

At the forefront of anilox cleaning since 1993



8 Good Reasons why Alphasound/ Betasound is favourable to Jetwash

- **CHEAPER TO BUY (LIKE FOR LIKE SYSTEMS)**

Alphasound systems are cheaper when like for like systems are considered. Where we find that there is a difference, we will endeavour to accommodate the customer to ensure they receive the very best specification on offer.

- **CHEAPER TO RUN (UP TO 5 X CHEAPER)**

The Alphasound system relies on a mechanical process, not the strength of a solution. Only 10% of chemistry is required against 90% mains water. The consumable costs are also favourable by comparison in like for like quantities of 25 litre drums. Furthermore, cleaning in a system using sprayed chemicals requires a 50% dilution. Imagine this in systems where a larger overall fluid volume capacity is required.

- **BETTER CONSISTENCY OF CLEANING FOR MUCH LONGER PERIODS
(NO FALL OFF IN PERFORMANCE DUE TO CHEMICAL DETERIORATION)**

In a Jetwash system, the cleaning capability is totally reliant of the condition of the chemical. As it becomes blinded, performance will drop off quite quickly. With an Alphasound system, the performance will not fall away so quickly which is again due to the mechanical process utilised. This assures that the consistency of the cleaning is guaranteed for much longer periods, without the need for a chemistry change.

- **FASTER CLEANING TIMES**

The Alphasound system has a 15 minute cycle. However, with the new 'Active Cavitation' technology, the likelihood is that this cycle time will not be fully required. With regular cleaning, rolls are generally cleaned within only a few minutes. This technology is patent pending and therefore is only offered by Alphasound. In many cases the roll will be cleaned in only a few minutes, unlike the closed system employed by a Jetwash system that has a 20-30 minute cycle. This has potentially a real impact on make ready times.

- **LESS ENVIRONMENTAL IMPACT**

Alphasound equipment uses only 20% of the volume of cleaning fluid in comparison to a jetwash system. This means that overall water usage and waste is reduced by 80% when the two systems are compared. This has further implications when the heating of the fluid in both systems is considered. This means that reduced energy costs are a benefit of the Alphasound unit. Manufacturers of both system types will offer low pH/aluminium-friendly chemistries. Chemistry from either supplier however cannot be put to drain following cleaning of rolls or parts contaminated with UV ink.

- **TAKES UP LESS FACTORY FLOOR SPACE (LIKE FOR LIKE SYSTEMS)**

Alphasound systems have a lower overall footprint by comparison, allowing for increased space and manoeuvrability for staff. The system can also be easily moved if relocation is required.

- **SAFER FOR THE OPERATOR**

As Jetwash systems use chemistry that is diluted at 50%, there is a much higher risk of injury to the operator should his skin come into contact with the tank fluid. By comparison, the vast majority of Alphasound systems utilize chemistry that is added at only 10% and while contact with the skin is not recommended, it is not harmful and at worst will render the skin dry.

- **DEVELOPING TECHNOLOGY**

'Alphasound', 'Betasound' and 'Active Cavitation' are all features that have been initiated around the core Supersweep technology which is under continual development. Jetwash technology cannot develop beyond its current limits of pumping chemistry through spray nozzles.

Good Reasons...

Your Guide to Alphasound
and Anilox Cleaning



ALPHASOUND ULTRASONIC CLEANING SYSTEMS

Anilox Roll Cleaning Systems • Parts Washers
Industrial Water Recycling • Zero Contact Plate Washers

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MADE IN BRITAIN

ALPHASOUND
ULTRASONIC CLEANING SYSTEMS

6 Good Reasons why Alphasound/ Betasound offers more than other **Ultrasonic cleaning systems**

- **FIRST SYSTEM OFFERING TRUE DUAL FREQUENCY OPTION FOR CLEANING OVER A WIDER RANGE OF ANILOX SCREEN COUNTS**

Dual Frequency, Alphasound technology was developed in house by trained electrical engineers in 2000. Countless flexographic printers literally have reaped the rewards of utilising an Alphasonics breakthrough technology.

You can clean an anilox of any screen count as often as you like with zero risk to the roll. This gives you the very best production quality available and greatly reduces make ready. Also, as you develop your anilox inventory, you will not need to develop your equipment. An Alphasonics system will grow with you and your business.

- **AUTOMATED OPERATION – EASY TO USE**

There are a maximum of four buttons on an Alphasonics system. We don't utilise adjustable controls that can lead to over exposure of heat and ultrasound. All settings are handled automatically through sophisticated electronic controls. The operator simply needs to press a button and walk away.

Also, all Alphasonics units have LCD displays which give the operator full information on the cycle taking place. This also enables the machine to be fully diagnostic for maintenance purposes.

- **ONLY SYSTEM OFFERING ENHANCED 'SUPERSWEEPING' GENERATORS FOR ROLL SAFETY**

Super Sweep ensures that the ultrasound is distributed evenly for consistent and effective cleaning across the roll. In turn, the 'Hot and Cold Spots' that can cause damage in an ultrasonic system without a sweeping circuit are eradicated instantly. Lastly, Alphasonics use sophisticated technology to measure sound in water. This allows us to offer the most comprehensive and safest sweeping system anywhere in the world.

- **'ACTIVE CAVITATION' FOR FASTER CLEANING**

Another in house development, Active Cavitation enhances the chemical reactions in the anilox cleaning process to give a much faster cycle. Again, this enhances make ready and means the roll is out off the press for much less time. As this technology is patented, no other supplier in the world can offer this.

- **ONLY SYSTEM GUARANTEED NOT TO DAMAGE ANILOX ROLLS**

Despite what you may hear, an Alphasonics system has countless technical controls to guarantee the safety of an anilox roll. If roll damage did occur as a result of our ultrasonic technology, we'd replace it. Since 1993, we've kept to that promise but we've never had to replace an anilox.

- **RECOMMENDED BY PRESS AND ROLL MANUFACTURERS**

We have long standing and fruitful relationships with a number of press and anilox manufacturers across the globe. There is a good reason why Alphasonics are the only ultrasonic supplier that can say this.

6 Good Reasons why Alphasound/ Betasound is favourable to **Laser cleaning**

- **CHEAPER TO BUY (CONSIDERABLY CHEAPER)**

Laser Cleaning is a considerably expensive capital outlay if a customer wishes to buy the equipment. When contract cleaning is employed, cleaning is less frequent and the customer loses control over the process.

- **NO SKILL LEVEL REQUIRED**

Laser cleaning requires a skilled operator to carry out this task. With Alphasonics, training is minimal. Any skill level is capable of operating Alphasonics equipment. Also, the operator does not need constant supervision with an Alphasonics system – they can press a button and walk away.

- **TAKES UP LESS FACTORY FLOOR SPACE (LIKE FOR LIKE SYSTEMS)**

Alphasonics systems have a lower overall footprint by comparison, allowing for increased space and manoeuvrability for staff. The system can also be easily moved if relocation is required.

- **MULTI-ROLL SYSTEMS AVAILABLE (QUICKER CLEANING)**

Laser cleaning is only capable of cleaning one roll at one time. By comparison, Alphasonics can clean as many rolls as the customer requires simultaneously. Each machine is built to the customer's requirements in this respect. Multi roll cleaning saves time and money. This is especially prevalent for printer with large anilox inventories.

- **HEALTH AND SAFETY CONCERNS**

There are concerns within academic circles with regards to this method of cleaning and the nano-particles produced. Without extensive, comprehensive ventilation, there is a serious carcinogenic health risk for operators. This in turn comes with a considerable cost. There are also reports of onsite cleaning taking place without any ventilation at all. This puts all employees at risk and is highly irresponsible.

- **EFFECTIVE ACROSS ALL INK TYPES**

There are no problems cleaning all ink types in an Alphasonics system. Laser cleaning systems are known to struggle with the cleaning of varnishes and white inks.

7 Good Reasons why Alphasound/ Betasound will outperform **Blasting**

- **CHEAPER TO BUY (LIKE FOR LIKE SYSTEMS)**

Alphasonics systems are cheaper when like for like systems are considered. Where we find that there is a difference, we will endeavour to accommodate the customer to ensure they receive the very best specification on offer.

- **CLEANER PROCESS**

Due to the beads and powder involved, Blasting can produce large amounts of dust, which, can even effect the print of the customer as this powder can settle on the press. Even around a system itself there is a lot in terms of mess and dust, at a huge inconvenience to the customer. Alphasonics' equipment is contained process as it as overall cleaning station encompassed in one machine.

- **NO SKILL LEVEL REQUIRED**

Blasting requires an operator to carry out this task – with a certain skill level in some cases. With Alphasonics, training is minimal. Any skill level is capable of operating Alphasonics equipment. Also, the operator does not need constant supervision with an Alphasonics system – they can press a button and walk away.

- **MULTI ROLL SYSTEMS AVAILABLE (QUICKER CLEANING)**

Blasting is limited in terms of the number of rolls that can be cleaned at one time. By comparison, Alphasonics can clean as many rolls as the customer requires simultaneously. Each machine is built to the customer's requirements in this respect. Multi roll cleaning saves time and money. This is especially prevalent for printer with large anilox inventories.

- **DEEPER CLEANING OVER A MUCH WIDER SCREEN COUNT RANGE**

There are limitations in terms of the screen counts that Blasting can clean to. This was well noted towards the late 1990's and customers across the world report that they simply cannot clean rolls over certain screens, especially when UV ink is concerned as this absorbs the kinetic energy the blasting process relies on. However, with Alphasonics' proven Dual frequency technology, any screen count can be cleaned. This means a system can grow with a business as their capabilities increase in terms of presses, aniloxes and plates. We can go wherever anilox suppliers wish to take us with a future proof technology.

- **TAKES UP MUCH LESS FACTORY FLOOR SPACE**

Alphasonics systems have a lower overall footprint by comparison, allowing for increased space and manoeuvrability for staff. The system can also be easily moved if relocation is required.

- **FUTURE PROOF TECHNOLOGY**

'Alphasound', 'Betasound' and 'Active Cavitation' are all features that have been initiated around the core Supersweep technology which is under continual development. Blasting technology cannot develop beyond its current limits.