



# Avflex

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## Ultrasonic Anilox Cleaning Equipment

**Ultrasonic anilox cleaning equipment is probably the most important and valuable investment you can make for any Flexographic printing operation.**

It can rejuvenate old tired and plugged rollers and return them to serviceable condition and maintain the integrity of new expensive rollers quickly, easily and automatically for many years.

This reduces start up waste, downtime costs and OH&S associated with inefficient manual cleaning.

### How does it Work?

Ultrasonic cleaning uses cavitation bubbles induced and generated by high frequency pressure waves that crash into the surface millions of times per second.

The impact and agitation of these bubbles produce high forces on contaminants adhering to machine parts or metals and ceramics. This action penetrates blind holes and deep cell recesses of anilox cells.

### Why choose Ultrasonics?

Ultrasonics have been proven over 30 years to be the most successful and cost effective method of removing deep, dried ink and coating deposits from anilox rollers or sleeves used in flexographic printing.

As these ultrasonic waves rapidly move in an aqueous immersion bath there is no damage or wear to the parts surface (Ceramic or Chrome)

Ultrasonics provide a level of cleaning that is unsurpassed and impossible with manual cleaning methods.

Ultrasonics ensure full cell ink or coating volume delivery *every time* to ensure consistent print results *every time*.

There other major benefits include:

- Low running costs.
- Cleans with water and water-based cleaning agents
- Fully self contained unit that creates no mess.
- Automated and requires no operator input.
- Environmentally friendly, no OH&S or DG concerns.





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**Why choose Caresonic?**

Caresonic are the leading manufacturer of ultrasonic cleaning equipment specifically tailored for the Printing Industry. High build quality with state of the art componentry and electronics all manufactured in Europe.



Caresonic equipment is proven over the last 30 years for safe and efficient cleaning of laser engraved or laser etched rollers.

With over a 2000 systems in operation worldwide Caresonic guarantee the safe cleaning of any anilox roller or sleeve.

Caresonic use a Patented frequency sweep ultrasonic generator and automated roller rotation that automatically sweeps the frequency at +/- 2KHz over 100 times per second.

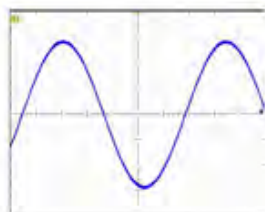
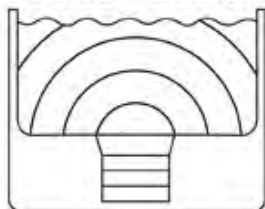


Additionally the roller rotates automatically on a precision motor driven servo to allow the energy to be distributed equally and evenly across and around the entire roller surface to clean thoroughly and completely.



Wide choice of sizes from massive 3.5m freestanding units for wide web, to 500mm mini benchtop units for label printers, Caresonic can cover any roller and with special adapters for new anilox sleeves in single, double or triple configurations, and can be custom made to suit individual needs.

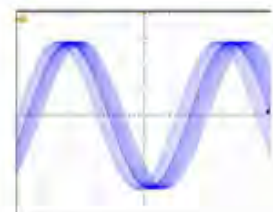
**TRADITIONAL SYSTEM**



■ 38 KHz ■ 39 KHz ■ 40 KHz

*Comparison of acoustic field distribution inside the liquid.*

**SWEEP SYSTEM**



*Comparison of the generators' electric output signals.*



Model Number	External Dimensions	Internal Dimensions	Capacity	Ultrasonic Power	Heater Power	Tank Material	Case Material	Weight	Volts	Drain
WW1 2500	2700(l) x 650(w) x 900(h)mm	2500(l) x 400(w) x 400(d)mm	220L	2400 watts	6KW	2mm 316L	1.5mm 304L	500 KG	3 ph	1"
WW 1 3000	320(l) x 650(w) x 900(h)mm	3000(l) x 400(w) x 400(d)mm	264L	2400 watts	9KW	2mm 316L	1.5mm 304L	700KG	3 ph	1"
WW 1 3500	3700(l) x 950(w) x 900(h)mm	3500(l) x 700(w) x 650(d)mm	539L	3600 watts	12KW	2.5mm 316L	1.5mm 304L	900KG	3 ph	2"
WW 2 2500	2700(l) x 750(w) x 900(h)mm	2500(l) x 600(w) x 400(d)mm	330L	3600 watts	9KW	2mm 316L	1.5mm 304L	700KG	3 ph	2"
WW 2 3000	3200(l) x 750(w) x 900(h)mm	3000(l) x 600(w) x 400(d)mm	400L	4800 watts	9KW	2mm 316L	1.5mm 304L	1000 KG	3 ph	2"
WW 2 3500	3700(l) x 1150(w) x 900(h)mm	3500(l) x 900(w) x 600(d)mm	700L	6000 watts	12KW	2.5mm 316L	1.5mm 304L	1500 KG	3 ph	2"

Model Number	External Dimensions	Internal Dimensions	Capacity	Ultrasonic Power	Heater Power	Tank Material	Case Material	Weight	Volts	Drain
MW 1 1000	1150(l) x 550(w) x 900(h)mm	1000(l) x 300(w) x 300(d)mm	54L	600 watts	3KW	2mm 316L	1.5mm 304L	300 KG	3 ph	1"
MW 1 1500	1650(l) x 550(w) x 900(h)mm	1500(l) x 300(w) x 300(d)mm	81L	800 watts	3KW	2mm 316L	1.5mm 304L	325KG	3 ph	1"
MW 1 2000	2150(l) x 550(w) x 900(h)mm	2000(l) x 300(w) x 300(d)mm	108L	1000 watts	3KW	2mm 316L	1.5mm 304L	350KG	3 ph	1"
MW 2 1000	1150(l) x 750(w) x 900(h)mm	1000(l) x 500(w) x 300(d)mm	90L	1000 watts	3KW	2mm 316L	1.5mm 304L	325KG	3 ph	1"
MW 2 1500	1650(l) x 750(w) x 900(h)mm	1500(l) x 500(w) x 300(d)mm	135L	1200 watts	6KW	2mm 316L	1.5mm 304L	350KG	3 ph	1"
MW 2 2000	2150(l) x 750(w) x 900(h)mm	2000(l) x 500(w) x 300(d)mm	180L	1800 watts	6KW	2mm 316L	1.5mm 304L	375KG	3 ph	1"



Roller Quantity	External Dimensions	Internal Dimensions	Capacity	Ultrasonic Power	Heater Power	Tank Material	Case Material	Weight	Voltage	Drain
Single Roller	730(l) x 450(w) x 430(h)mm	660(l) x 300(w) x 150(d)mm	28L	300 watts	1KW	2mm 316L	1.5mm 304L	60KG	120v	2 x 1/2"
Twin Roller	730(l) x 550(w) x 430(h)mm	660(l) x 400(w) x 150(d)mm	38L	400 watts	1KW	2mm 316L	1.5mm 304L	65KG	120v	2 x 1/2"
Three Roller	730(l) x 650(w) x 430(h)mm	660(l) x 500(w) x 150(d)mm	48L	600 watts	2KW	2mm 316L	1.5mm 304L	75KG	120v	2 x 1/2"
Four Roller	730(l) x 800(w) x 430(h)mm	660(l) x 650(w) x 150(d)mm	63L	600 watts	2KW	2mm 316L	1.5mm 304L	85KG	120v	2 x 1/2"

