

Merthod and system of Utensil washing ina Multidirectional Rotating drum

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ABSTRACT

A method (300)and system (101) of washing utensils in a multidirectional rotating drum (103) is disclosed. The system (101) includes an outer drum (102). The outer drum (102) includes the multidirectional rotating drum (103) with an umbrella-shaped mounting device (206) for suspending a plurality of meshed cages (204) for placing a plurality of utensils. A spindle (202) for rotating the multidirectional rotating drum (103), driven by a pair of motors located in a driver chamber (110). A drain chamber (112) for collecting and filtering liquid waste and solid waste. A lid (104) on top of the outer drum (102) for structural stability. A control panel (106) positioned on a support beam (108) above the lid.

KEY APPLICATION AREAS

- 1.Commercial kitchen automation.
- 2.Institutional and mass-catering dishwashing.
- 3.Hospitality and food-service operations.
- 4.Industrial cleaning equipment.
- 5.Hygienic sanitation systems for utensils.

POTENTIAL USE

- 1.Restaurants, hotels, and cafeterias washing large batches of utensils.
- 2.Hospitals, schools, and community kitchens requiring hygienic cleaning.
- 3.Catering services handling high-volume dishwashing.
- 4.Automated cleaning of heavily soiled utensils, plates, and cookware.
- 5.Facilities seeking reduced labor, time, and water-management effort through automated wash cycles and multidirectional drum rotation.