



HYDRO ENGINEERING  
INC

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## SCREEN RECLAIM SOLUTIONS



# AUTOBLASTER/ARS

## Automatic Screen Reclaiming

Screen reclaiming is no longer the worst job in screen printing! Autoblaster/ARS is a tool that provides perfect screen reclaim results with every screen reclaimed. Automate screen reclaiming, reduce employee exposure to overspray and chemicals with the affordable Autoblaster/ARS!



## SIMPLE FACTS ABOUT OUR COMPANY

STARTED ON // 1980

PROJECTS // 1000+

DEPARTMENTS // 6



WE HELP YOU BUILD THE RIGHT INTEGRATED STRATEGY, FIND THE RIGHT SOLUTIONS AND DELIVER BEST PRODUCTS.



## A Little HISTORY

In 1980, Hydro Engineering Inc. set the standard for screen reclaiming with the introduction of a 3,000PSI Hydroblaster that could remove ink and emulsion without damaging the screens and with little to no chemicals.

A side benefit emerged with high-pressure reclaiming. All contaminants (ink and emulsion) removed from screen by high pressure came off screens as solids. As solids these contaminants were easily removed from the waste stream by mechanical filtration methods while sending clarified water to the sanitary sewer.

This process was first patented in 1989. It included use of a 3,000PSI Hydroblaster along with a washout wastewater collection booth and filtration equipment. It was allowed as a method patent for "reclaiming silk screens".

In 1994 a cooperative project between the U.S. Environmental Protection Agency and the Printing Association nationwide completed a study that looked at risk, performance and cost as it applied to screen reclaiming. Hydro Engineering, Inc.'s screen reclaiming method was overwhelmingly successful in reducing risk and cost while enhancing performance.

Hydro Engineering Inc.'s product development team is proud to introduce - Autoblaster/ARS, automatic screen reclaim system.

## Our CERTIFICATIONS

ISO 9001:2015

Quality Management System

UL 1776

Pressure Washer Safety Standards

UL 979

Water Treatment Appliances

UL 61010-1

Electrical Equipment Safety

# AUTOBLASTER/ARS

## Automatic Screen Reclaim System

“ Autoblaster/ARScleans screens in 1-2 minutes, making it possible to reclaim hundreds per day, with perfect consistency. ”

Autoblaster/ARS design provides a safe, simple, and cost effective tool for reclaiming screens.

Goals in design of Autoblaster/ARS were to eliminate hand held pressure washers that place operators in an environment where chemical and overspray is considered hazardous and to eliminate operator fatigue and inconsistency in screen reclaim quality. Autoblaster/ARS is a tool that provides consistent results with every screen reclaimed.

Hydro Engineering's final goal for Autoblaster/ARS was cost! Start up shop to those doing very high volume should look into automating screen reclaiming. Buy or lease, we have a plan that will work for you.

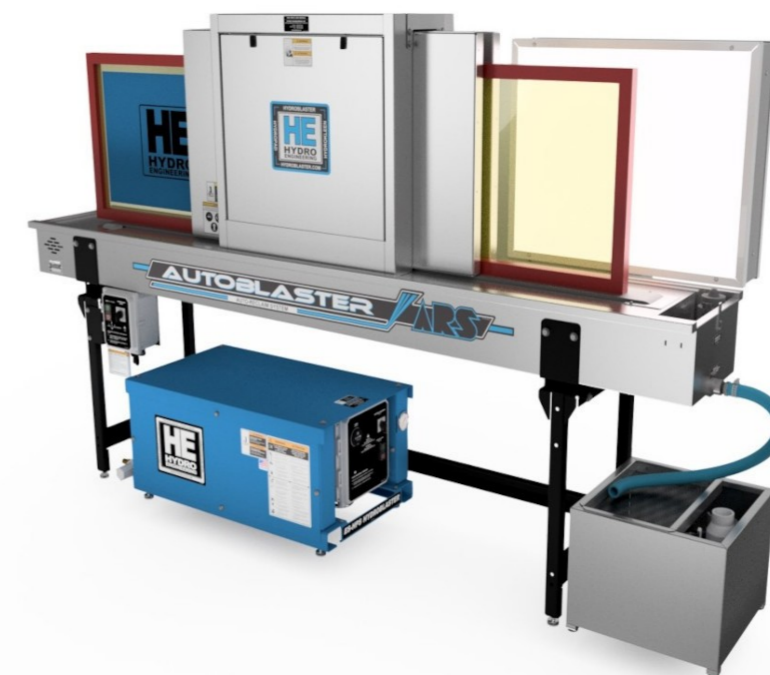
For those requiring solids filtration prior to discharge of wastewater:

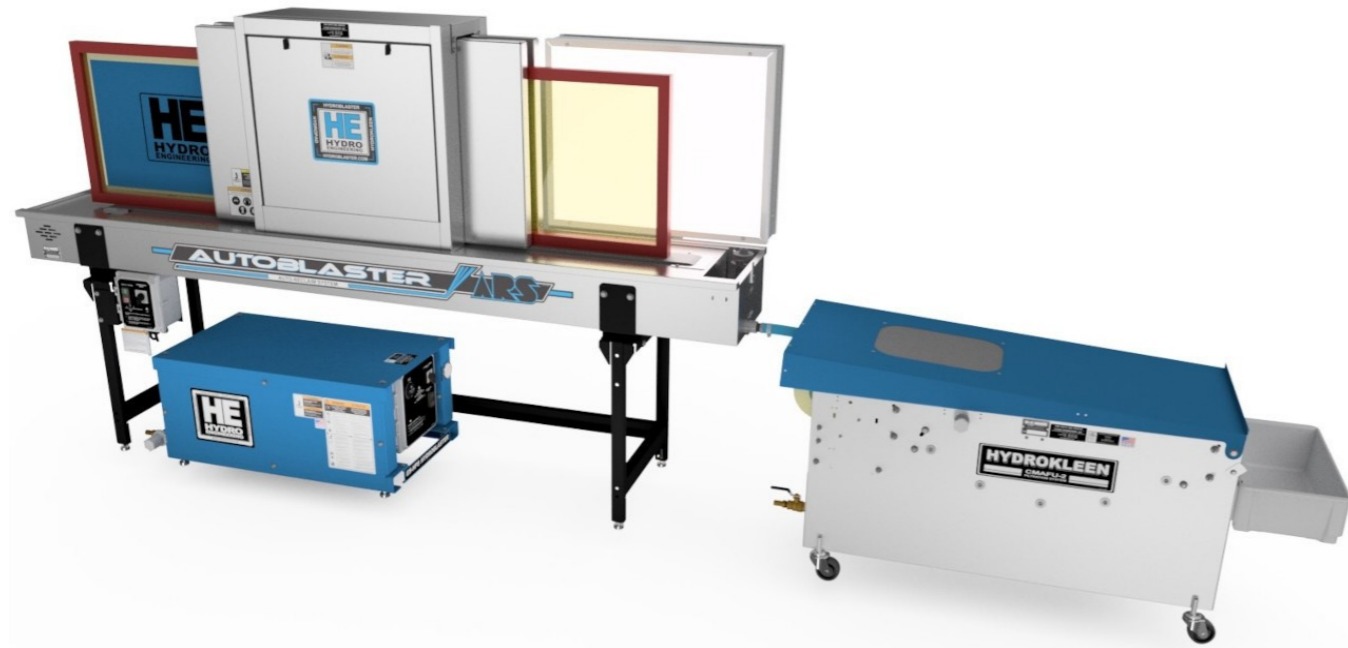
CMAFU-2 automated solids filtration system is the perfect solution for any size screen printer.

Typical steps For Reclaim Process:

1. Card excess ink at press, remove tape from frames
2. Apply emulsion remover and allow to dwell for 30 seconds
3. Place screen on conveyor, run through Autoblaster/ARS
4. Inspect screen; if there is a ghost image in screen, continue
5. Apply liquid ghost image remover, brush on ink well side of screen and allow to dwell
6. Place screen on conveyor, run through Autoblaster/ARS

This reclaim process removes ink and emulsion as a semi solid. A stainless steel sump box and pump sitting under Autoblaster/ARS drain automatically pumps collected reclaim water to your discharge point. If filtration prior to discharge is required, the CMAFU-2 will remove solids to 5 microns nominal, and can handle an unlimited volume of screens reclaimed per day.





## MORE PRODUCTS FOR SCREEN RECLAIM

You will be amazed

# SPECIFICATIONS

Screen Size	25" x 36" (optional sizes available)
Construction	Stainless steel cabinet, containment basin, entrance/exit guides and cleaning heads. Powder coated steel stand.
Controls	Remote control box, conveyor, light box and hydraulic power system.
Safety	High pressure water jets contained within cabinet, slow conveyor speed, NEMA-4X water tight control box, 24 volt control voltage.
Hydraulic Power System	7.5HP, 208/230VAC, 1 Phase, 32 AMPS 10HP, 208/230VAC, 3 Phase, 25 AMPS
Conveyor Speed	1 inch per second
Dimensions	105" L x 23" W x 65" H

### ES Series

HYDROBLASTER PRESSURE WASHERS



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Built specifically for screen printers, our Hydroblaster have been used in screen reclaiming for 40 years. Each unit is designed with the safety and reliability that our customers have come to expect.

### EI Series

HYDROBLASTER PRESSURE WASHERS



“

Electric powered, cold water pressure washer. Powered up to 5 HP and 3,000 PSI

### Hydrobooth

WASHOUT SINKS



“

Hydrobooth created the standard, now everyone else has to live up to it. The Hydrobooth screen reclaiming booth is the toughest built system on the market.

### ECIN

INTEGRATED WASHOUT BOOTH



“

ECIN, integrated Hydroblaster, Washout Booth, and Filtration system of

### CFS3

HYDROKLEEN WATER FILTRATION



“

Solids filtrations with a combination of stainless steel screens and a replaceable bag filter. Capture suspended solids larger than 20 micron nominal

### CMAFU-2

HYDROKLEEN WATER FILTRATION



“

Low maintenance gravity filter with a continuous media conveyance. Designed for solids reduction in a variety of applications



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**THANK YOU**  
for your business