

Pero
Advanced Metal System



built to
last



built for
speed



built to
perform

VW cleans oil coolers with minimal solvent consumption

VW in Hanover, Germany has replaced ageing washing and degreasing plant with two new PERO V2-Universal vacuum solvent vapour degreasers. The PERO units allow VW to clean **1200 tonnes of aluminium oil cooler components a year using just 358kg of solvent** – the equivalent of only one gram of solvent per basket of parts! PERO systems and solutions are distributed exclusively in the UK by Kumi Solutions Ltd of Kenilworth.

"**Water is not the only solution**", states Robert Huber, sales manager with PERO. "Aqueous systems pose their own problems with regard to protection of the environment and compliance with the latest wastewater regulations. Aqueous plant also requires constant monitoring and frequent cleaning of the baths."

"Our parts must be extremely clean so that the flux for soldering operations, which take place after cleaning, can be applied properly," explains Ludwig. "What we require are metal surfaces completely free of contamination. Twice per shift, random samples are taken and examined for surface cleanliness and solderability."

The two PERO units have also saved VW a considerable amount of space – the previous aqueous plant required three times the footprint. Yet while this may be the most visually apparent difference between old and new, it is certainly not the most important.

What might not be clear at first sight is the enhanced performance of the new machine. The specifications required a high throughput rate of 72 baskets per hour (or 36 per machine), which is of course achieved comfortably by the PERO units over a three-shift work pattern.



The PERO machines have provided VW with one other important benefit, as Huber explains: "With just 385kg of fresh solvent being added per year, the machine does not come under the 31st Federal Immission Protection Ordinance, which only covers machines where more than 1,000kg of solvent is used each year. Those responsible for production at the VW plant in Hanover know that they could install another two PERO V2 degreasers and still be well below the 1000kg limit."

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