

Hurletron Quarterly News

2003

Libertyville, Illinois


Spring Issue

Nexpo 2003

Las Vegas

BOOTH 684

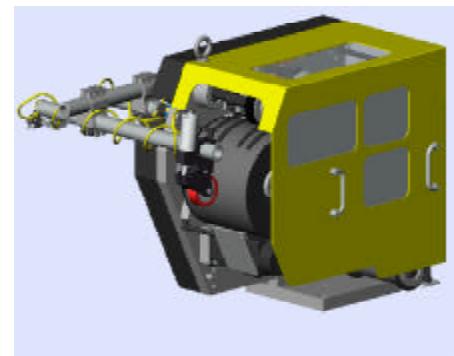
Please join Steve Siler  and Charlie Conover  at our booth at Nexpo to discuss the capabilities of our ElectroCard® 3G  High-Speed, On-Press Promotional Product Applicator as well as its auxiliary ElectroSplice® . The ElectroSplice® is used to deliver Post-it Notes and other promotional products to the ElectroCard® from a roll.

Charlie and Steve will also be presenting information on Hurletron's new MicroDot  a Monochrome, Digital Camera-based Registration control which can measure up to 12 colors at 3600 fpm and uses registration marks that are virtually invisible.

Other Hurletron products include the LabelJet Modular Promotional Product Applicators for folders, saddle stitchers, gripper conveyors and belt deliveries; as well as the VersaTack Electrostatic Tacking systems.

ElectroCard® 3G Selected By National Magazine

The latest edition of Hurletron's ElectroCard®, the 3G, has been selected by a national magazine to apply response cards, and po-



tentially Post-it® Products, in their publications. Delivery of the new machines begins in late May 2003 and will be completed by the end of July.

The ElectroCard® 3G is a high-speed, on-press promotional product applicator that can be used to apply a wide variety of promotional pieces including response cards, cosmetic samples and 3M Post-it® Notes.

The system can apply 100,000 pieces per hour to a moving web on high-speed gravure or offset presses with +/- 1/8" accuracy on a designated page without disrupting the printing operation or adding off-line operations.

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In addition to the ElectroCard, Hurlotron offers the ElectroSplice, a zero-speed, in-register, butt-splicer that is capable of delivering Post-it® Products and response cards to the ElectroCard at 100,000 pieces per hour.

Specifications (ElectroCard® 3G)

Size Specifications		
Length	25.4 in (646 mm)	
Height	24.3 in (618 mm)	
Width	16.7 in (426 mm)	
Weight	320 lbs (145 kg)	
Mechanical Drive Specifications		
Motor	1.81 HP	
Torque	47 in-lbs	
Max Speed	3000 rpm	
Feedback	resolver	
Transmission	HTS belt	
Electrical Specifications		
Power Requirements	230vac, 60A, 3Ph	
Machine Operating Specifications		
Placement Rate	100,000 cph	
Placement Tolerance	+/- 1/8 in (3.2 mm)	
Media Specifications		
	Cards	Post-it® notes
MIN Length	3 in (76.2 mm)	3 in (76.2 mm)
MAX Length	8 in (203.2 mm)	5 in (127 mm)
MIN Width	3.5 in (88.9mm)	3 in (76.2 mm)
MAX Width	7 in (177.8 mm)	
MIN Weight	75 g/m²	75 g/m² (3M Standard)
MAX Weight	180 g/m²	n/a
MIN mean burst perf. strength	7 lbs/in (12.26 N/cm)	9 lbs/in (15.76 N/cm)
MAX mean burst perf. strength	9 lbs/in (15.76 N/cm)	11 lbs/in (19.26 N/cm)
Standard Deviation	0.5 lbs/in (0.09 N/cm)	0.5 lbs/in (0.09 N/cm)
MIN Tear out perf. strength	14 lbs/in (24.52 N/cm)	n/a
MAX Tear out perf. strength	18 lbs/in (31.52 N/cm)	n/a

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Static Problems in the Workplace

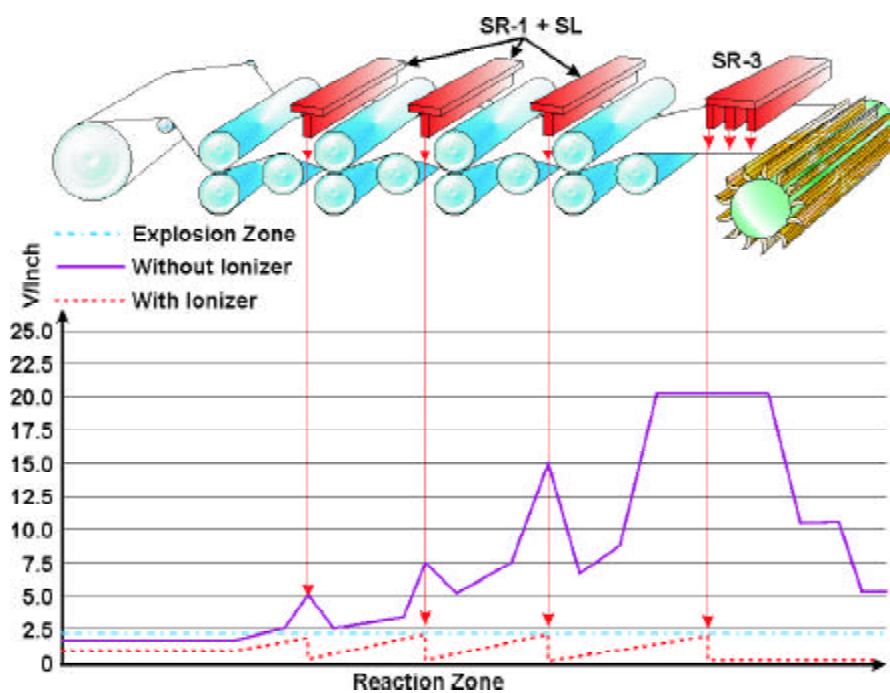
Static is a widespread problem that can be very difficult to understand and to deal with. As a static charge builds up, it is not detectable to the senses; and by way of complication, can disappear and reappear spontaneously.

Basic Facts about Static Charges

1. Static charges are generated when two solid materials come into contact and then separate and the transfer of electrons from one material to the other takes place.
2. When the materials separate, one material acquires an excess of negative charges and the other material takes on an excess of positive charges.
3. The negative or positive charges will depend on the material in the pair. Remember that static electrification is never caused by airflow hitting a solid surface.
4. When one of the materials in the pair is nonconductive, (rubber, plastic material, etc.) it maintains the static charges over a period of time because the charges cannot be conducted away, even if the material comes in direct contact with

grounded metal.

Static can cause damage to equipment, build up of paper dust and other pollutants on the printing surface, static charge buildup in workers' bodies, and sparking in hazardous areas that can cause explosion and fire.



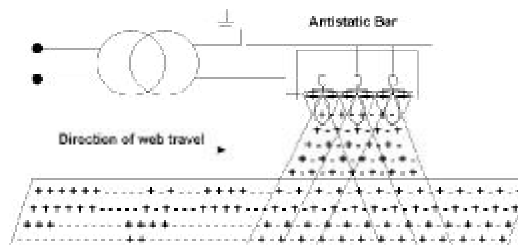
How Can Static Charges be Detected?

The best method to detect a static charge is to measure the electrostatic fields produced by charges. These charges can be measured using an electrostatic field meter. When taking field measurements:

1. Keep the measuring distance consistent from one reading to the next.
2. Keep track of the polarity and magnitude of the area being measured.
3. The portion of the moving web you are measuring should be free and away from any other surfaces, especially metal rolls.

Neutralizing the Static

To eliminate the buildup of a static charge on a moving web, use high voltage AC power supply and an ion generator.



This type of transformer produces both positive and negative ions. Since the moving web can be either negatively or positively charged, it will attract the unlike charges

CMM International 2003

More than 22,000 visitors attended the biannual Converting Machinery and Materials exposition in Chicago, IL from April 14-17, 2003.

Hurlatron emphasized its full range of register control systems including the Halcon and Aquila spot scanner systems; and featured the new MicroDot digital camera based system capable of measuring mark pairs as small as 0.008" (0.2mm) at speeds up to 3,600 FPM (18m/sec.).

The new Hurlatron ElectroMist ES electrostatic remoisturizing system was introduced to the converting marketplace. This system can add between ½% and 2-1/2% moisture back into a paper web at full line speed. Hurlatron ESA (electrostatic assist for rotogravure printing), Spengler active antistatics and VersaTack tacking systems were also prominent in the booth.

We experienced a significant increase in customers visiting our booth over previous years, and based on the positive results, signed up for a large booth at the CMM International 2005 show.

Product Line



Promotional Product Applicators

- ElectroCard®
- ElectroSplice®
- LabelJet



Registration Controls

- Aquila®
- Halcon®
- Halcon® Insetting
- MicroDot



Electrostatic Web Cooling

- Reactor EC



Electrostatic Web Remoistening

- ElectroMist ES



VersaTack Electrostatic Tacking

- Chill Roll Tacking
- Ribbon Tacking
- Card Tacking
- Stack Tacking
- Bundle Tacking



Video Web Inspection

- Visus® 100
- Visus® 200



Active Antistatics

- Hurlatron/Spengler

Planatol-Hurlatron



- Longitudinal Fold Gluing
- Fold Softening
- Ink Supply Systems
- Adhesives
- Softening Concentrates

Authorized Agents

Let us put you in touch with the authorized agent nearest you, or you can visit our web site.

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Les F. Rapchak - 416-410-1313

Ontario

Honey Felske - 905-857-3331

Ontario

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Herbert L. Gibson - 704-523-0710

Charlotte, North Carolina

Steingraeber, LLC

Joseph K. Steingraeber - 636-329-0595

St. Charles, Missouri

Show Schedule

Stop and see us at any of these shows or conferences:

Nexpo 2003

June 16-19, 2003

Las Vegas, NV

Booth 684

PLGA Conference

October 16-17, 2003

San Antonio, TX

CMM International 2005

April 18-21, 2005

Chicago, IL

Booth 4540



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