



**Vector spray** to deconstruct, push and break up floating dense materials on the surface and floor of Thickeners, Concentrators, Primary/Secondary tanks to the scum beach. **CENTER FEED WELL DECONSTRUCTION OF INLET MATERIALS.** 100% retrofittable to all existing tanks and bolts on/no draining. **Swivels up to clean out!** Vector spray breaks open, releases the trapped gases and deconstructs the feed material. By breaking down the surface, Nocardia growth is also eliminated mechanically by physically breaking down and removing the growth environment. Directs material to the inlet of the skimmer beach especially if not aligned with the bridge/walkway. Drained tank floor directional automated cleaning cleans tank floor with no operator tank entry required. | [Clarifiers](#) | [Concentrators](#) | [Thickeners](#) | [Covered Tanks](#) | [Primary Clarifiers](#) | [Digesters](#) | [Chain/Flight Tks](#)



**Eco-Blaster, BCS** (Biological Control Systems) are designed to deconstruct foreign material accumulation where a linear spray had unsuccessfully been applied. Moving spray prevents collection and re-incorporates the material back into solution and/or removes the offending material. As the foreign material is broken apart under the Eco-Blaster, BCS, the surface tension is reduced which allows the surrounding material to automatically expand into the Eco-Blaster, BCS suppression zone. Large tank applications can be designed to address part or the entire tank surface. Heavy accumulations of material will be driven back into solution. | [Aeration Basins](#) | [Oxidation Ditches](#) | [Digesters](#) | [Headworks](#) | [Feed Wells](#) | [Splitter Boxes](#) | [Bar Screens](#) | [Thickeners](#) | [SBR](#) | [Aeration Zones](#) | [Equalization Basins](#) | [Rotating Screens](#) | [Static Screens](#) | [Outfalls](#) | [Belt Presses](#) | [RBC's](#) |



**WeirWasher, ACS** (Automated Cleaning Systems) remove the algae, scum, grease and other material from the weirs and other surfaces on clarifiers, thickeners, and other tanks. WeirWasher ACS uses the plant's non-potable water to clean irregular and porous surfaces, bolts, and any other irregularities. We have systems for square and irregular applications as well. WeirWasher ACS designs have been in service since 1994. Our lancing nozzles are in use in many industrial applications. WeirWasher ACS can clean surfaces under the water level beyond one foot under water. Every type of



trough/laundry design every constructed, such as internal troughs, wall mounted troughs, fiberglass with cross supports or concrete obstructions. | [Papermills](#) | [Chemical facilities](#) | [Pharmaceutical](#) | [Wastewater](#) | [Mining](#) | [Oil Refineries](#) | [Secondary Clarifiers](#) | [Thickener Tanks](#) | [Primary Clarifiers](#) | [Concentrators](#) | [Water Treatment](#) | [Food Production Facilities](#) | [Animal Feed](#) |



**Rover** Automated cleaning of transverse and longitudinal applications was impossible, UNTIL NOW! Operators have been required to un-safely enter tanks to clean and remove the accumulation of material in the center of the tanks, outfalls, or other areas. Most situations are dangerous and present possible drowning situations, slip and fall injuries, exposure to untreated materials, and exposure to extremely dangerous environments. With the reduction of facility budgets and staffing, the operational performance of equipment and its maintenance have a tendency to be reduced or neglected. With automated cleaning, plant efficiency can be maintained. | [Plate/Tube Settlers](#) | [Wastewater](#) | [Step outfalls](#) | [Sand Filters](#) | [Water Treatment](#) | [Chain/Flight Clarifiers](#) | [Radial Weirs](#) | [Mining](#) | [All Radial Straight Trough/Channels](#) |



**Belt Blaster** Belt Blaster cleans from either side and penetrates through the belt not only cleaning the back side of the belt but also through the weave and out the other side. All material trapped in the belt is blown through the weave, leaving the belt weave clean and free of material, which reduces water pressure and flow requirements. By concentrating the water spray into a concentrated stream, full penetration of the fabric weave is achieved at substantially lower pressure and water flow rates due to the Patented Rotating Spray Bars. | [Gravity Thickener](#) | [Tower Press](#) | [All Manufacturers](#) | [All Fabric Styles](#) |



**Stainless Weirs** Stainless Weirs are used on tanks and channels to evenly distribute liquid and regulate flow in process industries. **NEVER BUY WEIRS/BAFFLES/BRACKETS AGAIN!** Lifetime one piece, angle/truss bracket design, 10ft welded sectioned, Baffled Stainless Weirs assemblies can move to new tank and last forever. Deep trough scum beach upgrade retrofit old scum beach. Scum baffle verticle angle bracket retrofit 1/8" wide vs. 4"= lower velocity and less carryover/higher blanket.High Flow Split Plate. | [11 Year Warranty](#) | [10 Ft WELDED Sections](#) | [Ice Proof](#) | [UV Proof](#) | [Lifetime Weirs](#) | [Vertical Brackets](#) |



**Screen Blaster** Cleans the gaps in the screen surface using high impingement force solid stream spray. BOD Cutter can deconstruct the screen material while over the trough as Headworks screens have a goal of less than 10% organic biological solids in the screened materials to (quoted at an additional price to meet <10% organic): reduce odor | increase or improve the nutrient total organic carbon recovery or capture | reduce the fees/charges at the landfill for >10 Organic/fecal dumping fee/cost. Existing fans sprays wash...Screen Blaster cleans through the holes/mesh/plates.





**Vector Spray**

**Eco-Blaster**

Before After

**WeirWasher**  
AUTOMATED CLEANING SYSTEMS

**Rover**

**Belt Blaster**

**Stainless Weirs**

**Screen Blaster**

