



**KAISER
WHALE**



ZERO
EMISSIONS

LOW
NOISE OPERATION

LOW
MAINTENANCE

LONG
BATTERY LIFE

THE UK'S FIRST ELECTRIC MVC

Reliability, Service, Value ... for Life





Reliability, Service, Value ... for Life

The eWhale is the UK's first fully electric MVC and the latest multifunctional gully cleaner and drain jetter designed by Whale Tankers to enable both local authorities and private sector contractors to operate in inner city, ultra low emission zones (ULEZ).

In addition to the eWhale's main environmental attribute, zero emissions, it also delivers improved operating efficiencies. Featuring two banks of chassis mounted lithium battery packs that deliver power via a 9 phase process to a 250kW electric drive motor, eWhale has the capacity to remain fully operational over a normal vehicle shift pattern.

The battery packs are proven to withstand more than 3,000 charges over an expected 10-year period of normal operation. The eWhale has been designed to require very low maintenance, whilst also featuring equally low running costs.

The eWhale is also environmentally-friendly when it comes to noise pollution due to it being extremely quiet in operation, making it more suitable for inner city night-time environments than current diesel powered vehicles.

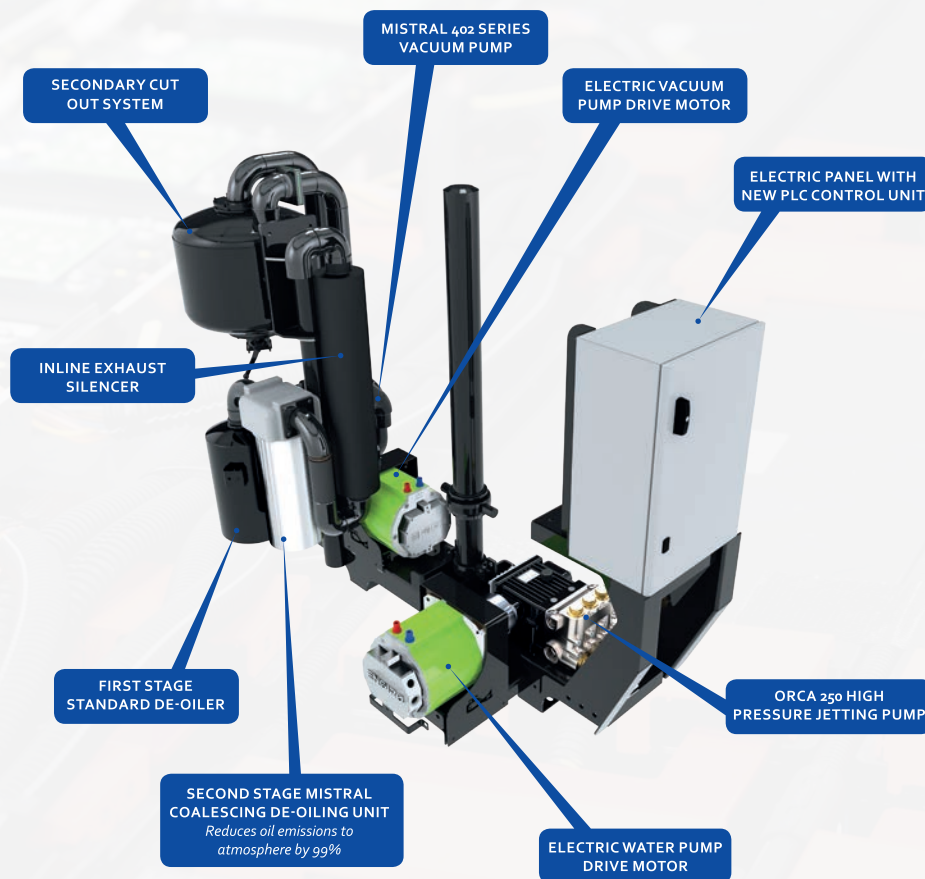
The new all-electric eWhale, which is capable of being mounted on a range of both low-entry and standard cab chassis, has an additional electric instrument control panel that details battery capacity, gear position, range prediction, regenerative power and system status information. The vehicle's battery system is charged via a 63 Amp, 3 phase neutral and earth power supply, complete with RCD type A 30 mA protection, for which a 10m charging lead is supplied as standard.



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BATTERY MODULES AND SLAVE BOARDS

Slave boards monitoring individual cell performance.



CHASSIS MOUNTED CHARGING UNITS

Liquid cooled, twin chargers enabling dual battery pack charging.



VEHICLE MAIN DRIVE MOTOR

600V, 9 phase, 250Kw, liquid cooled, inverter controlled drive motor.



EQUIPMENT FRAME

Housing electric PTOs, two stage de-oiling system, noise reduction silencing and vacuum and jetting pumps.



DRIVER'S DISPLAY

Displaying battery capacity, gear position, range prediction, regenerative power and system status.



INVERTER AND ELECTRIC PTOs

Liquid cooled, high voltage three phase inverter controlled electric drive motors for jetting and vacuum pumps.