

OPERATION & MAINTENANCE MANUAL

Midi 400 System

Supplied to

Westwind Products Ltd

Machine No.

M292

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SYSTEM SPECIFICATION

MecWash - 300/400/500/600 Industrial Washing System SYSTEM Specification: Supplied Re-circulating Wash (High volume)(Flood and Spray) Re-circulating Wash (Rear Feed) Wash Cartridge Filter Wash Bag Filter Wash Chemical Dosing Pumps Re-circulating Rinse (High volume) Re-circulating Rinse (High pressure) Hot Total Loss Rinse (High pressure) Cold Total Loss Rinse (High pressure) Rinse Cartridge Filter Rinse Bag Filter Rinse Chemical Dosing Pumps Oil Skimmer Tramp Oil Separator AquaSave Water Treatment System Hot Air Dry Hot Air Temperature Controller De-min Monitoring Relay De-min Cylinder Automatic Drain Pump Steam Condenser Roller Conveyor **Cooling Tunnel** Vacuum 880 Litres Fluid capacity of re-circulating wash tank 770 Litres Fluid capacity of re-circulating rinse tank 50 Litres Fluid capacity of total loss rinse tank

Machine Weight: Machine temperature limits (ambient) 2500-300Kgs. Net Nominal >5deg.C <40deg.C

2. INTRODUCTION

- This MecWash system has been designed for the cleaning and degreasing of a wide range of metal components, including fasteners, turned parts, pressings, extrusions, stampings. or metal components, including stampings castings, forgings and plastic components to remove machining and forming lubricants,
- The MecWash system is a single chamber multi-process system that provides excellent washing performance by continuously rotating the workload under a high volume/low
- A feature of the MecWash system concept is the ability to carry out a number of different washing and drying functions all in the same system under a flexible programmable controller. Systems are supplied with some, or all of the options listed below. (See 'System Specification' Chapter to see which options are fitted to your machine). The different operations occur sequentially, and in the order shown.

1.	Flood Wash (re-circulating, hot or cold)
2.	Spray Wash (re-circulating, hot or cold)
3.	Rear Wash (through fixture manifold)

Wash return (and air purge)

Flood Rinse (re-circulating, hot or cold) 5. 6. Spray Rinse (re-circulating, hot or cold)

7. Rinse return (and air purge)

8. Demin Loss Rinse (cold returning to re-circulating rinse).

9. Loss Rinse Return (and air purge)

10. Hot Air Dry 11. Vacuum Dry

- The wash chamber, solution tanks, pumps, filters, pipe-work and other 'wetted' parts of the system are manufactured in stainless steel or other non corrosive materials, allowing both acidic and alkaline solutions to be used in the process. The MecWash system can therefore be used to carry out a wide range of cleaning, surface preparation and surface finishing applications, including chromate conversion and phosphate coatings.
- Process chamber apertures.

The Mini MecWash '300' system has a wash chamber measuring approximately 300mm wide by 300mm high by 400mm or 600mm long.

The Midi MecWash '400' system has a wash chamber measuring approximately 400mm wide by 400mm high by 600mm long.

The Maxi MecWash '500' system has a wash chamber measuring approximately 500mm wide by 500mm high by 800mm long.

The Maxi MecWash '600' system has a wash chamber measuring approximately 600mm wide by 600mm high by 800mm long.

The systems can process components in plastic and metal tote pans, Euro-size plastic containers, wire mesh baskets or dedicated component fixtures. Cleaning the components in their standard containers reduces handling and eliminates the risk of placing cleaned components back into dirty containers.

Other process drum aperture sizes are often accommodated, dependant on the application. See component loading guide in section 3 of this manual.

The air temperature control option allows the temperature of the drum to be restricted for MecWash Systems Ltd. heat sensitive components, and plastic containers.

- The vacuum option assists flash drying of components with blind galleries or recesses.
- It is important that the machine is used within its designed specification as supplied and parts
 that are required for replacement are of the same design and performance specification. Any
 deviation to the type and performance specification will absolve MecWash of any further
 responsibility or liability of the machine specification and performance criteria.
- Different methods of rotation are available to cater for delicate components, or open top trays.