

technical specification: **TPA3000**

**Tipping Paper Adhesive Applicator**

**system description:** The TPA3000 is specifically designed to apply synthetic resin emulsion adhesives (PVA) to the cigarette filter tipping paper on Hauni Max S, Max 80 & 90 machines.

**suitable machines:** Hauni: Max S, Max 80 and 90  
(Max S – suitable for serial numbers above 300)  
For all other machines please contact Kaymich.

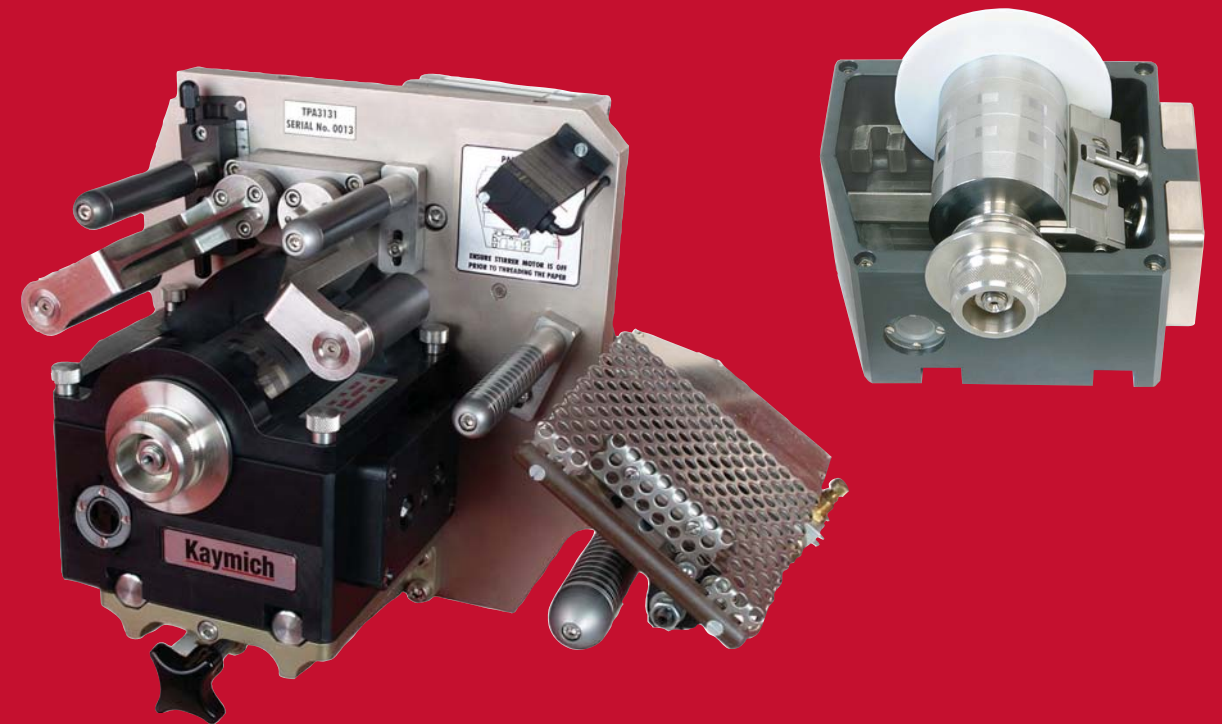
**services required:** Dry, filtered, non lubricated compressed air, 5 to 10 bar/75 to 150 psi.  
Consumption - Maximum 1 litre per hour.  
Supply Voltage - 240 Vac.  
Current - 3 amps maximum.  
Start Signal - 240 Vac/110 Vac/24 Vdc

**adhesive recommendations:** Type - Synthetic resin emulsion  
Solids Content - 45% to 55%.  
PH Level - 4.0 to 4.5.  
Relative Density - 1.1.  
Viscosity - 2,000 - 4,000 centipoise.  
For adhesive outside this viscosity range, please contact Kaymich.

**performance characteristics:** Application rate approximately 13 to 14g/m<sup>2</sup> wet coating weight dependant upon materials.  
Machine Speed - up to 19,000 cigs/minute.  
Pattern Types - plain or skip.  
Idling Period - up to 8 hours (when idling at 50 revs/minute, subject to adhesive specification and ambient machine conditions).  
Paper Width - maximum 72mm. For wider papers please contact Kaymich.  
Operating Temperature - maximum 40°C - Minimum 5°C (subject to adhesive specifications, see adhesive manufacturer's data sheet).



# The Kaymich TPA3000 Tipping Paper Adhesive Applicator

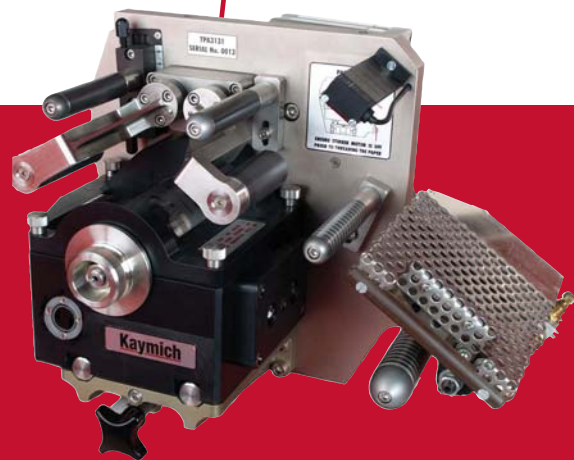
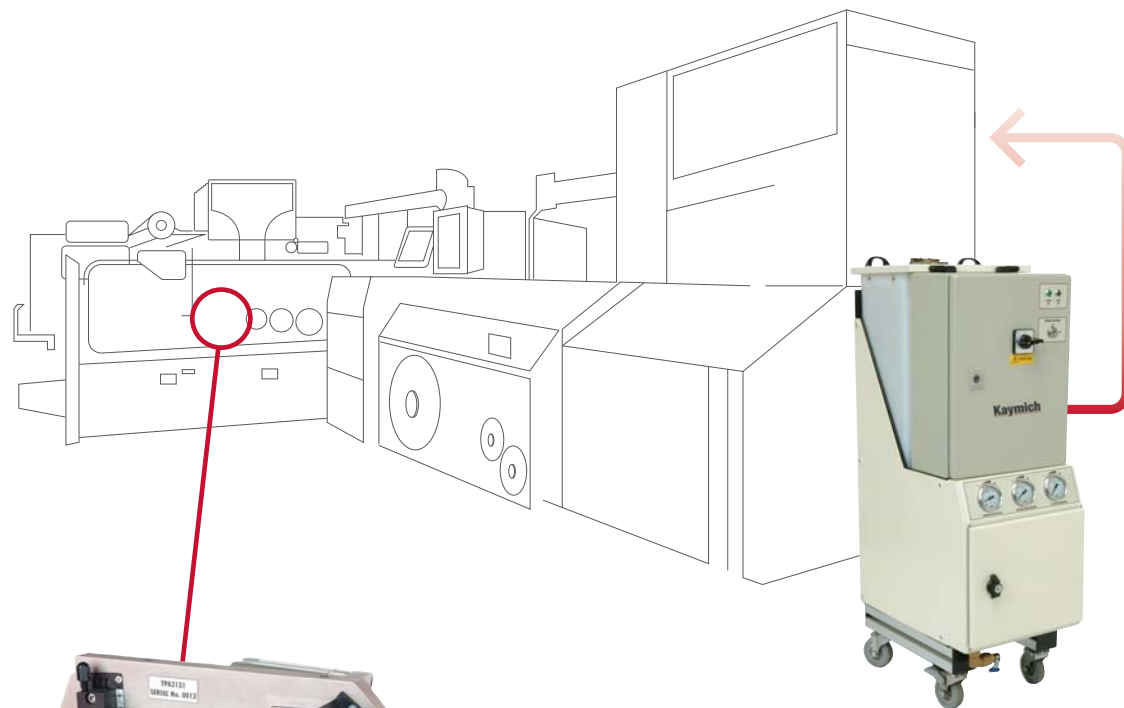


# The Kaymich TPA3000

## Tipping Paper Adhesive Applicator

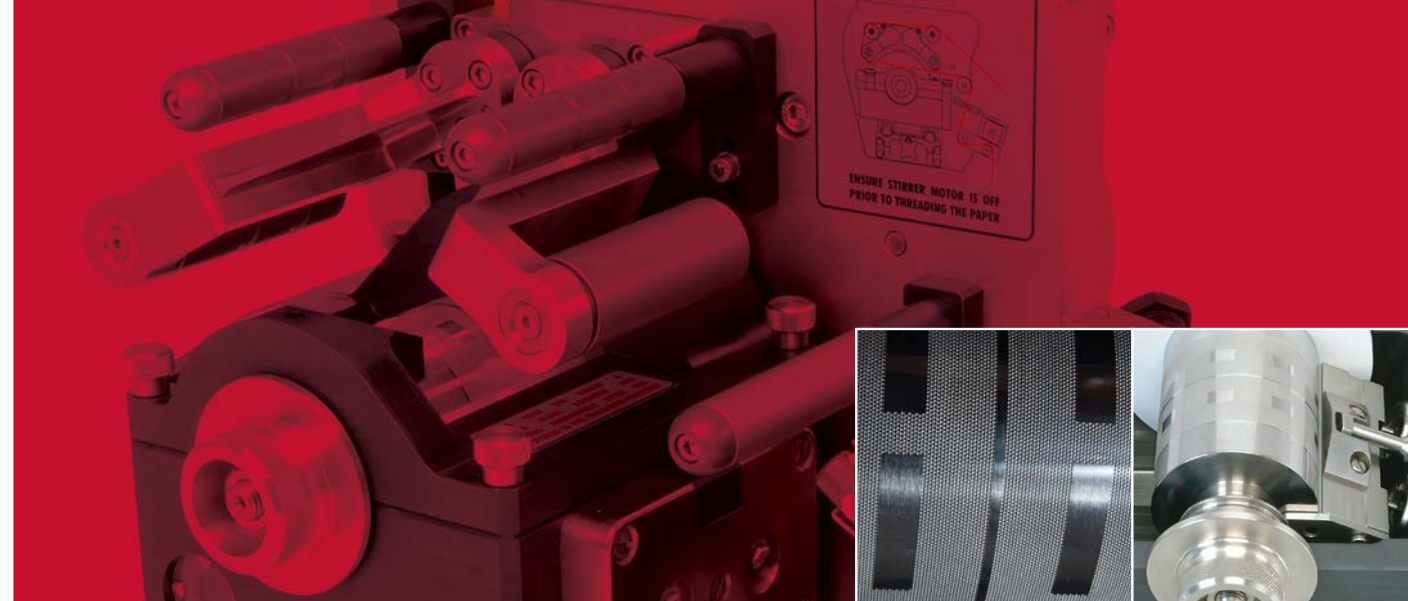
### Introduction

The TPA3000 is designed to improve ventilation control and increase the productivity of cigarette tipping machines.



### TPA Features

- Patented single roller with unique adhesive pick up and application process.
- Does not degrade adhesive.
- Fully enclosed system.
- Adjustable adhesive coating weight, accommodating a wide range of adhesive/paper combinations.
- Roller can be customised to combat counterfeiting and internal code marking, making cigarettes easily identifiable.
- Integrated fully automated paper tracking device.
- Lightweight applicator tank.



### TPA3000

The TPA3000 is specifically designed to apply synthetic resin emulsion adhesive (PVA) to the cigarette filter tipping paper on Hauni Max S, Max 80 & 90 machines.

Application of adhesive is applied by a single roller with a pattern of precision cell machined into the surface. A doctoring (control) system ensures an even and consistent application.

The roller rotates in an enclosed tank, which contains a controlled level of adhesive; therefore water loss and contamination are greatly reduced.

A pick up disc is attached to one end of the roller, which collects a volume of adhesive from the bottom of the tank. A primary doctor blade regulates this volume of adhesive. The remaining adhesive is transferred from the pick up disc into the secondary doctor blade assembly. The adhesive is spread evenly over the surface of the roller, filling the pattern of individual cells.

The quantity of adhesive applied can be varied by adjusting the amount of contact between the application roller and the filter tipping paper, thus accommodating a wide range of adhesives and paper.

When the cigarette tipping machine stops, the cigarette filter tipping paper is lifted clear of the roller whilst maintaining the correct tension.

The system is supplied complete with its own control cabinet, which incorporates an adhesive storage tank, pump and motor assembly, eliminating the use of the original pump.

### TPA Benefits

- A single roller combined with a special doctoring system ensures an even and consistent application of adhesive.
- Substantially improves dilution control.
- Has the ability to accommodate difficult dilution targets.
- The enclosed system reduces adhesive contamination.
- Reduces heat requirement on the rolling plate due to the improvement in the application.
- The requirement for cleaning the applicator is greatly reduced – at the end of each shift or in the event that the machine has been idling.
- The enclosed system with single roller significantly reduces water loss and eliminates degradation of adhesive.
- No regrinding of rollers required - the single roller is not subject to wear when compared to the existing dual system.
- Lightweight tank is easily maintained, removed or replaced.
- Reduces machine set-up times and the requirement for operator adjustment and monitoring of paper tracking.

**Kaymich**