NEOMETRIX DEFENCE NMX-UCM-87

Ultrasonic Cleaning Machine

CAPABILITY SHEET · DEGAS FIRST, THEN CLEAN · A STAINLESS BATH WITH TRANSDUCERS, A SWEEPING GENERAT

THE ONE IDEA

PRINCIPLE	Degas first, then clean.
WHY IT MATTERS	Fresh liquid holds dissolved air that cushions the cavitation bubbles, so the bath is run with nothing in it until the gas has gone, and only then is the load lowered in.

THE MACHINE

BATH AND SOUND	A stainless bath with a sloped base, a drain and an overflow, with transducers bonded to the base in an even pattern and a generator that sweeps its frequency.
HEAT AND FILTER	A heater with a thermostat and an over-temperature cut-out, and a pump and a filter that circulate the liquid and take out what has come off.
LOAD	A perforated basket on a lift, held off the base and spaced so that the sound can pass through the load.
RINSE AND DRY	A rinse bath with an overflow and a dryer with warm filtered air, so that nothing is left to dry onto the surface.
CONTROLS	A timer, the sweep, the temperature and a low-level interlock so that the heater and the transducers cannot run dry.

THE METHOD

ORDER	Fill, degas, load, clean, rinse and dry. The degas and the rinse are the two that a quick job skips.
LIMITS	Frequencies, powers, temperatures and times come from the customer's parts, dirt and solution, and are not printed here.

CONFIGURATIONS

SINGLE-BATH MACHINE	One bath, one generator, a basket and a lift, for batch work.
WASH, RINSE AND DRY	Three stations on one frame, from a dirty part to a dry one.
HOIST-FED LINE	The same stations with the basket carried by a hoist on a set cycle, and one record for each batch.

STANDARDS & SCOPE

STANDARDS	Public reference: ASTM G131 for the cleaning of materials and components by ultrasonic techniques.
SCOPE BOUNDARY	It is the ultrasonic cleaning machine: not a chemical cleaning bay, not a high-pressure water jetting machine and not an engine compressor washing rig.
STATUS	Neometrix has quoted against successive ultrasonic cleaning machine requirements, and no delivered ultrasonic cleaning machine is claimed.

DEFENCE PROGRAMMES DESK

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