

PROFILED DIE HEAT SEALING SYSTEM (PDH)

Introducing another innovative development from Ceetak's range of heat sealing systems - the PDH – aimed at the tray and lid sealing packaging markets.

The latest generation of heat seal systems from Ceetak's Low Voltage Heating (LVH) technology replaces existing sealing systems that use bulky tooling plates with cartridge heaters

The PDH sealing system incorporates accurate, small-section profile dies that are highly conductive, enabling them to heat up and cool down quicker than traditional sealing tools, with exact operating temperatures reached and maintained.

The PDH sealing system uses up to 80% less energy than traditional heat sealing methods. The fitting of a unique heat transfer module monitored by an accurate temperature controller allows the applied heat to be regulated to within one degree across the entire sealing surface.

The use of thermal insulators ensures that heat is conveyed only to the contact sealing face, rather than dispersing into the surrounding environment or being retained in the mass of the parent machine.

The ability to transfer heat rapidly means that energy losses are far lower compared to traditional heat systems.

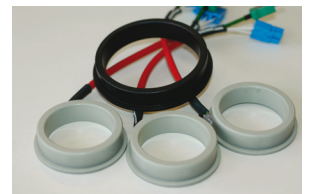
By operating at a lower voltage - typically less than 40V - the PDH system makes it possible to reduce operating costs by decreasing change over time, simplifying maintenance and making cleaning and wash down safer.

By using less power, end users are able to comply with the need to invest in energy efficient technologies under the constraints of the Climate Change Levy.

Unlike conventional sealing methods, which typically seal laminates or polyethylene films, this new generation of heat sealing system is capable of welding all materials, including paper and board products as well as compostable films, offering you greater flexibility from a single machine.

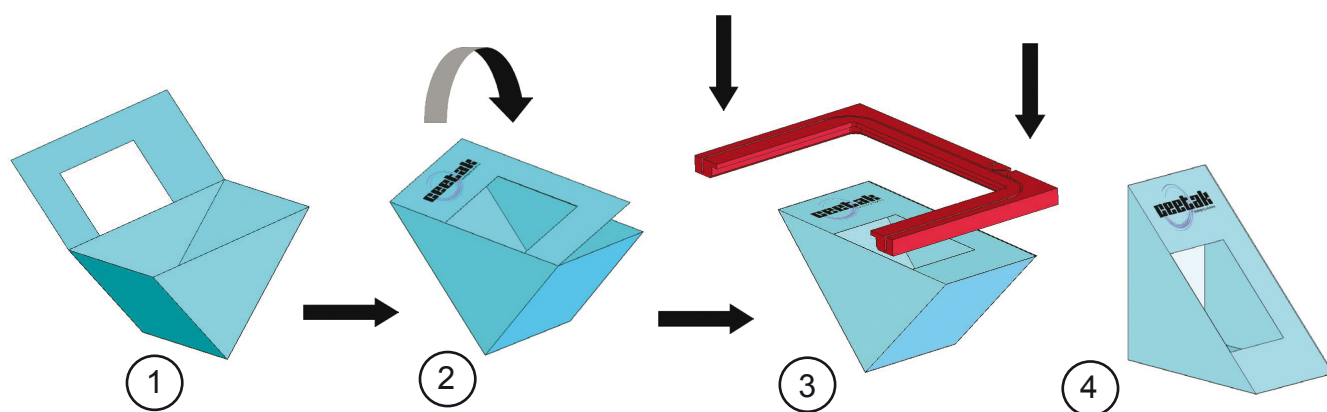
Benefits to customer

- Increased productivity
- Rapid heat up & cool down
- Fast tool change.
- Consistently reliable seals.
- Easily retrofitted
- Low operating cost
- Efficient energy consumption
- Low maintenance
- No consumable parts e.g. sealing bands
- Accurate temperature control
- Less Downtime

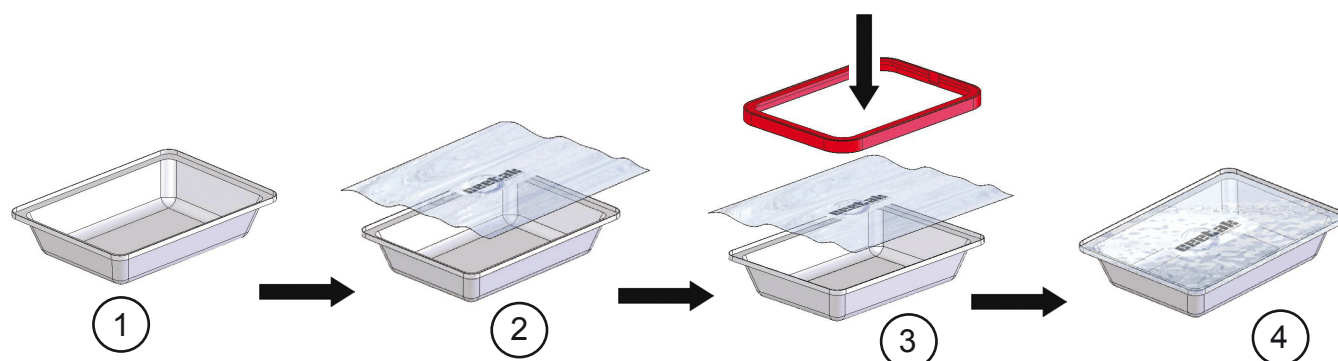


Profiled Die Heat Sealing System (PDH)





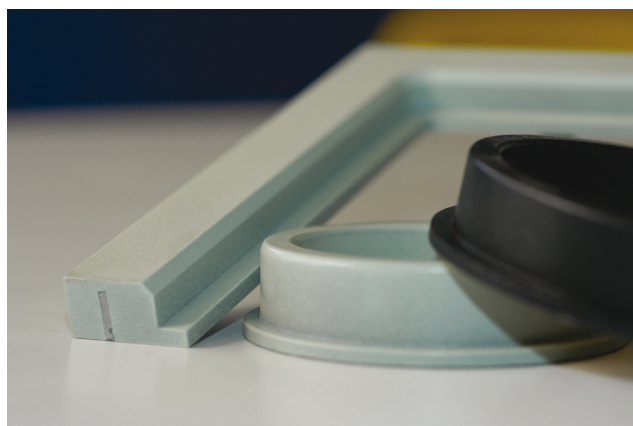
- 1 – Pack forming and product loaded
- 2 – Lid is folded to close pack
- 3 – Ceetak PDH sealing system used to seal pack closed
- 4 – Finished product - sealed sandwich box



- 1 – Tray presented to machine and loaded with product
- 2 – Film lid introduced
- 3 – Ceetak PDH sealing system used to seal film to tray
- 4 – Finished product – sealed tray

Ceetak's PDH systems can be retrofitted to most heat sealing machines, for example as shown above; sandwich wedge box and tray lid sealing machines.

Available in practically any shape, our technical team can advise and assist with design and installation of equipment, and can provide free on-site surveys.



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