

**Pero**  
Advanced Metal System



built to  
**last**



built for  
**speed**



built to  
**perform**

Pero machine meets SED legislation and slashes solvent use at volume pressings manufacturer

Clamason Industries is a highly service-orientated, independent UK manufacturer and assembler of precision pressings serving global customers, covering market sectors – automotive engineering and medical together with home entertainments, building products and electrical accessories.

Competent in making technically complex metal parts in medium to high volumes on presses of 5 tonnes up to 250 tonnes. 90% of Clamason pressings are intricate and less than 2mm thick. Annual order quantities per part can range from 25,000 up to 200 million.

"Historically, we've used an open-top trichloroethylene tank," explains Clamason's quality manager Paul Edwards. The company examined aqueous and hydrocarbon alternatives, but assessments of performance put solvent systems top of the list.

"We are well aware of the features and benefits of solvent cleaning and so were not surprised when other processes failed to match its performance," says Mr Edwards. "What is more, we discovered that closed-loop; solvent systems can be more environmentally friendly than aqueous units, which require high amounts of energy to heat the wash solution."



Pero emissions were the lowest we could find without any compromise to cycle time. The V2 was as quick as anything on the market," states Mr Edwards. "Furthermore we immediately struck up a good relationship with the UK agent, Kumi Solutions, while the machine also provided the ideal basket size, 660 x 480 x 300mm."

The V2 not only meets the SED legislation, but also the cleaning results are far superior and more consistent compared with our old open-top trichloroethylene tank," says Mr Edwards. "We would previously find dirty parts in the middle of baskets that would require reprocessing. This simply doesn't happen any more."

Working with the chemical service and solutions provider SAFECHEM, Clamason was advised to use perchloroethylene as the cleaning solvent in its new Pero V2. The solvent was delivered in specially designed safety containers, the SAFE-TAINER™ system.

An added advantage is that solvent loss has also been cut significantly. Using its open-top trichloroethylene tank, Clamason would lose approximately 14 tonnes of solvent every year. Using the V2, solvent loss is estimated at less than 2/3 barrel per year, representing a considerable financial saving.

"We operate in a very competitive market with the highest quality requirements," concludes Mr Edwards. "Our customers expect clean parts, but unfortunately without incurring any price rise. Hence we have to clean our components through a non value-added process in the most efficient and cost-effective manner possible without compromising quality. The Pero V2 has provided this capability."

**Sole UK Agents to Pero**

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