

Heat sealing system HS40i

System properties

- LCD production
- PCB production
- Processing anisotropic adhesive (ACF/ACA)

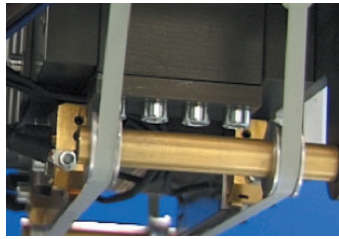
Advantages

- Modular structure for customised options
- Substrate-compatible control of temperature, force and time
- Pulse heating system for reproducible results

Modular design for wide range of applications and customer-specific options

The Panacol heat sealing systems HS40i are standard systems that work with pulse heating technology. The sealing heads used work with high precision and reproducibility. They can be quickly exchanged and optionally fitted with a temperature sensor for the additional temperature monitoring system.

The heat sealing head motion is pneumatically controlled, the required contact force being generated by a precision spring assembly with automatic force compensation.



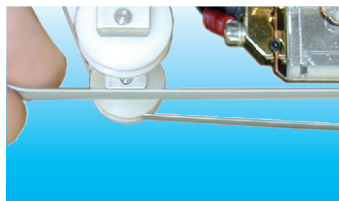
With their modular design and custom options, Panacol's

heat sealing presses cover a wide range of applications. Both standard sealing heads and customer-specific thermodes of various dimensions are available.

Heat sealing with anisotropic adhesives

Heat-sealed bonds are produced with anisotropic conductive films (ACF) or anisotropic conductive pastes (ACP). Conductive particles embedded in the adhesive establish an electrical connection between contact points.

Our heat sealing presses can process all anisotropic adhesives (ACF/ACA) and are also ideally suited for joining LCDs and PCBs with foil conductors.



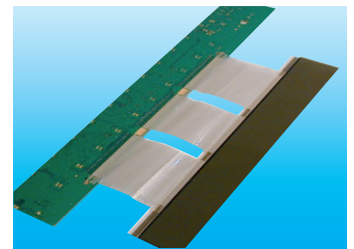
The heat sealing process sometimes requires an application of high forces. To prevent these forces from damaging sensitive workpieces, such as LCD panels, a silicone band is placed between sealing head and workpiece. After an adjustable number of sealing cycles the worn silicone band is automatically advanced.

Our heat sealing presses can process all anisotropic adhesives (ACF/ACA) and are also ideally suited for joining LCDs and PCBs with foil conductors.

The stable thermal insulation from the sealing head's substrate and the special design of the heating bands ensure an optimum heat transfer to the workpiece.

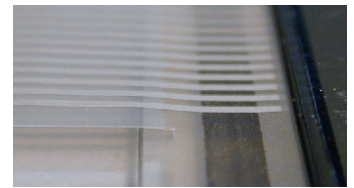
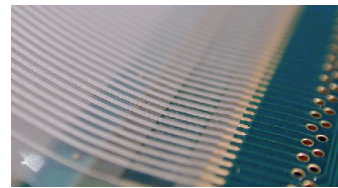
Our sealing heads are optionally available with two temperature monitoring systems; with their gold-plated terminals they are exceptionally well contacting.

We can also implement XXL heat sealing bonds: lengths up to 250 mm are commonplace.

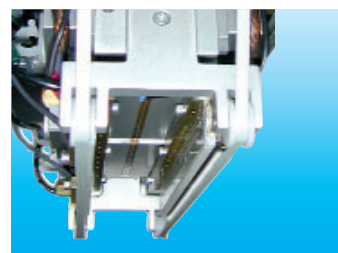


Heat sealed bond, film to PCB

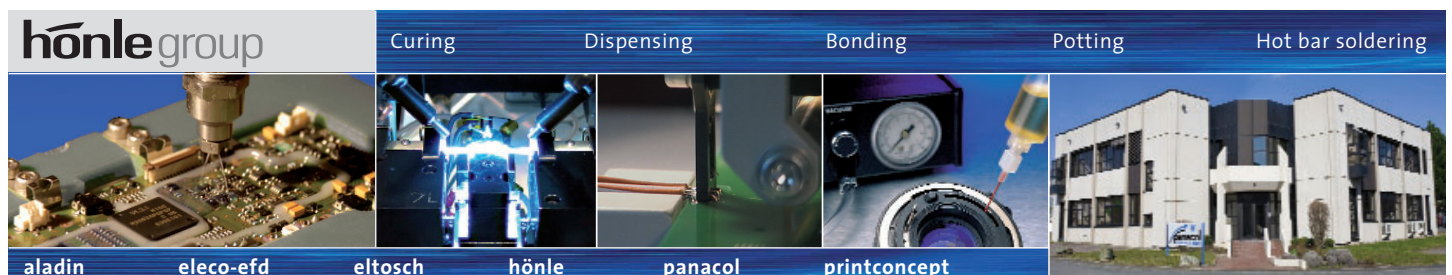
Heat sealed bond, film to LCD



Dual head sealing head with silicone band system



User-friendliness is also emphasised with very large heat sealing heads: For maintenance and inspection the entire head can be taken out of the plant.



Panacol-Elosol GmbH, Daimlerstr. 8, 61449 Steinbach/Taunus, Germany
Phone: +49 6171 6202-0, Fax: +49 6171 6202-590. www.panacol.de

Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data. © Copyright Panacol-Elosol GmbH. Updated 03/09.