



built to
last



built for
speed



built to
perform

Technology Road Test: Pero 2500/0 closed-loop vapour degreasing unit.

Pero 2500/0 overview

- Closed-loop vapour degreasing with vacuum drying & PLC control.
- Rotation with immersion, flood, rinse, ultrasonic & vapour cycles.
- Continuous vacuum distillation and filtration.
- Parts handling system using automatic conveyors.
- Average cleaning duration for steel **(50kg) = 4 minutes**.
- Compliance with latest Solvent Emission Directive (SED).
- Built to CE standards.
- Over 3000 Pero degreasing systems installed worldwide.



Bodill Parker overall verdict

With massive savings in solvent usage aiding a short payback period, the Pero 2500/0 makes sound financial sense. Throw in rapid throughput, enhanced cleanliness levels and we have happier customers and staff. The previous, open-top system used 4,800 litres of solvents every year. The Pero unit with the SAFE-TAINER(TM) system uses just 100 litres a year, **saving £11,000+ per annum** in solvent costs alone giving a **reduction of more than 97%**.

Quality of cleanliness

Managing Director Philip Sabin says **"Parts are exceptionally clean and bone dry"**. Oils deposited during pressing operations are removed using ultrasonically agitated DOWPER(TM) MC (perchloroethylene) supplied by SAFE-CHEM Europe. Materials cleaned include a wide range of ferrous and non ferrous materials. "We've had no complaints from customers, which is crucial because many parts are subject to further processes such as plating, rubber bonding or powder coating, where dirty components cannot be tolerated." says Mr Sabin.



Speed/throughput

Operating 35-40 hours per week the Pero processes 25 million precision pressings every year via 17,000 basket loads (370 x 220 x 200mm) pa filled with parts ranging from 12-60mm diameter washer and cup-type components, equating to approximately 250 tonnes of material per year. Typical cycle times for a fully loaded basket are around 4 minutes.

Reliability/maintenance

"The Pero reliability has been very good," states the machine's operator Les Hayes. In terms of maintenance, Mr Hayes says that he simply checks the solvent stability and performs a few visual checks on a weekly basis. Mr Sabin added **"this machine has less downtime or maintenance than any other machine we own, delivering machine availability in excess of 96%"**.

Health and safety

As a closed-loop system, the Pero complies fully with the recently implemented Solvent Emissions Regulations". "Our previous unit was very inefficient" explains Mr Sabin "vapours escaped into the working environment, not so with the Pero". Using the SAFE-CHEM (TM) test kits and stabiliser maintains solvent quality, insuring clean parts, a protected plant and less than 0.28 litres of solvent losses pa day.

Value/payback

At a supplied price of less than £44,000, Mr Sabin says that payback on the Pero 2500/0 has already been achieved, on the strength of solvent reduction alone, in under 4 years.

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