MECWASH DUO 400 SYSTEM - TECHNICAL DETAILS

General Specification

Overall Machine Size (w x d x h) 1530 x 1635 x 2235mm Machine Unladen Weight 1500 kilos Wash Chamber Size (w x h x l) 400 x 470 x 650mm Maximum Load Weight 100 kilos Load Height 1000mm Basket Rotation/Oscillation Speed Noise Level 75 dBA Service Connections Power Supply 3 phase + earth 400v 50Hz Control Voltage 24vdc Full Load Current 54A/34KVA Water Supply (soft or demineralised) 3 bar Compressed Air Supply 5.5 bar 11/2" BSP Drain Connection Wash Specification Wash Tank Volume 520 litres Wash Pump Rating 1.85 kw Wash Flow Rate 500 litres/minute Wash Pressure 1 bar Wash Tank Heater 18 kw Maximum Wash Temperature 90°C **Rinse Specification** Rinse Tank Volume 250 litres **Rinse Pump Rating** 1.5 kw 150 litres/minute **Rinse Flow Rate Rinse Pressure** 2 bar **Rinse Tank Heater** 12 kw Maximum Rinse Temperature 90°C **Drying Specification** Drying Blower **Blower Flow Rate** 360 m³/hour

Standard Equipment:

- Stainless steel pump
- Stainless steel tanks, pickled and passivated
- Stainless steel wash chamber
- Stainless steel inner drum assembly
- Stainless steel wash in-line bag filter (10-100µm)
- Stainless steel rinse in-line cartridge filter (10-100um)
- Stainless steel wash and rinse strainer baskets (500µm)
- High volume heated re-circulating spray/flood wash
- High volume heated re-circulating spray rinse
- Mains water mist spray rinse
- Insulated solution tanks
- Incalloy water heating elements
- Automatic water level control with inlet filter (5µm)
- Integral wash oil separator
- High velocity hot air dry
- Rotation, oscillation and stationary wash options
- PLC controlled with operator HMI display
- · Automatic process door with viewing window
- Easy to access liquid tanks for cleaning
- Mild steel frame and panels, powder coated and stoved with RAL 7035 Goosewing Grey leatherette finish

Optional Equipment:

- Automatic wash & rinse chemical dosing units
- Water purity cylinders, meter & alarm
- Integral steam/vapour condensation unit
- Wash baskets, containers & fixtures
- Extension of process chamber to 800-1000mm long
- Roller conveyor 400-600mm wide x 2m long with Integral drip tray, storage shelf, guide rails and end stops
 - Agua-Save Junior wash & rinse water recycling system



MeeWash Due

MecWash DUO 400



NEW COMPACT

DESIGN

ROTATIONAL SPRAY/FLOOD WASH

MECWASH SYSTEMS LIMITED

64 Hundred, Severn Drive

Drying Heater

Maximum Drying Temperature

Tel +44 (0) 1684 271600 Fax +44 (0) 1684 271601

12 kw

140°C

Email enquire@mecwash.co.uk Web site www.mecwash.co.uk













HIGHER STANDARDS, LOWER COSTS

THE DUO IS A COMPACT FULLY ENCLOSED SINGLE CHAMBER ROTATIONAL SPRAY WASHING, RINSING & DRYING SYSTEM FOR CLEANING ALL TYPES OF METAL AND PLASTIC ENGINEERING COMPONENTS

- No Solvents
- No Emissions
- Future Proof
- High Performance
- Competitive Price

The increasing demand for higher standards of cleaning performance from lower cost systems is provided by the new Duo component washing, rinsing and drying system from MecWash. Based on the successful Solo series washing and drying systems, of which over 200 have been supplied to customers around the world, the new Duo adds a high volume flood/immersion cycle and a powerful spray rinsing stage that together achieve very high standards of surface finish and cleanliness. The Duo wash chamber contains over 100 high volume jets that thoroughly penetrate and saturate the workload to provide clean components whether placed in metal baskets or plastic containers. The high volume cleaning process, for which MecWash is renowned, penetrates through masses of small parts and

layers of components in divided plastic containers. Full rotation of the workload at 3rpm exposes all surfaces to the wash and rinse solutions and ensures effective draining and drying. Alternatively parts with simple geometries can be programmed to gently oscillate from side to side. The washing and rinsing process is followed by a high velocity ambient or heated drying cycle that completely dries the parts in total cycle times of only 5-10 minutes.

The high equipment specification includes an operator HMI display with 6 variable programs, live process data and fault diagnostics, together with an integrated oil removal process and vapour condenser. The Duo is a compact, fully automatic and self contained aqueous cleaning system that can be located in a cell or used as a centralised facility. The further addition of the MecWash Aqua-Save water recycling system will greatly reduce the need for effluent disposal and clean downs by recycling both the wash and rinse waters. Typical applications include Turned Parts, Pressings, Extrusions, Machined Castings and Components used in the automotive, aerospace, defence, hydraulics, pneumatics, electrical, domestic and general engineering industries.



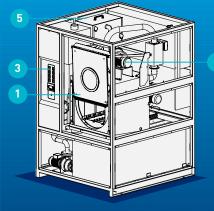


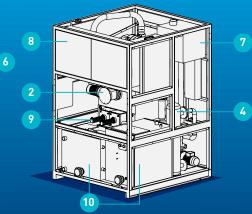












- Automatic vertical insulated door with viewing window.
- Optional rotation, oscillation and static component settings.
- PLC/HMI Operator Display with variable programs (6), live process data and fault diagnostics.
- In-line filtration comprising 500µm strainer baskets and 10-100µm bag and cartridge filtration.
- High capacity integral oil separator maintains wash solution cleanliness.
- High Velocity Hot Air Drying effectively and quickly dries even densely packed components.
- 7. Integral Steam Condenser eliminates need for flue/extraction
- Integral Control Enclosure saves floor space.
- 9. Wash and Rinse return valves are designed to self clean and prevent carry over.
- Insulated wash and rinse tanks minimise heat loss and save energy.

