

Kerry (Guyson International) Microsolve 250M 2 Stage Mono-Solvent Degreaser with AutoTrans SA



Stock No	DE1601
Manufacturer	Kerry (Guyson International)
Model	Microsolve 250m With AutoTrans SA
Year of Manufacture	1999
Serial	59208/1-2-99
Condition	From a working environment, Good Condition
Work Envelope (WxDxH mm)	190 x 250 x 250 each Tank
Process Stages	2Stage U/sonic Clean, Rinse & Vapour Dry
Other Info	Designed to use Petroferm/3M Solvating
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	500
External Dimensions (WxDxH mm)	1470 x 800 x 1160mm

Description

The Microsolve 250 ultrasonic precision cleaning system attains the highest cleaning standards yet keeps running costs surprisingly low.

- Microsolve Mono-Solvent two-stage systems provide ultrasonic cleaning using HFE (hydrofluoroether) or HFC (hydrofluorocarbon) solvents, followed by vapour rinsing and freeboard drying.

- Typical applications include the precision cleaning of bearings, gyro components and medical components; maintenance cleaning of pneumatic and hydraulic components; and, in electronics, flux removal from PCBs or from soldering jigs and fixtures.
- The Microsolve can be used with a wide range of currently available solvents.
- The system is controlled through a Mitsubishi PLC with a machine interface panel for user accessible timings and parameter changes.

The Mono-Solvent Process

- The Guyson Microsolve Mono-Solvent systems provide ultrasonic cleaning followed by vapour rinsing and freeboard drying.
- Guyson's unique solvent retention features ensure the economic and effective use of HFE (hydrofluoroether) or HFC (hydrofluorocarbon) solvents.
- Ultrasonic cleaning is carried out in the Stage 1 tank, which is fitted with base mounted ultrasonic transducers with a Pulsatron generator, solution heating and a pumping and filtration system.
- The second tank is electrically heated, allowing the solvent to boil. The resulting vapour rinses the components, which are then dried in the freeboard zone. Distilled solvent, condensed by the primary cooling coils, passes through a water separator with an in-line heat exchanger and returns to the ultrasonic tank, displacing contaminated solvent into the boiling sump.
- Distillation, together with filtration of the solvent, ensures that the ultrasonic tank is maintained at a controlled level of cleanliness.

Stage 1

- Stainless steel tank with internal dimensions of 190mm x 250mm x 250mm deep.
- Ultrasonic immersion tank complete with heating, gravity water separating sieve, pumped filtration and sliding lid.

Stage 2

- Stainless steel tank with internal dimensions of 190mm x 250mm x 250mm deep.
- Vapour phase rinse and dry completely with immersion heaters and level contamination thermostats.
- The machine is further enhanced with a double pass refrigerated cooling system that extends from the vapour condensing zone into the freeboard cooling area to minimise solvent losses.
- These units are designed to work with mono-solvent solvents but can also be used with other halogenated solvents such as Methylene Chloride. The special features of this Kerry system are triple coil reflux cooling, vapour break, 150% freeboard, and solvent monitoring.

Autotrans System MK3

- The Autotrans programmable mechanical handling system is essentially a rail mounted horizontally running trolley fitted with a vertical lift column, powered by a de-shunt would electric motors driven controlled via a dedicated controller. A user interface panel is provided to facilitate programming and messaging display.
- The entire assembly is supported behind the process sequence it is designed to serve and for which it may be programmed with up to 10 independent programmes.

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Machine Datasheet



Full operating manual and electrical, pneumatic and ladder programme drawings for this machine as available.

CRV Control Systems Support

This machine is available with installation, commissioning, training, after sales service and maintenance programme if required. CRV controls have been a Riley's partner for many years and support many Kerry & ultrasonic machines all over the UK including specialist repairs of our ultrasonic machines.

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



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