

coefficient

PASTE SAVER DATASHEET

Paste Saver™

Unlock the potential of your existing pasting machines. Purpose built as an upgrade to your equipment the Paste Saver will eliminate low accuracy manual wrench adjustments. Dual installations allow for continuous automatic side to side adjustment ensuring 100% even thickness.

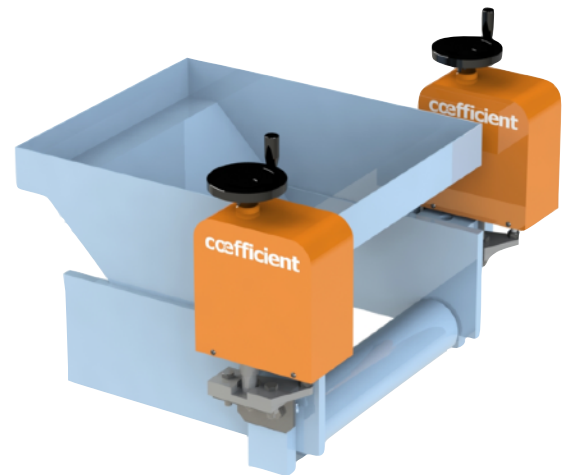
Accuracy and adjustment in one.

With the Paste Saver by Co-efficient gone are the days of tedious manual adjustments. Integrated with the Mate Gauge Paste the Paste Saver closes the loop merging accuracy with adjustment ensuring perfect thickness all the time. This means less materials and higher quality! Manual adjustments are only done periodically allowing for wide swings in the actual thickness of paste applied. As seen on the graph once Automatic Mode is turned on the variance in thickness is minimized providing continuous accuracy, reduced cost & improved quality.



TECHNICAL SPECIFICATION

Step Size Resolution	0.1 μ m	[0.00004 in]
Stroke (Travel)	25 mm	[1 in]
Pasting Back-Pressure	454 kg	[1000 lbs]
Control Points	Single or Dual	[left / right side]
Operation Modes	Automatic or Manual (Turn-wheel)	
Update Rate	5 to 20 seconds (typical)	
Dead-band	Included, Adjustable	
Maximum Step Size	50 micron [0.002 in], adjustable	
Product Change-over	Supported	



Co-efficient Precision Engineering Inc.
118-105 Schneider Road
Ottawa, Ontario, Canada

Phone: +1 (613) 287-0171
sales@co-efficient.com
www.co-efficient.com

Single Control Point

Using a single control point the average pasted thickness can be controlled using the Mate Gauge and the Automated Thickness Control (ATC) software module.

The ATC module controls the motor in the paste saver module based on measurements from the Mate Gauge.

Dual Control Points

By using two paste saver modules at control points on either side of the machine the average pasted thickness as well as the side-to-side thickness difference can be controlled using the Mate Gauge and the Automated Thickness Control (ATC) software module.



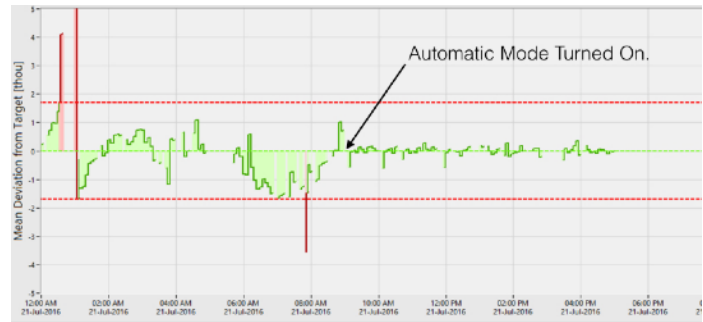
Co-efficient Precision Engineering Inc.
118-105 Schneider Road
Ottawa, Ontario, Canada

Phone: +1 (613) 287-0171
sales@co-efficient.com
www.co-efficient.com

coefficient

AUTOMATIC THICKNESS CONTROL MODULE

The Co-efficient Automatic Thickness Control software module is an optional module that makes adjustments to your pasting machine, rolling line, or caster to optimize the product thickness based on the thickness measurement from the Co-efficient Mate Gauge.



Control Options for your Process

The frequency of adjustments depends on the stability of your process, the size of the dead band, and the frequency of the Mate Gauge measurements. On a typical pasting line and adjustment can be expected from every 20 seconds to 2 minutes with adjustments from 3 μ m to 15 μ m.

CONTROL OPTIONS

Dead Band	Stop adjustment when the thickness measurement is inside a pre-set band around the target value.
Dead Band Delay	The thickness measurement has to be outside the dead band for a given number of measurements before an adjustment is made.
Minimum Time Between Adjustments	Allows setting of a delay to account for time that plates travel from paster to gauge location (i.e. gauge is located after flash dry oven).
Maximum Adjustment Size	Caps the maximum step size per adjustment.
Gain	Adjustable Proportional Gain to allowing tuning of the control loop for best process performance.
Control Target	Control basis can be selected as the maximum, minimum, or average thickness.

Co-efficient Precision Engineering Inc.
118-105 Schneider Road
Ottawa, Ontario, Canada

Phone: +1 (613) 287-0171
sales@co-efficient.com
www.co-efficient.com

PASTE SAVER - FEATURES

Adjustable Limit Switches	Limit switches set during installation to prevent actuator from over-travelling and damaging equipment.
Alarms	Travel Limit, Motor Temperature, Manual Interference Detection.
Manual Adjustment	Built-In Hand Wheel, 4" Diameter. One revolution is less than 0.0005 in.
Filtering	Not influenced by voids, paste lumps, or paper folds.
Product Change Support	Supports on-the-fly product changes that are fast and accurate, eliminating the slow response of manual change over.

END OF DOCUMENT.



Co-efficient Precision Engineering Inc.

118-105 Schneider Road
Ottawa, Ontario, Canada

Phone: +1 (613) 287-0171
sales@co-efficient.com
www.co-efficient.com