

# Washing and Distilling

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Irac Tech  
offers, definitive  
solutions for washing  
and distilling the  
washing liquids



**WASHING**  
**SOLUTION**  
**DISTILLING**

#### HIGH PRESSURE

Made entirely by Irac Tech the cleaning of aniloxes by high pressure water. The most economic and effective solution

#### ULTRASONIC

Ultrasonic washing exclusive Irac Tech design and manufacturing, cycle with automatic rinse and blowing

#### PLATES

LC Electra and LC Electra Evolution: Flat washing machine for plates - SR LC automated wash tunnel with closed-loop



*At the service of printers around the world!*

“Companies pay too much attention to the cost of doing something. They should worry more about the cost of not doing it”.

Philip Kotler

# ANILOX

## New Cleaning Systems

Irac Tech is able to propose many solutions for anilox cleaning. All these systems are studied to clean deeply and efficiently.





## INKLEAN PRINT REMOVER

Only for this type of anilox cleaning, Irac Tech recommend the INKLEAN PRINTREMOVER, This special type of chemical is specific for the High Pressure washing. The product will be sprayed on the anilox before the high pressure water rinsing.



## ROLLCLEAN HP

### High Pressure Anilox Cleaning Machine

# ANILOX HIGH PRESSURE WATER-THE NEW CONCEPT

The cleaning of the aniloxes by high pressure water 120 bar is the most economic and effective

ROLLCLEAN HP today represents the new concept for the cleaning of the aniloxes.

This machine reaches the best value for money.

The cleaning process follows 3 steps:

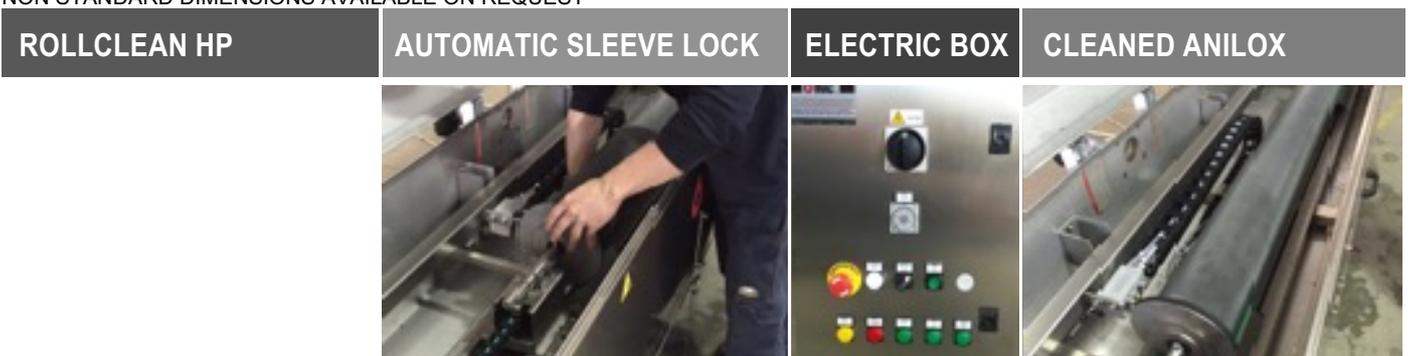
- The automatic aspersion of the cleaning detergent (we suggest to use our chemical INKLEAN PRINT REMOVER) sprayed by means of dedicated nozzles, installed on a side of the washing bath;
- The washing with water at high pressure. On the other side 2 special nozzles, made in titanium, spray the water at 120 bar (1,740 psi) that cleans the anilox deeply and efficiently;
- The last automatic cycle is the blowing of compressed air that dry the anilox.

The entire automatic cycle takes normally not more than 15 min.

The chemical used in a closed loop has a filtering system which works every cycle.

MODEL	USEFUL WIDTH	SUPPLY
ROLLCLEAN HP 1000	1000	COMPRESSED AIR + 400 V 3PH+N - 50/60 Hz
ROLLCLEAN HP 1600	1600	COMPRESSED AIR + 400 V 3PH+N - 50/60 Hz
ROLLCLEAN HP 2100	2100	COMPRESSED AIR + 400 V 3PH+N - 50/60 Hz
ROLLCLEAN HP 2600	2600	COMPRESSED AIR + 400 V 3PH+N - 50/60 Hz
ROLLCLEAN HP 3100	3100	COMPRESSED AIR + 400 V 3PH+N - 50/60 Hz

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST



# INKLEANPDC/007

Even for this type of cleaning process Irac Tech recommends an ecological chemical of the family INKLEAN, specifically INKLEAN PDC/007. A special formulation with caustic soda in quantities measured in order not to spoil any particular made of aluminum and even the shoulders of the anilox cells, although fine. It also contains anti limestone, and since the machine is equipped with tanks below, the limestone will settle to the bottom of these, without affecting the cells of the anilox.

Irac Tech, however, always recommend the use of water without calcium.



## ULTRAWASH BASIC

### Anilox Deep Cleaning

# ULTRASONIC ANILOX WASHING... REGENERATION

The cheapest, most effective system available on the market today. Washing and manual Rinsing

Ultrasonic cleaning is now the most economical and effective way to regenerate the anilox cylinder with either a traditional or gearless sleeve. Irac Tech offers a completely innovative equipment for this purpose, it is ULTRAWASH BASIC and the following strengths make it unique:

**MULTI-FREQUENCY)** The ultrasonic system that works in multi-frequency, provides a gentle deep cleaning of the anilox and avoid ruining the shoulders of the cells or the cells themselves. This innovative system, which works with lower frequencies, multi-frequency, allows to create the cavitation effect, which basically sucks the dirt from the cells, so delicate.

**MANUAL RINSE)** In the front there is a tank used to rinse manually with adjustable supports to accommodate any type of anilox. In addition, other supports are also provided to allow the operator to insert the closure plugs of the sleeve, before washing, in order to ensure the sealed closure. These supports are removable.

**Optional: automatic filtration of cleaning liquids)** To complete the equipment it can be equipped with an automatic filtration system washing bath. Through a special pump and filter and easy to clean, the liquid is collected, filtered and injected back into the tank.

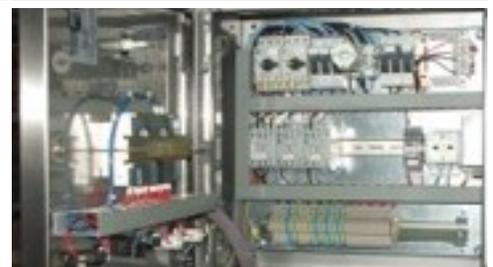
MODEL	MAX WIDTH FOR ANILOX	AVERAGE WASHING TIME	MAXIMUM WASHING TEMPERATURE	ROTATING SPEED
ULTRAWASH 1300	Max. 1300	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 1800	Max. 1800	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 2300	Max. 2300	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 2800	Max. 2800	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 3300	Max. 3300	20 min.	50 °C	0,1 mt./sec.

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

ANILOX SUPPORT

WASHING BATH

FUNCTIONING BOX





## ULTRAWASH Anilox Regeneration



### INKLEAN PDC/007

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# ULTRASONIC ANILOX WASHING... REGENERATION

**The most effective system available on the market today. AUTOMATIC washing, rinsing and drying**

Ultrasound washing is the most effective and economic Anilox regeneration system available today, for both traditional gear cylinders and sleeves. Irac Tech offers a fully innovative device for this purpose, the ULTRAWASH, and its strengths make it one of a kind:

**WASHING WATER COLLECTION TANK)** The washing chamber does not use the typical water bath with hot, stagnant detergent, but is totally empty. In fact a closed, heated tank below contains the washing detergent and prevents unpleasant odours. In order to be able to use the water more than once, it is subjected to a micro-filtration process. When started, a dedicated pump self-levels the washing tank covering 1/3 of the Anilox in rotation, and then the ultrasonic washing process begins. The tank is also fitted with heaters which maintain the correct temperature of the washing water.

**AUTOMATIC RINSING)** At the end of the ultrasonic washing process the used water and detergent autonomously returns to the heated tank, ready for the next cycle. Then the rinsing phase follows using water taken from a second heated tank, which can be reused as this too is subjected to micro-filtration. In order to further improve the washing cycle, Irac Tech recommends the use of demineralised water, which prevents the formation of limescale on the Anilox.

**Optional BLOWING)** To completely remove limescale residues and impurities, ULTRAWASH can also be fitted with a blowing device. After rinsing, a blowing cycle on the Anilox assures that it leaves the machine clean and ready for reuse.

MODEL	MAX WIDTH FOR ANILOX	AVERAGE WASHING TIME	MAXIMUM WASHING TEMPERATURE	ROTATING SPEED
ULTRAWASH 1300	Max. 1300	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 1800	Max. 1800	20 min.	50 °C	0,1 mt./sec.
ULTRAWASH 2300	Max. 2300	20 min.	50 °C	0,1 mt./sec.
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NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

ANILOX SUPPORT

RINSING NOZZLES BAR

FUNCTIONING BOX



# SODIUM BICARBONATE

## INKLE

Only for this type of anilox cleaning, Irac Tech recommend the sodium bicarbonate of the INKLEAN family, in the specific INKLEAN BIK. This special type of baking soda, is sold in two different sizes for different purposes:

- A) INKLEAN BIK GG: This is the first born, specifically for the corrugated industry;
- B) INKLEAN BIK FX: Newest, much finer, in order to ensure the cleaning of FLEXO aniloxes, up to 440 lines.



## BIKWASH INLINE

### Baking Soda Cleaning Solution

## ECOLOGICAL IN-LINE CLEANING EQUIPMENT WITH BAKING SODA

The most environmentally friendly and efficient equipment on the market. Cleaning with baking soda directly on the machine.

The anilox cleaning is one of the main problems related to flexo printing, especially for corrugated Companies that often have enormous anilox rolls, difficult, and often impossible, to disassemble for cleaning. For that purpose Irac Tech built BIKWASH INLINE, the cleaning system with sodium bicarbonate, that is directly applicable on the printing machine. Thanks to the installation of specific support plates, in fact will be possible to move the plant to clean all the anilox.

The Irac Tech usual philosophy is flexibility, adaptability and versatility, and also for this equipment, which may seem simple at first glance, Irac Tech studied several innovative solutions to obtain a reliable equipment.

**MAXIMUM adjustability of the HEAD)** The cleaning head, with annexed the intake system, to avoid huge losses of sodium bicarbonate, is adjustable in all directions, and also extendable. This system allows easy installation of the translating bar and can be placed in any position.

**INTAKE SYSTEM)** Irac Tech uses already tested equipment for this purpose, adjustable to three different power selections, increasing the vacuum power, as needed.

**ADJUSTMENTS)** The countless adjustments available for the user, make the machinery, the most adaptable solution, going to cover all the existing necessity of cleaning, depending on the number of lines over the anilox.

**LOADING AND FILTRATION)** To avoid that the bicarbonate pack, before the deposit, baking soda is filtered.

MODEL	MAX DIMENSION OF THE ANILOX MM.	MEDIUM CYCLE TIME	POWER SUPPLY
BIKWASH INLINE 2000	Max. 2000	15/20 min/mt.	Air from 0,3 to 4 m3/min 400V-50Hz, 5P/N/PE
BIKWASH INLINE 3000	Max. 3000	15/20 min/mt.	Air from 0,3 to 4 m3/min 400V-50Hz, 5P/N/PE

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

### BIKWASH INLINE



### CLEANING HEAD



### ANILOX CLEANING





## BIKWASH OFFLINE

### Baking Soda Cleaning Solution

# SODIUM BICARBONATE

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## ECOLOGICAL CLEANING OUTSIDE OF THE PRESS WITH **BACKING SODA**

The most environmentally friendly and efficient equipment on the market. Cleaning with baking soda outside of the press.

When anilox are sleeves, or small sized, easily removable, Irac Tech also proposes the cleaning system with sodium bicarbonate, outside of the press, stand alone. It is an assestante unit that allows you to clean cylinders, by rotating them with adjustable speed of the rotation and the cleaning head. The special features, that differentiate Irac Tech from the competition, are represented by different strengths, listed below.

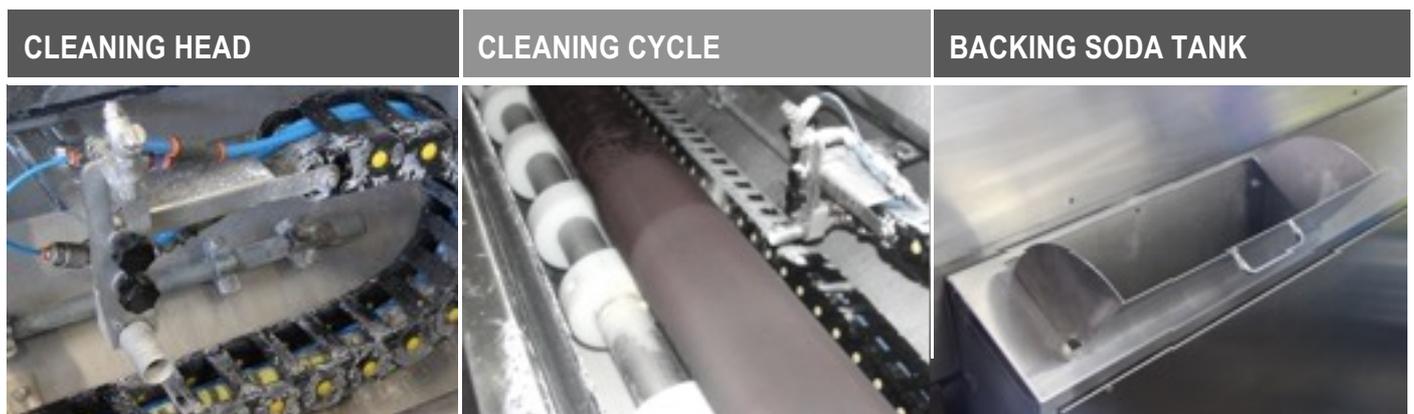
**Hermetically SEALING)** The closure, with active safety device, is fully sealed thus preventing any baking soda powder leakage.  
**CONSTRUCTION STAINLESS STEEL AISI 304)** Irac Tech, to ensure a long life time, performs all cleaning systems in stainless steel AISI 304.

**ADJUSTMENTS)** The many adjustments available, make the machine, the more adaptable on the market, going to cover all current cleaning needs, depending of course to the number of lines on the anilox.

**LOADING AND FILTRATION)** To avoid that the bicarbonate pack, before the deposit, baking soda is filtered.

MODEL	MAX DIMENSION OF THE ANILOX MM.	MEDIUM CYCLE TIME	POWER SUPPLY
BIKWASH OFFLINE 2000	Max. 2000	15/20 min/mt.	Air from 0,3 t 4 m3/min 400V-50Hz, 5P/N/PE
BIKWASH OFFLINE 3000	Max. 3000	15/20 min/mt.	Air from 0,3 to 4 m3/min 400V-50Hz, 5P/N/PE

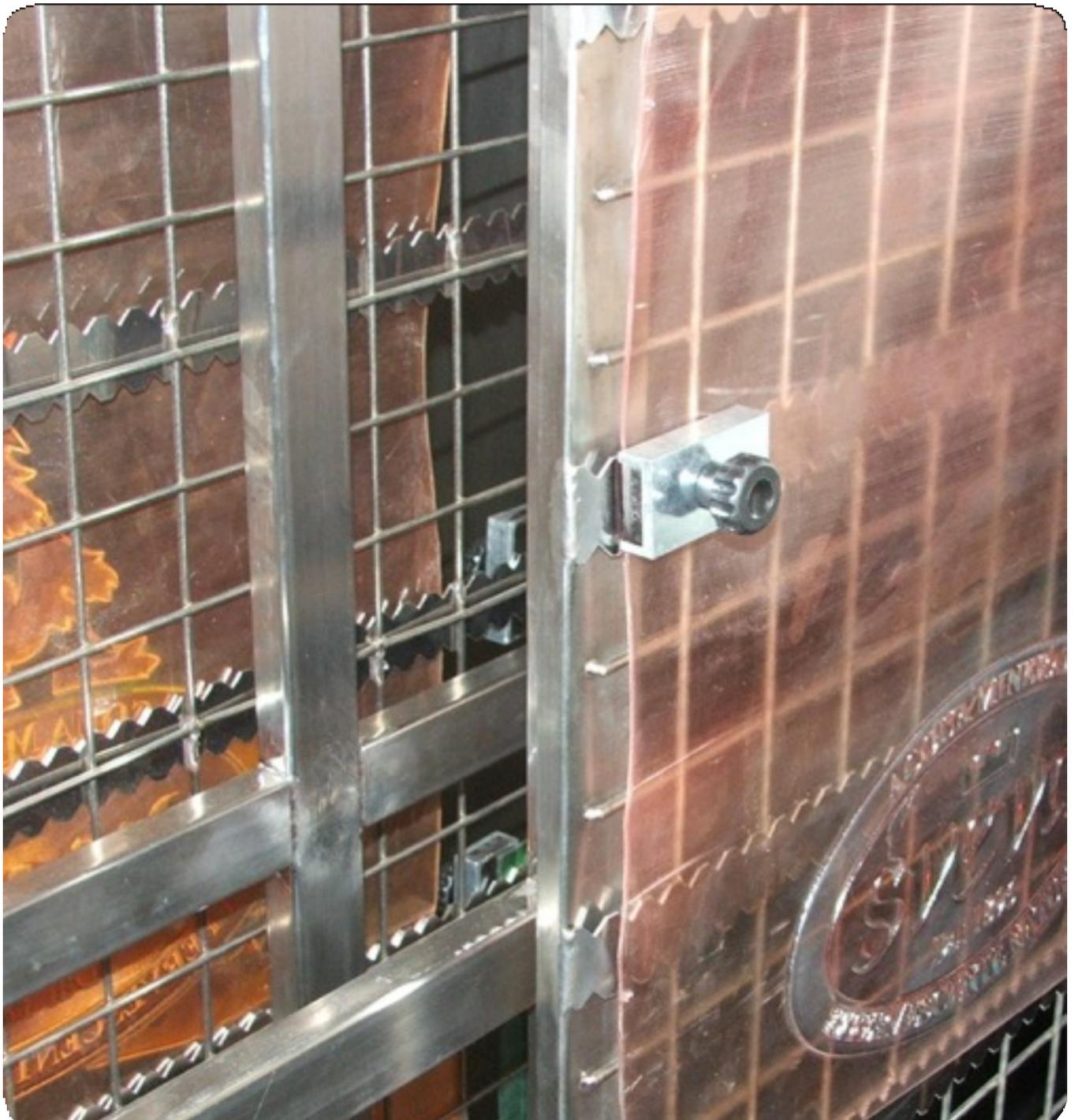
NON STANDARD DIMENSIONS AVAILABLE ON REQUEST



# PLATES

## New Cleaning Systems

Irac Tech is able to propose many solutions for plates washing. All these systems are studied to clean deeply and efficiently.





## WASHING CHEMICALS **INKLEAN**

A complete range of chemicals, of new concept suitable for all types of ink. Non-flammable products, non toxic not harmful high cleaning action.

- INKLEAN regroups three different types of detergent to be diluted in pure water for the washing of water-based inks.
- INKLEAN PRINT SOLV is a newly designed biodegradable cleaners suitable for solvent based inks
- INKLEAN PRINT UV suitable for UV inks



## LC ELECTRA **EVOLUTION**

**Plates horizontal washing - TOP LINE**

# PLATES HORIZONTAL WASHING - THE NEW CONCEPT

**Which are the real differences and advantages of the new equipment that Irac Tech offers**

LC ELECTRA EVOLUTION is the natural evolution of the washing machine for photopolymer plates LC Electra , produced and sold for more than 5 years. Compared to the previous version, which is appreciated by all users. LC ELECTRA EVOLUTION has been designed in a revolutionary way.

**The previous limit**, low speed, was taken as a starting point to build a new machine capable of overcoming the limits of competition. Thanks to its speed (1 linear meter in 1.5 / 2 minutes, compared to the previous 6 / 7 minutes) LC ELECTRA EVOLUTION is now the fastest machine on the market for plates.

**The exceptional washing quality** that distinguishes it, is the result of the combination of two technologies: rotary brushes, and brush with conventional alternating horizontal movement.

**Special driving rolls**, fully motorized, and composed by soft material self-adaptive, allowing to insert plates with different thicknesses, without having to continuously adjust the pressure.

Users will find **most comfortable** operation of the machine, in fact, filters and tanks that contain detergents are placed so as to be functional.

MODEL	USEFUL WIDTH FOR PLATES MM.	SUPPLY
LC <b>electra</b> EVOLUTION 440	440	400 V - 50/60 Hz
LC <b>electra</b> EVOLUTION 580	580	400 V - 50/60 Hz
LC <b>electra</b> EVOLUTION 880	880	400 V - 50/60 Hz
LC <b>electra</b> EVOLUTION 118	1180	400 V - 50/60 Hz
LC <b>electra</b> EVOLUTION 146	1460	400 V - 50/60 Hz



# WASHING CHEMICALS INKLEAN

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- INKLEAN PRINT UV suitable for UV inks



## SR LC MINI

### Vertical plates washing

# VERTICAL PLATES WASHING

SR LC mini washes without the need for direct intervention of the operator, who is free to concentrate on other tasks

Fully pneumatic for the use of flammable solvents, it is also effective using non-flammable solvents (Irac Tech recommends INKLEAN PRINT SOLV/UV), or water and detergent for water-based printing ink. This type of washing unit can be used to wash several plates at once, fixed using magnets to the special mobile positioners. Once in place on the two positioners with a useful size of 1000X1000 or 1400X1200mm, the plates are washed and blowed, ready to be reused or archived. The real strengths of washing with the SR LC Mini are:

**POSITIONING**) the plates are not placed on improvised trolleys but rather on specific positioners, which are then placed in the washing chamber. Moreover, the presence of an operator is not required, as the machine is hermetically sealed and has a set washing cycle.

**DELICATE AND EFFECTIVE WASHING**) Irac Tech's experience in the washing field assures spraying using dedicated, high-capacity nozzles to deliver excellent results, without stressing the plates and causing printing problems.

**WATER OR SOLVENT WASHING**) Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	USEFUL DIMENSIONS FOR PLATES POSITIONING	SUPPLY
SR LC MINI 100	1000 X 1000 (X 2 sides)	PNEUMATIC
SR LC MINI 120	1400 x 1200 (x 2 sides)	PNEUMATIC

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

POMP AND TANK

PNEUMATIC CONTROL PANEL

COMPACT SIZE



# WASHING CHEMICALS

## INKLEAN

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Non-flammable products, non toxic not harmful high cleaning action.

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## SR LC Vertical Plates Washer

# WHEN THERE ARE MANY PLATES TO WASH...

**Irac Tech has the product that users prefer, in terms of both washing quality and ease of use**

Designed to satisfy the needs of printers who use a great number of plates. This machine also met with great success when using very large plates which require a lot of time to be washed properly. SR LC is the best machine available on the market today. It is the most technologically advanced solution for the thorough, fast cleaning of photopolymer plates. And let's not forget the origins of this much-loved system: it was developed around 25 years ago to wash silk-screen printing frames, fitted with a dedicated nozzle bar on each side. Sales increases very quickly considering the highly appreciated results and after few years later it was developed for photopolymers, but with a few extra features, including "horsehair" brushes which move together with the nozzle holder bar and delicately caress the plates, regenerating them. There are many advantages in using such a system:

**POSITIONING)** The plates are not placed on improvised trolleys but rather on specific positioners, which are then placed in the washing chamber. Moreover, the presence of an operator is not required, as the machine is hermetically sealed and has a set washing cycle.

**SHUTTLE)** The special shuttles which is supplied with the system, assure that the plates-holding supports reach any position. This facilitates the work of the operator who never knows where to put the removed plates.

**LOAD CAPACITY)** The positioners are on both sides, thus doubling the load capacity.

**VERSATILITY)** Since the solvent used is always the same, recirculating, if required the operator can wash even just one plates per cycle. This avoids useless solvent wasting.

**DELICATE AND EFFECTIVE WASHING)** Irac Tech's experience in the washing field assures spraying using dedicated, high-capacity nozzles to deliver excellent results, without stressing the plates and causing printing problems.

**WATER OR SOLVENT WASHING)** Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	USEFUL DIMENSIONS FOR PLATES POSITIONING	SUPPLY
SR LC 120	1400 X 1200 (X 2 sides)	PNEUMATIC
SR LC 150	2000 X 1500 (X 2 sides)	PNEUMATIC

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

PLATES APPLICATION	POMP BOX	VAPOURS SUCTION	PANEL
			

*Special for Corrugated*

## WASHING CHEMICALS

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## VERTICAL WASH

### Vertical Plates Washing



# VERTICAL PLATES WASHING FOR CORRUGATED

Equipment specially designed for the needs of Companies that print on Paper

Irac Tech felt a lot the problem of photopolymer plates washing. In fact, the products dedicated, to this purpose, are many. VERTICAL WASH is dedicated exclusively to wash, with water, flexographic inks used on paper and cardboard. Almost all of these Companies have the problem of how to wash these huge plates, and often invent themselves their own equipment, which clearly are not certified according to current safety standards. New regulations, in effect, since shortly before 2006, have improved significantly, and now require equipment manufacturers to, according to well-defined strict parameters to certificate their machine.

Different are the peculiarities of this type of equipment, and many are the optionals, to make VERTICAL WASH even more efficient. **TRANSLATING WASHING CARRIAGE)** With washing bars and calibrated nozzles. Helical type brush, with appropriate bristles to clean the plate without damaging it.

**PLATES SUPPORT)** The plate loading and unloading operation, is really fast, thanks to the common form of the corrugated plates.

**OPERATION)** The automatic operation is guaranteed by a PLC, pre-configured with 3 different types of washing, so the operator need only to press the start button. The machine will start with a wash cycle and finish with a rinse with tap water that goes in the collecting tank.

**OPTIONAL)** To make it even more efficient VERTICAL WASH, can be implemented with recirculation rinse and blowing. The cycle will be washing, rinsing and blowing with dedicated nozzles.

MODEL	USEFUL DIMENSIONS FOR PLATES SUPPORT	POWER SUPPLY
VERTICAL WASH 250	2500 X 1700	400 V - 50/60 Hz
VERTICAL WASH 300	3000 x 1700	400 V - 50/60 Hz

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST





## WASHING CHEMICALS INKLEAN

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- INKLEAN PRINT UV suitable for UV inks

**SELC** MANUAL washing for plates and parts

# THE BASIC SOLUTION FOR WASHING WHOLE

The "sink" useful for the washing with solvent for all those parts that need to be cleaned

Now too often flexographic printing Companies, found that washing operations are going to be a daily job, so they start to invent their own equipment, which clearly is not certified according to current safety standards. New regulations, in effect, since shortly before 2006, have improved significantly, and now require equipment manufacturers to, according to well-defined strict parameters to certificate their machine.

Although this seems to look like a simple booth, SE LC, actually represents the safest booth you can find on the market today, to wash safely and cheaply.

The strengths of SE LC are as follows:

**LIQUIDS IN RECIRCULATION)** The solvent / water of "first wash", is in recirculation, filtered both during filling that during the alimentation, before the pneumatic pump.

**AIR PUMP)** The pump, like the rest of SE LC, is pneumatic, double diaphragm in PTFE, high flow rate. This feeds the washing equipment directly.

**CLEANING EQUIPMENT)** At the operator disposal are a brush and larger rounded brush, both powered by the pneumatic pump.

**RINSE)** In order to clean up perfectly the piece, exchanging two taps, the machine will take clean, or regenerated solvent, that will go in accumulation to that of "first wash", increasing its duration in time.

**PREDISPOSITION FOR AIR SUCTION)** The rear wall of SE LC, is equipped with calibrated interspace, studied for each type of solvent or water. Above the roof, there is a predisposition to attack an exhaust system, not supplied.

MODEL	USEFUL DIMENSIONS FOR PLATES SUPPORT	POWER SUPPLY
SE LC 150	1500 X 1500	PNEUMATICA
SE LC 200	2000 X 1500	PNEUMATICA
SE LC 270	2700 X 1600	PNEUMATICA

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST



# INK TRAYS

# INK CONTAINERS

## Cleaning Systems

Irac Tech proposes solutions to clean printing presses parts like: doctor blades, ink trays, ink container etc...





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## ROTOJET

**Ink Trays and Chambered Doct. Blades Wash**

### WASHING SYSTEM FOR INK TRAYS AND CHAMBERED DOCTOR BLADES very very fast cleaning thanks to the rotative calibrated nozzles

Rotojet was born as a complement to traditional washing machines, and can wash ink trays and chambered doctor blades. Complement, since the anilox can not be placed within this specific machine.

Special calibrated rotating head nozzles, provide an excellent and very effective level of cleanliness even on closed chamber doctor blades. With this solution the machine is able to reach areas that conventional spray nozzles would not be able to cover.

**CONSTRUCTION STAINLESS STEEL AISI 304)** As with all the creations of Irac Tech ROTOJET is also made entirely of stainless steel AISI 304, in order to provide unparalleled durability.

**NOZZLES)** The real strength of ROTOJET is characterized by the rotating head nozzles, calibrated for use in combination with the powerful air pump mounted for this purpose.

**Collecting tank cleaning products)** The cleaning tank with a filter to trap any impurities, allows a longer life of the solvent that is used for cleaning.

**BLOWING)** To complete the removal of residual impurities, ROTOJET has a blowing cycle. After washing, a blowing cycle on the parts, allow to extract it ready for reuse.

**RINSE option)** Option that can be very useful is the rinse cycle with dedicated tank containing clean liquid.

**WATER OR SOLVENT WASHING)** Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	MAX USEFUL LENGHT	POWER SUPPLY
ROTOJET 1000	1000 mm.	Pneumatic EX OR Electro-pneumatic
ROTOJET 1600	1600 mm.	Pneumatic EX OR Electro-pneumatic

NON STANDARD DIMENSIONS AVAILA ÏLE ON REQUEST



# FL ALLCLEAN

**Automatic washing machines of the components of the flexo and roto presses**

- Fully-Pneumatic
- Fixed washing bars
- Removable basket



## ECONOMICAL WASHING MACHINE FOR TRAYS, DOCTOR BLADES, CYLINDERS... The most efficient and economical for washing components of the flexo and roto presses

Irac Tech for over 25 years produces FL ALLCLEAN excellent washing equipment, which incorporates all the important criteria of construction, which made Irac Tech famous throughout the world, this, in particular is the economical solution. The system, with fixed bars and nozzles, calibrated, it expresses the best way to replace the traditional solvent bath, now outlawed. FL ALLCLEAN is built with special features such as:

**SAFETY)** The washing machine is completely and exclusively air operated. The use of compressed air is only and the most secure and reliable system on the market with the use of highly flammable solvents. It is worth mentioning that only Irac Tech has always built their machines with pneumatic equipment.

**RELIABILITY)** As FL ALLCLEAN washers are eternal, the pneumatic logic is entirely made of top quality components found throughout the world, and the material used to build the machine body is entirely made of stainless steel AISI 304.

**REMOVABLE BASKET)** The inner basket is removable and interchangeable, and during the washing, the container is moving longitudinally, to help the washing liquid to obtain an effective result.

**Washing with water or solvent)** Using only pneumatic components, and suitable materials, for the washing can be used either water and detergent or flammable solvents.

**RINSE optional)** Rinse cycle with the timer.

MODEL	USEFUL DIMENSIONS	SUPPLY
FL ALLCLEAN 1600	1600 X 500 X 500 mm.	PNEUMATIC
FL ALLCLEAN 2100	2100 X 500 X 500 mm.	PNEUMATIC
FL ALLCLEAN 2600	2600 X 500 X 500 mm.	PNEUMATIC

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST



INSIDE - FEEDING TANKS



FUNCTIONING BOX



# FLEXO

Automatic washing solution  
to install online on the  
printing press

## AUTOMATIC WASHING





## Automatic or Semi-Automatic washing system for flexographic printing press.

## FLEXOGRAPHIC INK PUMPING/WASH-UP SYSTEM

**Designed for proper delivery and effective cleaning of flexographic printing units.**

The IFW flexographic ink pumping/wash-up systems are designed for proper delivery and effective cleaning of flexographic printing units.

These units integrate a pumping system carrying the ink from its pail to the printing unit, and provides a proper control of its correct ink flow into and from the applicator head. It grants ink flow consistency and proper pressure control, in order to avoid over-pressure, air bubbles formation, and splashes.

In support of ink changes operations, the system enables used inks evacuation from the inking circuit and its recollection in the original pail, and subsequent circuit cleaning in order to prevent new ink to be contaminated.

The proper cleaning of the inking circuit, including pumps, pipelines and applicator heads, is achieved by flowing a washing liquid adequately chosen in accordance to ink characteristics (solvent, water, combined thinners) and using a certain sequence.

The normal wash-up sequence includes:

- Ink draining from the complete circuit;
- Washing product flow into the circuit;
- Draining of the washing product.

Each operation is carried out with different methods and time frames, depending on type, level of cleaning action and the ink features.

The type of washing products, their quantities, and their level of purity obviously influence the level of contamination left.

However, in order to reduce quantities usage, some washing products can be recycled for a preliminary washing cycle.

The IFW pumping/wash-up systems are generally offered in 2 different versions:

- semi-automatic wash-up (IFSW);
- Automatic wash-up (IFAW).

MODEL	USEFUL DIMENSIONS	SUPPLY
IFSW	SEMI - AUTOMATIC	PNEUMATIC
IFAW	AUTOMATIC	PNEUMATIC

PRINCIPLE	SYSTEM	APPLICATION	PICTURE
<p>CHAMBERED DOCTOR BLADES</p> <p>VISCOSITY CONTROL</p> <p>washing solvent entry</p> <p>washing solvent drainage</p> <p>PUMPING AND WASHING SYSTEM</p>			

# ROTO GRAVURE PRINTING PARTS

## Cleaning Systems

Irac Tech propose solutions to clean printing presses parts like: aniloxes, sleeves, doctor blades, ink trays, etc...



# WASHING CHEMICALS

## INKLEAN

A complete range of chemicals, of new concept suitable for all types of ink.

Non-flammable products, non toxic not harmful high cleaning action.

- INKLEAN regroups three different types of detergent to be diluted in pure water for the washing of water-based inks.
- INKLEAN PRINT SOLV is a newly designed biodegradable cleaners suitable for solvent based inks
- INKLEAN PRINT UV suitable for UV inks



## ROLLCLEAN ECO

**Washing of: Rotogravure Cylinders, sleeves, mounted plates, aniloxes, etc ...**

## CYLINDERS WASHING OF ALL KINDS ... FAST AND EFFECTIVE

**A system which allows the operator to wash cylinders and put them straight back into print**

ROLLCLEAN ECO is designed to solve the problem of cylinders washing, which require washing prior to being returned to the machine, or to be stored ready for the next use. The washing and blowing cycle allows the operator to obtain the cylinder ready for reuse. The real strengths of this kind of equipment are:

**VERSATILITY:** This equipment could be made in a mix of pneumatic and electrical components, for the use of non flammable solvents, or fully pneumatic for the safe use of flammable solvents.

**WASHING PRODUCT COLLECTION TANK)** The washing tank, fitted with a filter to collect the main impurities, assures a longer life of the cleaning product. For intense use we suggest to choose the 150 liters conical feeding tank, that grant a longer life to the washing solvent.

**SELF CLEANING SUPPORTS)** The sleeves are held by special soft brush supports and a new blade system which keeps it clean during rotation. In this way, there is no risk of the ink from the plates being transferred back onto the sleeve.

**BLOWING)** To completely remove residues and impurities, ROLLCLEAN is fitted with a blowing device. After washing, a blowing cycle on the sleeve assures that it leaves the machine ready for reuse.

**WATER OR SOLVENT WASHING)** Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	USEFUL DIMENSIONS FOR SLEEVES	SUPPLY
ROLLCLEAN ECO 1100	1100 X 250 DIAM. MAX.	PNEUMO - ELECTRICAL
ROLLCLEAN ECO 1600	1600 X 250 DIAM. MAX.	PNEUMO - ELECTRICAL
ROLLCLEAN ECO 2100	2100 X 300 DIAM. MAX.	PNEUMO - ELECTRICAL
ROLLCLEAN ECO 2600	2600 X 300 DIAM. MAX.	PNEUMO - ELECTRICAL

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

### SLEEVES SUPPORT

### POMP AND TANK

### CONTROL PANEL





# FL EVOLUTION

**Washing machine with large carrying capacity for demanding printers.**



- Fully-Pneumatic
- Mobile washing bars
- High cleaning power
- Special nozzles with pivoting head
- Carrying trolley removable
- Shuttles additional Optionals

## THE ULTIMATE WHEN IT COMES WASHING

**FL EVOLUTION is the washing machine top of the range of Irac Tech. Versatile and roomy, and can be customized with positioners and countless accessories that simplify the job of cleaning, chore and unhealthy.**

FL EVOLUTION is the ultimate when it comes the washing of all components of the printing press. In production for several years now, turns out to be, even today, the most versatile and effective for many printers that have the color change and need guaranteed results. The versatility of the machine is given precisely by various accessories, standard and optional, that become part of FL EVOLUTION, such as:

**EXTRACTIBLE CARRIAGE)** Details of printing machines, such as trays, doctor blades, cylinders, tanks, etc., are neatly placed on a carriage that comes out from FL EVOLUTION.

**SHUTTLE FOR CARRIAGE)** A special shuttle, made specifically to accommodate safely the carriage. FL EVOLUTION allows the operator to reach the printing press to load the parts that needs to be washed.

**SEPARATE PUMP BOX)** The box that contain all parts of power, where the tanks are also connected to mobile washing bars and rinsing, is separated and connected to FL EVOLUTION. The customer then has the option to install FL EVOLUTION inside the plant, while the rest will be placed outside.

**Washing with water or solvent)** Using only pneumatic components, and materials suitable, for the washing can be used either water and detergent than flammable solvents.

**ROTARY NOZZLES HEAD)** Spray nozzles with rotating head, fed by a double diaphragm Teflon air pump, are very precisely because they can easily reach every point of the parts to be washed.

**WASHING BAR RING)** A special bar ring with nozzles, is able to focus alternately washing the bar top, bottom, left and right side.

MODEL	USEFUL WASHING DIMENSIONS	AVERAGE WASHING TIME	TANK CAPACITY	SUPPLY
FL EVOLUTION 160	1600 X 1000 X 1300	20 min.	150 / 300 Conical	PNEUMATIC
FL EVOLUTION 210	2100 X 1000 X 1300	20 min.	150 / 300 Conical	PNEUMATIC
FL EVOLUTION 260 A	2600 X 1000 X 1300	20 min.	150 / 300 Conical	PNEUMATIC
FL EVOLUTION 260 B	2600 X 1000 X 1600	20 min.	150 / 300 Conical	PNEUMATIC

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

EXTRACTIBLE CARRIAGE	SHUTTLE FOR CARRIAGE	CONTROL BOX - PUMP BOX

# NARROWWEB

## Cleaning Equipments

Irac Tech is able to offer you every solution suitable to clean all the printing presses parts like aniloxes, rubber cilinders, ink trays, containers, etc.



# Narrow Web Printing



## WASHING CHEMICALS

### INKLEAN

A complete range of chemicals, of new concept suitable for all types of ink.

Non-flammable products, non toxic not harmful high cleaning action.

- INKLEAN regroups three different types of detergent to be diluted in pure water for the washing of water-based inks.
- INKLEAN PRINT SOLV is a newly designed biodegradable cleaners suitable for solvent based inks
- INKLEAN PRINT UV suitable for UV inks

## ROLLCLEAN MINI

### Narrow Web Printing Presses PARTS washer

# SPECIFIC WASHING SYSTEM FOR LABEL PRINTERS

Washing Anilox, rubber rollers, tanks, blades, all small parts of Narrow Web printing machines

ROLLCLEAN MINI derives from the large washing unit launched on the market by Irac Tech more than 20 years ago, but is aimed to above all to label manufacturers, which have the same needs as large scale flexo-rotary printers. The strengths of the ROLLCLEAN MINI are:

**SMALL IN SIZE)** Although this is a unit for automatic washing, its external dimensions are smaller, as there is usually very little free space available to position equipment of this kind.

**POSITIONERS)** For a more useful and versatile positioning of the pieces to be washed, ROLLCLEAN MINI is fitted with brush supports and can load up to 4 cylinders (depending on their size) in the upper part ink trays, blades, and all other parts of a printing machine are loaded in the lower part.

**WASHING PRODUCT COLLECTION TANK)** The washing tank, fitted with a filter to collect any impurities, assures a longer life for the cleaning product.

**BLOWING)** To completely remove residues and impurities, ROLLCLEAN is fitted with a blowing device. After washing, a blowing cycle on the sleeve assures that it leaves the machine ready for reuse.

**Optional: RINSING)** A highly useful optional, the rinsing cycle has a dedicated tank collecting clean liquid.

**WATER OR SOLVENT WASHING)** Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	MAXIMUM USEFUL WIDTH	SUPPLY
ROLLCLEAN MINI 1000	1000 mm.	PNEUMO - ELECTRICAL
ROLLCLEAN MINI 1600	1600 mm.	PNEUMO - ELECTRICAL

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

### SUPPORTS

### POMP AND TANK

### CONTROL PANEL



# INKLEANPDC/007

Even for this type of cleaning process Irac Tech recommends an ecological chemical of the family INKLEAN, specifically INKLEAN PDC/007. A special formulation with caustic soda in quantities measured in order not to spoil any particular made of aluminum and even the shoulders of the anilox cells, although fine. It also contains anti limestone, and since the machine is equipped with tanks below, the limestone will settle to the bottom of these, without affecting the cells of the anilox. Irac Tech, however, always recommend the use of water without calcium.



## ULTRAWASH MINI Narrow Web Printing ANILOX washer

# ULTRASONIC ANILOX WASHING FOR LABEL PRINTERS

**Label manufacturers also need to carefully and thoroughly wash their printing machine Anilox rollers**

Irac Tech also thinks small, and having developed large size ultrasonic washing machines it has also developed a model for label manufacturers:

ULTRAWASH Mini the automatic unit for deep Anilox cleaning. Compared to the other systems available on the market, Irac Tech offers a higher level of quality, with large thicknesses, easy adjustments and practical solutions for the user.

**SMALL SIZE)** ULTRAWASH Mini, in different sizes: 350 - 550 and 850 mm., is made in 100% AISI 304 stainless steel, and is small in size, easy to install on any work table.

**HEATING)** An important feature of this type of equipment is the washing water heating. Irac Tech runs at no more than 50°C, otherwise it would risk giving off unpleasant odours which would saturate the working environment, and, moreover, the operator does not risk to get burned during unloading. In addition, the risk of dilating metal at higher temperatures will be prevented.

**LID)** Again to prevent unpleasant odours ULTRAWASH Mini has a removable cover, which allows the operator to close the machine at the end of the day or when not in use.

**ADJUSTABLE POSITIONERS)** In order to make ULTRAWASH Mini as versatile as possible, Irac Tech has fitted it with quickly and easily adjustable positioners, to hold different sizes of Anilox rollers.

**CALIBRATED ROTATION SPEED)** To make the most of the ultrasonic waves, the Anilox rotation speed is calibrated to less than 0.1 meter per minute, as otherwise air could filter in and compromise the effectiveness of the ultrasound system.

MODEL	USEFUL WIDTH FOR ANILOX POSITIONING	AVERAGE WASHING TIME	MAXIMUM WASHING TEMPERATURE	ROTATING SPEED
ULTRAWASH MINI 350	Max. 350	15 min.	50 °C	0,1 mt./sec.
ULTRAWASH MINI 550	Max. 550	15 min.	50 °C	0,1 mt./sec.
ULTRAWASH MINI 850	Max. 850	15 min.	50 °C	0,1 mt./sec.

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

ANILOX SUPPORT	POSITION REGULATOR	CONTROL PANEL
		



## WASHING CHEMICALS

### INKLEAN

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## EASYWASH

### Manual Washer for Narrow Web Presses Parts

# ESSENTIAL EQUIPMENT FOR LABEL PRINTERS

**When the operator removes the dirty printing machine parts and doesn't know where to put them or wash them...**

Irac Tech delivers from the most automated systems to manual equipment which is often required for cleaning small and medium sized printing machine parts. EASYWASH can be considered as the household sink, because even when dishwasher is available a sink is still needed. Its features are:

**SMALL SIZE)** Although this is a cabin designed for calibrated suction, its external measurements are smaller, as there is usually very little free space available to position equipment of this kind.

**POSITIONERS)** Irac Tech offers a range of magnetic positioners for photopolymer clichés and a special positioner for Anilox and rubber rollers.

**BLOWING)** Along with EASYWASH a pistol device assures blowing and drying operations.

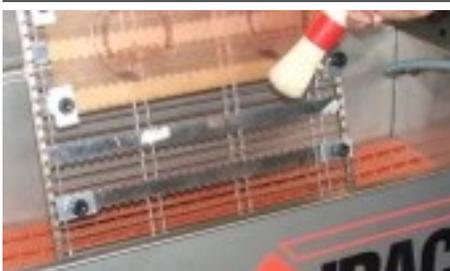
**WASHING AND RINSING)** EASYWASH has two drawing pipes, one dedicated to the initial washing process and a second to collect clean product for final rinsing.

**WATER OR SOLVENT WASHING)** Using special brushes and appropriate materials, the washing process can be carried out with water and detergent or NON flammable solvents (Irac Tech recommends chemicals from INKLEAN series).

MODEL	USEFUL DIMENSIONS	SUPPLY
EASYWASH 1000	900 X 400 X 600 mm.	PNEUMATIC
EASYWASH 1500	1400 X 400 X 900 mm.	PNEUMATIC

NON STANDARD DIMENSIONS AVAILABLE ON REQUEST

#### PLATES SUPPORT



#### ANILOX SUPPORT



#### FUNCTIONING BOX

# SOLVENTS RECOVERY

## Recovery Plants

Irac Tech offers solutions for the regeneration of dirty solvents and avoid unnecessary financial loss arising from the disposal and re-purchase.





# ALPHA SERIES



## ALPHA SOLVENT RECOVERY EQUIPMENT - EX TANK

The ALPHA series is the best-selling Irac Tech distiller and in recent years has seen several improvements, both for ATEX certification with regard to capacity and wide range of accessories that sets it apart.

ALPHA is now a safety synonymous, strength, durability and also saving. Thanks to the experience that Irac Tech has reached in these years of activity, is now able to offer you the machine that best suits your needs, ensuring a return of investment within few months.

The versatility of the machine is given by various accessories, standard and optional, that become part of ALPHA, such as:

**ELECTRICAL POWER)** The power involved vary for each model. To ensure the distillation, with a medium time of 4.5/5 hours each machine has an adequate installed power supply, depending on capacity.

**OPTION - AUTOMATIC LOADING)** For operators who are used to collect dirty solvent in commercial container (eg drum 208 liters-55 Gals) Irac Tech has decided to offer, as an option, CA, Automatic Load to do not touch anymore the solvent. On bigger machine it can be "drum to drum".

**OPTION - NITROCELLULOSE SAFETY PACKAGE)** Using a special dedicated thermostat, configured with the distillation cycle, this option allows you to immediately avoid a possible exothermic reaction, which would cause an enormous danger for the operators.

**OPTION - MIXER SYSTEM)** For clients who have particular dirty solvents, or wants to obtain a dry residues, Irac Tech is able to offer the distillation system with rotating blades inside the tank. Blades are made of brass and tank of Stainless Steel, to avoid any consumption of the tank.

**ELECTRICAL)** Any electrical or pneumatic production Irac Tech meets the strict standards expressed in the Atex Directive, and can be installed in zone 1 or zone 2.

MODEL	CAPACITY	MEDIUM CYCLE TIME	INSTALLED ELECTRICAL POWER	SUPPLY
ALPHA 15	15 l.	4,5 h	1,6 kW	ELETTRICA
ALPHA 20	20 l.	4,5 h	2 kW	ELETTRICA
ALPHA 30	30 l.	4,5 h	3 kW	ELETTRICA
ALPHA 50	50 l.	4,5 h	3 kW	ELETTRICA
ALPHA 70	70 l.	4,5 h	4 kW	ELETTRICA
ALPHA 120	120 l.	4,5 h	12 kW	ELETTRICA
ALPHA 200	200 l.	4,5 h	12 kW	ELETTRICA



**Remote  
Control also  
with LAN cable  
as option**



## MAV SERIES

**Regeneration plants for waste solvents totally AUTOMATIC MAV**

# FULLY AUTOMATIC WASTE SOLVENT RECOVERY PLANT MAV

**Last generation regenerator plants. The solvent is handled by the machine, the operator is no longer in contact with it.**

The more automated system available today on the market, with active and passive safety devices to prevent any kind of problem. Irac Tech has thought for any circumstances resulting from misuse of such equipment, given the quantity of solvent involved, that the operator can cause. Impossible go wrong with a distillation recipe and create a dangerous situation. Moreover, with the most popular installation accessory, MEMOCONTROL, Irac Tech and all the people responsible for the machine, are able to monitor and manage the machine.

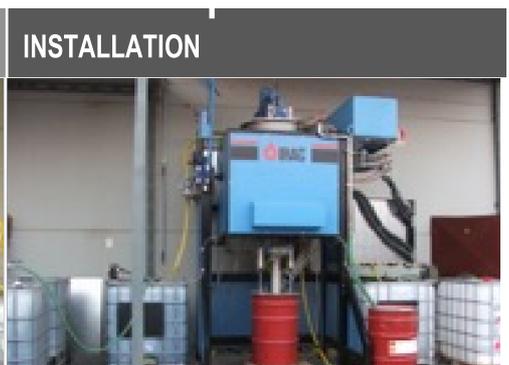
The versatility of the machine is given by various accessories, standard and optional, that become part of the MAV, such as: **PLANT STAND ALONE**) The MAV system is completely autonomous, requiring only electricity, air and water. When integrated with the accessory SGL operates autonomously even for the incoming of the dirty solvent to treat and the clean to return to the various utilities. All in total autonomy, however, the operator can intervene at any time.

**VERSATILE**) It was born as a basic system, up to the most complete and automatic version, the various configurations can be customized with the help of an Irac Tech sales guy, who will help you choosing the version that best suits your needs.

**OPERATION**) The best-selling version, has the automatic loading of the dirty solvent, the collection of clean distilled solvent, and the discharge of the sludge. All this completely automated. The only thing the operator has to do is to change the sludge container when too full, but will be notified by the level sensor installed on the lid tightly closed container. Also this operation can be delayed mounting TAR option, so that the sludge will be pumped to a 1000 liters container.

**SAFETY**) Given the capacity of MAV-series machines, this has been designed with a special eye to safety, both the active and passive, with automatic systems to control the presence of all safety systems. The security of having security.

MODEL	CAPACITY	HOURLY PRODUCTIVITY	INSTALLED POWER	SUPPLY
MAV 200	190 l.	35-70	12 kW	400 V - 50/60 Hz
MAV 335	335 l.	60-110	24 kW	400 V - 50/60 Hz
MAV 500	500 l.	80-140	40 kW	400 V - 50/60 Hz



# FULLY AUTOMATIC WASTE SOLVENT RECOVERY PLANT CEO

Last generation regenerator plants. The solvent is handled by the machine, the operator is no longer in contact with it.



The more automated system available today on the market, with active and passive safety devices to prevent any kind of problem. Irac Tech has thought for any circumstances resulting from misuse of such equipment, given the quantity of solvent involved, that the operator can cause. Impossible go wrong with a distillation recipe and create a dangerous situation. Moreover, with the most popular installation accessory, MEMOCONTROL, Irac Tech and all the people responsible for the machine, are able to monitor and manage the machine using any web browser. Any anomalies will be transmitted by the system via SMS, voice call and/or email till one of the responsible will take it in charge, and the system is also an events logger so will register any change and everything happens.

The versatility of the machine is given by various accessories, standard and optional, that become part of the MAV, such as:

**PLANT STAND ALONE)** The MAV system is completely autonomous, requiring only electricity, air and water. When integrated with the accessory SGL operates autonomously even for the incoming of the dirty solvent to treat and the clean to return to the various utilities. All in total autonomy, however, the operator can intervene at any time.

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**OPERATION)** The best-selling version, has the automatic loading of the dirty solvent, the collection of clean distilled solvent, and the discharge of the sludge.

All this completely automated. The only thing the operator has to do is to change the sludge container when too full, but will be notified by the level sensor installed on the lid tightly closed container. Also this operation can be delayed mounting TAR option, so that the sludge will be pumped to a 1000 liters container.

**HEATING OIL PASSAGE)** The oil is heated by passing through a set of heating elements, and then at speed through the tank, back into its reservoir. This system saves energy supply, and also extend the life of the oil, that appears to be much more optimized than the traditional bath of oil. Clearly, this system also makes distillation more efficient, throughout the life of the distiller, which is much longer than all the other plants currently on the market.

## CEO SERIES

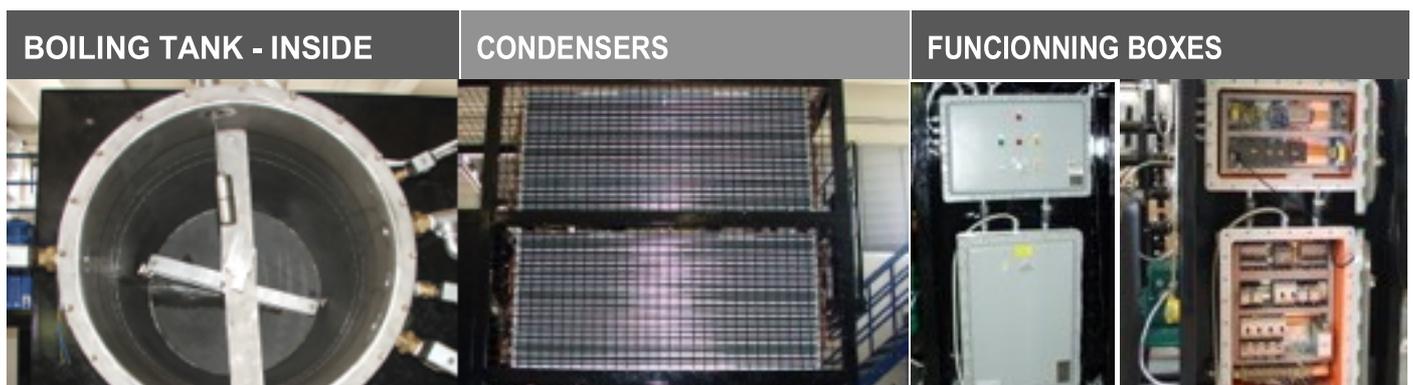


**Remote  
Control also  
with Modem  
as option**



**Regeneration plants for waste solvents totally AUTOMATIC CEO**

MODEL	CAPACITY	HOURLY PRODUCTIVITY	INSTALLED POWER	SUPPLY
CEO 500	500 l.	140-160	39 kW	400 V - 50/60 Hz
CEO 1000	1000 l.	180-220	78 kW	400 V - 50/60 Hz
CEO 1500	1500 l.	250-320	112 kW	400 V - 50/60 Hz



# PRINTING SECTOR - OTHER EQUIPMENTS

*to complete the range of offered products:*

CPV 2

CPV 3

CPV 9

CPV 2 and CPV 3 - Compactors for 25/30 liters tank. CPV 2 is pneumatic and CPV 3 is hydraulic automatic.

CPV 9 - Hydraulic compactor for 208 l. barrels



**Ex** LP COMPACT



LP COMPACT - For the washing of rotary screen printing frames. Is the solution for the automatic washing, the most delicate on the market today. Allows cleaning using solvent, also flammable, and is fully automatic pneumatic, with suction to remove solvent vapors from the operator during loading and unloading.

The same Machine, configured with other positioners is ideal to clean 25/30 liters tank.

FL PWD - Special washing equipment for 3 pails simultaneously. This machine can take tanks from 5 to 35 liters indifferently. The washing is made by rotative nozzles specifically positioned inside the washing chamber.

**Ex**



Irac Tech Tech was founded with the aim of resolving the problems arising from the use of solvents, whether flammable or not. The management involves precisely the same compliance with various safety standards, cost of acquisition and disposal. The objective of Irac Tech is precisely to give its customers the opportunity to invest less in the purchase of new solvent and to reduce to just dirty, disposal in concentration. This results in significant and immediate savings.





ANILOX

PLATES

INK TRAYS, PANS, CONTAINERS

INLINE WASHING ON THE PRESS

ROTOGRAVURE PARTS

NARROW WEB PRINTING

SOLVENT RECOVERY

Others ...

*At the service of printers around the world!*

“Companies pay too much attention to the cost of doing something. They should worry more about the cost of not doing it”.

Philip Kotler

