

# VFFS - HEAT SEALING



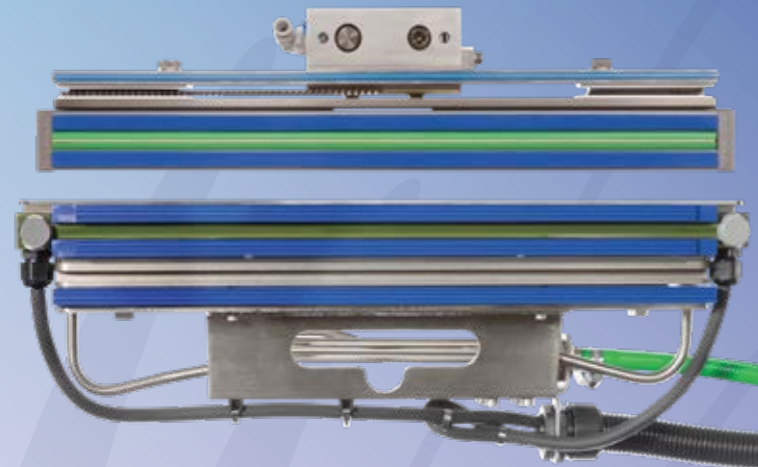
**QUICK PULSE  
HEAT (QPH)**  
SEALING TECHNOLOGY



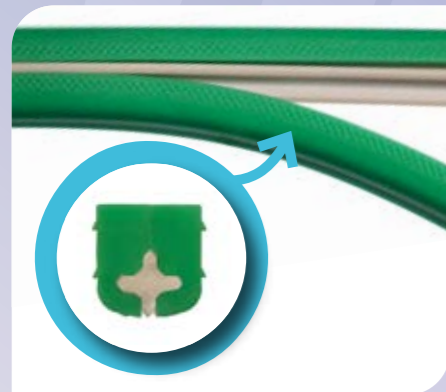
## The QPH sealing system – what is it?

Ceetak's patented Quick Pulse Heat (QPH) sealing technology is a cyclic cut and seal system that is easily retrofit to VFFS packaging machines and can be used with all thermoplastic films.

QPH sealing technology offers manufacturers a cost-effective way to reduce the amount of film packaging waste; without compromising the quality of the seal or product shelf life.



**Easily retrofit to existing packaging machinery.**



**Patented cut and seal system.**



## The QPH sealing system – how does it work?

The QPH sealing system can make pillow packs and block-bottom gusseted bags. Its unique design has no sharp cutting knives or hot bars to touch. It has no areas where product or film can escape or gather, so can provide improved hygiene on production lines.

During the cut and seal phase, the QPH jaws close on materials and the digital temperature controller supplies consistent heat. This, along with even pressure across the sealing surface creates a completely fused, hermetic seal. During this process, the heat of the blade is carefully maintained and controlled so film material is rarely burnt onto the equipment (as is common with crimp sealing jaws).

The sealed area is then rapidly cooled by a stream of water through the sealing bar. This process allows higher fusion temperatures without overheating the material, and the finished seal isn't weakened by any subsequent handling while still hot.

The cut/seal and cooling process takes only milliseconds and creates a seal typically 1-1.5 mm wide. The fast cycle time can increase output on production lines and the unique blade and anvil design minimises cleaning, maintenance, and downtime.

### Temperature Controller

Accurately controls the temperature of the bar. The satellite box can be located wherever required for operator convenience.

### Control Panel

Power supply unit supplied ready for installation.

### Thermal Regulator

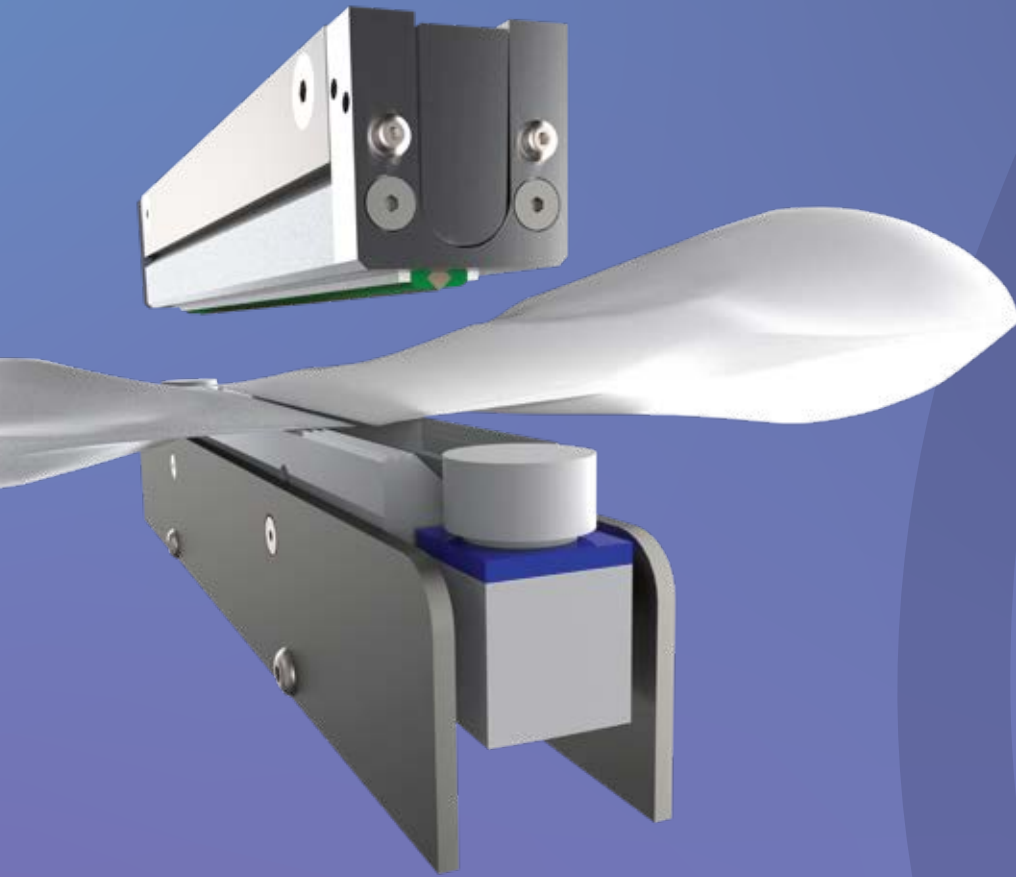
Pumps cooled water on a continuous cycle for each QPH system at 4 litres per minute.

### QPH Jaws & Anvil

Featuring our patented star cutter design. This unique design cuts and seals in one operation.



# QUICK PULSE HEAT (QPH) SEALING TECHNOLOGY



## Sustainable technology

film saving in production and can be used with recyclable and bioplastic materials.



## Produces high integrity seals

less failures and aesthetic seals.



## Creates a narrow seal width

with up to 10% material savings.



## No sharp knives or hot seal bars

safe working conditions and low downtime.



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