

# CrossCoat™ Precision Metering Slot Die

ITW Dynatec's CrossCoat™ is a non-contact, metered slot applicator that produces a precise flow of adhesive for coating applications that require streak-free results. A continuous film is formed from the applicator to the substrate. The surface attraction of the adhesive enables it to be stretched as it is applied to the substrate, producing highly accurate and repeatable results. Cross-web accuracies to  $\pm 3\%$  can be achieved with a minimum application coat weight of 1gsm at web speeds of 1,000 m/minute or more.

## CrossCoat™ Precision Metering Slot Die:

- Cross-web distribution accuracies to  $\pm 3\%$ .
- Ideal for heat sensitive materials.
- Coat weights as low as 1gsm.
- Coat weight and width changes during production.
- Consistent coating on irregular surfaces.
- Streak-free finish.

### Precision

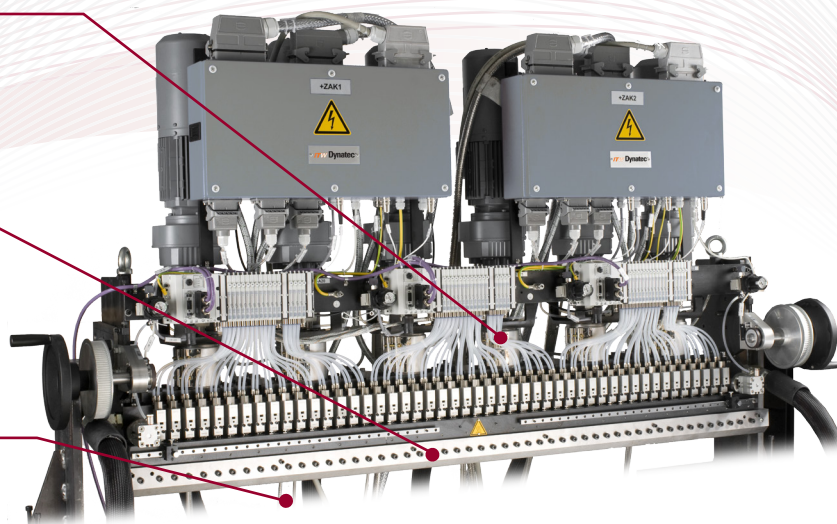
Integrated gear pumps provide exceptional cross-web distribution accuracy to  $\pm 3\%$ .

### Flexibility

Coat weight and coverage width can be easily changed automatically or manually.

### Performance

Non-contact application encapsulates surface contaminants instead of trapping them between the die lip and substrate, producing consistent coating performance while minimizing waste.



ITW Dynatec - CrossCoat™ Precision Metering Die

## The Dynatec Difference...

### Non-Contact Application

**No Heat Memory** - Heat sensitive materials such as thin PP and PE film do not come into contact with the die lip, eliminating damage to the film.

**Conformity to Irregular Surfaces** - Establishing an adhesive film enables 100% coating of fabrics, textured foils, technical textiles and other non-flat surfaces.

**Streak-Free Coating** - Smooth and clear fluid coating that encapsulates substrate contaminants instead of producing dry lines.

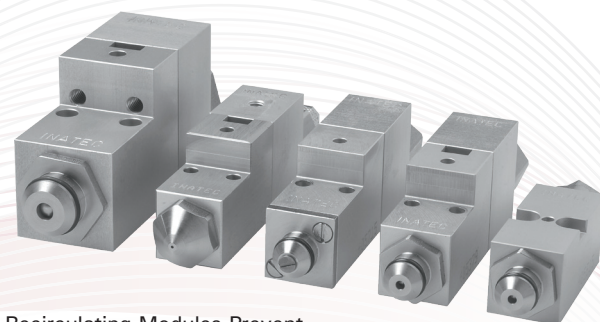
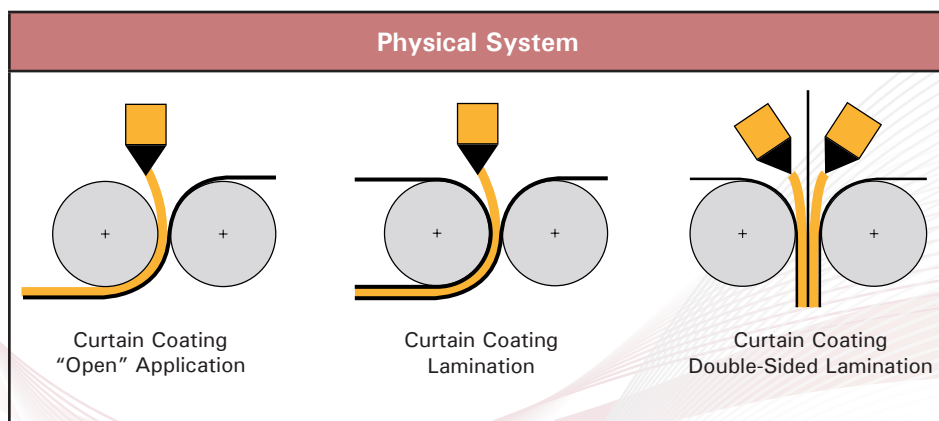
**Flexible Coat Weights** - The non-contact coating method permits elongation of the adhesive until the desired coat weight is achieved. Coat weights from 1 to over 100 gsm are achievable "on-the-fly" dependent upon the adhesive rheology.

# CrossCoat™ Precision Metering Slot Die

Pump Sizes	Pump Output at 1 RPM	Maximum Output at 60 rpm	Minimum Output - lbs/hr	Maximum Output - lbs/hr
0.6cc/rev	4.8cc	288cc	0.63	38.06
1.2cc/rev	9.6cc	576cc	1.27	76.12
2.4cc/rev	19.2cc	1152cc	2.54	152.25
4.8cc/rev	38.4cc	2304cc	5.07	304.50
10cc/rev	90cc	4800cc	10.57	634.36

Physical System	Details
Adhesive Viscosity	1,000 - 200,000 cps*
Maximum Operating Temp.	200° C (425° F)
Pneumatic Pressure	5 to 9 bar (74 to 125 psi)
Adhesive Pressure	7 to 68 bar (100 to 1000 psi)

\*Elastomeric properties of adhesive determine feasibility of curtain application viscosity.



Recirculating Modules Prevent Adhesive Degradation



Non-Contact Film Extrusion



**ITW Dynatec**

## ASIA

ITW Dynatec Suzhou  
Unit2, B1 Building  
No.9 Weixin Road  
SIP, Suzhou, China 215122  
Telephone +86.512.6289.0620  
Fax +86.512.6289.0621  
dynatecsuzhou@itwdynatec.cn

## AMERICAS

ITW Dynatec  
31 Volunteer Drive  
Hendersonville, TN 37075  
Telephone 615•824•3634  
+1.800.860.6150  
Fax +1.615.264.5248  
dynatec@itwdynatec.com

## JAPAN

ITW Dynatec K.K.  
Tsukimura Building 5th Floor  
26-11, Nishikamata 7-chome  
Ota-ku, Tokyo 144-0051, Japan  
Telephone +81.3.5703.5501  
Fax +81.3.5703.5505  
info@itwdynatec.co.jp

## EUROPE, AFRICA and MIDDLE EAST

ITW Dynatec GmbH  
Industriestrasse 28  
D-40822 Mettmann, Germany  
Telephone +49.210.4915.0  
Fax +49.210.491.5111  
e.mail@itwdynatec.de

© 9/2012 ITW Dynatec

ITW Dynatec reserves the right to discontinue or change specifications, designs, materials and equipment without notice or obligation.

Visit us at [www.itwdynatec.com](http://www.itwdynatec.com)