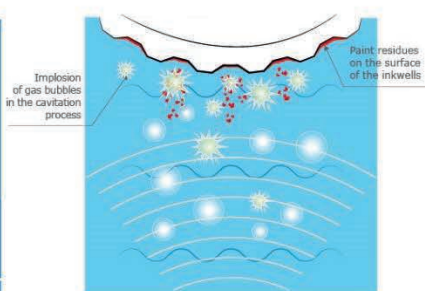
Anilox rolls in a bath with a professional -grade cleaning agent are subjected to ultrasonic waves



An electronic generator produces electric vibrations that are converted to ultrasounds in a piezoelectric transducer.

Ultrasounds are sound waves with frequencies above 16 kHz, inaudible to the human ear. They cause acoustic wind, radiation pressure and cavitation process in liquids

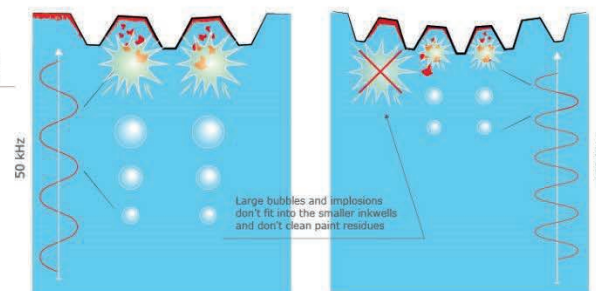
Cleaning with a shock wave that does not cause mechanical damage to the surface of the anilox rolls.



Cavitation involves the formation of very small vacuum bubbles in the liquid, their pulsation and implosion, resulting in a local pressure of up to several thousand bars.

In one cubic centimeter, millions of shock waves are created in 1 second, which causes the removal of dirt particles attached to the surface. The acoustic wind causes mixing of the liquid.

What frequency should you choose for effective cleaning of the anilox rolls used by your printing house?



If a screen ruling is less than 300L/CM, we choose a frequency of 50 kHz.

Lower frequencies prolong the process of the formation of larger bubbles, the implosion of which provides for a better cleaning of larger ink fountains of anilox rolls.

If a screen ruling is above 300L/CM, we choose a frequency of 100 kHz.

Higher frequencies shorten the process of the formation of smaller bubbles, which are more numerous, and whose implosions provide for a better and more thorough cleaning of smaller ink fountains of anilox rolls.



Ultrasonic anilox roller cleaning machine construction

- Washing and rinsing tanks
- Easy to operate pannel
- Ultrasonic transducers and generators
- Anilox roller support adjustment
- Cover
- Mechanical roller rotation
- Control panel
- Filtration system
- Dual operating frequency 50/100 kHz



Individually designed anilox washer

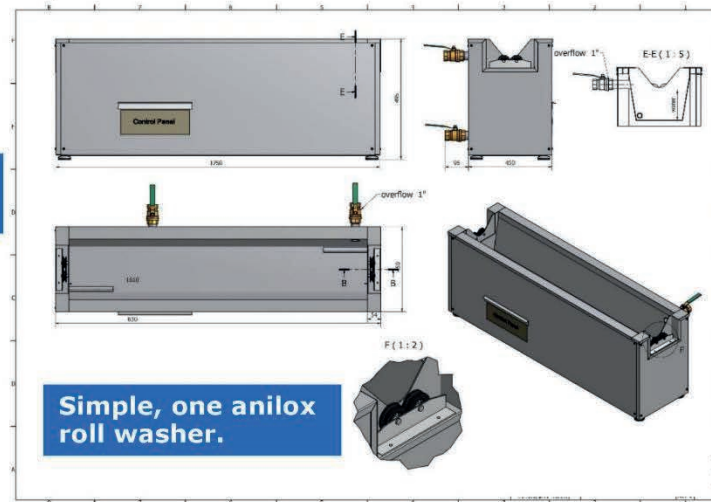


yes,
we
care!

Quick, safe and very easy2use.
Cost-efficient washing system.
High precision cleaning results.

To configure your anilox ultrasonic cleaner we need detailed information:

- how many section you need in the machine;
- technical drawing of your anilox roll or anilox sleeve;
- single or dual frequency? 50/100kHz.



Step by step cleaning process

- Prepare washing liquid
- Set up the appropriate width of the roller wash
- Degas the bath
- Set the required temperature (40-45 °C)
- Place the rolls in the washer
- Set frequency of washing 50/100kHz
- Set time of roller washing (25-30 minutes)
- Cooldown and rinse the roller in the washing section
- Wipe the anilox with a dust-free cloth
- Switch on bypass filtration (if equipped)



10 reasons to use ultrasonic cleaning

1

Cleaning efficiency

- The gentle and deep cleaning process leaves the rolls perfectly clean and ready to reuse.

100%



10 reasons to use ultrasonic cleaning

2

Definitely less chemicals

- You use only **40% of the chemicals** QUICKER U device with a built-in liquid circulation systems that allows re-use of the liquids.

40%



10 reasons to use ultrasonic cleaning

3

Shorter cleaning time

- A complete cleaning cycle takes no longer than **25 minutes.**



10 reasons to use ultrasonic cleaning



4

**Reduced
water consumption**

- **Up to 80% lower**
water consumption.



10 reasons to use ultrasonic cleaning

5

Effective cleaning of all types of ink

- Cleaning machine is designed to work with all types of inks.



10 reasons to use ultrasonic cleaning



6 Reduce risk to a minimum

- Zero chance of damaging anilox roll, what often happens during manual cleaning.



10 reasons to use ultrasonic cleaning

7 Reduced environmental impact

- Less water, less energy, less chemicals, lower disposal costs. The process is 100% safe to the operator.



10 reasons to use ultrasonic cleaning



8

The optimal solution

- Custom-made machine will meet the needs of your printing house.



10 reasons to use ultrasonic cleaning

9

Easy to use

- Simple installation, trouble-free operation, reliable and fully safe for the environment.



10 reasons to use ultrasonic cleaning



10

**Proven
effectiveness**

- Regular measurement of anilox rolls with the **Troika AniCam proves 100% cleaning efficiency.** You are guaranteed high and repeatable print quality.

