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Buyers' Guide 18

ALSO IN THIS ISSUE

- LASER DIE CUTTING VS. ROTARY DIE CUTTING 8
- METHODS FOR CLOSED LOOP COATING THICKNESS CONTROL 10
- AND MORE!



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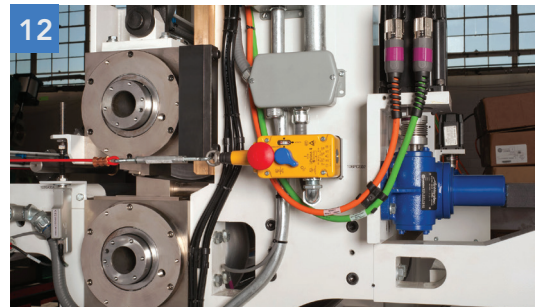
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Even though there appear to be many more strengths to laser cutting than die cutting, it's not always going to be an automatic choice. Discover how to choose which is right for you.



12 METHODS FOR CLOSED LOOP COATING THICKNESS CONTROL

Take a closer look at various coating methods and how they are used to control the application rate, what types of coaters they are used with and how the thickness measurement system can be interfaced with them.



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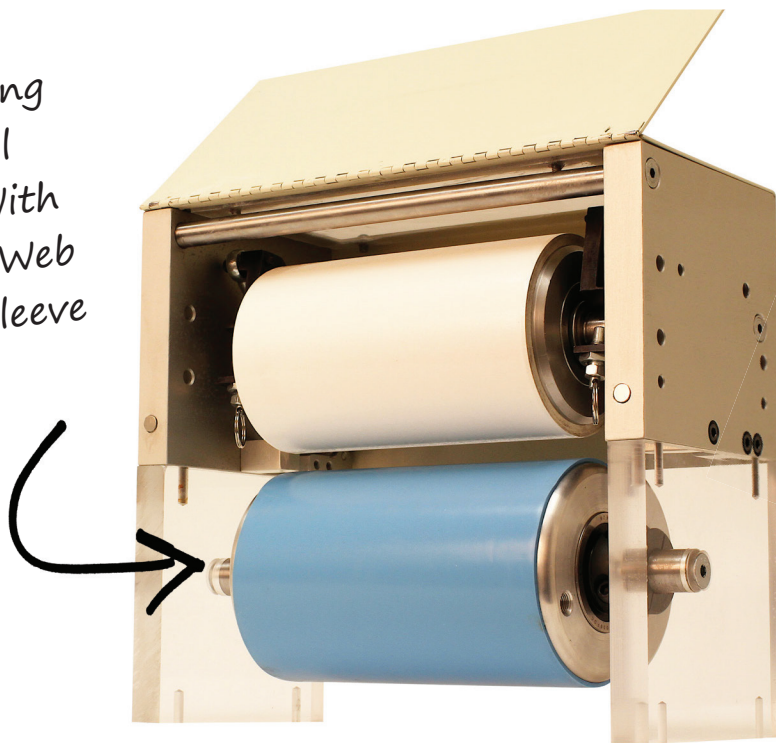
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Be Informed



Joan Mantini
Editor

Welcome to the August issue of *PFFC*! In this issue we share with you some of the leaders in the converting and package printing industry, in our third print version of our Buyers' Guide. We take pride in our ability to advise our reader base on all things converting related, and this indeed will continue to be a valuable resource for our readers.

For an easy reference, you can also find the online Buyers' Guide here: <https://directory.pffc-online.com>. The online Buyers' Guide also has key suppliers to the paper, film, foil, paperboard and nonwovens converting industry, in a convenient location. This online edition is regularly updated so our page viewers are always receiving the latest and most up to date information.

Did you miss out on being a part of the 2021 Buyers' Guide? No worries! It is never too late to have your company added. Visit the link above and follow the prompts to make sure other companies are finding you!

Also, while you are on the site take a browse around and notice the updates that have been taking place. View our online exclusive eBooks, sign up to receive a our weekly eClips via email, view new products and product videos, and read our latest featured stories and industry news.

If you like what you see while you are checking us out, contact us directly to learn ways your company can be promoted both in print, and online.

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Continuous Raw Material Supply Difficulties of Great Concern to European Flexible Packaging Manufacturers

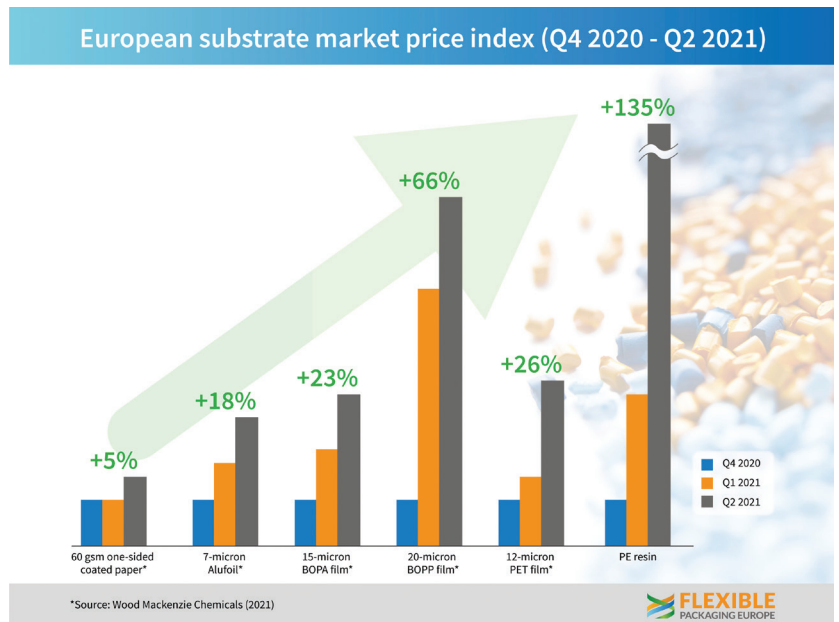
Contributed By Flexible Packaging Europe

The continuous difficulties of raw materials supply are creating a potential risk to the stable supply of food, pharmaceuticals, and medicals, which worries the members of Flexible Packaging Europe (FPE).

Rates of all raw materials used for flexible packaging showed a historic increase over the past six months according to data from Wood Mackenzie’s quarterly flexible packaging overview. Examples of those drastic increases are more than 130 percent for PE resins, almost 70 percent for BOPP film or 18 percent for aluminum foil. In addition, freight rates both for sea from and to Europe and land transportation within Europe skyrocketed provided availability.

“The strong increase across all materials hits not exclusively the flexible packaging industry but all industries. The main reason is the immediate and simultaneous recovery everywhere in the world and in most sectors towards the end of the pandemic,” said Rob Gilfillan, head of applications at Wood Mackenzie, a Verisk business. “Any unforeseen incident like seaway blockages, production interruptions and other unfortunate circumstances could immediately worsen the precarious situation.”

At its recent summer meeting in June, more than three quarters of the participating FPE members rated the current availability of raw materials as “bad” or “very bad”. The expectations for the raw material price developments diverged from further increase (23



percent) to stable (41 percent) and decrease (36 percent).

“The concourse of basically all materials necessary for production is creating major issues and complexities for our member companies. The manufacturers are doing their outmost to serve the customers in the best possible way, but it is continuously difficult as mainly the availability is tightening further,” explained Guido Aufdemkamp, FPE’s executive director. “This challenging situation is anticipated to last until the end of the year while we hope there will be no further supply chain or geo-political hick-ups. The ongoing shortage might ultimately also be reflected in product delivery bottlenecks and price adjustments in retail, and thus

also for end-consumers.”

Almost half of the Fast-Moving Consumer Goods (FMCG) in Europe, excluding beverages, are packed with flexible packaging. Examples include all kind of packaged foods, pet food, personal, household care products, medical and pharma all rely on flexible packaging. ■

ABOUT THE COMPANY

Flexible Packaging Europe (FPE) is the industry association representing the interests of more than 80 small, medium-sized companies, and multi-national manufacturers. More info at www.flexpack-europe.org



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Precision die cutting on a Delta ModTech Converter

Choosing Right: Laser Die Cutting Vs. Rotary Die Cutting

By **Dave Grenwis**, Marketing Manager at Delta ModTech

Precision vs. durability? Cost vs. quick run capabilities? When comparing laser die cutting to rotary die cutting, there are a variety of reasons to choose one over the other – and a whole lot of grey area in between. Let's take a closer look at what's right for your die cutting machine.

Before we break down the pros and cons of each option, let's start out with a qualifier: The die cutting option you choose will depend entirely on the type of

project you're undertaking. And, as you'll learn, there are cases when both options can be used.

But before we get to that, let's take a look at some definitions of each option.

What is laser die cutting?

Laser die cutting involves using a high-speed laser to cut through substrate. Lasers can be used to make a variety of cuts and do not require any contact with the material.

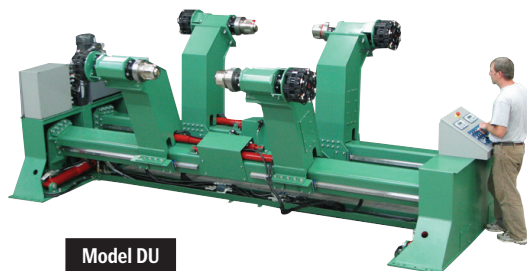
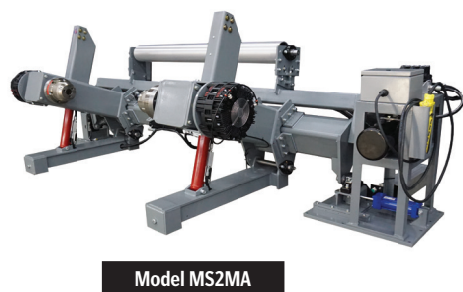
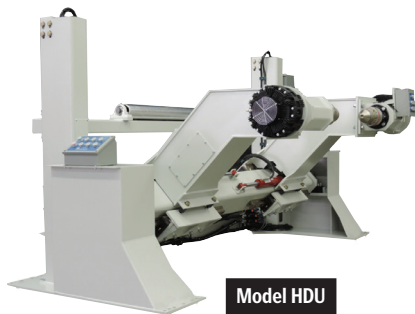
There are only a few

manufacturers of the actual laser used in laser cutting machines.

Types of laser cuts

- Ablation
- Kiss cutting
- Through cuts and slug removal
- Perforation
- Drilling
- Slitting
- Scoring
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- Ablation of metals bonded to polyester or similar substrates
- Abrasives, adhesives, fabric, paper, plastic, rubber, textiles

What is rotary die cutting?

Rotary die cutting involves using a customized, machined part to cut through substrate. Rotary dies can make a variety of cuts, and are known for their durability.

Types of die cuts:

- Metal to metal (also known as thru cutting)
- Kiss cutting
- Perforation
- Scoring
- Slitting

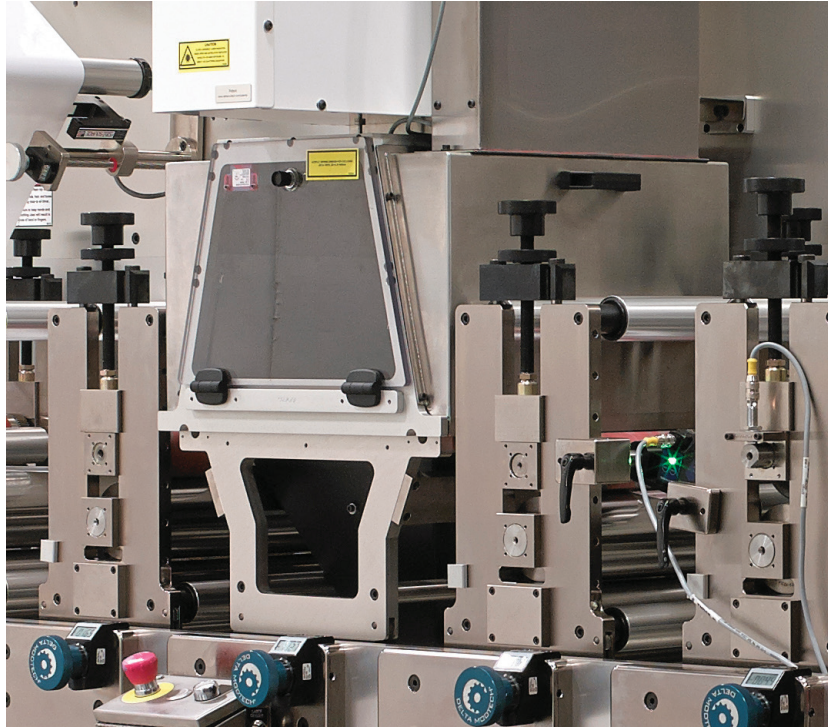
Materials used in die cutting

There are many materials that can be rotary die cut. The most common are: paper, film, foam, gaskets, tapes, magnets, tyvek, vinyl, and pouch stock foil. There are many more and it is always best to have your die tooling supplier test each material to verify cutting capability.

The advantages of laser die cutting

What are the advantages of laser die cutting over rotary die cutting? Let's take a look.

- **Tough cuts, tight tolerances.** The laser's claim to fame is that it can cut through intricate, tricky patterns in which it would be difficult for a traditional rotary die cutter.
- **Prototype friendly, quick turnaround.** Laser cutting



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doesn't require hard tooling, so it's ideal if you want to create quick prototype. You can then invest in a more durable rotary cut die down the road.

- **Matches up with a variety of materials.** There are a wide range of lasers so they can match up with a variety of materials.
- **Maintenance / Replacement costs.** A rotary die may be less expensive to purchase, but it will eventually become dull and need to be sharpened and replaced. A laser will last significantly longer.
- **Storage.** Rotary dies are heavy and require racks. It will definitely take up space and you'll need to allocate time to organize the storage.
- **Flexibility.** The laser can be continuously readjusted for quick runs, which is why it's

often the choice of contract converters.

- **User-friendly.** Providing you're trained properly on the laser's usage, it should be significantly easier to operate. A rotary die needs to be physically replaced when it wears down, and will require operator training for the replacement process.
- **New advancements.** Laser technology has come a long way, and new advancements are taking place every day. We've listed the new lasers on the market, and more appear every day.
- **Instant verification.** You can verify cut tests immediately.
- **Quicker time to market.** You can upload a drawing quickly to a laser cutting machine and beginning cutting. Those recipes and programs can also be saved and easily recalled.

The advantages of rotary die cutting

Let's take a look at the advantages of rotary die cutting machines in comparison to laser die cutting machines.

- **Difficult to cut materials.** Lasers may struggle with more difficult materials. The rotary die usually cuts through any substrate at approximately the same speed. The laser speed will be dependent on the cut pattern.
- **Big runs.** A rotary die is better for handling big production runs, as it can cut at a faster rate and ultimately a lower cost.
- **Less upfront costs.** A rotary die cutting machine is less expensive to purchase.
- **Speeds.** Laser cutting moves at a slower pace. It has to adjust its cutting speed and depth with each cut, where the shape is already in the rotary die.

Rotary die cutting vs. laser cutting

Both rotary die cutting and laser cutting have advantages based on specific situations. We decided

	ADVANTAGE: LASER DIE CUTTING	ADVANTAGE: ROTARY DIE CUTTING
Tough cuts, tight tolerances	X	
Difficult to cut materials		X
Prototype friendly, quick turnaround	X	
Matches up with a variety of materials	X	
Maintenance / replacement costs	X	
Big runs		X
Less upfront costs		X
Storage	X	
Flexibility	X	
User-friendly	X	
Speeds		X
New advancements	X	
Instant verification	X	
Quicker time to market	X	

to compare them based on the various needs we see in rotary die cutting (see table above).

The decision is in the details

Even though there appear to be many more strengths to laser cutting than die cutting, it's not always going to be an automatic

choice. Ultimately, your decision will be driven by the project goals, costs and time constraints. It brings us back to our number one point of emphasis: When you establish effective R&D and concrete goals upfront, it allows a converting machine manufacturer to provide the best solution. ■

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Methods for Closed Loop Coating Thickness Control

By **Bob Pasquale**, Contributing Writer

There are many methods currently available for online measurement of coating thickness. A major benefit of these measurement systems is the ability to use the information to control the coating application in order to obtain a targeted laydown. This control can be performed in several ways, including:

- Adjusting the speed of the coating application roll(s);
- Adjusting the speed of the coating delivery pump;
- Adjusting the speed of the web processing line;
- Adjusting the coating gap; and
- Adjusting a combination of the above.



Photo 1 – Kiss Coater

Quite often the coating method dictates which of the above methods is most desirable.

We will look at each of these methods, discussing how they are



Photo 2 – Offset Gravure Coater

used to control the application rate, what types of coaters they are used with and how the thickness measurement system can be interfaced with them.



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Photo 3 – Slot Die Coater



Photo 5 – Knife Coater

Adjusting the speed of the coating application roll(s)

There are several coating methods where the coating is transferred to the web using an applicator roll running in either the same or opposite direction of the web. In either method, adjusting the speed of the applicator roll directly affects the amount of coating that is applied. Therefore, in these methods, the thickness measuring system's information is used to adjust the speed of the applicator roll to control the coating transfer.

Examples of these coating methods include kiss coating (Photo 1) and offset gravure coating (Photo 2).



Photo 4 – Spray Coater

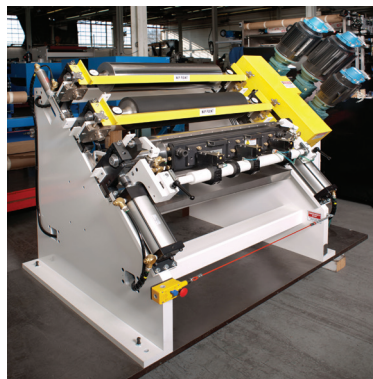


Photo 6 – Between the Roll Coater

The ease with which today's drive and control systems can accurately control a motor's speed allows this method to implement highly accurate adjustments to the coating rate. Interfacing of the thickness gauge system with the drive system allows for fully automatic closed loop control of the application rate.

Adjusting the speed of the coating delivery pump

Certain coating methods apply a pre-metered amount of coating to the web through the use of a precision metering pump. In these cases the information from the thickness measuring system is used to speed

up or slow down the pump in order to affect the amount of coating delivered to the web.

Typical examples of this type of coater are slot die coaters (Photo 3) and spray coaters (Photo 4).

As previously discussed for the applicator rolls, the ability to control the motor's and therefore the pump's speed on a finite basis allows for making precise adjustments to the coating laydown rate as well as automatically controlling the thickness via closed loop control.

Adjusting the speed of the web processing line

There are certain cases in which a pre-metered amount of coating is delivered to the web but it is not practical to change the rate at which the coating is being delivered to the process. This particularly applies to processes where the mixing or production of the coating is critical. In these the information from the thickness measuring system is used to speed up or slow down the web speed in order to affect the amount of coating delivered to it.

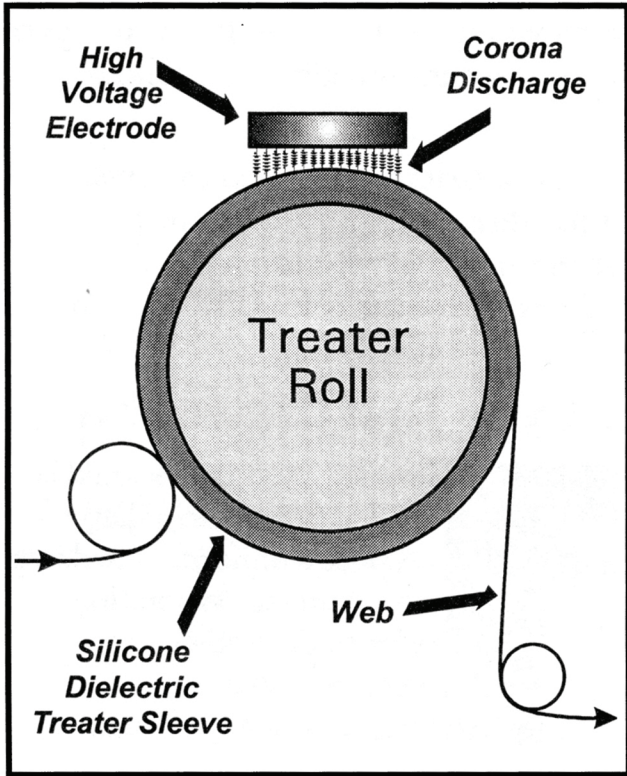
A typical example of this is extrusion coating.

Again, as in the previous two example, today's drive and control systems can accurately control the speed of the system's motors, allowing for highly accurate adjustments to the coating rate. Interfacing of the thickness gauge system with the drive system allows for fully automatic closed loop control of the application rate.

Adjusting the coating gap

Several coating methods rely on a gap to control/meter the

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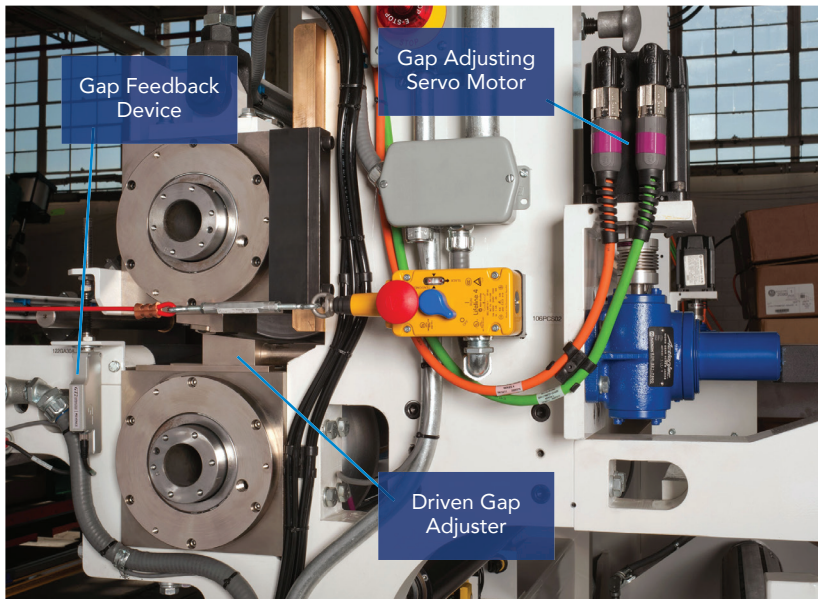


Photo 7 – Between the Roll Coater with Closed Loop Gap Control



Photo 8 – Reverse Roll Coater with Closed Loop Speed and Gap Control

amount of coating applied to the substrate. This gap can take several forms including between two rolls or a roll and another metering device such as a knife blade. In certain cases the gap between the two members is used to pre-meter the coating prior to

it being introduced to the web while in other cases the coating is introduced to the web at the gap, resulting in the total thickness of the coating plus the web being metered. In these types of coaters, adjusting the gap between the rolls or roll and knife changes the

amount of coating that is applied. Therefore, in a closed loop system the information from the thickness measuring system is used to open or close the gap in order to affect the amount of coating delivered to the web.

Examples of this type of coater are knife over roll (Photo 5) and between the roll coaters (Photo 6).

In these types of coaters adjustable devices typically allow the gap to be varied. The information from a thickness measuring system can be used for closed loop control of these devices and therefore the gap through the use of position controlled motors that are tied to the devices as well as position feedback devices that monitor the gap. Such a system is shown below (Photo 7).

Adjusting a combination of the above

In certain coating applications such as a reverse roll coater a combination of speed and gap control is used to control the amount of coating being applied to the web.

In this case the speed of the applicator roll is used for minor changes in the coating rate while larger changes are handled through adjustments to the gap between the rolls. In applications such as these a combination of the previously described methods of control is used to control the coating application rate. Such a system is shown below (Photo 8).

As demonstrated above, there are many different systems available that allow for the use of a thickness measurement system to control the application of a coating, with the type of coater dictating which method is most suited. ■



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www.corotec.com



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www.deltamodtech.com

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www.accudynetest.com

Double E
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www.ee-co.com



Dover Flexo Electronics
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www.dfe.com



DUNMORE
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www.dunmore.com



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www.eaglewoodtech.com



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www.elba-spa.it



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www.elitecameron.com



Emerson and Renwick Ltd
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+44 1254872727
www.eandr.com

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Lotar Enterprises
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Maxcess Intl
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www.maxcessintl.com

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www.msccorechucks.com



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www.meech.com



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www.nowplastics.com



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www.parkinsontechnologies.com

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Vetaphone North America
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Polymershapes
Pro Tapes & Specialties, Inc.
Rol-Vac
Technical Coating Intl
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PennPac
Polymershapes
Pro Tapes & Specialties, Inc.
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Biodegradable Film or Resin

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ZOi Films

Butadiene Styrene Film or Resin

NIIKA CORP

Cellophane

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Filmquest Group
NIIKA CORP
NOW Plastics, Inc.

Cellophane, Coated

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NIIKA CORP
Supply55, Inc / NEPATA Converting
Equipment

Cellulose

D&K Coating Technologies
NIIKA CORP

Coextruded Films or Resins

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NOW Plastics, Inc.
Polymershapes
Toray Plastics (America), Inc.

Coextrusions - by Layers

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NOW Plastics, Inc.
Toray Plastics (America), Inc.

Conductive Films

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NIIKA CORP

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NIIKA CORP
NOW Plastics, Inc.
Polymershapes

Elastomer Film: Thermoplastic

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Ethylene Vinyl Alcohol Film or Resin

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Equipment

Fluorocarbon

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NIIKA CORP

Ionomer

NIIKA CORP

Metallized Films: Holographic

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Filmquest Group
LL Flex
NIIKA CORP
NOW Plastics, Inc.
PennPac
Supply55, Inc / NEPATA Converting
Equipment



Innovation by Chemistry

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Metallized Films: Sputtered

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NIIKA CORP
Polymershapes
ZOi Films

Metallized Films: Vacuum Deposited

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NIIKA CORP
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Rol-Vac
Technical Coating Intl
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Nylon (Polyamide) Film or Resin

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NIIKA CORP
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Polymershapes
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Olefins: Spunbonded Film

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Polycarbonate Film

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NIIKA CORP
Polymershapes
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Polyester Film or Resin

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Polypropylene Film or Resin

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Filmquest Group
Mirror Polishing & Plating Co Inc.
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 Polykote Corp
 Pro Tapes & Specialties, Inc.
 Technical Coating Intl
 ZOi Films

Aluminum Foil: Laminates, Supported, Unsupported
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 NIIKA CORP
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 Polykote Corp
 Pro Tapes & Specialties, Inc.
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 Technical Coating Intl
 ZOi Films

Other Metallic Foils
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 LL Flex
 NIIKA CORP
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 Supply55, Inc / NEPATA Converting
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Stamping Foils
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 LL Flex
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 Equipment
 ZOi Films

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 Polykote Corp
 Technical Coating Intl
 ZOi Films

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Board: Coated
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 Supply55, Inc / NEPATA Converting
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 Technical Coating Intl

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 NIIKA CORP
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Belting & Guides (including Corrugator,

Folder/Gluer & Vacuum)
IPCO USLLC
Jemmco, LLC
NIIKA CORP

Blades: Special Purposes

AZCO Corp.
Cadence, Inc.
Maxcess Intl
NIIKA CORP
TGW International

Blocks (including Die, Envelope & Mounting Engravers)

NIIKA CORP

Boards (including Cutting & Envelope)

AZCO Corp.
NIIKA CORP

Brakes (including Air, Electrical, Electromagnetic & Mechanical)

Double E
Dover Flexo Electronics
Maxcess Intl
Montalvo
NIIKA CORP

Bridge Mandrel/Sleeve Carrier

NIIKA CORP

PRECISION ROLL SOLUTIONS

Precision Roll Solutions

Bundling Machines

NIIKA CORP

Burners & Combustion Equipment

NIIKA CORP

Can/Core Winding Machinery (Convolute & Spiral Wound)

Chase Machine & Engineering
NIIKA CORP

Carton/Case Packing Equipment

NIIKA CORP

Chucks: Core & Safety

Chase Machine & Engineering
Double E
Elite Cameron, Inc.
Chase Machine & Engineering
Double E

Cleaning Equipment: Sheet & Web

3DT LLC - Representative of SOFTAL in North America

Alphasonics USA Inc.
Chase Machine & Engineering
Eaglewood Technologies, LLC
Jemmco, LLC



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Kelva-Matik
Meech International
NIIKA CORP
Simco-Ion



Sonic Solutions
Static Clean International

Clutches

Absolute Converting Solutions
Maxcess Intl
Montalvo
NIIKA CORP

Coating Equipment

CESCO American, LLC
Global Equipment Intl. LLC
Frontier - a Delta ModTech Company
NIIKA CORP
Printco Industries LLC

Sensory Analytics (SpecMetrix Systems)

Coating Machines: Extrusion Coating

Davis-Standard, LLC
Elite Cameron, Inc.
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIIKA CORP
Windmoeller & Hoelscher Corp

Coating Machines: Fluid Coating

Catbridge Machinery
CESCO American, LLC
Chase Machine & Engineering



Elite Cameron, Inc.
ETI Converting Equipment
Faustel Inc
Frontier - a Delta ModTech Company
Global Equipment Intl. LLC
MIRWEC Coating
New Era Converting Machinery
NIIKA CORP
Nordmeccanica NA
OLBRICH GmbH
Windmoeller & Hoelscher Corp

Coating Machines: Vacuum Roll

Davis-Standard, LLC
Emerson and Renwick Ltd
NIIKA CORP

Coating Stations: Open Systems -

Blade/Knife & Comma
CESCO American, LLC
Chase Machine & Engineering
Davis-Standard, LLC
Emerson and Renwick Ltd
ETI Converting Equipment
Faustel Inc
Frontier - a Delta ModTech Company
MIRWEC Coating
New Era Converting Machinery
NIIKA CORP
Nordmeccanica NA
OLBRICH GmbH
Pyradia Inc.

Coating Stations: Open Systems - Dip

CESCO American, LLC
Faustel Inc
New Era Converting Machinery
NIIKA CORP
OLBRICH GmbH

Coating Stations: Open Systems -

Flexographic
Absolute Converting Solutions
CESCO American, LLC
Davis-Standard, LLC
Elite Cameron, Inc.
Emerson and Renwick Ltd
ETI Converting Equipment
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIIKA CORP
OLBRICH GmbH
Printco Industries LLC

Coating Stations: Open Systems - Gravure

Catbridge Machinery
CESCO American, LLC
Davis-Standard, LLC
Emerson and Renwick Ltd
ETI Converting Equipment
Faustel Inc
Filmquest Group
Frontier - a Delta ModTech Company
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
MIRWEC Coating



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CO-LOCATION WITH AIMCAL's R2R CONFERENCE ICEC USA will be co-located with AIMCAL's Roll 2 Roll Conference (R2R) in October at the Orange County Center in Orlando, Florida. The R2R Conference has been a champion of roll-to-roll processing, and the converting industry for many years and has steadily grown by delivering solid technical programming and valuable networking opportunities to attendees.

RETURNING TO ORLANDO Now under new management by leading global events organizer Reed Exhibitions, ICEC USA will return to the OCCC in 2021! The OCCC is leading the way to provide safe events and you can view their health & safety guidelines and the ICEC USA guidelines at our website: www.convertingshow.com

NEW FALL DATE PATTERN In a strategic decision that creates greater timing between June's Munich event, ICEC USA's move to Fall will allow manufacturers, suppliers and buyers an opportunity to attend both events and stay more aware of innovation and best practices throughout the year.

VIP BUYER PROGRAM ICEC USA will introduce a hosted buyer program that will identify key decision makers with open projects who are actively looking to purchase new products and services at the show.

Don't miss your opportunity to establish successful new business relationships, view the newest and most innovative products and services, and learn from top industry professionals within this dynamic market.

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NIKA CORP
Nordmeccanica NA
 OLBRIKH GmbH
 Printco Industries LLC

Coating Stations: Open Systems - Mayer Rod

Catbridge Machinery
 CESCO American, LLC
Chase Machine & Engineering
 Davis-Standard, LLC
 Emerson and Renwick Ltd
 ETI Converting Equipment

Faustel Inc
 Frontier - a Delta ModTech Company
 New Era Converting Machinery
 NIKA CORP

Nordmeccanica NA
 OLBRIKH GmbH
 Printco Industries LLC
 R. D. Specialties

Coating Stations: Open Systems - Screen

Emerson and Renwick Ltd
 Frontier - a Delta ModTech Company
 New Era Converting Machinery
 NIKA CORP
 OLBRIKH GmbH

Coating Stations: Premetered - Slot Dies

Catbridge Machinery
Chase Machine & Engineering
 Davis-Standard, LLC
Elite Cameron, Inc.
 ETI Converting Equipment

FAUSTEL

Faustel Inc
 Frontier - a Delta ModTech Company
 MIRWEC Coating
 New Era Converting Machinery
 NIKA CORP
Nordmeccanica NA
 OLBRIKH GmbH

Coating Stations: Premetered - Spray

Catbridge Machinery
 CESCO American, LLC
 NIKA CORP

Coextrusion Dies: Film

Davis-Standard, LLC
 Mirror Polishing & Plating Co Inc.
 NIKA CORP
 Windmoeller & Hoelscher Corp

Coextrusion Systems

Davis-Standard, LLC
 Mirror Polishing & Plating Co Inc.
 NIKA CORP
 Windmoeller & Hoelscher Corp

Collators

NIKA CORP
 SCHOBER USA INC

Controls (including Color & Color Register)

Baldwin Vision Systems
 BST North America
 NIKA CORP

Controls (including Curl & Moisture)

CESCO American, LLC
 Davis-Standard, LLC
 NDC Technologies
 NIKA CORP
 OLBRIKH GmbH

Controls (including Nuclear Instrument & Thickness/Gauging)



Applied Rigaku Technologies, Inc.
 Davis-Standard, LLC

NDC Technologies
 NIKA CORP
 Sensory Analytics (SpecMetrix Systems)

Controls (including Speed, Temperature & Timing)

Davis-Standard, LLC
 Industrial Indexing Systems, Inc.
Maxcess Intl
 NDC Technologies
 NIKA CORP

Controls: Cutoff

BST North America
 Industrial Indexing Systems, Inc.
 NIKA CORP

Controls: Drives & Motors

Davis-Standard, LLC
 Industrial Indexing Systems, Inc.
 NIKA CORP
 OLBRIKH GmbH

Controls: Electric & Photoelectronic

NIKA CORP

Controls: All Air

Meech International
 NIKA CORP

Controls: Insects

NIKA CORP

Controls: Position Sensor

Industrial Indexing Systems, Inc.
Maxcess Intl
 NDC Technologies
 NIKA CORP



Roll-2-Roll Technologies LLC

Controls: Tension

CTC - A Quantum Design Product Line
 Davis-Standard, LLC
 Double E
 Dover Flexo Electronics
Industrial Indexing Systems, Inc.
Maxcess Intl
 Montalvo
 NDC Technologies
 NIKA CORP

Controls: Web (Machine Direction & Transverse)

BST North America
 Davis-Standard, LLC
 Industrial Indexing Systems, Inc.
Maxcess Intl
 NIKA CORP
 OLBRIKH GmbH

Controls: Web Guiding

BST North America
 Davis-Standard, LLC
 Double E
 Industrial Indexing Systems, Inc.
Maxcess Intl
 Montalvo
 NIKA CORP
Roll-2-Roll Technologies LLC

Conveyor Systems

AZCO Corp.
 IPCO USLLC
 NIKA CORP

Core Loading Machinery (Automatic)

Catbridge Machinery
 Davis-Standard, LLC
Deacro Industries Ltd
Elite Cameron, Inc.

Global Equipment Intl. LLC
 Jennerjahn Machine
 NIKA CORP
 OLBRIKH GmbH
 Polymershapes

Core Machinery

Double E
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Mechanical Specialties, Inc.
 NIKA CORP
 Parkinson Technologies
 Polymershapes
 Voorwood

Core Plugs

Double E
 NIKA CORP

Core Shafts & Straighteners

Double E
Elite Cameron, Inc.
 Goldenrod Corp
Maxcess Intl
 Mechanical Specialties, Inc.
 NIKA CORP

Core Stripper

NIKA CORP

Cores: Paper or Plastic

Elite Cameron, Inc.
 NIKA CORP
 Northcore Industries, Inc
 Pro Tapes & Specialties, Inc.

Corrugator, Major Components (including Double Facers, Preheaters, Single Facers & Steam Systems)

Global Equipment Intl. LLC
 NIKA CORP

Corrugators

Global Equipment Intl. LLC
 NIKA CORP

Counters

NIKA CORP
 Novation Inc.

Cup Machines (including Lid & Handle-Applying Machines)

NIKA CORP

Curing Equipment & Accessories: Electron Beam

NIKA CORP

Curing Equipment & Accessories: Infrared

ASI, Division of Thermal Technologies, Inc.
 NIKA CORP

Curing Equipment & Accessories: Ultraviolet (including Lamps)

NIKA CORP

Cutters: Card (Rotary)

AZCO Corp.
 NIKA CORP
Rollm International
 SCHOBER USA INC

Cutters: Guillotine

AZCO Corp.
 Davis-Standard, LLC
 NIKA CORP
 Polymershapes
 Randolph Tool Co., Inc.

Cutters: Label

AZCO Corp.
Delta ModTech
 NIKA CORP

Novanta
 Randolph Tool Co., Inc.
 SCHOBBER USA INC

Cutters: Laser
 NIIKA CORP



Novanta
 SCHOBBER USA INC

Cutters: Platen
Delta ModTech
 Mechanical Specialties, Inc.
 NIIKA CORP
 AZCO Corp.
 Blower Application Company, Inc.

Cutters: Rotary
Delta ModTech
 NIIKA CORP
 Randolph Tool Co., Inc.
Rollem International
 SCHOBBER USA INC
 Supply55, Inc / NEPATA Converting
 Equipment

Cutters: Rule
 NIIKA CORP

Cutters: Tube & Core
 ASHE Converting Equipment
 AZCO Corp.
 Double E
Elite Cameron, Inc.
 Mechanical Specialties, Inc.

NIIKA CORP
 Northcore Industries, Inc
 Randolph Tool Co., Inc.
TGW International

Cutting & Creasing Jackets
 AZCO Corp.
 NIIKA CORP

Cylinder Machinery: Gravure
 NIIKA CORP

Cylinder Processing Equipment
 NIIKA CORP

Cylinders: Flexographic
 Absolute Converting Solutions
 NIIKA CORP
 Printco Industries LLC
 Rol-Tec

Cylinders: Hydraulic
 NIIKA CORP

Cylinders: Laser-Engraved
 NIIKA CORP
 Rol-Tec

Cylinders: Lithographic
 NIIKA CORP

Cylinders: Magnetic (Printing)
 NIIKA CORP

Cylinders: Reconditioning
 NIIKA CORP
 Rol-Tec

Cylinders: Rotary Screen
 NIIKA CORP

Cylinders: Rotogravure
 NIIKA CORP
**Die-Cutting Equipment: Jackets/Blankets/
 Covers**
 NIIKA CORP

Die-Cutting Equipment: Platen/Flat Bed
 CESCO American, LLC



Delta ModTech
 KURZ Transfer Products, LP
 NIIKA CORP
Totani Corp/Totani America

Die-Cutting Equipment: Rotary
 CESCO American, LLC
 CMD Corporation
CTC - A Quantum Design Product Line
Delta ModTech
Elite Cameron, Inc.
 ETI Converting Equipment
 Global Equipment Intl. LLC



Maxcess Intl
 NIIKA CORP
Rollem International
 SCHOBBER USA INC

Die-Making Equipment & Supplies
 KURZ Transfer Products, LP



Custom Converting Equipment

EQUIPMENT

- Unwind / Rewinds
- Accumulators
- Slitters (Ultrasonic, Laser or Mechanical)
- Laminators (Ultrasonic, Thermal and Adhesive)
- Traverse / Spiral Winders
- Festooners

MARKETS

- Filtration
- Medical
- Textile
- Packaging
- Hygiene
- Automotive
- Extrusion
- GeoTextile / Industrial Fabrics

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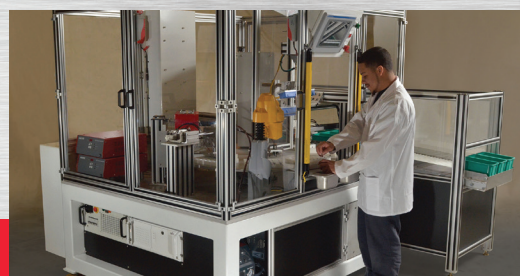
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Ultrasonic Laminators



Unwinds / Rewinds



Custom Assembly Equipment

NIKA CORP
Pro Tapes & Specialties, Inc.

Dies: Cutting & Embossing

Davis-Standard, LLC
Global Equipment Intl. LLC
NIKA CORP
Pro Tapes & Specialties, Inc.
SCHOBERS USA INC

Doctor Blades & Enclosures

Absolute Converting Solutions
Allison Systems Corp
Davis-Standard, LLC
NIKA CORP
OLBRICH GmbH
Printco Industries LLC

Drawing Equipment: for Bags & Pouches

NIKA CORP
Pearl Technologies Inc.

Drilling Machinery: Paper

NIKA CORP
Novanta
Rollem International

Drying Equipment: Convection

ASI, Division of Thermal Technologies, Inc.
NIKA CORP
OLBRICH GmbH
Pyradia Inc.

Drying Equipment: Radio Frequency

NIKA CORP

Drying Equipment: Tunnels & Ovens

ASI, Division of Thermal Technologies, Inc.
CESCO American, LLC
ETI Converting Equipment
Frontier - a Delta ModTech Company
NIKA CORP
OLBRICH GmbH
Printco Industries LLC
Pyradia Inc.

Dust-Removal Equipment

Meech International
NIKA CORP
Simco-Ion
Static Clean International

Embossing Machinery (including Holograms)

CMD Corporation
Davis-Standard, LLC
Delta ModTech
LAEM IMS - a brand of IMS TECHNOLOGIES
New Era Converting Machinery
NIKA CORP
OLBRICH GmbH
Precision Roll Solutions
Rollem International
SCHOBERS USA INC

End Plates

NIKA CORP
SPS Ideal Solutions, Inc.

Envelope Machines

NIKA CORP
Totani Corp/Totani America

Extruder Dies & Auxiliary Equipment

Davis-Standard, LLC
Global Equipment Intl. LLC
NIKA CORP
Windmoeller & Hoelscher Corp

Extruder/Laminators

Davis-Standard, LLC
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIKA CORP
Nordmeccanica NA

Windmoeller & Hoelscher Corp

Extruding Machines: Blown Film

Davis-Standard, LLC
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIKA CORP
Windmoeller & Hoelscher Corp

Extruding Machines: Cast Film

Chase Machine & Engineering
Davis-Standard, LLC
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIKA CORP
Windmoeller & Hoelscher Corp

Extruding Machines: Thermoforming

Davis-Standard, LLC

Extrusion Coaters

Davis-Standard, LLC
Elite Cameron, Inc.
Global Equipment Intl. LLC
Mirror Polishing & Plating Co Inc.
NIKA CORP

Extrusion Coating: Extruders

Davis-Standard, LLC
Mirror Polishing & Plating Co Inc.
NIKA CORP

Extrusion Coating: Slot Dies

Davis-Standard, LLC
Elite Cameron, Inc.
NIKA CORP
Davis-Standard, LLC
ELBA SPA
Elite Cameron, Inc.
NIKA CORP
Windmoeller & Hoelscher Corp

Extrusion Dies

Davis-Standard, LLC
ELBA SPA
Elite Cameron, Inc.
NIKA CORP
Windmoeller & Hoelscher Corp

Fanfolding Equipment

AZCO Corp.
Chase Machine & Engineering
CMD Corporation
NIKA CORP
SCHOBERS USA INC

Feeders & Components (including Lead Edge Feeders)

AZCO Corp.
NIKA CORP
Rollem International

Festooning Machines

Chase Machine & Engineering
Delta ModTech
MTorres Diseños Industriales
NIKA CORP

Film Cutting & Folding Machines

AZCO Corp.
Elite Cameron, Inc.
LAEM IMS - a brand of IMS TECHNOLOGIES
NIKA CORP
Novanta
Polymershapes
SCHOBERS USA INC
Totani Corp/Totani America

Film Orienters

Davis-Standard, LLC
NIKA CORP
Windmoeller & Hoelscher Corp

Film Reclaim Systems

Jemmco, LLC
NIKA CORP

Film Stretchers

Davis-Standard, LLC
NIKA CORP
Windmoeller & Hoelscher Corp

Filters: Ink

NIKA CORP

Finishing Equipment

Davis-Standard, LLC
Delta ModTech
Elite Cameron, Inc.
NIKA CORP
OLBRICH GmbH
Roll-2-Roll Technologies LLC



Rollem International
SCHOBERS USA INC
Simco-Ion
Static Clean International

Flexo Folder/Gluers

NIKA CORP

Flocking Equipment

NIKA CORP

Foil Machinery

Elite Cameron, Inc.
KURZ Transfer Products, LP
NIKA CORP

Folder/Gluers: Corrugated

Elite Cameron, Inc.
KURZ Transfer Products, LP
NIKA CORP

Folder/Gluers: Folding Carton

Elite Cameron, Inc.
KURZ Transfer Products, LP
NIKA CORP
Rollem International

Folding Machinery

CMD Corporation
NIKA CORP
Rollem International



Totani Corp/Totani America

Food-Tray Machinery

NIKA CORP
Novanta

Fountains (including Coatings, Hot Melt, Adhesives & Ink)

NIKA CORP

Gauges

NDC Technologies
Roll-2-Roll Technologies LLC
Sensory Analytics (SpecMetrix Systems)

Gears: Helical & Spur

Absolute Converting Solutions

Gluers

CESCO American, LLC
NIKA CORP

Grinders

AZCO Corp.

Gussetting Machines

CMD Corporation

ELBA SPA
Modern Manufacturing Services, LLC

Handle & Attachment Applicators (including Bags, Corrugated Boxes & Folding Cartons)

CMD Corporation
ELBA SPA

Heat Transfer Fluids
NIIKA CORP

Heaters: Printing Press
OLBRICH GmbH

Humidifiers
CESCO American, LLC
OLBRICH GmbH

Impregnating Machines
CESCO American, LLC
OLBRICH GmbH

Imprinting Machines (Coders, Markers, etc., for Bags, Cartons, Labels, etc.)
Novanta

Inspection Equipment: 100% Inspection

Baldwin Vision Systems
BST North America
Elite Cameron, Inc.
Maxcess Intl
NDC Technologies
Novation Inc
TECO Manufacturing LLC
Unilux

Inspection Equipment: Bar Code

Baldwin Vision Systems
BST North America
Novation Inc

TECO Manufacturing LLC

Inspection Equipment: Laser

BST North America
Maxcess Intl
NDC Technologies
Novanta

Inspection Equipment: Optical/Video

Baldwin Vision Systems
BST North America
Elite Cameron, Inc.
Maxcess Intl
NDC Technologies
Nordmeccanica NA
Novation Inc
Roll-2-Roll Technologies LLC
Sensory Analytics (SpecMetrix Systems)
TECO Manufacturing LLC



Unilux

Inspection Equipment: Photoelectric

BST North America
Roll-2-Roll Technologies LLC
TECO Manufacturing LLC

Inspection Equipment: Rewinding Machines

ASHE Converting Equipment
BST North America
Chase Machine & Engineering
Deacro Industries Ltd
Elite Cameron, Inc.
LAEM IMS - a brand of IMS TECHNOLOGIES
New Era Converting Machinery

Nordmeccanica NA
OLBRICH GmbH
TECO Manufacturing LLC

Inspection Equipment: Strobe Light

BST North America
TECO Manufacturing LLC
Unilux

Knives: Air
AZCO Corp.
Maxcess Intl
NIIKA CORP
Simco-Ion
Static Clean International

Knives: Bag Machinery

AZCO Corp.
CMD Corporation
ELBA SPA
Modern Manufacturing Services, LLC
NIIKA CORP

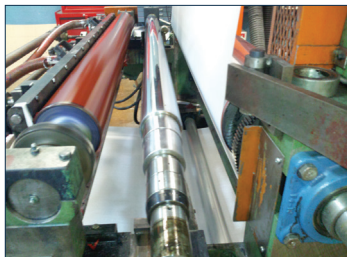
Knives: Cutoff

AZCO Corp.
Elite Cameron, Inc.
New Era Converting Machinery
Randolph Tool Co., Inc.
SCHOBER USA INC

Knives: Cutter

AZCO Corp.
Blower Application Company, Inc.
Elite Cameron, Inc.
Mechanical Specialties, Inc.
Randolph Tool Co., Inc.
TGW International

Absolute Converting Solutions LLC



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- Fast Delivery



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Knives: Holders

Double E
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Jemmco, LLC
Maxcess Intl
 NIIKA CORP
 Randolph Tool Co., Inc.
 SCHOBBER USA INC

Knives: Perforating

AZCO Corp.
 Cadence, Inc.
Elite Cameron, Inc.
 Jemmco, LLC
 NIIKA CORP
 Pro Tapes & Specialties, Inc.
 Randolph Tool Co., Inc.
 SCHOBBER USA INC



TGW International

Knives: Positioning Systems

Catbridge Machinery
Elite Cameron, Inc.
 Jemmco, LLC
Maxcess Intl
 NIIKA CORP

Knives: Scoring

AZCO Corp.
 Cadence, Inc.
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Jemmco, LLC
Maxcess Intl
 NIIKA CORP
 Pro Tapes & Specialties, Inc.
 SCHOBBER USA INC

Knives: Sheeter

AZCO Corp.
 Global Equipment Intl. LLC
 Pro Tapes & Specialties, Inc.
TGW International

Knives: Slitter

AZCO Corp.



Cadence, Inc.

Double E
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Jemmco, LLC
Maxcess Intl
 NIIKA CORP
 Pro Tapes & Specialties, Inc.
 Randolph Tool Co., Inc.
 SCHOBBER USA INC
 TECO Manufacturing LLC

Knives: Splitting

NIIKA CORP
 Pro Tapes & Specialties, Inc.
 Randolph Tool Co., Inc.

Laminating Machines: 100% Solids

Advanced Greig Laminator Inc. (AGL)
Catbridge Machinery
 Comexi North America Inc
 Davis-Standard, LLC
Delta ModTech
Elite Cameron, Inc.
 ETI Converting Equipment
Faustel Inc
 New Era Converting Machinery
 NIIKA CORP
Nordmeccanica NA
 OLBRIICH GmbH

Polymershapes
 Windmoeller & Hoelscher Corp

Laminating Machines: Solvent



Advanced Greig Laminator Inc. (AGL)
Catbridge Machinery
 Comexi North America Inc
 Davis-Standard, LLC
 Emerson and Renwick Ltd
 ETI Converting Equipment
Faustel Inc
 Global Equipment Intl. LLC
 New Era Converting Machinery
 NIIKA CORP
Nordmeccanica NA
 OLBRIICH GmbH
 Pyradia Inc.

Laminating Machines: Waterborne

Advanced Greig Laminator Inc. (AGL)
Catbridge Machinery
 CESCO American, LLC
 Comexi North America Inc
 Davis-Standard, LLC
Elite Cameron, Inc.
 Emerson and Renwick Ltd
 ETI Converting Equipment
Faustel Inc
 Global Equipment Intl. LLC
 New Era Converting Machinery
 NIIKA CORP
Nordmeccanica NA
 OLBRIICH GmbH
 Pyradia Inc.
 Windmoeller & Hoelscher Corp

Levers: Slitter

LAEM IMS - a brand of IMS TECHNOLOGIES
 NIIKA CORP
 Polymershapes
 Supply55, Inc / NEPATA Converting
 Equipment

Machinery: Alignment

CMD Corporation
Maxcess Intl
 NIIKA CORP
Roll-2-Roll Technologies LLC

Machinery: Bought & Sold

CESCO American, LLC
 NIIKA CORP

Machinery: Conversions

Absolute Converting Solutions
 CESCO American, LLC
Chase Machine & Engineering
 Davis-Standard, LLC
 NIIKA CORP
Novanta

Machinery: Custom



Alphasonics USA Inc.
 ASI, Division of Thermal Technologies, Inc.
 AZCO Corp.
 CESCO American, LLC
Chase Machine & Engineering
 CMD Corporation
 Davis-Standard, LLC
Delta ModTech
 ELBA SPA
 Emerson and Renwick Ltd
Faustel Inc
 IPCO USLLC
 Jennerjahn Machine
 MTorres Diseños Industriales
 NIIKA CORP
Novanta

OLBRIICH GmbH
 Pyradia Inc.
 QC Electronics Inc.
 Randolph Tool Co., Inc.
 SCHOBBER USA INC

Machinery: Installation

CMD Corporation
 Davis-Standard, LLC
 ELBA SPA

Machinery: Moving

Davis-Standard, LLC
 IPCO USLLC
 NIIKA CORP

Machinery: Rebuilt

Absolute Converting Solutions
 CESCO American, LLC
Chase Machine & Engineering
 Davis-Standard, LLC
 Jennerjahn Machine
 NIIKA CORP

Machinery: Rigging

NIIKA CORP

Machinery: Vibration Analysis

NIIKA CORP

Machinery: Vibration Equipment

NIIKA CORP

Mandrels

Goldenrod Corp
 Mechanical Specialties, Inc.
 NIIKA CORP
 Printco Industries LLC
 TECO Manufacturing LLC

Materials-Handling Equipment: Forklifts & Accessories

Global Equipment Intl. LLC
 NIIKA CORP

Materials-Handling Equipment: Joggers, Aerators

Global Equipment Intl. LLC
 NIIKA CORP

Materials-Handling Equipment: Load Turners

Global Equipment Intl. LLC
 NIIKA CORP
Nordmeccanica NA

Materials-Handling Equipment: Manipulators

Deacro Industries Ltd
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 NIIKA CORP

Materials-Handling Equipment: Palletizing

Deacro Industries Ltd
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 LAEM IMS - a brand of IMS TECHNOLOGIES
 NIIKA CORP

Materials-Handling Equipment: Pallets

Elite Cameron, Inc.
 NIIKA CORP

Materials-Handling Equipment: Prefeeding

Double E
 NIIKA CORP

Materials-Handling Equipment: Shaft Pullers

Elite Cameron, Inc.
 Goldenrod Corp
 New Era Converting Machinery
 NIIKA CORP
Nordmeccanica NA

Materials-Handling Equipment: Stacking

CMD Corporation
Elite Cameron, Inc.
NIIKA CORP
OLBRICH GmbH
Simco-Ion
Static Clean International

Materials-Handling Equipment: Transfer Cars

Elite Cameron, Inc.
New Era Converting Machinery
NIIKA CORP
Nordmeccanica NA

Metallizing Machinery

Emerson and Renwick Ltd
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Metering/Coating Equipment

Buschman
ETI Converting Equipment
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Micrometers

Jemmco, LLC
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Moisturizing and DeCurling Equipment

CESCO American, LLC
NIIKA CORP

Moisturizing Machinery: Water based

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Mounting & Proofing Machines: for Printing Plates

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Global Equipment Intl. LLC
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Pelletizers: Plastic

Davis-Standard, LLC
Jemmco, LLC
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Perforators

Elite Cameron, Inc.
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Novanta



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SCHOBER USA INC

Placemat Machines

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Plate-Forming Equipment

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Pollution Prevention: Flammable Vapors

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Pollution Prevention: Recycling

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Pouch Machinery

AZCO Corp.
CMD Corporation
Delta ModTech



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Mamata Enterprises, Inc.
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Totani Corp/Totani America

Prepress Equipment: Electronic

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Printing Equipment (including Noncontact, Dampening, etc.)

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Printing Presses: Cone & Cup
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Printing Presses: Digital
 Delta ModTech
 IPCO USLLC
 KURZ Transfer Products, LP
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Printing Presses: Envelope
 NIIKA CORP

Printing Presses: Flexographic
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 Comexi North America Inc
 Delta ModTech
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 Faustel Inc
 Global Equipment Intl. LLC
 Jennerjahn Machine
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 Printco Industries LLC
 Pro Tapes & Specialties, Inc.
 Windmoeller & Hoelscher Corp

Printing Presses: Gummed Tape
 NIIKA CORP

Printing Presses: Inkjet
 Delta ModTech
 KURZ Transfer Products, LP
 NIIKA CORP

Printing Presses: Label
 Delta ModTech
 ETI Converting Equipment
 NIIKA CORP

Printing Presses: Letterpress
 NIIKA CORP

Printing Presses: Offset Lithography
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Printing Presses: Pad
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Printing Presses: Platen
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Printing Presses: Rotogravure
 ETI Converting Equipment
 NIIKA CORP
 OLBRICh GmbH
 Windmoeller & Hoelscher Corp

Printing Presses: Screen
 Delta ModTech
 NIIKA CORP
 OLBRICh GmbH

Printing Presses: Ticket & Tag
 Delta ModTech
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Printing Presses: Tinters
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Proof Presses
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 CESCO American, LLC
 Modern Manufacturing Services, LLC
 Pearl Technologies Inc.
 SCHOBBER USA INC

Registering Systems
 Absolute Converting Solutions
 BST North America
 Delta ModTech

Rewind Equipment
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 CESCO American, LLC
 Chase Machine & Engineering
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 Deacro Industries Ltd
 Delta ModTech
 Double E
 Elite Cameron, Inc.
 ETI Converting Equipment
 Global Equipment Intl. LLC
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Roll Changers
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 Simco-Ion
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Roll Cleaners
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 Davis-Standard, LLC
 Eaglewood Technologies, LLC

Global Equipment Intl. LLC
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 Simco-Ion
 Sonic Solutions
 Static Clean International

Roll Coaters
 ETI Converting Equipment
 NIIKA CORP
 Printco Industries LLC

Roll Converting Machines: Toilet & Towel
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 Elite Cameron, Inc.
 NIIKA CORP

Roll Feed Machinery
 AZCO Corp.
 Delta ModTech
 NIIKA CORP
 SCHOBBER USA INC

Roll Handling Systems
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 Comexi North America Inc
 Deacro Industries Ltd
 Double E
 Elite Cameron, Inc.
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 Jennerjahn Machine
 MTorres Diseños Industriales
 New Era Converting Machinery
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 Nordmeccanica NA
 SPS Ideal Solutions, Inc.

Roll Stands
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 CESCO American, LLC
 CMD Corporation
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 Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Jemmco, LLC
 Jennerjahn Machine
 KTI - A Quantum Design Product Line
 Modern Manufacturing Services, LLC
 MTorres Diseños Industriales
 NIIKA CORP
 Powell Engineering Inc
 Printco Industries LLC
 SPS Ideal Solutions, Inc.
 TECO Manufacturing LLC

Roll Wrapping Machinery: Automatic
 Elite Cameron, Inc.
 Global Equipment Intl. LLC
 Jennerjahn Machine
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Roller Coverings
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 Diversified Enterprises
 Empire Rollers and Coatings
 Finzer Roller, Inc
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 Jemmco, LLC
 Rol-Tec

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 Mirror Polishing & Plating Co Inc.
 NIIKA CORP
 Precision Roll Solutions

Rollers: Printing
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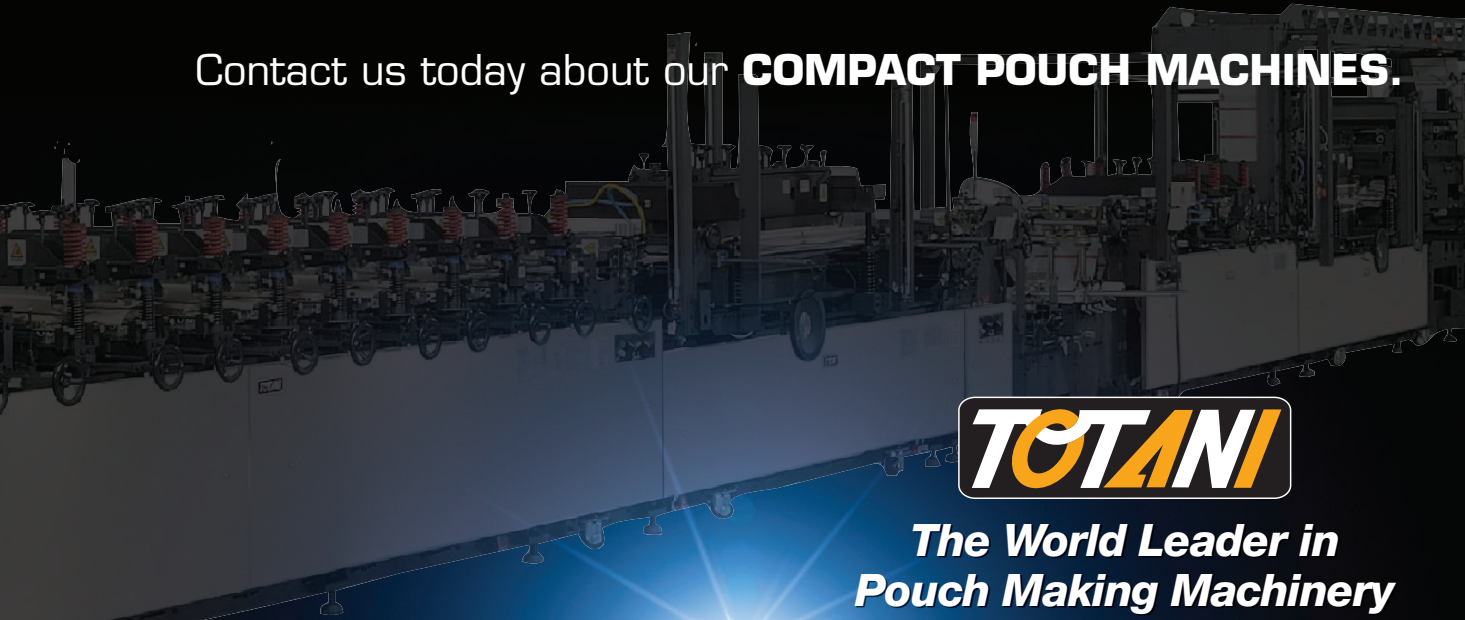
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Precision Roll Solutions
Printco Industries LLC

Rolls: Backing

INTEGRITY ROLLER SERVICES
Jemmco, LLC
NIIKA CORP
Precision Roll Solutions
Printco Industries LLC

Rolls: Cooling

American Roller Co.
CESCO American, LLC
Empire Rollers and Coatings
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New Era Converting Machinery
NIIKA CORP
Precision Roll Solutions

Rolls: Corona Treating

American Roller Co.
Corotec Corp
Empire Rollers and Coatings
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Jemmco, LLC
NIIKA CORP
Precision Roll Solutions
QC Electronics Inc.

Rolls: Embossing

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PRECISION ROLL SOLUTIONS


Precision Roll Solutions
SCHOBBER USA INC

Rolls: Engraved

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New Era Converting Machinery
NIIKA CORP
Precision Roll Solutions

Rolls: Expander

New Era Converting Machinery
NIIKA CORP
Precision Roll Solutions

Rolls: Heating

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CESCO American, LLC
Empire Rollers and Coatings
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NIIKA CORP
Precision Roll Solutions

Rolls: Idler

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NIIKA CORP
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Printco Industries LLC
Rol-Tec

Rolls: Perforating


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Precision Roll Solutions

SCHOBBER USA INC

Rolls: Spreader

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New Era Converting Machinery
NIIKA CORP
Precision Roll Solutions
Rol-Tec

Rolls: Tensioning

Dover Flexo Electronics
Finzer Roller, Inc
Modern Manufacturing Services, LLC
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Rolls: Vacuum

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Precision Roll Solutions

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Maxcess Intl
Novation Inc

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Baldwin Vision Systems

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Applied Rigaku Technologies, Inc.
Baldwin Vision Systems
BST North America
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Jemmco, LLC
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Mechanical Specialties, Inc.
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SPS Ideal Solutions, Inc.

Sheet Piling Machines

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Sheeters: Knife & Rotary Knife

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Voorwood

Shredders

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Jemmco, LLC

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Static Clean International

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Sleeves: Printing

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Precision Roll Solutions
Pro Tapes & Specialties, Inc.

Sleeves: Roll

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Goldenrod Corp
INTEGRITY ROLLER SERVICES
Jemmco, LLC
NIIKA CORP
Polymershapes
Precision Roll Solutions
Pro Tapes & Specialties, Inc.

Sleeves: Slitter

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NIIKA CORP
Polymershapes
Pro Tapes & Specialties, Inc.

Sleeves: Snap-on Design

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Slitter Positioning Systems

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Catbridge Machinery
Davis-Standard, LLC



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Parkinson Technologies
Voorwood

Slitter-Rewinders: Center Winders

ASHE Converting Equipment
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AZCO Corp.



Catbridge Machinery

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Chase Machine & Engineering
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Parkinson Technologies
SRC Systems, Ltd.
Supply55, Inc / NEPATA Converting
Equipment
Voorwood

Slitter-Rewinders: Combination

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Catbridge Machinery
CESCO American, LLC
Chase Machine & Engineering
Comexi North America Inc
Davis-Standard, LLC
Deacro Industries Ltd
Delta ModTech
Elite Cameron, Inc.
Global Equipment Intl. LLC
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Jennerjahn Machine
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Modern Manufacturing Services, LLC
NIIKA CORP
Nordmeccanica NA
Parkinson Technologies
Pro Tapes & Specialties, Inc.
SRC Systems, Ltd.
Supply55, Inc / NEPATA Converting
Equipment
Voorwood

Slitter-Rewinders: Surface Rewind

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AZCO Corp.
Catbridge Machinery
CESCO American, LLC
Chase Machine & Engineering
Comexi North America Inc
Davis-Standard, LLC
Deacro Industries Ltd
Elite Cameron, Inc.
Global Equipment Intl. LLC
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Jemmco, LLC
Jennerjahn Machine
LAEM IMS - a brand of IMS TECHNOLOGIES
NIIKA CORP
Nordmeccanica NA
Parkinson Technologies
Pro Tapes & Specialties, Inc.
SRC Systems, Ltd.
Supply55, Inc / NEPATA Converting
Equipment

Slitting Units
AZCO Corp.
Catbridge Machinery
Chase Machine & Engineering
Davis-Standard, LLC
Double E



Elite Cameron, Inc.
Global Equipment Intl. LLC
GOEBEL IMS – a brand of IMS
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Jemmco, LLC
LAEM IMS - a brand of IMS TECHNOLOGIES
Maxcess Intl
New Era Converting Machinery
Polymershapes
Printco Industries LLC
Rollem International
SCHOBER USA INC
SRC Systems, Ltd.
Supply55, Inc / NEPATA Converting
Equipment

**Slitting, Nonrewinding Machines: Single-Knife
Cutters**

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Elite Cameron, Inc.
Global Equipment Intl. LLC
NIIKA CORP
Nordmeccanica NA
Pro Tapes & Specialties, Inc.
Rollem International
Supply55, Inc / NEPATA Converting
Equipment

Slotting Machinery
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Spectrophotometers



Applied Rigaku Technologies, Inc.
Baldwin Vision Systems
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Trim Conveying & Collecting Equipment

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Trimmers: Guillotine

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Blower Application Company, Inc.

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Randolph Tool Co., Inc.

Tube Machinery

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Unions: Rotating

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Chase Machine & Engineering

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Nordmeccanica NA

OLBRICH GmbH

Powell Engineering Inc

Printco Industries LLC

Totani Corp/Totani America

Unwinding Machines: Combination

Surface Center

Associated Machine Design, Inc.

Associated Machine Design, Inc.

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Catbridge Machinery

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Chase Machine & Engineering

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Chase Machine & Engineering
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OLBRICH GmbH
Powell Engineering Inc
Totani Corp/Totani America

Unwinding Machines: Shafted

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AZCO Corp.
Catbridge Machinery
CESCO American, LLC



Chase Machine & Engineering
CMD Corporation
Davis-Standard, LLC

Deacro Industries Ltd
Delta ModTech
Double E
Elite Cameron, Inc.
Faustel Inc
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Jennerjahn Machine
KTI - A Quantum Design Product Line
Martin Automatic
Maxcess Intl
New Era Converting Machinery
NIIKA CORP
Nordmeccanica NA
OLBRICH GmbH
Powell Engineering Inc
Printco Industries LLC
TECO Manufacturing LLC
Totani Corp/Totani America

Unwinding Machines: Shaftless

Associated Machine Design, Inc.
AZCO Corp.
Catbridge Machinery
CESCO American, LLC
CMD Corporation
Davis-Standard, LLC



Deacro Industries Ltd
Elite Cameron, Inc.
Faustel Inc
Global Equipment Intl. LLC
GOEBEL IMS – a brand of IMS

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Jennerjahn Machine
KTI - A Quantum Design Product Line
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Martin Automatic
Maxcess Intl
MTorres Diseños Industriales
New Era Converting Machinery
NIIKA CORP
Nordmeccanica NA
OLBRICH GmbH
Powell Engineering Inc

Unwinding Machines: Surface

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Catbridge Machinery
CESCO American, LLC
Chase Machine & Engineering
CMD Corporation
Davis-Standard, LLC
Elite Cameron, Inc.
GOEBEL IMS – a brand of IMS
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New Era Converting Machinery
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Unwinding Machines: Turret

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Delta ModTech
 Double E
Elite Cameron, Inc.
 Global Equipment Intl. LLC
 GOEBEL IMS – a brand of IMS
 TECHNOLOGIES
 Jemmco, LLC



KTI - A Quantum Design Product Line
 Martin Automatic
 MTorres Diseños Industriales
 New Era Converting Machinery
 NIIKA CORP
Nordmeccanica NA
 OLBRICH GmbH
 Powell Engineering Inc
 Pyradia Inc.

UPC-Code Verifier
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 AZCO Corp.

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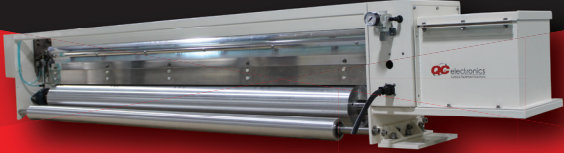
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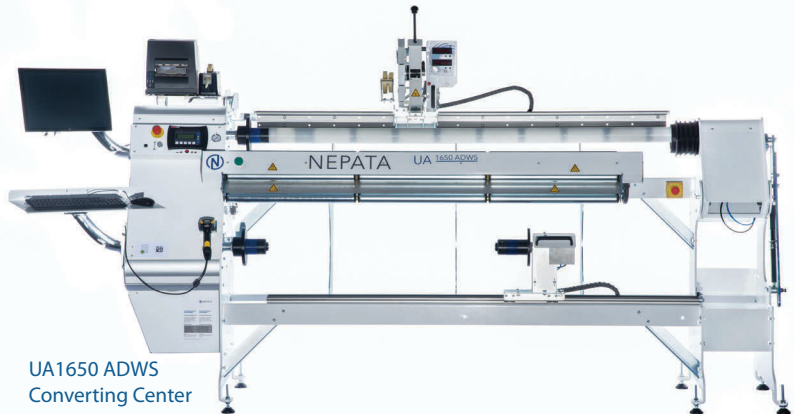
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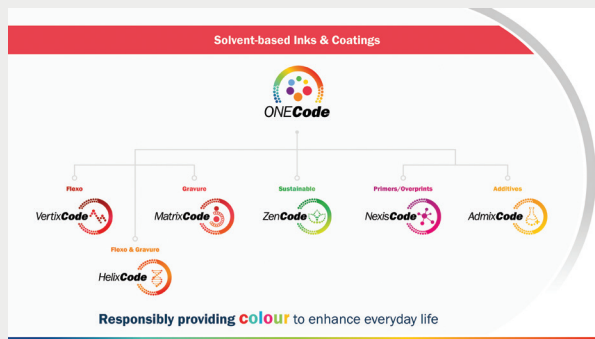
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ONECode - A new Range of Solvent-Based Inks and Coatings

Flint Group Packaging Inks has enhanced its solvent-based range of inks and coatings for European customers. The new ONECode range is designed to simplify the flexible packaging printing process, reducing process waste, and increasing ease in doing business.

The ONECode portfolio incorporates VertixCode for flexo printing, MatrixCode for gravure, HelixCode for dual purpose inks (flexo and gravure), and ZenCode, a recently launched range of sustainable solutions. Enhancing and complementing the portfolio are overprint varnishes and primers under the NexisCode brand name, and additives under the AdmixCode brand.

After a detailed review of its solvent-based portfolio and the raw materials used in manufacturing, Flint Group Packaging Inks combined its findings with customer insight to simplify and deliver a product offering that addresses printers' current and future



needs and their print aspirations. The ONECode brand encompasses a full range of innovation-driven printing inks, coatings, primers, and additives developed by a global group of technical specialists working together as one team.

For more information, visit www.flintgrp.com.

Koehler Paper Sets New Production Speed Record with Voith Paper Machine

Designed as one of the most efficient specialty paper machines in the world, Koehler Paper commissioned Voith's production line 8 at its Kehl mill at the end of October 2019 - after a previous project time of only around two and a half years.

Thanks to ongoing optimization, the company recently achieved a groundbreaking level of performance for the production of around 40 gsm base paper at a continuous speed of more than 1,400 meters per minute.

Due to intensive cooperation, permanent project support and continuous optimization from Koehler and Voith, the line reportedly achieved an average speed of 1,410 meters per minute over a period of 24 hours as well as a maximum value of 1,432 meters per minute - a world record for the MG paper machine.

Another outcome of the collaboration between Koehler and Voith is the development of cutting-edge products. As part of the development partnership for new paper grades, Voith carried out several test series on the R&D pilot coater at the Voith Paper Technology Center in Heidenheim. The technological requirements of the new paper grades were investigated in depth and then implemented in the new production line. This has resulted in the innovative



products of the NexFlex® product line, Koehler's flexible packaging paper.

With a volume of 300 million euros, the entire production line 8 is one of the largest investments in Koehler's history. As well as the XcellLine paper machine and an offline coating machine, the project includes a BlueLine stock preparation system including wet end process and a VariPlus winder. The facility is designed to produce around 100,000 tons per year of various paper grades.

For more information, visit www.koehlerpaper.com.

MacDermid Graphics Solutions Announces New Center for the Flexographic Industry

MacDermid Graphics Solutions announced its plans for a collaborative endeavor, The Flexo Xperience Center (The FXC).

The Flexo Xperience Center is a partnership between MacDermid and SOMA and is an expansion of the team's initial plans to install a SOMA Optima2 printing press at MacDermid's facility in Atlanta, GA, U.S., announced in December 2020. The FXC will include multiple industry-leading partners providing software, equipment, and consumables.

The Flexo Xperience Center was conceptualized in late 2020 by the leadership, marketing, R&D, and sales teams at MacDermid and SOMA while discussing plans to install the printing press and plate mounting equipment at MacDermid's facility.

The teams identified a need in the package printing industry for a wide-web flexo printing center with every aspect of the flexo process, including artwork, prepress, platemaking, print, print finishing, and print evaluation.

The mission of The Flexo Xperience Center is to move flexo forward. This global center will combine both hands-on and virtual visits for a "one-stop-shop" for the package printing industry's entire workflow to experience the latest flexographic printing innovations.

In addition, the FXC will foster and host industry training, collaboration, research, experimentation, and learning, all designed to ensure package printing excellence.

For more information, visit <https://graphics.macdermid.com>.

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Miraclon Continues to Expand the Boundaries of Flexo with PureFlexo Printing Launch

Miraclon, home of KODAK FLEXCEL Solutions, hosted its first Miraclon Innovates virtual event to introduce PureFlexo™ Printing, which enables KODAK FLEXCEL NX System users to produce high-quality flexo print within a wider operating window on press by controlling unwanted ink spread in ways never seen before.

Designed specifically for wide web solvent ink on film applications, PureFlexo Printing maximizes press efficiency, repeatability and overall performance while enabling printers and prepress providers to experience cleaner print, stable color and a better bottom line for their business.

Built on Miraclon's expertise in highly controlled ink transfer mechanisms and further unlocking the core capabilities of the FLEXCEL NX System,

PureFlexo Printing reportedly gives unprecedented control over unwanted ink spread, increasing print latitude at all quality levels.

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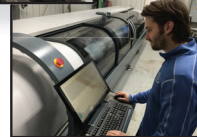
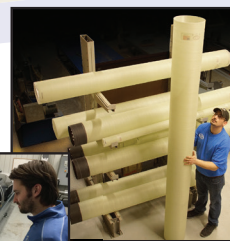
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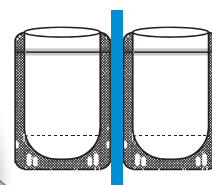
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Mondi and Unilever Serve Up Aluminium-Free Paper-Based Packaging for Colman's Meal Makers

Unilever, together with Mondi have developed a new high barrier paper-based packaging material for Unilever's Colman's dry Meal Maker and Sauces range by reducing plastic, increasing paper content, and consequently ensuring recyclability in the existing UK paper waste stream.

By replacing the previous unrecyclable multi-material laminate with recyclable paper packaging, Mondi supports Unilever in its sustainability targets. The aluminum, as well as all unnecessary plastic layers of the previous material, were eliminated. This resulted in a new packaging solution with paper content of 85 percent and an ultra-thin functional plastic layer that seals the packaging and provides barrier protection for the food.

Mondi and Unilever's R&D teams identified this layer as the minimum acceptable protection needed to ensure a long shelf life while maintaining high quality and reducing food waste.

Mondi and Unilever closely collaborated throughout the entire development process, including mastering the challenge of limited access to production facilities during the Covid-19 pandemic. Starting with a proof of concept, followed by extensive line trials at both Mondi and Unilever's R&D pilot plants provided the flexibility to quickly prototype and test the unique packaging material before scaling up.

For more information, visit www.mondigroup.com.

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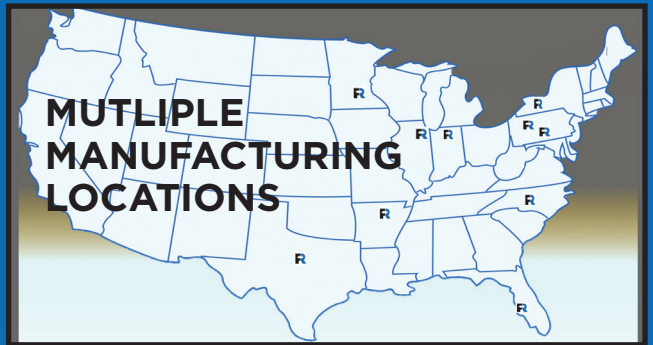
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