RAMCO

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INTRODUCTION - Dynamic Flow Combination

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IMMERSION TECHNOLOGY - THE RAMCO DIFFERENCE

RAMCO Immersion Technology is defined as the use of a combination of mechanical motions within a liquid bath or drying chamber to facilitate a specific process objective.

The process can be general cleaning for applications like degreasing, precision cleaning, or stripping. The soils to be removed typically are oil, grease, dirt, smut, chips, polishing compounds, carbon, paint, ink, wax, casting residues, oxides, etc.

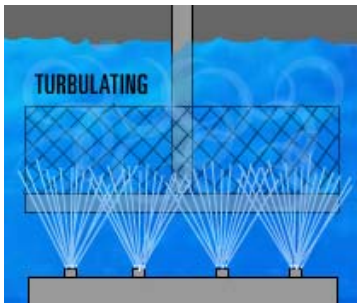
The process can also involve surface treatment, surface preparation, NDT or other procedures where parts are immersed in a liquid processing chamber.

The key to the RAMCO difference is the effective use of an elevator within each processing chamber. The elevator is used to transport the work into and out of the chamber but its most important function is to *continuously move* the work within the processing zone.

It is this dynamic function that allows RAMCO systems to achieve superior results in washing, rinsing, and drying.

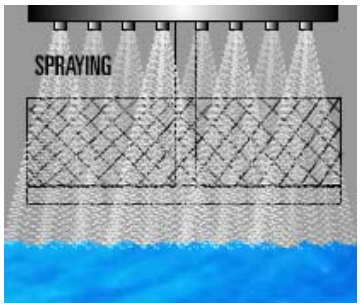
We call this Dynamic Flow Combination. The effect of Dynamic Flow Combination is better coverage of component surfaces (minimizing standing waves and/or part shadowing) producing more consistent results and accelerated processing times.

Creating Dynamic Flow Combinations



Combining platform oscillation with turbulent immersion washing / rinsing results in constantly changing flow patterns to provide an even flow of turbulence over, under, around and through components.

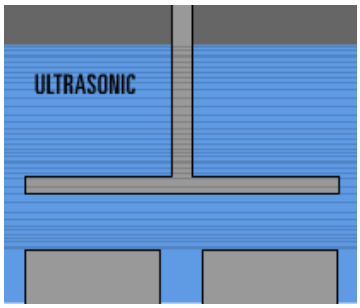
Click Here to see Turbo video 1
Click Here to see Turbo video 2

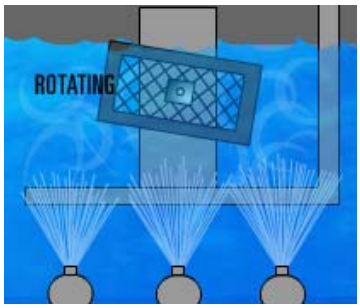


Combining platform oscillation with pressure spray washing / rinsing results in constantly changing spray patterns to minimize shielding and improve coverage onto all surfaces of the parts.

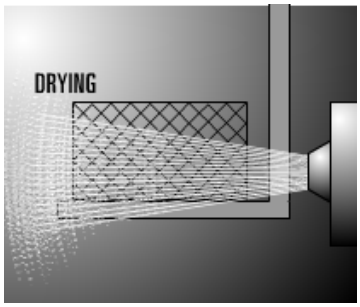
Ultrasonic cleaning is improved by using the oscillating platform to gently move the load throughout the ultrasonic working zone. Furthermore, ultrasonic stages can be alternated with turbulating stages (MultipleRollover). This is a particularly effective way to handle stubborn contaminants such as buffing or lapping compounds.

Click Here to see ultrasonic/agi/turbo video





Using a Parts Rotator on an oscillating platform increases solution flow - breaking in and out of solution filling and draining blind holes - with each oscillation.



Using high volume hot air combined with changing air flow patterns created by the oscillating elevator provides rapid drying without excessive heating.