

MecWash
nobody washes it better



SOLO



DUO



MWX

HIGH PERFORMANCE AQUEOUS **COMPONENT CLEANING**

EXPERTS IN COMPONENT CLEANING PROCESS, CHEMISTRY & TECHNOLOGY

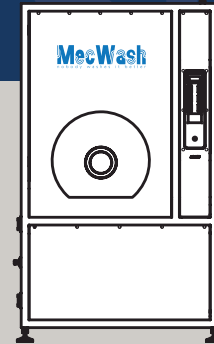
SOLO

SOLO SYSTEM

INTER-STAGE WASHING & DRYING SYSTEMS

Developed to satisfy the needs of inter-stage, in-cell and in some cases final cleaning of machined components. The Solo system is supplied in three sizes, all of which provide rotational washing, mist rinsing and hot air drying in a very compact footprint, saving on valuable floor space. The Solo far outperforms traditional dunk washers, rotary basket and tunnel washers for cleanliness and effective drying.

- Effective removal of preservative oils, machining lubricants, metal swarf and chips from machined components
- Fully enclosed – no steam and unpleasant odours
- Rotational high volume spray washing, mist rinsing and hot air drying
- Very compact footprint, saving valuable floor space
- Over 200 Solo systems have been supplied to customers around the world



Solo 300
Spray Wash; Mist Rinse;
Hot Air Dry.
Wash Chamber
300 x 300 x 400mm
Machine Dimensions
1125 (W) x 1230 (D) x
1900mm (H)

Solo 400
Spray Wash; Mist Rinse;
Hot Air Dry.
Wash Chamber
400 x 450 x 600 – 1000mm
Machine Dimensions
1275 (W) x 1445 (D)
x 2100mm (H)

Solo 600
Spray Wash; Mist Rinse;
Hot Air Dry.
Wash Chamber
600 x 600 x 800mm
Machine Dimensions
1575 (W) x 1845 (D)
x 2700mm (H)



DUO

DUO SYSTEM

GENERAL PURPOSE WASHING, RINSING & DRYING

The Duo system is a natural progression of the established Solo system. The Duo has the added benefits of flood/immersion washing, which provides higher standards of cleaning by full solution contact with all component surfaces, and a re-circulating heated spray rinse, which provides higher standards of surface finish by removing detergent residues left by the wash solution. The rinse stage can also be used to apply a longer term corrosion inhibitor for ferrous components. All finished off with a hot air dry.

- Highly versatile aqueous cleaning system, suits both large components and dense baskets of small parts
- Final wash quality with intermediate wash cost
- Precision cleaning, but footprint small enough for a cell
- Optional integrated oil separator and steam condenser



Duo 400
Flood/Spray Wash;
Spray Rinse; Hot Air Dry.
Wash Chamber
400 x 450 x 600 – 1000mm
Machine Dimensions
1530 (W) x 1635 (D)
x 2235mm (H)

Duo 600
Flood/Spray Wash;
Spray Rinse; Hot Air Dry.
Wash Chamber
600 x 650 x 800 – 1000mm
Machine Dimensions
2063 (W) x 2295 (D)
x 2985mm (H)



MWX

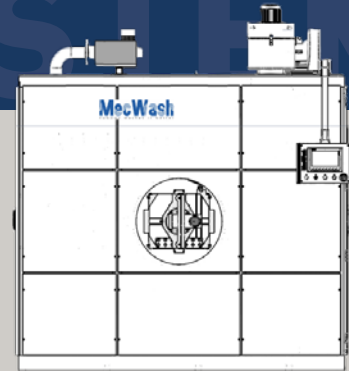
MWX SYSTEM

PRECISION CLEANING TO THE HIGHEST STANDARDS

The MWX range provides the ultimate flexible aqueous component cleaning and degreasing systems. They can combine ultrasonics with high flow washing, rinsing, dedicated jetting (MWX400) and vacuum drying.

The MWX range is designed to process complex and intricate machined or pressed parts that require very high standards of cleanliness, surface finish and drying. This includes the removal of all types of contamination, from soluble and mineral oils to greases, polishing compounds, lapping pastes and dye penetrants.

- Satisfies the high demands of the aerospace, defence, nuclear, medical and other precision industries
- The MWX300 is a compact version of the MWX400, for location in small volume high precision machining cells
- Very high quality cleaning and drying of precision engineering components



MWX300

Flood/Spray Wash; Flood/Spray Rinse; Ultrasonics; Hot Air & Vacuum Dry.

Wash Chamber

300 x 300 x 400mm

Machine Dimensions

1400 (W) x 1750 (D) x 2470mm (H)

MWX400

Flood/Spray Wash; Flood/Spray Rinse; Ultrasonics; Hot Air & Vacuum Dry.

Wash Chamber

400 x 470 x 600 – 2000mm

Machine Dimensions

2500 (W) x 2100 (D) x 2470mm (H)

MAXI 600

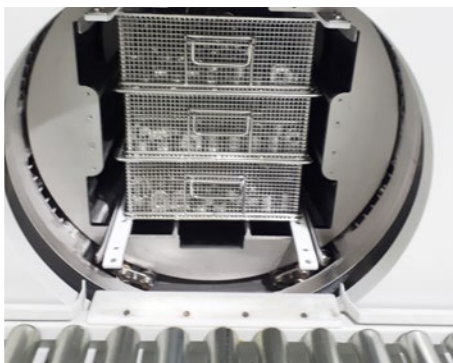
Flood/Spray Wash; Flood/Spray Rinse; Ultrasonics; Hot Air & Vacuum Dry.

Wash Chamber

600 x 600 x 800 – 1000mm

Machine Dimensions

3830 (W) x 2015 (D) x 2400mm (H)



The MXW400 and Maxi machines are also perfect vehicles for the dedicated jetted fixtures that are used to clean the most complex shapes, with blind holes, oil and fuel ways and internal galleries



From basic baskets and manual loading through sliding load pallets and automated conveyors to robotics, the MWX400 and Maxi integrate easily with any production layout.

BESPOKE BUILDS

Sometimes a new product or a unique cleaning requirement demands a truly bespoke process or system and we are always delighted to work with our customers to overcome these engineering challenges.

Working closely with our customers enables MecWash to build machines that are uniquely suited to particular cleaning challenges and give excellent results.



AQUA-SAVE

HIGH PERFORMANCE WASH WATER RECYCLING & WASTE WATER TREATMENT

The Aqua-Save range is designed to recover and re-use industrial waste water such as wash and rinse solutions, waste coolant and dye penetrants. This reduces the potentially high cost and inconvenience of off-site disposal with an environmentally sustainable approach. The Aqua-Save maintains optimum process performance, reduces downtime and satisfies environmental demands for recycling and waste reduction.

- Up to 95% reduction in disposal costs
- Range recycles 10 – 30 litres per hour
- Wash water, waste coolants and general waste water all treated
- Can be added to an aqueous wash system to maintain solution cleanliness and washing performance, whilst reducing machine downtime and minimizing effluent disposal

Aqua-Save Ultra

Machine Dimensions
650 (D) x 1600 (W)
x 1500mm (H)
Solution processed/hour
20-30 litres/hour



Aqua-Save Junior

Machine Dimensions
415 (D) x 1100 (W)
x 1500mm (H)
Solution processed/hour
10-15 litres/hour



PRECISION CLEANING

OF ENGINEERING COMPONENTS

SOLVENT FREE • SMALL FOOTPRINT • HIGHLY VERSATILE
ENVIRONMENT FRIENDLY • COMPETITIVE PRICE • ENGINEERED TO LAST

MECWASH SERVES MANY OF THE LEADING NAMES IN ENGINEERING, IN SECTORS SUCH AS AEROSPACE, AUTOMOTIVE, FLUID POWER, DEFENCE, MEDICAL, MOTORSPORT AND GENERAL ENGINEERING. OUR RANGE OF SYSTEMS INCLUDES INTERMEDIATE WASH MACHINES AND HIGH PRECISION FINAL WASH MACHINES.



MecWash are true experts in the process of washing, supported by our laboratory for wash trials and developing our own detergents to ensure the perfect finish in challenging applications. Our machines are both highly efficient and robust, thriving in tough industrial environment. MecWash systems are used to clean turned parts, machined castings, pressings and extrusions and many other engineering components.

MecWash apply very high volumes of water to produce heavy spray and flood washing processes that penetrate and clean masses of small parts in baskets or complex parts in specialised fixtures.

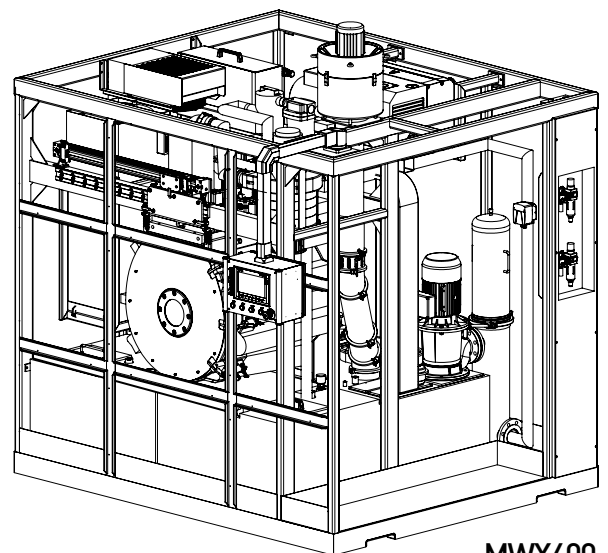
Full rotation of the workload exposes all the component surfaces, machined holes, recesses and galleries to the process solutions and provides effective draining and drying. Parts with

simple geometries can also be gently oscillated from side to side.

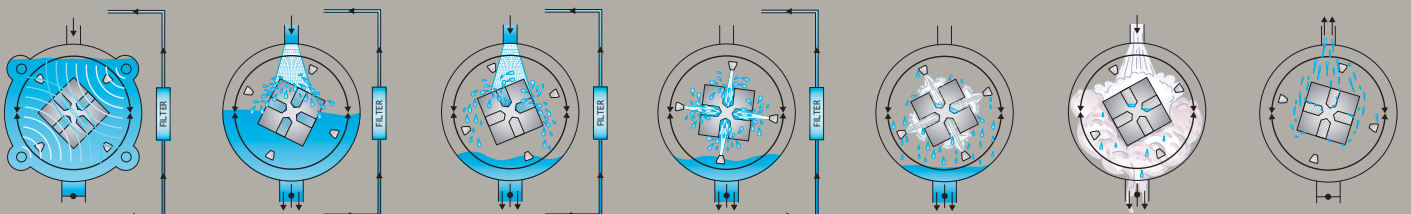
Ultrasonics can be specified to help clean small holes and to remove fine particles and tenacious contaminants such as heavy oils, polishing compounds and lapping paste from the component surfaces.

For components with complex geometries, internal galleries, oil ways or blind holes we have developed a dedicated jetting system. This comprises nozzles that rotate with the moving part, continuously blasting solution into the critical features using tailored fixtures.

This ensures fast, effective and consistent cleaning. The process concludes with high velocity hot air and vacuum drying to ensure rapid removal of water from the cleaned components.



MWX400



Ultrasonics

Flood

Spray

Dedicated Jetting

Purging

Hot Air Dry

Vacuum Drying

SYSTEM SELECTION CHART	SOLO	DUO	MWX300	MWX400	MAXI 600
Ultrasonic wash			•	•	•
Flood Wash		•	•	•	•
Spray Wash	•	•	•	•	•
Ultrasonic Rinse			•	•	•
Flood Rinse			•	•	•
Spray Rinse		•	•	•	•
Mist Spray Rinse	•	•	•	•	•
Dedicated Jetting				•	•
Hot Air Dry	•	•	•	•	•
Vacuum Dry			•	•	•
Single Direction Fixed Speed Rotation	•	•			
Both Direction Variable Speed Rotation		•	•	•	•
Wash Bag / Cartridge Filter	•	•	•	•	•
Rinse Bag / Cartridge Filter		•	•	•	•
Oil Separator / Skimmer	•	•	•	•	•
Vapour Condenser	•	•	•	•	•
Manual / Automatic Load Tables or Roller Conveyors	•	•	•	•	•
Siemens PLC / HMI Display	•	•	•	•	•

THE CHOICE OF THE WORLD'S LEADING ENGINEERS...

MecWash systems are supplied and supported around the world, either direct from the UK, or through a network of agents and distributors, with installations in the USA, Canada, Mexico, China, India, Singapore, Thailand, Indonesia, Australia and throughout Europe.

Customers include Rolls-Royce, ZF TRW, BorgWarner, JCB, Parker Hannifin, Perkins, Collins, Pall, Eaton, Renishaw, Jaguar Land Rover, Pratt & Whitney, Cummins and Triumph Motorcycles. These blue chip companies are not only leading organisations within their fields, they are also part of a track record of which we are proud. It is our deep knowledge of the process, chemistry and technology of aqueous component cleaning which provides valued, tangible benefits that our customers worldwide readily acknowledge.



MECWASH SYSTEMS LIMITED

64 Hundred, Severn Drive
Tewkesbury Business Park

Tewkesbury, Gloucestershire
GL20 8SF, UK

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

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