

## Vixen Surface Treatments 4 Stage Dunk Wash with Ultrasonics



**Stock Code:** DZ1360J

**Manufacturer:** Vixen Surface Treatments

**Model:** Vixen 4 Stage Dunk Wash with Ultrasonics

**Year of Manufacture:** 2015

**Serial:** 2794

**New or Used:** Used (Second Hand)

**Work Envelope (WxDxH mm):** baskets 590 x 390 x 190

**Process Stages:** 4

**Other Info:** 5 off baskets

**Weight:** 1880

**External Dimensions (WxDxH):** 5500 x 1500 x 1860

Vixen automatic 4 Stage Dunk Wash with Ultrasonic cleaning and hot air drying

Vixen have developed a modular multi stage immersion wash system which transports the baskets automatically. The modular construction enables any number of wash and dry stages and the components are simply placed in baskets and are transported through the wash system using a PLC programmable interface.

Immersion washing is the preferred means of cleaning where spray washing does not guarantee to reach all areas.

In addition to the dunk cleaning this machine is fitted with a second stage wash using ultrasonic to remove finer particles that may be lodged into the components. For instance a basket full of small components cannot be spray washed successfully as the parts usually mask each other. This prevents successful spray washing taking place where as an immersion system would wash these successfully.

Another example may be machined parts with a number of ports where once again the immersion principle succeeds.



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The benefit of the Vixen multi stage system is that baskets can be loaded at the entry side by hand or a powered conveyor for instance. Once in position a basket is detected and automatically transported into the first stage wash.

A PLC controlled machine with basic HMI and nudge facilities etc are incorporated in the standard control panel.

Touch screen controls with additional functions can be Immersion washing is the preferred means of cleaning where spray washing does incorporated to suit different applications.

The basket is moved by a pneumatically driven sledge which moves the basket on a sledge type system.

This system is extremely reliable. Once the basket is in position and has been lowered pneumatic covers automatically lower over each chamber.

### First Stage - Heated Wash

Components are transported from the load station onto the first stage wash platform and this lowers the basket into a hot aqueous solution. The solution has underwater jetting and filtration. The basket sitting on the platform submerged is agitated (variable speed) in the solution which creates a flushing action removing oils and debris etc. The coalescent constant filtration helps keep the fluid free of debris and an oil water separator is available to remove heavy oil contamination if required.

### Second Stage - Ultrasonic Cleaning, heated solution

After exiting the first stage wash the components are transported automatically to the next stage. This stage is fitted with ultrasonics which clean and remove any fine particles still on the components. It is important with ultrasonics that oil contamination is minimal as this significantly reduces ultrasonic cleaning action.

Therefore the first stage would remove excess oil enabling good ultrasonic cleaning action.

### Third Stage - Heated Rinse

The third tank is for rinsing and in this machine a heated, circulated and filtered rinse system is in place. For best rinse results it is recommended that a deionised water is used. This gives minimal staining to the product.

### Fourth Stage - Dry

After the previous rinse cycle the components are transported into a drying chamber. To a degree the components will flash dry depending on the complexity of the component. To assist drying a hot air drying chamber will remove excess moisture. A series of high pressure blowers can be incorporated if required into this chamber as the basket lowers.

Features 5 Wash Baskets 4 Tanks, Dunk wash, Ultrasonic wash, Rinse and hot air drying Agitation Wash. Spray jets. 3 External filters, one per tank. 3 separate tanks 3 separate pumps

View Vixen Surface Treatments 4 Stage Dunk Wash with Ultrasonics on our web site at

<https://www.rileysurfaceworld.co.uk/machines/29960.htm>



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PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.

