

## Guyson International Kerry Ultrasonics MK2 450A Special with Mk3 Autotrans

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Stock No	<a href="#">DQ926</a>
Manufacturer	<a href="#">Guyson International</a>
Model	MK2 450A Special
Serial	KJ55551/4
Work Envelope (WxDxH mm)	320 x 415 x 415mm
Process Stages	5 was, wash, rinse, rinse, dry.
Other Info	Flexible automatic cleaning cell.

### Description

This Guyson International multi stage Ultrasonics cleaning system offers a rapid and highly effective method of precision cleaning components to a very high standard. Manual cleaning or spray wash methods may struggle with blind holes, tube internals or difficult to reach crevices but these problems are easily dealt with when ultrasonics are employed.

Ultrasonic cleaning works by introducing ultrasonic energy into a tank containing the cleaning solution. This energy

causes minute bubbles to form and collapse within the solution, this action being called cavitation. The cavitation leads to a very gentle but highly effective scrubbing action on the component surface that loosens the contaminant.

The multi stage aqueous cleaning system has an automated PLC controlled carrier handling device, heated ultrasonic pre-wash, ultrasonic clean or ultrasonic DI rinse, final contraflow DI rinse and warm air dry which suits a wide range of cleaning needs in aerospace, precision, electronics and other industries.

The Purite Ecopure exchange bottle resin closed loop high purity deionised water rinsing station provides organic and ionic cleanliness superior to MIL standard

Stages of the unit are as follows:

#### Stage 1

- Heated Sparge under immersion pre wash, with heating provided by thermostatically controlled heaters mounted on the tank side.
- Integral lip fume extraction
- Base mounted ultrasonics
- Low level float switch relaying low level warning message to control panel
- The sparge under immersion evenly distributed the solution across the process tank, with a pumped action supplying the agitation via the filtration circuit consisting of a coarse pot type pre filter, removable cartridge type fine filter

#### Stage 2

- Heated Sparge under immersion wash or ultrasonic town water rinse, with heating provided by thermostatically controlled heaters mounted on the tank base.
- Integral lip fume extraction
- Immersion base mounted ultrasonics
- Low level float switch relaying low level warning message to control panel
- The sparge under immersion evenly distributed the solution across the process tank, with a pumped action supplying the agitation via the filtration circuit consisting of a coarse pot type pre filter, removable cartridge type fine filter

#### Stage 3

- Heated spray under immersion contra flow DI water rinse tank
- Includes digital conductivity meter enabling monitoring of the DI water quality

#### Stage 4

- Heated spray under immersion contraflow DI water rinse tank
- Includes digital conductivity meter enabling monitoring of the DI water quality
- Low level float switch relaying low level warning message to control panel

#### Stage 5

- Hot air condenser dryer
- Chamber tank fitted with automatic pneumatic sliding lid. Air is drawn from the base of the tank and is passed over

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heating elements before being recirculated back into the chamber.

Autotrans Mark 3 Includes full PLC control, accessible via the control pendant enabling the programming of up to 10 separate programs for differing cleaning requirements.

Twin 1500mm long Infeed and outfeed conveyors with part present detection for automatic operation.

Overall dimensions of main: unit 2500 x 1000 x 1100mm

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**