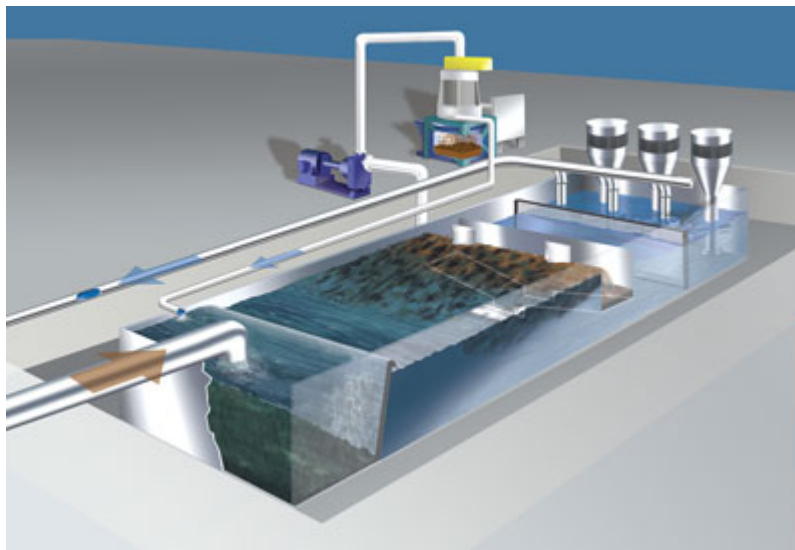


Sludge Recovery for Large Automotive Style Paint Systems:

This next generation Mass Flow™ Sludge Removal System is superior for use in higher volume water washed paint spray booth applications. These systems incorporate centrifugal removal and sludge dewatering and successfully correct traditional inadequacies. The sludge system can be designed to remove the de-tackified paint whether it floats or sinks as well as other water based sludge producing environments.

The maintenance-free system and method remove spent paint, recycling 60 to 80% of the water and the de-tackifying chemical back into the system for reuse, which keeps the



system entirely clean for prolonged periods without sludge buildup even during downtime. The system produces a residual cake for disposal having very little moisture with much less weight.

This Sludge Removal system and method provide close, constant monitoring and excellent control of the water

level in the recovery tank. With an optimum water level and proper chemicals for coagulation, the spent residue or paint flotation is maintained and the water flow in the tank is continuous. The tank cannot be blocked with sunken sludge and has proven to be a key factor in the success of the system.

The main components of this patented system include the sludge removal tank, centrifuge, agitation equipment and controls. An optional scavenger pump can be added to remove large chunks of residue or paint sludge prior to entering the chemical tank. Tank agitation through proper pumping action helps increase centrifugal efficiency, the next phase of the system.

Mass Flow™ Success Story: Like many manufacturers, a major Truck Manufacturer faced a problem when production volumes increased. Their paint booth system was originally designed for painting approximately 50 chassis per day, but increased demand required output to be 76 chassis per day. The equipment used to recover paint sludge from their paint booths no longer kept up with production volume. They chose the patented

"Mass Flow" System, which has proven to dramatically reduce costs in labor, water consumption and chemical use. Design and installation was completed in less than 3 months. Once installed, it only took a few hours to get the system up and running. After more than 12 months on-line, the 'Mass Flow' system has eliminated all traces of sediment in the water pits. This has exceeded the Truck Manufacturer's ambitious goals of reducing the pit cleaning task to once every 6 months. With this 'Mass Flow' system, the Truck Manufacturer expects to clean annually, and only if needed. In addition to labor savings because of reduced cleanup, money has also been saved on chemicals. "The centrifuge is so efficient, we don't need a lot of extra chemicals to coagulate the residue or paint. And, this system virtually eliminates clogging."

An initial cost analysis has demonstrated an annual savings of nearly \$100,000.



To learn how US Centrifuge can help you design a proper paint sludge recovery system or solve an existing paint sludge problem please contact us: Call toll free 800-899-2040 or 317-299-2020 and we will refer you to one of our paint sludge recovery specialist.

Or e-mail Scott Behrens directly at sbehrens@uscentrifuge.com

Water Wash Paint Booth Application Questionnaire

Company		Contact	
Address		Phone #	
City		Fax #	
State & Zip		E-Mail	

Product Manufactured			

US Centrifuge Representative	Date	
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Application Information

Booth Style and Original Manufacturer	Water volume in booth or pit	Robot or manual	Paint type	Gallons of paint sprayed per day	Paint solids	Transfer efficiency	Production hrs per day
1.					%	%	
2.					%	%	
3.					%	%	
4.					%	%	
5.					%	%	

Chemical Supplier		Chemical Rep		Phone #	
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Chemical Treatment Program	None	Floating	Suspend	Sinking
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Describe the booth agitation				
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Current method of booth or pit filtration				
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Current method of solids de-watering				
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Sludge volume generated per day		Sludge dryness	%
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Sludge classification	Hazardous	Non hazardous	Other
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Sludge disposal method	Landfill	Incineration	Other
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Sludge disposal cost	\$ / month	\$ / year
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Liquid classification	Hazardous	Non hazardous	Other
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Liquid disposal method	City sewer	Plant waste treatment	Other
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Liquid disposal cost	\$ / month	\$ / year
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Goals and objectives of potential centrifuge installation: (please circle all that apply)

Reduce sludge volume	Reduce booth maintenance time	Reduce booth maintenance labor	Increase production up time	Increase production capacity	Minimize floor space requirements
Reduce sludge disposal costs	Reduce liquid disposal costs	Improve booth water quality	Reduce chemical costs	Eliminate filter media costs	Minimize handling costs

Other desired benefits			
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Plant voltage	Available floor space and ceiling height
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Please fax completed survey to US Centrifuge @ 317-299-2284 or call 800-899-2040