

technical specification: **GFH2000/PFH2000**

Filter Rod Adhesive System

system description: The GFH2000/PFH2000 represents the latest adhesive application system from Kaymich, suitable for fitment to a wide range of plugmakers.

The systems feature a simplified backplate that allows for micro adjustment and positioning of adhesive lines and nozzle to paper. The hot melt applicator incorporates a stainless steel 'bellows type' seal, eliminating the wear and maintenance problems associated with sliding seals. The backplate features retracting paper guides, paper sensor and miniaturised tow retention applicators.

The latest electronic technology is used in the controller, giving digital temperature read out and multi function alarms. It also features a simplified front panel layout with icons, membrane switches and overheat protection

Incorporating basic components the GFH2000/PFH2000 can be set up for numerous applications using a combination of hot melt, PVA applicators and other devices.

CE compliant

GFH2000

suitable machines: Hauni: KDF2
ITM: All filter plug makers and combiners.
Molins: PM5
Sanjo: FR4
For all other machines please contact Kaymich.

services required: Dry, filtered, non-lubricated compressed air, 60 to 100 psi / 4 to 7 bar.
Consumption – 50-65 ml/stop or start (3 to 4 cubic inches/50 to 70 cc).
Electrical Voltage – 220/240 Vac @ 50 to 60 Hz
Current – 10 amps max.

adhesive recommendations: Hot Melt Adhesive
Characteristics – high tack, fast setting
Viscosity – range of 1000 to 5000 centipoise. 2000 centipoise recommended.
Aqueous Dispersion Adhesive
Type – Synthetic resin emulsion.
Viscosity – 1000 centipoise recommended in the range 150 to 1500 centipoise.
Solids Content – within the range of 45% to 55%.
For adhesive grade recommendations please contact your regular supplier.

performance characteristics: Speed – up to 500 rod metres/minute.
Hot melt tank capacity – 5kgs.
Melt rate – 4kg/hour
Aqueous dispersion tank capacity – 5 litres.

PFH2000

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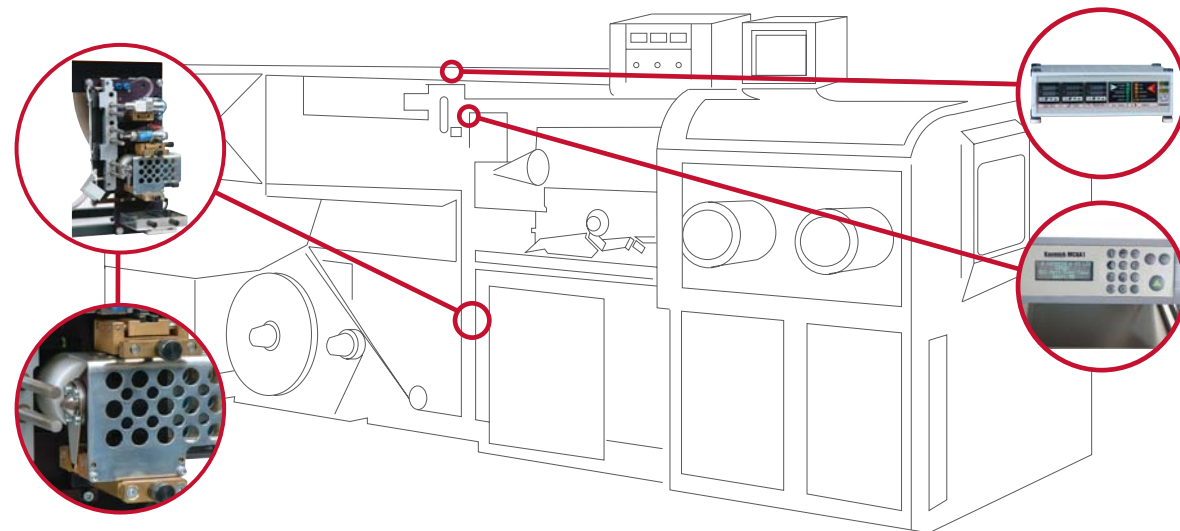
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Introduction

The GFH2000 Gravity Feed Hot Melt Adhesive Application System is the most versatile and efficient system for applying hot melt and PVA adhesive to filter rod available today. The unique back-plate design enables the system to be configured for a variety of different applications providing hot melt, supplementary PVA for plug security, multiple lines on tow retention or the Kaymich FTS2000 Spray Tow Retention. The GFH2000 ensures optimum productivity, quality and plug security whilst minimising costs.

PFH2000

For higher speed applications Kaymich can provide the PHF2000 Pump Feed System. This has many of the benefits of the GFH but offers higher production speeds.



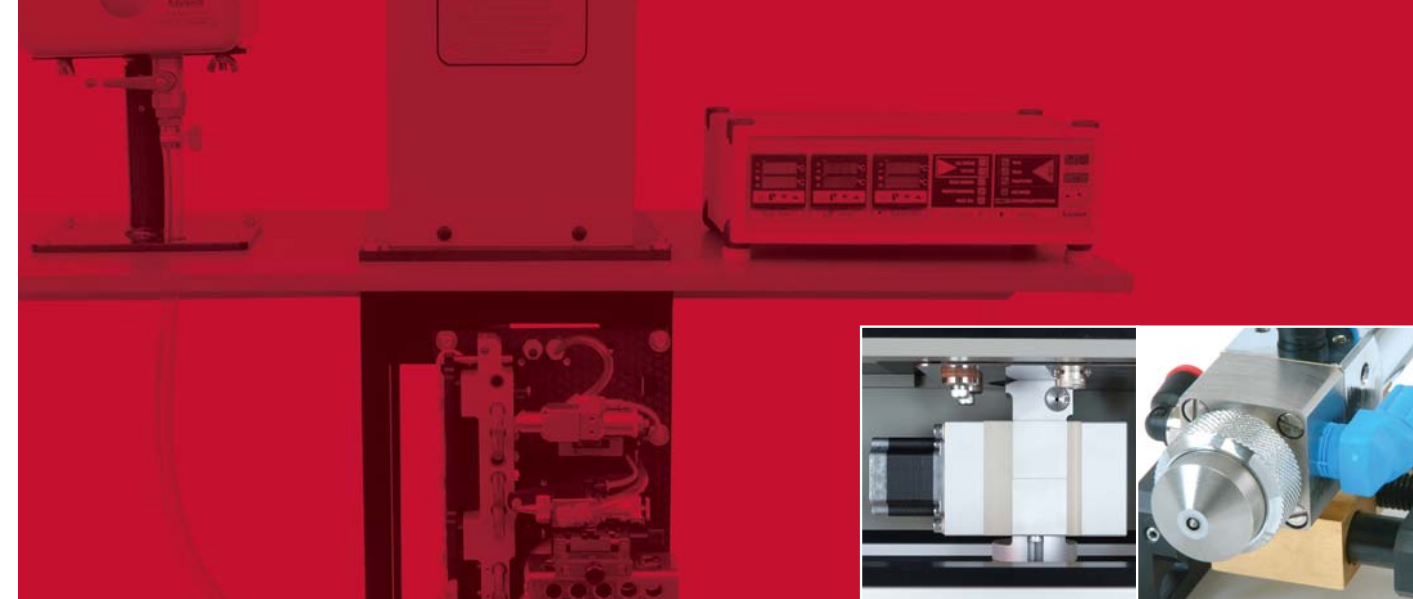
The system employs Kaymich technology established and proven in cigarette side seam applications.

Features

- Easy valve setting with horizontal and vertical adjustment.
- Gravity or pump feed hot melt application with adhesive application proportional to machine speed.
- Independent control of hot melt temperature to header tank, heated hose and hot melt applicator.
- Modular back plate enables multiple configurations including hot melt side seam, supplementary PVA for lap security and tow retention in single line, multiple line and spray 'swirl' options.
- Retracting rollers provide easy access for paper threading.

Benefits

- **Increases productivity.** Reduces hot melt bleed through, particularly with porous plug wrap paper, resulting in fewer stoppages due to contamination on the cooler bar.
- **Improves quality.** A more consistent rod diameter is achieved as a result of using less adhesive – uses only as much as the paper needs.
- **Reduces costs.** Up to 40% saving in hot melt adhesive consumption is achieved by converting from a standard pump to the Kaymich gravity fed system.

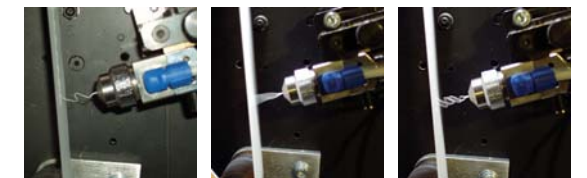


FTS Spray Tow Retention (Option)

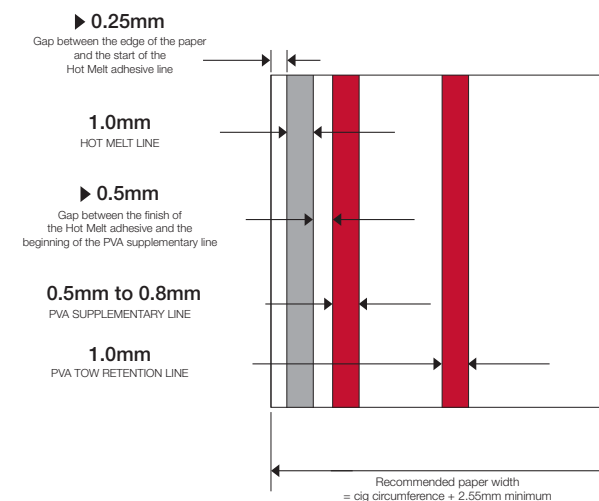
The Kaymich FTS2000 Filter Tow Retention Spray Adhesive System is designed to apply aqueous dispersion adhesive to filter plug wrap paper. The FTS2000 is very flexible and can be easily adapted to a wide range of filter types from the standard acetate tow, to multi-segment. The system is available as an option incorporated within the GFH2000 system.

Due to the special design of the valve a unique swirl pattern of adhesive is applied which provides excellent plug security but does not significantly reduce paper porosity.

The adhesive can be applied in various patterns to the paper via a non-contacting spray valve. The width of the pattern is variable but is normally set at 10mm wide.



Valve to Paper Configuration



Benefits

- **Improves quality.** Improved method of adhesive application eliminates ridges of adhesive from filter rod, thereby improving diameter control and filter performance.
- **Increases security.** The application of adhesive over a wider area increases anchorage to the plug wrap thereby improving security.
- **Increases productivity.** Particularly when running high porosity paper, reduced machine contamination decreases stoppage for cleaning, thereby increasing productivity.
- **Decreases costs.** Decreases the reduction of filter ventilation that normally occurs when applying solid lines. Thus a lower, cheaper porosity paper may be used to achieve the same result.