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PUBLICATION

AUGUST 2022

## Buyers' Guide 28

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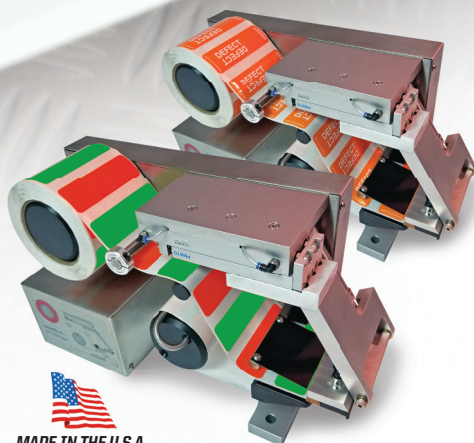
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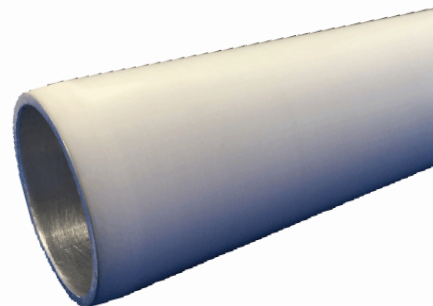
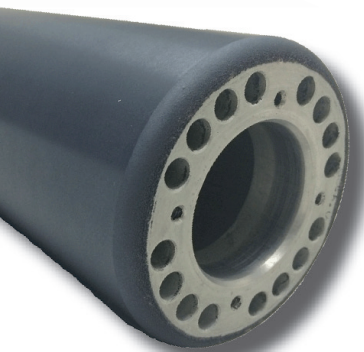
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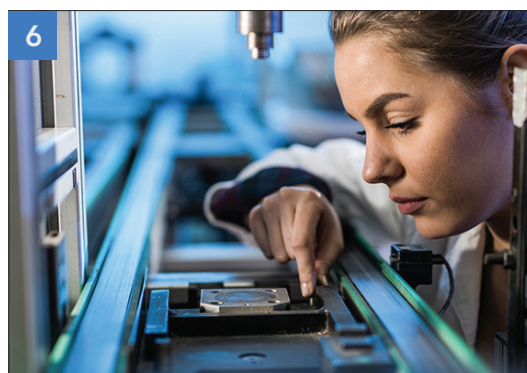
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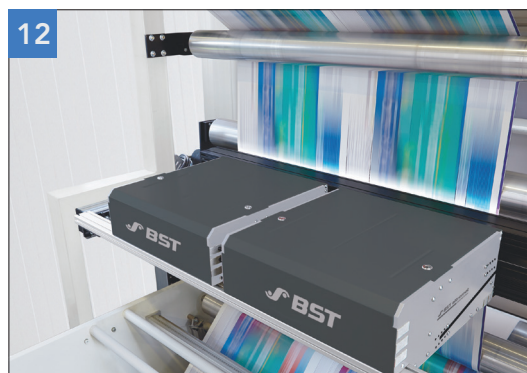


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## Acclimating to Automation



**Angel Morris**  
Editor

Even before the phrases “work from home” and “hybrid employment” became part of everyday vernacular, the world was growing increasingly aware of its changing workplace environment. Automation and artificial intelligence had already begun transforming business and production, with machines not only complementing work done by humans but, in some cases, replacing people altogether. What does this mean for society as a whole and for the converting industry specifically?

Undoubtedly, it means a shift in not just the way companies do business and in employers' mindset, but also in the relationship between employees and the machines that are their co-workers ... in some cases, maybe even their bosses. From this day forward, some people will lose their positions to machines and be forced to enter new occupations altogether, while others will have to adapt to the growing role machines play in their workplace. A few examples we've already been acclimated to include automated voice systems, self-checkout lines and digital banking replacing receptionists, cashiers and tellers.

From robots run by computers in stockrooms and warehouses to robot-assisted medical procedures, there are few, if any, professions immune to the changing landscape brought about by automation and AI. Research robots are shifting the fields of law, finance and journalism, while others tackle jobs of counting, sorting and service — like those in pharmacies, post offices and restaurants.

To employers, the use of robots and machines is enticing for a number of reasons, including lower overhead costs (salaries, benefits and the physical office space taken up by humans), to faster production with fewer errors. Research suggests that nearly all occupations will be impacted by automation, and, while we will still rely on people skills in the realms of communication, management and general expertise, those, too, will shift in relation to their machinal counterparts. Required skills, workflow and jobs themselves will change as technologies continue to develop and evolve.

So, how does one determine the right level of automation in converting projects? This month's cover story offers three keys to successfully making that decision. Automated static control with the installation of static dissipaters is addressed in this issue, and we take a look at quality control in the print manufacturing process — which utilizes a combination of automated and human interaction. Just as businesses and employees had to adapt during and post pandemic, both will need to continue to adjust by managing the pros and cons of evolving technology. Customers will look to experienced converters to guide them toward the best levels of automation for their production goals.

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**A RDG Media, Inc. Publication**  
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# The Right Level of Automation for Your Converting Project

By **Scott Chambers**, Business Development Manager for Strouse

Automation isn't the future. It's here today, and without using it wisely, most companies are at a competitive disadvantage. Yet, automation isn't an "all or nothing" decision. There are levels of automation, especially in converting, that make it easier to start working smarter and more efficiently.

This article explores various automation levels and uses examples to magnify the importance of automation within everyday converting projects.

## **The Customer, Not the Converter, Dictates the Automation Level**

Once upon a time, manual manufacturing was the only way to assemble a product. Today, manual labor is far from extinct, but things have moved significantly in that direction. In the end, manufacturing has always been, and will forever continue to be, about meeting customer requirements and maximizing profitability.

When it comes to automation and technology, customers nearly always want to use the latest tools to increase productivity, if budget allows. Production goals can drive converters' R&D efforts, which can include collaboration on what future equipment and engineering processes align with their goals. The way the goal can be completed most profitably is the winner.

The term "automation" can mean one thing to a manufacturer — maybe a single dispenser



machine — while to another, automation is 150 dispensers in a very complex line. In addition to defining what automation means, what level of automation is best for their needs is also debatable.

Applying product parts by hand, or manual manufacturing, can be partially combined with automated equipment to be more semi-automatic. This could involve people moving parts from one stage to another in an assembly line, for instance.

In fully automated (all robot) manufacturing, the only human interaction within production processes may be loading input rolls and removing finished product. The rest of the process, from performing all actions to moving parts from one space to another, is all done by machines. This complex line needs to be foolproof before beginning production; otherwise, the line will stop and render the technology useless.

It comes down to an important question: What are you looking for from automation? Do you need to make more products? Make them more accurately? Make them more efficiently (is reducing labor the goal)?

Your answers drive your design for automation, similar to “design for manufacturability.”

Once you know your goal, design around that goal. Does your product fit machines that are already in place, or are machines being purchased specifically to make the product? An experienced converter helps guide customers to proper determinations and the best processes.

### The 3 Keys to Determining Automation Level

Automation is often the answer to a production challenge, yet



In fully automated manufacturing, human interaction may be very limited.

that solution can be executed on numerous levels. Depending on the customer's needs, the three factors that drive an automation level include:

**1. Volume** — “How many do you need?” Scaling up to meet demand is no simple task. If a company has been manually assembling a product and needs to increase production significantly, confusion (and possibly fear) may be the initial reaction.

Automation could be the answer, yet how many units usually triggers the use of automation? 10,000? 1 million? Even that simple request can seem like a mystery, at least at first glance, because it really depends on the product. A task that a person can accomplish manually in three seconds should be looked at differently than a task that takes 30 minutes to complete. The level of gain may not justify the expense of automation in some instances.

A complete throughput/capacity/needs evaluation is required

to determine what volume triggers the use of automation, either semi or full. So, in theory, making 1,000 labor-intensive parts could be a great candidate for automation.

**2. Time** — “When do these need to be finished?” The speed at which a product needs to be delivered can change everything. If it's needed immediately, full automation is out the window because it usually takes at least six months to develop, build and get a fully automated line up and running. In contrast, you can get a semi-automated line up relatively quickly.

Here's an example. A company wants to bring a part to market by year's end. The product schedule needs to include designing a prototyped part (if it doesn't already exist) in order to develop the machine and have it ordered by a specific date to meet the launch.

Then you'll need to design machinery and make 200,000 parts within the last eight months of the year. You'll be hard-pressed to meet that deadline with a fully



Adhesive Component Assembly Automation

automated line. However, you could get a semi-automated line up relatively quickly and start producing parts.

**3. Cost** — “What’s your budget?” A company may need to scale up to be competitive, yet the amount of available labor either can’t get it done or can get it done, just too expensively. Automation is a likely solution, yet having a realistic budget is imperative.

As mentioned earlier, some manufacturers may already have the automation; a shiny, new machine. So, they want to engineer the part or product around its abilities instead of designing the part or product for automation, figuring out the best way to make it accurately and efficiently. Sometimes this can work, but other times, it may require a re-evaluation of the project.

## Accuracy. Repeatability. Culture.

Humans can’t do everything. We can do a lot but not always accurately enough for some projects. Robotics are more accurate than the hand can place it, and sensors ensure precision in ways no person can. Plus, machines do it correctly time after time.

A good example is microfluidic devices. Imagine a 20-layer lab-on-a-chip device. Volume may only be 10,000 per month (a number that’s a candidate for manual manufacturing), yet the pieces require incredible precision to be assembled correctly. Automation is the **ONLY** way to go for products like these when a large amount of assembly is necessary, and repeatability is vital.

Here’s another, much different, example. A part needs to adhere to a simple plastic piece. Sounds easy, right? Well, it needs to be extremely accurate — even the smallest deviation causes the part to fail — so it can’t be done by hand. This process is a good candidate for semi-automated; a human does the setup, and the machine ensures that accuracy and repeatability are high.

Now, some converters aren’t able to consistently produce products that meet specifications. That’s when culture enters the picture, something that may not be top-of-mind when you consider automation, but you should.

Expensive automation — a piece of high-end equipment — is useless when the line shuts down because of poor quality. A true dedication to performance (accu-

racy and repeatability) sets some converters apart, so no matter what industry and what level of automation is required, the right converter can handle it.

## Converter Guidance Makes it Happen

OK, now put all three keys to determining automation level — volume, time, cost — in a blender. Why? Because coordinating all of these, which is absolutely necessary, has to be done comprehensively, with the big picture in mind. This is why a converting partner dedicated to performance is so important.

One final example! A task, one of many in a long assembly line, requires a custom solution. A specific machine (a certain level of automation) may need to be built that performs that exact task. An experienced converter will work with an automation house to solve the problem. Then, it simply needs to be integrated into the assembly line.

To compete in manufacturing in the U.S., a company needs to apply some level of machinery automation. And as obvious as automation may be as an answer to a challenge, actually making it happen could seem like climbing a mountain. Leaning on the experience and expertise of the right converter can take you far. ■

## ABOUT THE AUTHOR

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# Static Dissipater Installation Affects Performance

*How do we install static dissipaters so that they work?  
How do we know if they work?*

By **Dr. Kelly Robinson**, Founder, Electrostatic Answers

Static can shock operators, cause materials to jam, damage our products and ignite a fire. Prevent these problems by installing static dissipaters. How do we know that a static dissipater works properly? How can we decide if one location is better than another for installing a dissipater?

Neutralization efficiency measures the performance of the dissipater in Figure 1. We can define the neutralization efficiency  $\eta$  as the percentage of static dissipated.

$$\eta = \frac{\Delta E}{E_{in}} = \frac{E_{in} - E_{out}}{E_{in}} = 1 - \frac{E_{out}}{E_{in}}$$

For example, if we measure  $E_{in}$  in Figure 1 to be 5kV/cm and  $E_{out}$  to be 1 kV/cm, the neutralization efficiency  $\eta$  is 80 percent.

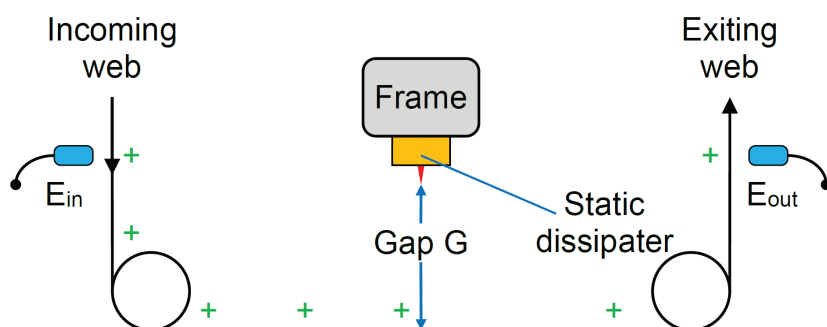


Figure 1: The dissipater neutralizes most of the static.

$$\eta = 1 - \frac{\left(1 \frac{kV}{cm}\right)}{\left(5 \frac{kV}{cm}\right)} = 80\%$$

We want the neutralization efficiency to be 100 percent so that

all of the static is dissipated. However, dissipaters are not perfect. The neutralization efficiency of tinsel, static brushes and other passive dissipaters should exceed 80 percent. Powered static bars should dissipate at least 95 percent of the static.

Table 2: 3-step static dissipation process

#	STEP	DESCRIPTION
1	Generate ions	Dissipater design
2	Move ions	Installation geometry
3	Deposit ions	Web speed

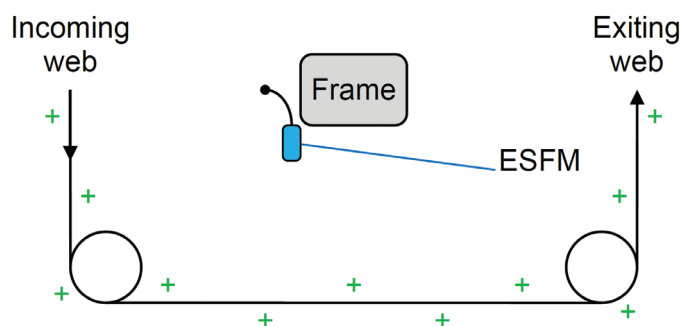


Figure 3: Replace the static dissipater with an electrostatic fieldmeter (ESFM).

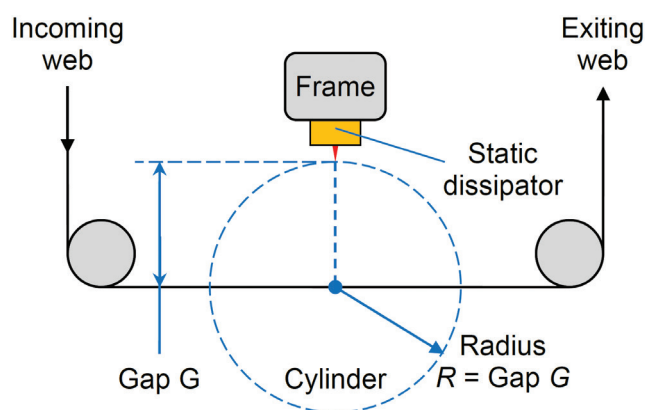


Figure 4: The cylinder must be empty.

To get the best performance, think about dissipating static as the 3-step process in Table 2.

Most static dissipaters generate plenty of ions. Tinsel, static brushes and other passive dissipaters with sharper points or smaller bristles generate more ions. Powered static bars with more pins and that operate at higher voltages generate more ions.

Moving the ions generated by the dissipater to the charged web is determined by the installation geometry. Install the dissipater so

that it “sees” the static. By this, I mean that the electric fields from the static on the web must reach the dissipater. Imagine that we replace the static dissipater in Figure 1 with the electrostatic fieldmeter (ESFM) in Figure 3. If the ESFM responds to the static on the web, then the static dissipater will also respond to the static. And, if the ESFM reads zero when there is charge on the web, then the static dissipater will be ineffective.

We can visually inspect the installation geometry to see if

the static dissipater will work. In your mind’s eye, draw a pencil line across the web in Figure 4 below the static dissipater. The line becomes the center of a cylinder that expands out until it touches the dissipater. So, the radius of the cylinder will be gap  $G$ . This cylinder must be empty for the static dissipater to function properly.

The ions generated by the static dissipater move pretty fast through the air. For example, for a small electric field of 2 kV/cm (5 kV/in), ion move at about 40 m/s. Still, it takes some time for the ions to move from the dissipater to the web. If the gap  $G$  is 3 inches, ion reach the web in about 2 ms (0.002 s).

For good neutralization efficiency, the web speed  $U_{web}$  should be slow enough for the web to be inside the cylinder 10 times longer than it takes for an

$$U_{web} \leq \frac{2G}{10T_{ion}} \approx \frac{2(3in)}{10(0.002s)} \left( \frac{1ft}{12in} \right) \left( \frac{60s}{min} \right) = 1,500 \frac{ft}{min}$$

ion to reach the web.

With a good installation, static dissipaters should work well at web speeds up to an estimated web speed of about 1,500 fpm.

Neutralization efficiency is a good metric for static dissipater performance. We can measure the neutralization efficiency of a dissipater using an ESFM to measure the static on the entering web and on the exiting web. When properly installed, the static dissipater is the closer to the web than everything else. And, when installed properly, static dissipaters should work well up to web speeds of about 1,500 fpm (~500 mpm).

For more information, contact Kelly.Robinson@ElectrostaticAnswers.com.





# Quality Control Starts with Prepress

*How QC and Prepress Connect to Prevent Press Errors*

By **Mike Agness**, HYBRID Software executive vice president, Americas

Clearly, quality control (QC) is important for the successful production of superior products. QC happens throughout the print manufacturing process — from design where the idea is created, to prepress where the design is executed, to the manufacturing

stages — from print to finishing. Part of a successful QC program is communication between all these people — and software and equipment — involved in the print process.

Inline press inspection systems let a printer examine a print

image, even while it's running through the press at considerable speeds. Referring to a still image of the artwork, they can monitor production, guaranteeing exceptional quality standards, starting with the first image.

Cameras look at several





Artwork without zones.



BST Zones.

critical areas of the package, such as registration, traps, process print, color, vignettes, reverse print and readability of barcodes — perhaps the most important component, as that is how everyone earns money.

In many cases an inline QC inspection system needs to inspect an entire print. However, often there are pieces that are, reasonably, not critical to the success of the printed product. So, it is imperative for the inspection system to focus on the areas of highest concern. The prepress department takes time to focus on these areas related to the product. Why wouldn't they also set up this focused inspection?

## It starts with prepress

A good prepress workflow can relay the vital components of a package design to the inspection system. Workflows anticipate, correct and report QC problems throughout the process before a job goes to press. Beyond all of the prep work, they conduct:

- Preflighting to find PDF



Preflighting finds PDF file issues, such as incorrect color spaces, missing fonts and low-resolution images.

file issues, such as incorrect color spaces, missing fonts and low-resolution images;

- Comparisons between the original artwork and the file sent to the RIP;
- Detecting and replacing barcodes, when needed;
- Assessing maximum ink coverage and minimum dot breakouts;
- Dot gain and press gamut simulations; and
- Misregistration previews to check trapping efficiency

Because the prepress department works on the graphics of a package before it is printed, they know what graphic pieces have been prepared and where, exactly, each component exists on the package.

That information can be sent along to the inspection system for print. Why rely on someone else to feed this important information to the inspection system, when the prepress operator knows with exact precision where the important components are?

## Getting in the zone

A good workflow, one that prepares art for print, can help to define the important areas — zones — to inspect areas as well as clarify variable data for the data stream that is printed on a digital press. Barcodes are here. Can you see them? Text is here. Can you read it? Color graphics are here. Is there good saturation?

This also applies to concerns like repeat lengths, n-up impositions and defining the inspection zones. Prepress can define different inspection requirements for each zone, making them more or less stringent as necessary. Certain zones can be inspected in more detail than others.

Preparing graphics for inspection is key to making sure there is consistency. A good RIP will process a raster image that allows the QC inspection system — the camera — to exactly compare between the PDF file and the printed result. One of the many requirements is to render an incoming PDF design file to match

the resolution of the final printed graphics.

The data is supplied as open communication formats, and best through API calls from other MIS and workflow systems, allowing

them to be set up without additional intervention by the press/inspection operator. Not only are set-up times significantly reduced; there are fewer problems arising from repeated entry of the same

data at different times.

Why is accuracy important? For example, there could be an instance where the inspection system says a job is failing on every print due to an observed hair-line. If the resolutions between the PDF comparison file and what is being printed on press are minutely different, it can cause a problem with rounded up or down pixels. While a line in a non-print masked area is not a problem, the inspection system reported it. When you look, you see it's no problem at all.

The same requirements that make workflows effective apply to QC systems. It's helpful for them to have an open architecture integrating all production and business systems. With open back-and-forth connections between the workflow and ERP system, many questions are answered — like, does the job pass or fail?

## A note about color

Color consistency is imperative, as it relates to brand recognition, particularly compared to other products on the shelf. QC systems can work cooperatively with prepress color management systems, coordinating spectrophotometer settings and color expectations.

Software can help prepare data for inline spectral color measurement. Color, density or tone values are usually entered manually, or imported as CxF files. The systems can immediately provide detailed color image information with an instant read-out of the printed piece from inside the press.

The QC system can be continuously given color data updates during the print job, help-

## Want More Production?



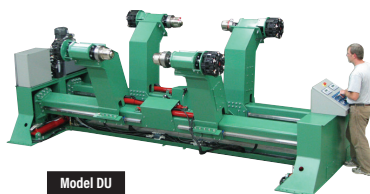
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ing press operators to stay within tolerances. It replaces evaluating print samples that would normally be performed from a light table.

### Inspecting variable data

Many graphic components involve dynamic variable data such as different barcodes or alphanumerical — serialized or randomized — sequences. Because dynamic printing is very often an important feature of packaging, it is important that QC systems can work with them, assessing both readability and content.

A good QC system can read the data and keep it in memory; for example, to assure a number does not replicate. That's imperative for

products like pharmaceuticals.

What if variable data is incorrect — unreadable, out of specification or perhaps even incorrectly duplicated? The job can be removed, reprinted and remanufactured. It's better than releasing the product into the field.

### Results

There are many benefits of a good, integrated QC system with pre-press data. They include a very targeted system that identifies what is truly important, perhaps even accelerating the press run. This can also result in reduced waste and, most important, superior packaging that makes the customer happy. ■

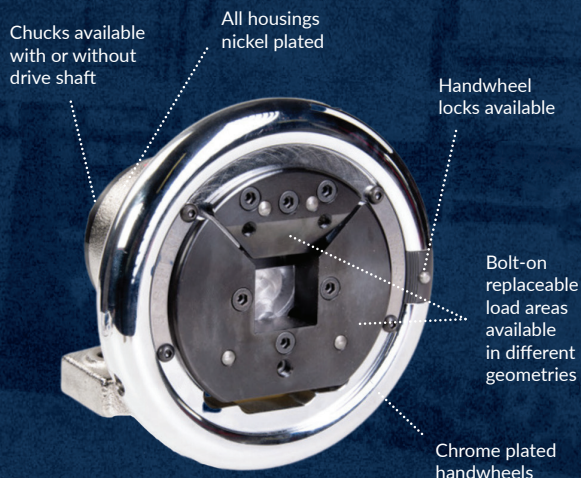
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# Rust to Tech: Part 4

By Susan Stansbury, Industry Consultant

This is Part Four of our series: Rust to Tech. This edition is another indication that converting and associated industries have made a leap from the old rust belt days into a world of technology and advancement.

Here I cite instances of converting markets with associated manufacturing technologies. One example of how to begin the overview is to look at one company supplying numerous markets and using tech developments to serve customers using a nucleus of strengths.

## A Rebel Converter

Labeling and product identification in packaging are essential to consumer interest and recognition. In the canister wipes segment, Rebel Converting's X-Treme canisters feature digital high-resolution printing which allows print of any design or graphic. Labels can be sequentially numbered, have different sets of numbers on them, or include unique images. The labels are in-molded — melted into the canister for durability.

With the approach taken by Rebel Converting to do digital printing, prototyping becomes easier. Artwork changes are quick with short lead times. Full digital technology allows Rebel to provide customers with sample canisters identical to those from a final production run. Canisters are prototyped for customers to test market new products, brands and designs.



Blister packs can be far more eco-friendly than bottle packaging.

## Sustainability & Environment

Some say plastics will never be biodegradable. Responding to market interest, Suominen, a U.S. and European supplier, has introduced a nonwoven substrate, Hydraspun Circula, which is biodegradable, plastic-free and can be used in multiple applications.

STEM is a new line of bug killer sprays and mosquito repellents that is powered by botanical extracts formulated in combinations to optimize effectiveness. The entomologist-tested and scientifically engineered one-stop pest control shop is designed to be effective in killing or repelling bugs, but safe to use around humans and pets. The plant-derived active ingredients like lemongrass, mint and rosemary oils help fight nature with nature. STEM insecticides and repellents have no added dye, fragrance or harsh chemical odor.

Producers are addressing traditional blister packs with paper, film, plastics and foils used to protect

medical and specialty contents. For example, Keystone's Ecoslide-RX compliance package includes updated re-closable safety features. The award-winning Ecoslide-RX is made from 100 percent recyclable paperboard and is easily separated from its internal blister for recycling. The blister is disposed of but contains only a fraction of disposable plastic when compared to bottles.

According to *Converting Quarterly* which features web processing and finishing technologies, there are three "top trends:"

- Flexible structures, including flex packs, emphasizing medical devices and pharmaceuticals;
- Sustainability with newer recyclable polymers as an alternative to biodegradables; and
- Printed electronics specifically with growth in the healthcare industry.

## Digital Manufacturing

Procter & Gamble and Microsoft Corp. have announced a new col-



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laboration to leverage the Microsoft Cloud impacting the future of digital manufacturing at P&G. The two companies will co-innovate to accelerate and expand P&G's digital manufacturing platform and leverage the Industrial Internet to bring

products to consumers faster and improve productivity to reduce costs.

"Together with Microsoft, P&G intends to make manufacturing smarter by enabling scalable predictive quality, predictive maintenance, controlled release, touchless

operations and manufacturing sustainability optimization — which has not been done at this scale in the manufacturing space to date," according to P&G.

Further on the equipment side, current production lines increasingly include automation with complete system integration to ensure that synchronized conveyors, modules and robots work perfectly with upstream and downstream equipment.

Following the pandemic, with supply chain materials and logistics issues, U.S. manufacturers are moving to make more parts and substrates domestically. In addition, according to Deloitte, "The manufacturing industry is building back fast, undeterred by significant labor and supply chain challenges."

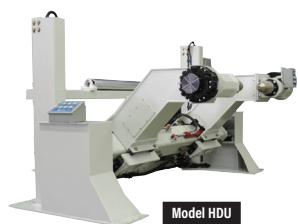
The stress on disposables retailers from wipes to masks and tissue products has led to manufacturers making a wider array of items in-house. Why order from afar when, "We can expand our capabilities and make it right here." Enabling that determination is continued sales growth. Protective inventory build-up also is far removed from the just-in-time era.

Many of these examples are leading indicators of the next generation of technologies that will be "disruptive." This will change the converting world for manufacturers. Coming up is the last chapter in this series focusing on disruptive technologies. ■

## ABOUT THE AUTHOR

Susan Stansbury is a converting advocate with extensive experience in the paper, converting, printing and related industries serving in roles including sales and marketing management.

## Want More Production?



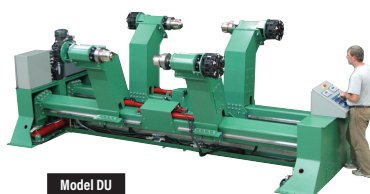
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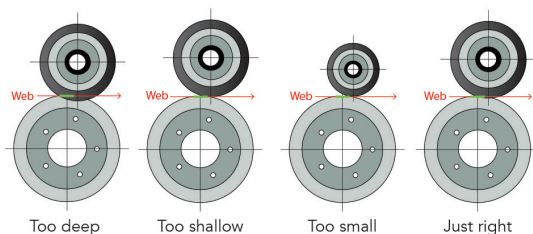
# Let's Cut to the Point: Shearing Accuracy Can Make or Break You

The safety, quality and efficiency of shear slitting affect your bottom line and reputation.

A precise cut can mean the difference between getting your customers' orders out the door and throwing out a batch of ruined materials.

Accurate slitting is critical whether you're in paper, corrugated, films, foils, flexible packaging, food, nonwovens or another industry. Thankfully, you can eliminate existing problems and avoid future dilemmas with the right know-how.

## Is my depth set for optimal cutting?



When the top slitter blade is the right size and set to the proper depth, the precision and quality of the cut will be just right.

## My material plows and crimps.

When the overlap of the top slitter blade and the bottom blade is too deep, the material is pushed down and the quality of the cut suffers.

## The material is chipping.

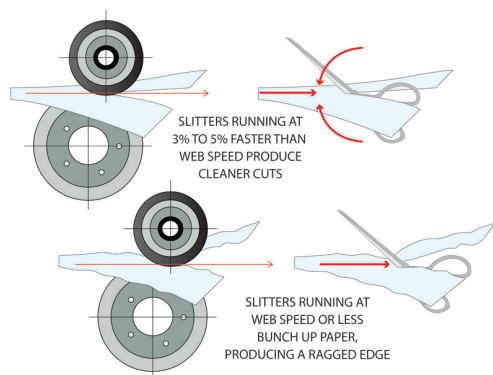
Incomplete cuts occur when the blade overlap is too shallow, causing the blade to skip.

## I have numerous cutting issues.

Time and use can cause the top blade to wear down and become too small, causing the cut point to move.

## Is my slitter speed set for flawless results?

Setting the slitter to an optimal speed produces clean cuts.



## The web bunches or tears and has a ragged edge.

Running slitters at web speed or less may cause the web to bunch or tear, producing a ragged edge.

## I have a clean cut.

Overspeeding the bottom band speed by 3 to 5 percent faster than the web speed increases cut quality and reduces the possibility of web breaks.

## How do cant angles affect my blade life?

The right cant (shear) angle contributes to a longer blade life, which can reduce interruptions to your production and save money in the long-term.

## My blades wear out quickly.

The steeper the cant angle, the faster the blade will wear.

## I need to measure my cant angle.

Insert a feeler gauge between the top blade and the bottom band behind the cut point. The greater the chord (a straight line joining two points on a curve), the larger the measured gap will be.

## How else can I make my blades last longer?

Seating the top blade each time a new blade is installed is a quick way to considerably increase blade life.

- Step 1** Hold back on the bearing assembly to soften the initial contact between the top blade and bottom band when the blade is side loaded.
- Step 2** Turn the blade in the opposite direction that it turns during normal operation. Continue spinning for three to four revolutions.
- Step 3** Turn the blade in the direction of normal operation. While turning the blade forward, work the blade back and forth causing it to slip against the bottom band. Continue until the top blade runs quiet and feels smooth against the bottom band.

## Find helpful specifics in our full training guide.

Fill out the form at [valleygrinding.com/guide](http://valleygrinding.com/guide) for a free download.



# Labelexpo Americas 2022 Show Preview

*Turn Your Converting Playbook from Good to Great*

Registration for the 17th edition of Labelexpo Americas, the region's largest label and package printing technology trade show, continues. Returning to Donald E. Stephens Convention Center in Rosemont, IL September 13-15, the hotly-anticipated three-day show is set to reunite the industry, with hundreds of live demonstrations, a digital embellishment trail, a two-day topical conference and two expert-led master classes.

"Our whole team is very excited to be finally welcoming the industry back to a Labelexpo. Labelexpo Americas 2022 will be the first time since the start of the global pandemic that many suppliers have had the chance to showcase their latest technology developments and we are thrilled to see the amount of working equipment that will be running at Labelexpo this year," said Tasha Ventimiglia, show director.

Since it began, the biennial Labelexpo Americas has become established as the region's leading event of its kind for label and package printing professionals, brand owners, label/package designers and related industry suppliers. Themed "Turn Your Converting Playbook from Good to Great," the focus for this year's show is improving one's converting business. Spread across five exhibition halls, more than 400 exhibitors will be taking part, including: ABG, Avery Dennison, Cartes, Domino, Durst, Epson, Fujifilm, HP, Konica Minolta, Mark Andy, MPS, Omet, Screen USA, UPM Raflatac and Xeikon.

Complementing the main



exhibition is a digital embellishment trail, which will highlight experts in this area with live demonstrations showcasing the ways it can transform a converting business.

Attendees will also be able to learn about ways in which they can make their business, and the wider label and package printing industry, more sustainable, by attending a themed area sponsored by TLMI.

The popular educational program comprises a two-day conference program September 13-14, tackling the industry's biggest issues including M&A, automation, diversification and supply chain challenges. Two half-day expert-led master classes September 14-15, run in association with the Label Academy, will cover digital embellishment and self-adhesive label materials.

Also taking place, on the evening of September 13, is the prestigious annual Label Industry Global Awards, which recognize key achievements in

the label and package printing sector. Categories include the Rising Star and Environmental Sustainability Awards, plus the individual R Stanton Avery Global Achievement and Innovation Awards. For more details, visit [www.labelawards.com](http://www.labelawards.com). This will be followed by a special industry reunion party hosted by the show organizers.

Converters can find out more about Labelexpo Americas 2022 by attending one of several roadshows in California, Toronto and Ohio in the run-up to the show. Email [edandridge@labelexpo.com](mailto:edandridge@labelexpo.com) for details.

The show is again strongly supported and endorsed by trade bodies TLMI, FPA and FTA, plus FINAT – who is also sending a large delegation of European converters to the show. An early bird entry price of \$60 applies until August 28, with other discounts available. To register, visit [www.labelexpo-americas.com](http://www.labelexpo-americas.com). Follow Labelexpo on Twitter at @Labelexpo or visit [www.labelexpo.com](http://www.labelexpo.com). ■



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The background of the lower half of the poster is a photograph of a large audience of people seated in rows, attending a conference. The image is tinted with a blue color scheme. A white rectangular box is overlaid on the center of the audience photo, containing the text "Learn More At www.aimcal.org".

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## AICC Launches New Streaming Site

AICC, The Independent Packaging Association, has launched two new sites, AICC NOW and Packaging University, to bring online information and education to its members.



AICC NOW brings all of AICC's videos and online content to one location. The platform will enable AICC members to search AICC's vast media offerings, including AICC Packaging University content, webinars, podcasts, Ask the Expert resources, whitepapers, training videos, interviews and more, past and present, for the information they need to grow.

"The new platform greatly simplifies ease of access for our members," Gary Brewer, President, Package Crafters, Inc., and AICC Education Committee Chair, said.

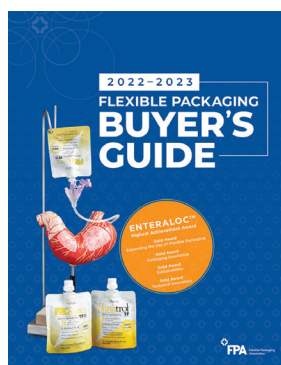
AICC NOW will have content available to educate employees and promote the industry to the public. Brewer explained, "Current development of One Point Lessons on the new platform and Public Service Announcements for social media channels bolster our never-ending commitment to recruit, educate and retain great individuals for our industry."

AICC has also moved its 100 free online courses to a new platform, Packaging University. The new site gives members the same excellent education they have come to expect from AICC, with the easier access they asked for and new tools and search functions.

AICC President Mike D'Angelo said, "AICC content growth has been exploding, and

members needed a better way to access and navigate all that is available and all that will come. AICC Now is the right tool to bring the entire catalogue of great information to each member based on their needs."

AICC's latest innovative member benefit can be seen at [NOW.AICCbox.org](http://NOW.AICCbox.org). Call (703) 836-2422 for more information.



## FPA Publishes 2022–2023 Flexible Packaging Buyer's Guide

The Flexible Packaging Association (FPA), the leading advocate and voice for the growing U.S. flexible packaging industry, has released the 2022–2023 Flexible Packaging Buyer's Guide.

The Buyer's Guide provides a detailed listing of FPA members' manufacturing and material supplying capabilities and is a valuable tool and resource to assist users in finding the best flexible packaging solution for their packaging needs.

This reference resource provides specific information regarding the product lines and end uses (retail, institutional, medical and pharmaceutical and industrial applications); value-added services; printing and converting processes; and,

suppliers of flexible packaging machinery, equipment, supplies, services, adhesives, inks, coatings, resins and substrates. It also includes contact information and a brief narrative description of each member company. FPA distributes the Buyer's Guide at industry trade shows and conferences.

FPA members and non-members may browse through an online searchable database of the Buyer's Guide or download a PDF version. To be included in the Buyer's Guide, a company must be a member of FPA.

For more information on the FPA, membership information or to download a copy of the Flexible Packaging Buyer's Guide, visit [www.flexpack.org](http://www.flexpack.org).



## International Holography Awards Open for Entries

The search is on for the best in commercial holography with entries now open for the 2022 Excellence in Holography Awards.

The awards, which recognize advancement and technical achievement in commercial holography, are organized by global trade body International Hologram Manufacturers Association (IHMA). This year, they will be presented during the



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Holography Conference, which takes place online Dec. 5-6.

The awards recognize outstanding achievement and mark those who have been at the forefront of some of the most significant sector developments around the world in recent times. They reflect innovative or commercially viable hologram products or techniques which have been introduced or launched in the last 12 months.

Any company or individual is eligible to enter and the award categories cover innovations for the best in Holographic Technology, Origination, Display or Emerging Technology Applications, Applied Security and Decorative/Packaging Products.

Deadline to entire is Oct. 31, 2022 (commercial projects produced after Aug. 1, 2020 will be covered). Those involved in a hologram project can enter while others can nominate holographic projects for an award if they provide details of the user or producer of the hologram.

Learn more at <https://ihma.org/excellence-in-holography-awards/>  
Or make nominations at <https://ihma.awardsplatform.com/>.

## Epson Installs 100th SurePress Digital Label Press in North America

Epson America recently announced it has sold 100 SurePress® digital label presses in



North America. The 100th unit was a SurePress L-6534VW UV press purchased by custom printing company Sticker Mule for its Amsterdam, N.Y. location. The SurePress portfolio is engineered to meet the production, quality and service and support demands of label converters, specialty printers and vertical manufacturers.

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“Our 100th SurePress installation in North America is a testament to the acceptance in the market of Epson technology for high-end digital inkjet label production,” said Victor Gomez, director, Industrial Labels, Epson America. “We have installed presses at label converters of all sizes, as well as at promotional products printers, print-for-use sites, and many other traditional and non-traditional label and packaging providers. It’s appropriate that this milestone was reached with the SurePress L-6534VW UV press at Sticker Mule, who coincidentally also bought the very first SurePress L-6534VW.”

For additional information, visit [www.epson.com/surepress](http://www.epson.com/surepress).



## Flint Group Supports Global CEFLEX Packaging Project

Flint Group Packaging, one of the largest consumables suppliers to the global print and packaging industry, has lent its support to the Circular Economy for Flexible

Packaging Quality Recycling Project (CEFLEX QRP), co-developing and trialing duplex laminated flexible packaging comprising Polypropylene (PP) recycle (rPP).

The main goal of the QRP is to create a PP recycle structure that does not inhibit the printing and converting process of today’s supply chain. In doing so, the project aims to ultimately recycle a higher percentage of PP in non-food contact film applications.

The project takes direct aim at the significant issue of low recycling rates in consumer households across Europe. Representing a large-scale collaboration between more than 180 organizations, associations and stakeholders across

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Europe, the CEFLEX project has made positive progress in showcasing the potential of a recycle-ready mono-material substrate.

Following a series of five semi-industrial trials to test the viability of printing on films made using rPP resin, results showed that the use of post-consumer recyclate in the packaging structure did not inhibit the printing or converting process of a monopolymer PP duplex laminated barrier pouch in non-food applications.

The next stage of the project will see the creation of an industrial scale QRP waste processing plant, which is anticipated to be in active commercial use by 2023.

To learn more about the CEFLEX initiative and its work

in flexible packaging circularity, please visit <https://ceflex.eu>.

## Flexible Packaging Recycler Passes the 100 Million Pound Mark

Connecticut Metal Industries has recycled more than 100 million pounds of flexible packaging materials at the Ansonia, CT facility. This plant, opened in 2010, was set up to recover foil, paper and polymer laminates used in the food, pharma and cosmetics industries.

"Our company began 38 years ago by recycling rigid containers," said Mary Vulcano, the company's vice president. "As flexible packaging made rapid inroads into these markets, we decided to try

recycling these flexible materials."

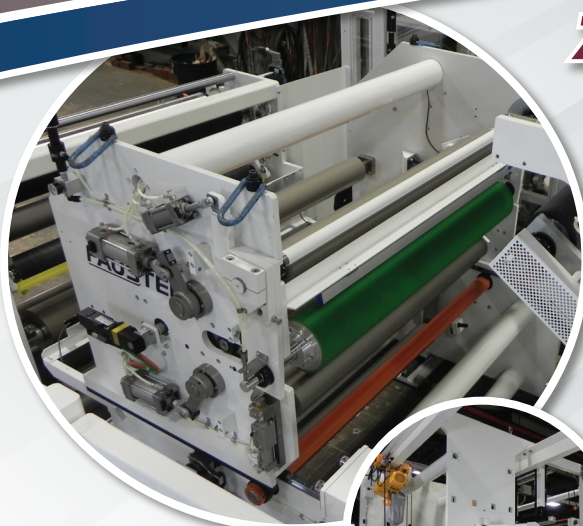
Initially, the company focused on aluminum foil laminates, then developed a proprietary process separating aluminum from the paper and plastic substrates. The company soon became a major consumer of foil lidding, laminate pouch materials as well as printed and uncoated aluminum foil scrap.

In the last decade, Connecticut Metal has expanded to encompass printed and unprinted paper, plastic laminates and tapes. Metal containers from the beverage and aerosol can industries are still a major part of their recyclable feedstock. They remain committed to working with the rapidly developing flexible packaging industry.

Further information can be found at [www.ctmetal.com](http://www.ctmetal.com). ■

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Find leading suppliers and service providers of converting and package printing equipment in this issue and ONLINE at:

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Filmquest Group  
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Finzer Roller, Inc  
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www.finzerroller.com

Flexographic Technical  
Association (FTA)  
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www.flexography.org



FMS Force Measuring Systems  
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www.fms-technology.com



Frontier a Delta ModTech  
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570-265-0769  
www.frontiercoating.com

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GEW Inc  
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www.gewuv.com

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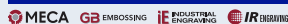


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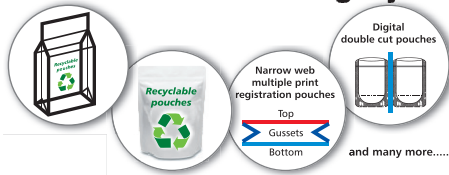
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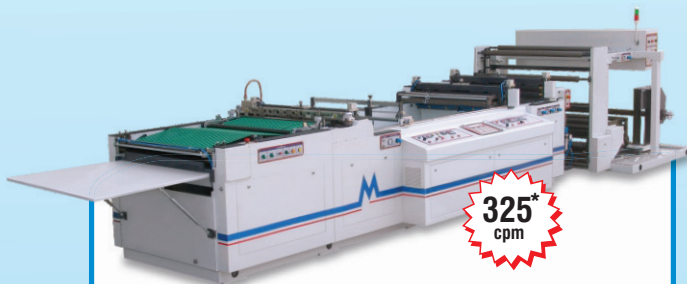


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\*Mechanical speed



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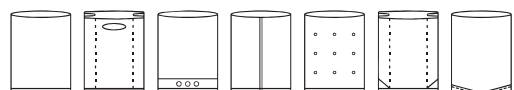
Applications are endless...

\*Mechanical speed



## Bottom seal machines

- Available in 32"/44"/56" widths
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- Repeat seal capability for higher thickness films
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\*Mechanical speed

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[www.tecomanufacturing.com](http://www.tecomanufacturing.com)



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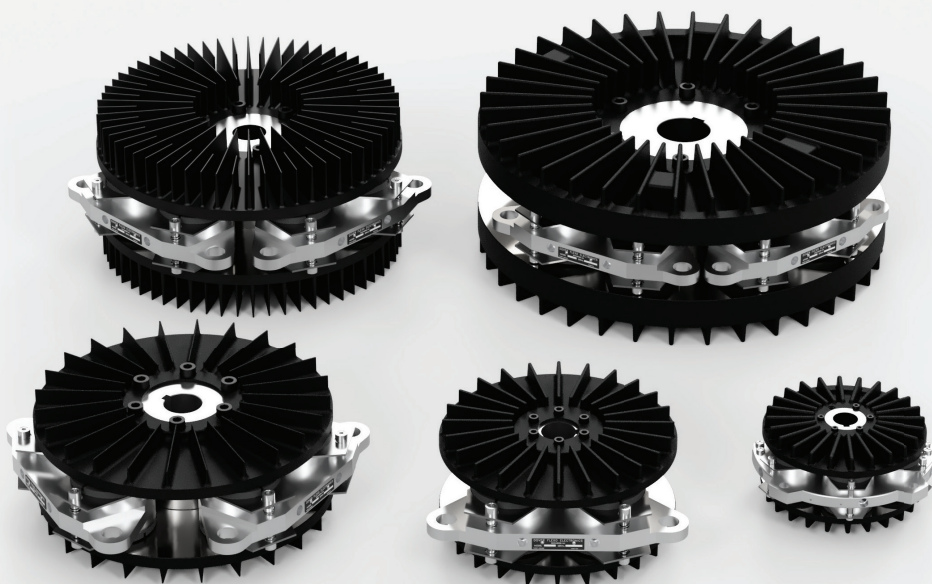
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**Polycarbonate Film**  
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Mirror Polishing & Plating Co Inc.  
**ZOi Films**

### **Board: Linerboard (Colored or Preprinted)**

Griff Paper & Film  
Mirror Polishing & Plating Co Inc.

### **Cup & Container Stock**

Griff Paper & Film  
Mirror Polishing & Plating Co Inc.

### **Customized Papers: Made to Specifications**

Mirror Polishing & Plating Co Inc.

### **Electrostatic Papers**

NIKA CORP

### **Holographic Papers**

Mirror Polishing & Plating Co Inc.  
Supply55, Inc / NEPATA Converting  
Equipment

### **Insulating Paper & Board**

Mirror Polishing & Plating Co Inc.

### **Kraft**

Griff Paper & Film  
Mirror Polishing & Plating Co Inc.  
Supply55, Inc / NEPATA Converting  
Equipment  
WestRock

### **Metallized Papers**

Supply55, Inc / NEPATA Converting  
Equipment

### **Nonwoven Materials**

Mirror Polishing & Plating Co Inc.  
**NOW Plastics, Inc.**  
Supply55, Inc / NEPATA Converting  
Equipment



QC Electronics delivers high-power, innovative corona treatment equipment to the converting industry. QC understands the science behind successful adhesion and have applied that to our design. Over the years, we have created a team of adhesion experts and partnered with an engineering firm that is globally recognized for designing efficient, top-quality equipment. Contact [sales@qcelectronics.com](mailto:sales@qcelectronics.com) for more information.

QUALITY

RELIABILITY

SIMPLICITY

INTELLIGENT

AUTOMATED

PATENTED

### Technical Coating Intl **ZOi Films**

#### **Paper**

Griff Paper & Film  
Industrial Physics  
Mirror Polishing & Plating Co. Inc.  
Supply55, Inc / NEPATA Converting Equipment  
Technical Coating Intl  
WestRock  
**ZOi Films**

#### **Tissue**

Griff Paper & Film  
Industrial Physics  
Mirror Polishing & Plating Co. Inc.  
Supply55, Inc / NEPATA Converting Equipment

### **EQUIPMENT, ACCESSORIES & MACHINERY**

3DT LLC - Representative of SOFTAL in North America

Absolute Converting Solutions  
Advanced Greig Laminator Inc. (AGL)  
Alliance Machine and Engraving LLC  
Allison Systems Corp  
**American Roller Co.**  
**Applied Rigaku Technologies, Inc.**  
ASHE Converting Equipment  
ASI, Division of Thermal Technologies, Inc.

#### **Associated Machine Design, Inc**

AZCO Corp.  
Baldwin Vision Systems  
Blower Application Company, Inc.  
Boschert LLC  
BST North America

#### **Cadence, Inc.**

#### **Catbridge Machinery**

CESCO American, LLC

#### **Chase Machine & Engineering**

CMD Corporation  
Comexi North America Inc

Corotec Corp

#### **CTC - A Quantum Design Product Line**

#### **Davis-Standard, LLC**

#### **Deacro Industries Ltd**

#### **Delta ModTech**

Dienes Corporation  
Diversified Enterprises  
Dürr Systems, Inc.  
Eaglewood Technologies, LLC  
ELBA SPA

#### **Elite Cameron, Inc.**

Emerson and Renwick Ltd

Enercon Industries Corp

#### **ETI Converting Equipment**

#### **Faustel Inc**

Filmquest Group

#### **FMS Force Measuring Systems**

Frontier - a Delta ModTech Company

GEW Inc

Global Equipment Intl. LLC

GOEBEL IMS - a brand of IMS

TECHNOLOGIES

Goldenrod Corp

Griff Paper & Film

Hudson-Sharp

Industrial Physics

Innovative Machine Corp

INTEGRITY ROLLER SERVICES

IPCO USLLC

ISRA Vision

Jemmco, LLC

Jennerjahn Machine



**Kelva-Matik**

**Kingsun Machinery Industrial Co.,Ltd**

**KTI - A Quantum Design Product Line**

KURZ Transfer Products, LP  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Lotar Enterprises  
Mahr Metering Systems  
Mamata Enterprises, Inc.  
Martin Automatic  
Maxcess Intl  
**Meech International**

Miraclon, Home of KODAK FLEXCEL Solutions

Modern Manufacturing Services, LLC

MoistTech Corp.

Montalvo

MTorres Diseños Industriales

NDC Technologies

New Era Converting Machinery

Nordmeccanica NA

#### **Novanta**

Novation Inc

OLBRICH GmbH

Paper Converting Machine Company (PCMC)

Parkinson Technologies

**Pearl Technologies Inc.**

**Pinnacle Converting Equipment**

**Powell Engineering Inc**

**Precision Roll Solutions**

Printco Industries, LLC

Pro Tapes & Specialties, Inc.

Pyradia Inc.

QC Electronics Inc.

RD Specialties

**Roll-2-Roll Technologies LLC**

**Rollem International**

Rol-Tec

**SCHOBERT USA INC**

Sensory Analytics (SpecMetrix Systems)

**Simco-Ion**

**Sonic Solutions**

SPS Ideal Solutions, Inc.

SRC Systems, Ltd.

**Static Clean International**

**TAKK Industries**

**Telstar Engineering**

Tokuden Inc

**Totani Corp/Totani America**

**Unilux**

Valley Grinding & Mfg

Voorwood

Windmoeller & Hoelscher Corp

#### **Accumulators**

AZCO Corp.

**Catbridge Machinery**

**Chase Machine & Engineering**

**CTC - A Quantum Design Product Line**

**Davis-Standard, LLC**

### **FAUSTEL**

#### **Faustel Inc**

Innovative Machine Corp

New Era Converting Machinery

OLBRICH GmbH

**Pinnacle Converting Equipment**

**Totani Corp/Totani America**

#### **Actuating Devices**

Maxcess Intl

**Roll-2-Roll Technologies LLC**

#### **Agitators: Adhesives; Coatings or Inks**

Mahr Metering Systems

#### **Air Pollution Control Equipment: Incineration**

Dürr Systems, Inc.

**Kono Kogs, Inc.**

#### **Air Pollution Control Equipment: Solvent**

**Recovery**

Dürr Systems, Inc.

#### **Air Tables**

OLBRICH GmbH

#### **Applicators**

Davis-Standard, LLC

Griff Paper & Film  
Mahr Metering Systems  
Nordmeccanica NA

#### **Bag Machinery: Paper or Plastics**

CMD Corporation

**Delta ModTech**

ELBA SPA

Global Equipment Intl. LLC

Griff Paper & Film

Hudson-Sharp



**Kingsun Machinery Industrial Co.,Ltd**

Mahr Metering Systems

Mamata Enterprises, Inc.

Modern Manufacturing Services, LLC

**Pearl Technologies Inc.**

**Totani Corp/Totani America**

Windmoeller & Hoelscher Corp

#### **Balers**

Global Equipment Intl. LLC

OLBRICH GmbH

#### **Banding, Strapping Machines**

CMD Corporation

#### **Bar Code Reader/Verification System**

BST North America

#### **Bars (including Spreader & Turn)**

OLBRICH GmbH

**Pearl Technologies Inc.**

**Telstar Engineering**

#### **Belting & Guides (including Corrugator,**

**Folder/Gluer & Vacuum)**

IPCO USLLC

Jemmco, LLC

#### **Blades: Special Purposes**

American Cutting Edge, A Division of CB

Manufacturing

AZCO Corp.

**Cadence, Inc.**

Maxcess Intl

**TGW International**

#### **Boards (including Cutting & Envelope)**

AZCO Corp.

#### **Brakes (including Air, Electrical,**

**Electromagnetic & Mechanical)**

Boschert LLC

Dover Flexo Electronics

Maxcess Intl

Montalvo

#### **Bridge Mandrel/Sleeve Carrier**

#### **PRECISION ROLL SOLUTIONS**

MECA GB HANCOCK INC INDUSTRIAL EQUIPMENT EIR

Precision Roll Solutions

#### **Can/Core Winding Machinery (Convolute &**

**Spiral Wound)**

**Chase Machine & Engineering**

**Kingsun Machinery Industrial Co.,Ltd**

#### **Chucks: Core & Safety**

Boschert LLC

**Chase Machine & Engineering**

**Elite Cameron, Inc.**

Goldenrod Corp

Maxcess Intl

Montalvo

New Era Converting Machinery

**Powell Engineering Inc**

**Cleaning Equipment: Sheet & Web**

3DT LLC - Representative of SOFTAL in North America

**Chase Machine & Engineering**

Eaglewood Technologies, LLC  
Jemmco, LLC



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Meech International  
Simco-Ion



Sonic Solutions  
Static Clean International

**Clutches**

Absolute Converting Solutions  
Boschert LLC  
Maxcess Intl  
Montalvo

**Coating Equipment**

CESCO American, LLC



ETI Converting Equipment  
FMS Force Measuring Systems  
Frontier – a Delta ModTech Company  
Global Equipment Intl. LLC

Innovative Machine Corp  
**Kingsun Machinery Industrial Co.,Ltd**

Mahr Metering Systems  
PNT (People and Technology)  
Printco Industries, LLC  
Sensory Analytics (SpecMetrix Systems)

**Coating Machines: Extrusion Coating**

**Davis-Standard, LLC**

**Elite Cameron, Inc.**

Global Equipment Intl. LLC  
Innovative Machine Corp  
Mahr Metering Systems  
Mirror Polishing & Plating Co Inc.  
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  
Griff Paper & Film  
Innovative Machine Corp  
**Kingsun Machinery Industrial Co.,Ltd**  
Mahr Metering Systems  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
Windmoeller & Hoelscher Corp

**Coating Machines: Vacuum Roll**

**Davis-Standard, LLC**

Emerson and Renwick Ltd

Mahr Metering Systems

**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  
Griff Paper & Film  
Innovative Machine Corp  
Mahr Metering Systems  
New Era Converting Machinery  
Nordmeccanica NA

OLBRICH GmbH

Pyradia Inc.

Valley Grinding & Mfg

**Coating Stations: Open Systems - Dip**

CESCO American, LLC

**Faustel Inc**

Innovative Machine Corp  
Mahr Metering Systems  
New Era Converting Machinery  
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  
Mahr Metering Systems  
Mirror Polishing & Plating Co Inc.  
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  
Griff Paper & Film  
Innovative Machine Corp  
Mahr Metering Systems  
Mirror Polishing & Plating Co Inc.  
Nordmeccanica NA  
OLBRICH GmbH  
Printco Industries, LLC  
Pyradia Inc.

**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  
Griff Paper & Film  
Innovative Machine Corp

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Mahr Metering Systems  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
Printco Industries, LLC  
RD Specialties

### Coating Stations: Open Systems - Screen

Emerson and Renwick Ltd  
Frontier – a Delta ModTech Company  
Mahr Metering Systems  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH 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  
Griff Paper & Film  
Innovative Machine Corp  
Mahr Metering Systems  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH

### Coating Stations: Premetered - Spray

**Catbridge Machinery**  
CESCO American, LLC  
Mahr Metering Systems

### Coextrusion Dies: Films

**Davis-Standard, LLC**  
Mahr Metering Systems  
Mirror Polishing & Plating Co Inc.  
Windmoeller & Hoelscher Corp

### Coextrusion Systems

**Davis-Standard, LLC**  
Mahr Metering Systems  
Mirror Polishing & Plating Co Inc.  
Windmoeller & Hoelscher Corp

### Collators

**SCHOBER USA INC**

### Controls (including Color & Color Register)

Baldwin Vision Systems  
BST North America

### Controls (including Curl & Moisture)

CESCO American, LLC  
**Davis-Standard, LLC**  
NDC Technologies  
OLBRICH GmbH

### Controls (including Nuclear Instrument & Thickness/Gauging)



**Applied Rigaku Technologies, Inc.**  
**Davis-Standard, LLC**  
MoistTech Corp.  
NDC Technologies  
Sensory Analytics (SpecMetrix Systems)

### Controls (including Speed, Temperature & Timing)

**Davis-Standard, LLC**  
Industrial Indexing Systems  
Maxcess Intl  
NDC Technologies

### Controls: Cutoff

BST North America  
Industrial Indexing Systems

### Controls: Drives & Motors

**Davis-Standard, LLC**  
Industrial Indexing Systems  
Mahr Metering Systems  
OLBRICH GmbH

### Controls: All Air



**Meech International**

### Controls: Position Sensor

Industrial Indexing Systems  
Maxcess Intl  
NDC Technologies



**Roll-2-Roll Technologies LLC**

### Controls: Tension

Boschert LLC  
**CTC - A Quantum Design Product Line**  
**Davis-Standard, LLC**  
Dover Flexo Electronics



**FMS Force Measuring Systems**

Industrial Indexing Systems  
Maxcess Intl  
Montalvo  
NDC Technologies  
OLBRICH GmbH  
Pinnacle Converting Equipment

### Controls: Web (Machine Direction & Transverse)

BST North America  
**Davis-Standard, LLC**  
Industrial Indexing Systems  
Maxcess Intl  
OLBRICH GmbH  
**Telstar Engineering**

### Controls: Web Guiding

BST North America  
**Davis-Standard, LLC**  
**FMS Force Measuring Systems**  
Industrial Indexing Systems  
Maxcess Intl  
Montalvo  
**Pinnacle Converting Equipment**  
**Roll-2-Roll Technologies LLC**  
**Telstar Engineering**

### Conveyor Systems

AZCO Corp.  
IPCO USLLC  
Pillar Technologies  
**Telstar Engineering**

### Core Loading Machinery (Automatic)

**Catbridge Machinery**  
**Davis-Standard, LLC**  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Jennerjahn Machine  
OLBRICH GmbH

### Core Machinery

**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
Voorwood

### Core Shafts & Straighteners

### Elite Cameron, Inc.

Goldenrod Corp  
Maxcess Intl

### Cores: Paper or Plastic

**Elite Cameron, Inc.**  
Griff Paper & Film  
Northcore Industries, Inc  
Pro Tapes & Specialties, Inc.

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

Global Equipment Intl. LLC

### Corrugators

Global Equipment Intl. LLC  
Industrial Physics  
**Kingsun Machinery Industrial Co.,Ltd**

### Counters

Novation Inc.

### Cup Machines (including Lid & Handle-Applying Machines)

**Kingsun Machinery Industrial Co.,Ltd**

### Curing Equipment & Accessories: Infrared

ASI, Division of Thermal Technologies, Inc.  
Dürr Systems, Inc.  
GEW Inc

### Curing Equipment & Accessories: Ultraviolet (including Lamps)

GEW Inc

### Cutters: Card (Rotary)

AZCO Corp.  
Griff Paper & Film  
**Rollem International**  
**SCHOBER USA INC**  
Valley Grinding & Mfg

### Cutters: Guillotine

AZCO Corp.  
**Davis-Standard, LLC**  
Griff Paper & Film  
**Kingsun Machinery Industrial Co.,Ltd**  
**Pinnacle Converting Equipment**  
Randolph Tool Co., Inc.  
Valley Grinding & Mfg

### Cutters: Label

AZCO Corp.  
**Delta ModTech**  
**Kingsun Machinery Industrial Co.,Ltd**  
**Novanta**  
Randolph Tool Co., Inc.  
**SCHOBER USA INC**  
**Telstar Engineering**  
Valley Grinding & Mfg

### Cutters: Laser



**Novanta**  
**SCHOBER USA INC**

### Cutters: Platen

**Delta ModTech**

### Cutters: Rotary

AZCO Corp.  
Blower Application Company, Inc.  
**Delta ModTech**  
Griff Paper & Film  
Randolph Tool Co., Inc.  
**Rollem International**  
**SCHOBER USA INC**  
Supply55, Inc / NEPATA Converting Equipment  
Valley Grinding & Mfg

**Cutters: Tube & Core**

ASHE Converting Equipment  
AZCO Corp.

**Elite Cameron, Inc.**

**Kingsun Machinery Industrial Co.,Ltd**

Northcore Industries, Inc  
**Pinnacle Converting Equipment**  
Randolph Tool Co., Inc.  
**TGW International**  
Valley Grinding & Mfg

**Cutting & Creasing Jackets**

AZCO Corp.

**Cylinders: Flexographic**

Absolute Converting Solutions  
Printco Industries, LLC  
Rol-Tec

**Cylinders: Laser-Engraved**

Rol-Tec

**Cylinders: Reconditioning**

Alliance Machine and Engraving LLC  
Rol-Tec

**Cylinders: Rotogravure**

**Kingsun Machinery Industrial Co.,Ltd**

**Defect Marking/Web Marking**

Novation Inc.

**Die-Cutting Equipment: Platen/Flat Bed**

CESCO American, LLC



**Delta ModTech**

Griff Paper & Film

**Kingsun Machinery Industrial Co.,Ltd**

KURZ Transfer Products, LP  
**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  
Griff Paper & Film  
**Kingsun Machinery Industrial Co.,Ltd**  
Maxcess Intl  
**Pinnacle Converting Equipment**  
**Rollem International**  
**SCHOBER USA INC**  
**Telstar Engineering**

**Die-Making Equipment & Supplies**

KURZ Transfer Products, LP  
Pro Tapes & Specialties, Inc.

**Dies: Cutting & Embossing**

**Davis-Standard, LLC**  
Global Equipment Intl. LLC  
Griff Paper & Film  
Pro Tapes & Specialties, Inc.  
**SCHOBER USA INC**

**Doctor Blades & Enclosures**

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

**Telstar Engineering**

Valley Grinding & Mfg

**Drawstring Equipment: for Bags & Pouches**

Hudson-Sharp  
**Pearl Technologies Inc.**

**Drilling Machinery: Paper**

Griff Paper & Film  
**Novanta**  
**Rollem International**

**Drying Equipment: Convection**

ASI, Division of Thermal Technologies, Inc.  
Dürr Systems, Inc.  
Innovative Machine Corp  
OLBRICH GmbH  
Pyradia Inc.

**Drying Equipment: Tunnels & Ovens**

ASI, Division of Thermal Technologies, Inc.  
CESCO American, LLC  
Dürr Systems, Inc.

**ETI Converting Equipment**

Frontier – a Delta ModTech Company  
GEW Inc  
Innovative Machine Corp  
OLBRICH GmbH  
Printco Industries, LLC  
Pyradia Inc.

**Dust-Removal Equipment**

Dürr Systems, Inc.  
**Meech International**  
**Simco-Ion**  
**Static Clean International**



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### **Embossing Machinery (including Holograms)**

Alliance Machine and Engraving LLC  
CMD Corporation  
**Davis-Standard, LLC**  
**Delta ModTech**  
IMS TECHNOLOGIES  
**Kingsun Machinery Industrial Co.,ltd**  
LAEM IMS - a brand of IMS TECHNOLOGIES  
New Era Converting Machinery  
OLBRICH GmbH  
**Precision Roll Solutions**  
**Rollem International**



**SCHOBER USA INC**

### **End Plates**

SPS Ideal Solutions, Inc.

### **Envelope Machines**

**Totani Corp/Totani America**

### **Extruder Dies & Auxiliary Equipment**

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

### **Extruder/Laminators**

**Davis-Standard, LLC**  
Global Equipment Intl. LLC  
Innovative Machine Corp  
Mirror Polishing & Plating Co Inc.  
Nordmeccanica NA  
Windmoeller & Hoelscher Corp

### **Extruding Machines: Blown Film**

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

### **Extruding Machines: Cast Film**

**Chase Machine & Engineering**  
**Davis-Standard, LLC**  
Global Equipment Intl. LLC  
Mirror Polishing & Plating Co Inc.  
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.

### **Extrusion Coating: Extruders**

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

### **Extrusion Coating: Slot Dies**

**Davis-Standard, LLC**  
**Elite Cameron, Inc.**

### **Extrusion Dies**

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

### **Fanfolding Equipment**

AZCO Corp.  
**Chase Machine & Engineering**  
CMD Corporation  
**SCHOBER USA INC**

### **Feeders & Components (including Lead Edge Feeders)**

AZCO Corp.  
Mahr Metering Systems  
**Rollem International**

### **Festooning Machines**

**Chase Machine & Engineering**  
**CTC - A Quantum Design Product Line**  
**Delta ModTech**  
Innovative Machine Corp  
MTorres Diseños Industriales  
**Telstar Engineering**

### **Film Cutting & Folding Machines**

AZCO Corp.  
**Elite Cameron, Inc.**  
Hudson-Sharp  
IMS TECHNOLOGIES  
LAEM IMS - a brand of IMS TECHNOLOGIES  
**Novanta**  
**Pinnacle Converting Equipment**  
**SCHOBER USA INC**  
**Telstar Engineering**  
**Totani Corp/Totani America**

### **Film Orienters**

**Davis-Standard, LLC**  
Innovative Machine Corp  
Windmoeller & Hoelscher Corp

### **Film Reclaim Systems**

Jemmco, LLC

### **Film Stretchers**

**Davis-Standard, LLC**  
Innovative Machine Corp  
Windmoeller & Hoelscher Corp

### **Finishing Equipment**

**Davis-Standard, LLC**  
**Delta ModTech**  
**Elite Cameron, Inc.**  
**Kingsun Machinery Industrial Co.,ltd**  
OLBRICH GmbH  
**Roll-2-Roll Technologies LLC**



**Rollem International**  
**SCHOBER USA INC**  
**Simco-Ion**  
**Static Clean International**  
**Telstar Engineering**

### **Foil Machinery**

**Elite Cameron, Inc.**  
KURZ Transfer Products, LP  
**Telstar Engineering**

### **Folder/Gluers: Corrugated**

Griff Paper & Film  
**Kingsun Machinery Industrial Co.,ltd**

### **Folder/Gluers: Folding Carton**

Griff Paper & Film  
**Kingsun Machinery Industrial Co.,ltd**  
**Rollem International**

### **Folding Machinery**

CMD Corporation  
Griff Paper & Film  
Hudson-Sharp  
**Rollem International**



**Totani Corp/Totani America**

### **Food-Tray Machinery**

**Novanta**  
**Pinnacle Converting Equipment**

### **Gauges**

MoistTech Corp.  
NDC Technologies  
**Roll-2-Roll Technologies LLC**  
Sensory Analytics (SpecMetrix Systems)

### **Gears: Helical & Spur**

Absolute Converting Solutions

### **Gluers**

CESCO American, LLC

### **Grinders**

AZCO Corp.

### **Gussetting Machines**

CMD Corporation  
ELBA SPA  
Hudson-Sharp  
Modern Manufacturing Services, LLC

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

CMD Corporation  
ELBA SPA  
Hudson-Sharp

### **Heat Recovery**

Dürr Systems, Inc.



**Kono Kogs, Inc.**

### **Heaters: Printing Press**

OLBRICH GmbH

### **Humidifiers**

CESCO American, LLC  
OLBRICH GmbH

### **Impregnating Machines**

CESCO American, LLC  
Mahr Metering Systems  
OLBRICH GmbH

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

**Novanta**

### **Ink Blending**

Mahr Metering Systems

### **Inspection Equipment: 100% Inspection**

Baldwin Vision Systems  
BST North America  
**Elite Cameron, Inc.**  
IMS TECHNOLOGIES  
Industrial Physics  
ISRA Vision  
Maxcess Intl  
NDC Technologies  
Novation Inc  
TECO Manufacturing LLC  
**Unilux**

### **Inspection Equipment: Bar Code**

Baldwin Vision Systems  
BST North America  
Industrial Physics  
Novation Inc  
TECO Manufacturing LLC

### **Inspection Equipment: Laser**

BST North America  
Industrial Physics  
Maxcess Intl  
NDC Technologies  
**Novanta**

### **Inspection Equipment: Optical/Video**

Baldwin Vision Systems  
BST North America  
**Elite Cameron, Inc.**  
Industrial Physics  
ISRA Vision  
**Kingsun Machinery Industrial Co.,ltd**  
Maxcess Intl  
NDC Technologies  
Novation Inc



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**Spring loaded tip meters fluid feed and guards against contamination**

**Reliable enough for many R & D and lab applications**

**Hundreds of tests from each marker**

**Usable on virtually all smooth non-absorptive substrates**

**Six month shelf life; mix certifications provided with every order**

**Specify any combination of dyne levels and quantities you require (minimum order four pens)**

**Conveniently packaged in ready to use setup boxes**

Total Qty.	Unit Price	Total Qty.	Unit Price
4 - 7	\$10.20	32 - 47	\$5.60
8 - 15	\$7.80	48 - 95	\$4.80
16 - 31	\$6.40	> 95	\$4.40

Unit pricing is based on total order quantity. We now ship via ground service prepaid at no charge. Standard dyne levels include all even numbers from 30 through 72 dynes/cm. Free samples available on request.

Diversified Enterprises 101 Mulberry St., Ste 2N, Claremont, NH 03743  
800-833-4644 or 603-543-0038; Fax 603-543-1334 [www.accudynetest.com](http://www.accudynetest.com)

**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.**  
ISRA Vision  
**Kingsun Machinery Industrial Co.,Ltd**  
LAEM IMS - a brand of IMS TECHNOLOGIES  
New Era Converting Machinery  
OLBRICH GmbH



**Pinnacle Converting Equipment**  
TECO Manufacturing LLC

**Inspection Equipment: Strobe Light**

BST North America  
Diversified Enterprises  
TECO Manufacturing LLC  
**Unilux**

**Knives: Air**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
Maxcess Intl  
**Simco-Ion**  
**Static Clean International**

**Knives: Bag Machinery**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
CMD Corporation  
ELBA SPA  
Hudson-Sharp  
Modern Manufacturing Services, LLC  
Valley Grinding & Mfg

**Knives: Cutoff**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
**Elite Cameron, Inc.**  
New Era Converting Machinery  
Randolph Tool Co., Inc.  
**SCHOBER USA INC**  
Valley Grinding & Mfg

**Knives: Cutter**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
Blower Application Company, Inc.  
Dienes Corporation  
**Elite Cameron, Inc.**  
**Pinnacle Converting Equipment**  
Randolph Tool Co., Inc.  
**TGW International**  
Valley Grinding & Mfg

**Knives: Holders**

Dienes Corporation  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Jemmco, LLC  
Maxcess Intl  
**Pinnacle Converting Equipment**  
Randolph Tool Co., Inc.

**SCHOBER USA INC**  
Valley Grinding & Mfg

**Knives: Perforating**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
**Cadence, Inc.**  
Dienes Corporation  
**Elite Cameron, Inc.**  
Jemmco, LLC  
Pro Tapes & Specialties, Inc.  
Randolph Tool Co., Inc.  
**SCHOBER USA INC**



**TGW International**  
Valley Grinding & Mfg

**Knives: Positioning Systems**

**Catbridge Machinery**  
Dienes Corporation  
**Elite Cameron, Inc.**  
Jemmco, LLC  
Maxcess Intl

**Knives: Scoring**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.  
**Cadence, Inc.**  
Dienes Corporation  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Jemmco, LLC  
Maxcess Intl  
**Pinnacle Converting Equipment**  
Pro Tapes & Specialties, Inc.  
**SCHOBER USA INC**  
Valley Grinding & Mfg

**Knives: Sheeter**

AZCO Corp.  
Global Equipment Intl. LLC  
**Pinnacle Converting Equipment**  
Pro Tapes & Specialties, Inc.  
**TGW International**  
Valley Grinding & Mfg

**Knives: Slitter**

American Cutting Edge, A Division of CB Manufacturing  
AZCO Corp.



**Cadence, Inc.**  
Dienes Corporation  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Jemmco, LLC  
Maxcess Intl  
**Pinnacle Converting Equipment**  
Pro Tapes & Specialties, Inc.  
Randolph Tool Co., Inc.  
**SCHOBER USA INC**  
TECO Manufacturing LLC  
Valley Grinding & Mfg

**Knives: Splitting**

American Cutting Edge, A Division of CB Manufacturing  
Pro Tapes & Specialties, Inc.  
Randolph Tool Co., Inc.  
Valley Grinding & Mfg

**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**

Griff Paper & Film  
Innovative Machine Corp  
**Kingsun Machinery Industrial Co.,Ltd**  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
**Pinnacle Converting Equipment**  
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  
Griff Paper & Film  
Innovative Machine Corp  
**Kingsun Machinery Industrial Co.,Ltd**  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH 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  
Griff Paper & Film  
Innovative Machine Corp  
**Kingsun Machinery Industrial Co.,Ltd**  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
Pyradia Inc.  
Windmoeller & Hoelscher Corp

**Levers: Slitter**

Griff Paper & Film  
IMS TECHNOLOGIES  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Supply55, Inc / NEPATA Converting Equipment

**Machinery: Alignment**

CMD Corporation  
Maxcess Intl  
**Roll-2-Roll Technologies LLC**

**Machinery: Bought & Sold**

CESCO American, LLC  
Griff Paper & Film

**Machinery: Conversions**

Absolute Converting Solutions  
CESCO American, LLC  
**Chase Machine & Engineering**  
**Davis-Standard, LLC**  
Mahr Metering Systems  
**Novanta**  
**Pinnacle Converting Equipment**

**Machinery: Custom**

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**

Innovative Machine Corp  
IPCO USLLC  
Jennerjahn Machine  
Mahr Metering Systems  
MTorres Diseños Industriales  
**Novanta**  
OLBRICH GmbH  
**Pinnacle Converting Equipment**  
Pyradia Inc.  
QC Electronics Inc.  
Randolph Tool Co., Inc.  
**SCHOBER USA INC**

**Machinery: Installation**  
CMD Corporation  
**Davis-Standard, LLC**  
Dürr Systems, Inc.  
ELBA SPA  
Mahr Metering Systems

**Machinery: Moving**  
**Davis-Standard, LLC**  
IPCO USLLC

**Machinery: Rebuilt**  
Absolute Converting Solutions  
CESCO American, LLC  
**Chase Machine & Engineering**  
**Davis-Standard, LLC**  
Jennerjahn Machine  
**Kono Kogs, Inc.**  
**Pinnacle Converting Equipment**

**Mandrels**  
Goldenrod Corp  
Printco Industries, LLC  
TECO Manufacturing LLC

**Materials-Handling Equipment: Forklifts & Accessories**  
Global Equipment Intl. LLC

**Materials-Handling Equipment: Joggers, Aerators**  
Global Equipment Intl. LLC  
Griff Paper & Film

**Materials-Handling Equipment: Load Turners**  
Global Equipment Intl. LLC  
Nordmeccanica NA

**Materials-Handling Equipment: Manipulators**  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC

**Materials-Handling Equipment: Palletizing**  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
IMS TECHNOLOGIES  
LAEM IMS - a brand of IMS TECHNOLOGIES

**Materials-Handling Equipment: Pallets**  
**Elite Cameron, Inc.**

**Materials-Handling Equipment: Prefeeding**  
Mahr Metering Systems

**Materials-Handling Equipment: Shaft Pullers**  
Elite Cameron, Inc.  
Goldenrod Corp  
New Era Converting Machinery

**Materials-Handling Equipment: Stacking**  
CMD Corporation  
**Elite Cameron, Inc.**  
OLBRICH GmbH  
**Pinnacle Converting Equipment**  
**Simco-Ion**  
**Static Clean International**

**Materials-Handling Equipment: Transfer Cars**  
**Elite Cameron, Inc.**

New Era Converting Machinery

**Metallizing Machinery**  
Emerson and Renwick Ltd  
**Kingsun Machinery Industrial Co.,Ltd**  
Nordmeccanica NA

**Metering/Coating Equipment**  
Buschman  
**ETI Converting Equipment**  
Griff Paper & Film  
Nordmeccanica NA  
OLBRICH GmbH  
RD Specialties

**Micrometers**  
Jemmco, LLC  
NDC Technologies

**Mixers**  
Mahr Metering Systems  
Nordmeccanica NA

**Moisturizing and DeCurling Equipment**  
CESCO American, LLC

**Moisturizing Machinery: Water based**  
CESCO American, LLC

**Napkin-Converting Equipment**  
Global Equipment Intl. LLC  
Griff Paper & Film

**Pelletizers: Plastic**  
**Davis-Standard, LLC**  
Jemmco, LLC  
Mahr Metering Systems

**Perforators**  
**Elite Cameron, Inc.**  
Jemmco, LLC  
**Novanta**

**PEARL**

**Pearl Technologies Inc.**  
**SCHOBER USA INC**

**Placemat Machines**  
**SCHOBER USA INC**

**Pouch Machinery**  
AZCO Corp.  
CMD Corporation  
**Delta ModTech**

**ELBA**

ELBA SPA  
Griff Paper & Film  
Hudson-Sharp  
Mamata Enterprises, Inc.  
Modern Manufacturing Services, LLC  
**Totani Corp/Totani America**

**Printing Equipment (including Noncontact, Dampening, etc.)**  
Griff Paper & Film  
**Simco-Ion**  
**Static Clean International**

**Printing Plate Equipment: Flexographic**  
Miraclon, Home of KODAK FLEXCEL Solutions

**Printing Plates: Offset Lithographic**  
**Elite Cameron, Inc.**

**Printing Plates: Photopolymer**  
Miraclon, Home of KODAK FLEXCEL Solutions

**Printing Presses: Bag**  
Paper Converting Machine Company (PCMC)

**Printing Presses: Business Forms**

**ETI Converting Equipment**  
**Telstar Engineering**

**Printing Presses: Carton**  
**ETI Converting Equipment**

**Printing Presses: Digital**  
Comexi North America Inc  
**Delta ModTech**  
IPCO USLLC  
KURZ Transfer Products, LP  
Paper Converting Machine Company (PCMC)  
**Telstar Engineering**

**Printing Presses: Flexographic**  
CESCO American, LLC  
Comexi North America Inc  
**Delta ModTech**  
**ETI Converting Equipment**  
**Faustel Inc**  
Global Equipment Intl. LLC  
Griff Paper & Film  
Jennerjahn Machine  
**Kingsun Machinery Industrial Co.,Ltd**  
Paper Converting Machine Company (PCMC)  
Printco Industries, LLC  
Pro Tapes & Specialties, Inc.  
**Telstar Engineering**  
Windmoeller & Hoelscher Corp

**Printing Presses: Inkjet**  
**Delta ModTech**  
KURZ Transfer Products, LP  
Paper Converting Machine Company (PCMC)

**Printing Presses: Label**  
**Delta ModTech**  
**ETI Converting Equipment**  
Griff Paper & Film  
**Kingsun Machinery Industrial Co.,Ltd**  
Paper Converting Machine Company (PCMC)  
**Telstar Engineering**

**Printing Presses: Letterpress**  
Griff Paper & Film

**Printing Presses: Offset Lithography**  
Comexi North America Inc  
Griff Paper & Film  
Paper Converting Machine Company (PCMC)

**Printing Presses: Rotogravure**  
**ETI Converting Equipment**  
Griff Paper & Film  
**Kingsun Machinery Industrial Co.,Ltd**  
OLBRICH GmbH  
Windmoeller & Hoelscher Corp

**Printing Presses: Screen**  
**Delta ModTech**  
Griff Paper & Film  
OLBRICH GmbH  
**Telstar Engineering**

**Printing Presses: Ticket & Tag**  
**Delta ModTech**  
Griff Paper & Film  
Paper Converting Machine Company (PCMC)

**Printing Presses: Tinters**  
Printco Industries, LLC

**Proof Presses**  
Absolute Converting Solutions

**Pumps: Ink (including Vacuum & Centrifugal)**  
Mahr Metering Systems  
Printco Industries, LLC

**Punchers (including Hole Punchers)**  
AZCO Corp.  
CESCO American, LLC  
Griff Paper & Film  
Hudson-Sharp



**FASTER  
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## STEEL—BELTS—FOR —HIGH—SPEED— —PRECISION— DIGITAL—PRINTING

The drive for greater print productivity places new demands on press conveyors: as speeds increase, so does risk of vibration. As the world's leading manufacturer of high specification steel conveyor belts, we can help.

IPCO belts offer up to 6x better stability than plastic belts, and are precision engineered to the finest tolerances of thickness and straightness. Together with high precision belt tracking, this means the position of the print substrate is assured, and speeds can be maximized without compromising on quality.

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- High precision belt tracking.
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Modern Manufacturing Services, LLC  
**Pearl Technologies Inc.**  
**SCHOBER USA INC**

### **Registering Systems**

Absolute Converting Solutions  
BST North America  
**Delta ModTech**  
**Telstar Engineering**

### **Rewind Equipment**

AZCO Corp.  
CESCO American, LLC  
**Chase Machine & Engineering**  
**CTC - A Quantum Design Product Line**  
**Davis-Standard, LLC**  
**Deacro Industries Ltd**  
**Delta ModTech**  
Dürr Systems, Inc.  
**Elite Cameron, Inc.**  
**ETI Converting Equipment**  
Global Equipment Intl. LLC  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Griff Paper & Film  
Hudson-Sharp  
IMS TECHNOLOGIES  
Jennerjahn Machine  
Martin Automatic  
Maxcess Intl  
MTorres Diseños Industriales  
Nordmeccanica NA  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**  
Printco Industries, LLC  
Pyradia Inc.  
**Simco-Ion**  
SRC Systems, Ltd.  
**Static Clean International**  
Supply55, Inc / NEPATA Converting Equipment  
TECO Manufacturing LLC  
**Telstar Engineering**  
**Totani Corp/Totani America**

### **Roll Changers**

**CTC - A Quantum Design Product Line**  
**Davis-Standard, LLC**  
**Simco-Ion**  
**Static Clean International**  
**Telstar Engineering**

### **Roll Cleaners**

**Davis-Standard, LLC**  
Eaglewood Technologies, LLC  
Global Equipment Intl. LLC  
Paper Converting Machine Company (PCMC)  
**Simco-Ion**



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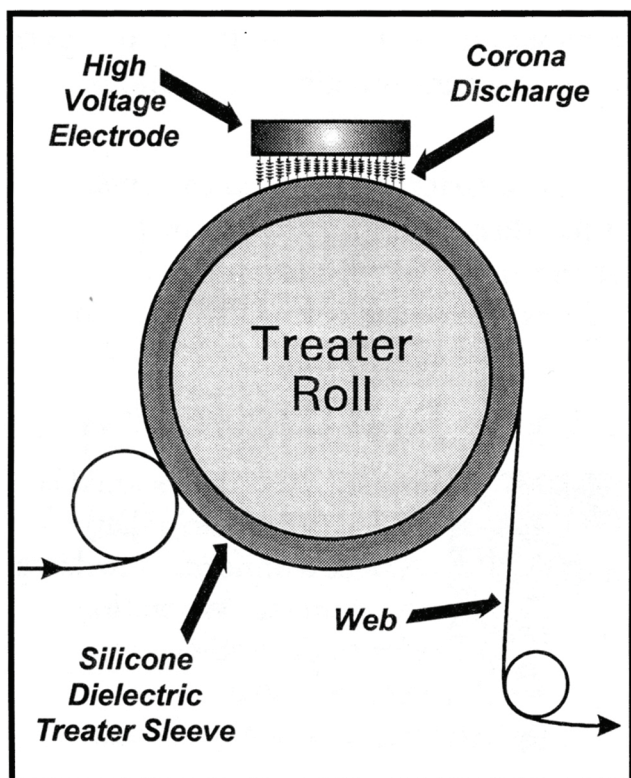
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Sonic Solutions  
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# **SILICONE Treater Sleeves**



## **Life inside a corona treater is hell.**

Dielectrics must withstand high frequency, high voltage discharge, plasma-induced ion bombardment, elevated temperature, and concentrated ozone. Even the slightest defect can result in premature failure.

We closely inspect each and every sleeve that goes out the door, and we guarantee our sleeves against immediate blowout on your treater. *That's why we can say, with full assurance...*

*"Our silicone sleeves are equal or superior to those supplied by the world's leading treater manufacturers."*

We've been selling these treater sleeves for over 25 years now — in that long period of time, we have had only one or two sleeves fail on installation. 100% visual inspection is, indeed, very effective!

**We guarantee these are the same high quality treater sleeves sold by OEMs worldwide — all at significant savings!**

Product Code	Fits Roll OD*		Actual ID	Color	Wall Thickness	Price per Linear Inch
	English	Metric				
96152	1.5"	38 mm	35 mm	Orange	.080" (2.0 mm)	\$1.15
96202	2.0"	51 mm	46 mm	Orange	.080" (2.0 mm)	\$1.35
96252	2.5"	64 mm	59 mm	Orange	.118" (3.0 mm)	\$1.85
96302	3.0"	76 mm	70 mm	Orange	.080" (2.0 mm)	\$1.85
96402	4.0"	102 mm	95 mm	Orange	.080" (2.0 mm)	\$2.25
96602	6.0"	152 mm	141 mm	Orange	.095" (2.4 mm)	\$3.15
96802	8.0"	203 mm	190 mm	Orange	.102" (2.6 mm)	\$4.55

\*These sleeves will fit any treater roll OD within +/- 0.125" (3 mm) of listed size.

Wall thickness variance: +/- .006"

Hardness (Shore A): 70-80

Dielectric Constant: 4-5

Dielectric Strength: 250 v/mil

**[www.accudynetest.com](http://www.accudynetest.com)**

Diversified Enterprises, 101 Mulberry St., Suite 2N, Claremont, NH 03743

Phone 800-833-4644 or 603-543-0038; fax 603-543-1334; email [rsmith@accudynetest.com](mailto:rsmith@accudynetest.com)

### **Roll Coaters**

**ETI Converting Equipment**  
PNT (People and Technology)  
Printco Industries, LLC

### **Roll Converting Machines: Toilet & Towel**

AZCO Corp.  
**Elite Cameron, Inc.**  
Griff Paper & Film

### **Roll Feed Machinery**

AZCO Corp.  
**Delta ModTech**  
**Pinnacle Converting Equipment**  
**SCHOBER USA INC**

### **Roll Handling Systems**

AZCO Corp.  
Comexi North America Inc  
**Deacro Industries Ltd**  
Dürr Systems, Inc.  
**Elite Cameron, Inc.**  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Goldenrod Corp  
IMS TECHNOLOGIES  
Jennerjahn Machine  
MTorres Diseños Industriales  
New Era Converting Machinery  
Nordmeccanica NA  
**Pinnacle Converting Equipment**  
SPS Ideal Solutions, Inc.

### **Roll Stands**

AZCO Corp.  
CESCO American, LLC  
CMD Corporation  
**CTC - A Quantum Design Product Line**  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Hudson-Sharp  
Jemmco, LLC  
Jennerjahn Machine  
**KTI - A Quantum Design Product Line**  
Modern Manufacturing Services, LLC  
MTorres Diseños Industriales  
**Pinnacle Converting Equipment**  
**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

### **Roller Coverings**



**American Roller Co.**  
Diversified Enterprises  
**Finzer Roller, Inc**  
INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
Pillar Technologies  
Rol-Tec

### **Roller Plating: Chrome, Copper, etc.**

Mirror Polishing & Plating Co Inc.  
**Precision Roll Solutions**

### **Rollers: Printing**

**American Roller Co.**  
**Finzer Roller, Inc**  
INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
**Precision Roll Solutions**  
Printco Industries, LLC

### **Rolls: Anilox/Metering**

INTEGRITY ROLLER SERVICES  
New Era Converting Machinery

### **Precision Roll Solutions**

Printco Industries, LLC

### **Rolls: Backing**

INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
**Precision Roll Solutions**  
Printco Industries, LLC

### **Rolls: Cooling**

**American Roller Co.**  
CESCO American, LLC  
INTEGRITY ROLLER SERVICES  
New Era Converting Machinery  
**Precision Roll Solutions**  
Tokuden Inc

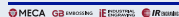
### **Rolls: Corona Treating**

**American Roller Co.**  
Corotec Corp  
Griff Paper & Film  
INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
Pillar Technologies  
**Precision Roll Solutions**  
QC Electronics Inc.

### **Rolls: Embossing**

Alliance Machine and Engraving LLC  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Griff Paper & Film  
IMS TECHNOLOGIES  
INTEGRITY ROLLER SERVICES  
Mirror Polishing & Plating Co Inc.

### **PRECISION ROLL SOLUTIONS**



**Precision Roll Solutions**  
**SCHOBER USA INC**

### **Rolls: Engraved**

Alliance Machine and Engraving LLC  
Mirror Polishing & Plating Co Inc.  
New Era Converting Machinery  
**Precision Roll Solutions**  
Tokuden Inc

### **Rolls: Expander**

New Era Converting Machinery  
**Precision Roll Solutions**

### **Rolls: Heating**

**American Roller Co.**  
CESCO American, LLC  
INTEGRITY ROLLER SERVICES  
**Precision Roll Solutions**  
Tokuden Inc

### **Rolls: Idler**

**American Roller Co.**  
**CTC - A Quantum Design Product Line**  
Dover Flexo Electronics  
INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
Pillar Technologies  
**Precision Roll Solutions**  
Printco Industries, LLC  
Rol-Tec  
Tokuden Inc

### **Rolls: Perforating**

Alliance Machine and Engraving LLC



**Finzer Roller, Inc**  
Jemmco, LLC  
**Precision Roll Solutions**  
**SCHOBER USA INC**

### **Rolls: Spreader**

**American Roller Co.**  
INTEGRITY ROLLER SERVICES  
New Era Converting Machinery

### **Precision Roll Solutions**

Rol-Tec

### **Rolls: Tensioning**

Dover Flexo Electronics  
**Finzer Roller, Inc**  
Modern Manufacturing Services, LLC  
**Precision Roll Solutions**

### **Rolls: Vacuum**

Innovative Machine Corp  
**Precision Roll Solutions**

### **Safety Equipment**

Maxcess Intl  
Novation Inc

### **Salvage Machine: Paper & Plastic**

**Pinnacle Converting Equipment**

### **Saturating Machines**

CESCO American, LLC

### **Scales**

Baldwin Vision Systems  
**FMS Force Measuring Systems**

### **Scanning Equipment**

**Applied Rigaku Technologies, Inc.**  
Baldwin Vision Systems  
BST North America  
NDC Technologies

### **Scoring Machines (including Cutters & Creasers)**

CESCO American, LLC  
Griff Paper & Film  
**Rollem International**

### **Sealing Machines**

CMD Corporation  
**Delta ModTech**  
ELBA SPA  
Pillar Technologies  
**SCHOBER USA INC**

### **Shafts & Cores**

**Elite Cameron, Inc.**  
Goldenrod Corp  
Jemmco, LLC  
Maxcess Intl  
Northcore Industries, Inc  
SPS Ideal Solutions, Inc.

### **Sheeters: Knife & Rotary Knife**

AZCO Corp.  
**Kingsun Machinery Industrial Co.,Ltd**  
**Pinnacle Converting Equipment**  
Voorwood

### **Shredders**

Blower Application Company, Inc.  
Jemmco, LLC

### **Shrink Equipment**

Griff Paper & Film  
**Kingsun Machinery Industrial Co.,Ltd**  
Simco-Ion  
**Static Clean International**

### **Sleeves: Printing**

**Precision Roll Solutions**  
Pro Tapes & Specialties, Inc.

### **Sleeves: Roll**

**American Roller Co.**  
Goldenrod Corp  
INTEGRITY ROLLER SERVICES  
Jemmco, LLC  
**Precision Roll Solutions**  
Pro Tapes & Specialties, Inc.



**Sleeves: Slitter**

Jemmco, LLC  
Pro Tapes & Specialties, Inc.

**Slitter Positioning Systems**

AZCO Corp.  
**Catbridge Machinery**  
Davis-Standard, LLC



DEACRO  
A Davis-Standard Company

**Deacro Industries Ltd**

Dienes Corporation  
**Elite Cameron, Inc.**  
Griff Paper & Film  
IMS TECHNOLOGIES  
Jemmco, LLC  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Parkinson Technologies  
Voorwood

**Slitter-Rewinders: Center Winders**

ASHE Converting Equipment  
**Associated Machine Design, Inc**  
AZCO Corp.



CATBRIDGE

**Catbridge Machinery**

CESCO American, LLC  
**Chase Machine & Engineering**  
Comexi North America Inc  
**CTC - A Quantum Design Product Line**  
Davis-Standard, LLC  
Deacro Industries Ltd  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
GOEBEL IMS - a brand of IMS  
TECHNOLOGIES

Griff Paper & Film  
IMS TECHNOLOGIES  
Innovative Machine Corp  
Jemmco, LLC  
Jennerjahn Machine  
**Kingsun Machinery Industrial Co.,Ltd**  
**KTI - A Quantum Design Product Line**  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
SRC Systems, Ltd.  
Supply55, Inc / NEPATA Converting  
Equipment  
Voorwood

**Slitter-Rewinders: Combination**

ASHE Converting Equipment  
AZCO Corp.  
**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  
GOEBEL IMS - a brand of IMS  
TECHNOLOGIES  
Griff Paper & Film  
IMS TECHNOLOGIES  
Jemmco, LLC  
Jennerjahn Machine  
**Kingsun Machinery Industrial Co.,Ltd**  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Modern Manufacturing Services, LLC  
Parkinson Technologies  
Pro Tapes & Specialties, Inc.

SRC Systems, Ltd.  
Supply55, Inc / NEPATA Converting  
Equipment  
Voorwood

**Slitter-Rewinders: Surface Rewind**

ASHE Converting Equipment  
**Associated Machine Design, Inc**  
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  
GOEBEL IMS - a brand of IMS  
TECHNOLOGIES  
Griff Paper & Film  
IMS TECHNOLOGIES  
Jemmco, LLC  
Jennerjahn Machine  
**Kingsun Machinery Industrial Co.,Ltd**  
LAEM IMS - a brand of IMS TECHNOLOGIES  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
Pro Tapes & Specialties, Inc.  
SRC Systems, Ltd.  
Supply55, Inc / NEPATA Converting  
Equipment

**Slitting Units**

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Griff Paper & Film  
IMS TECHNOLOGIES  
Jemmco, LLC  
LAEM IMS – a brand of IMS TECHNOLOGIES  
Maxcess Intl  
New Era Converting Machinery  
**Pinnacle Converting Equipment**  
PNT (People and Technology)  
Printco Industries, LLC  
**Rollem International**  
**SCHOBER USA INC**  
SRC Systems, Ltd.  
Supply55, Inc / NEPATA Converting Equipment  
**Telstar Engineering**

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

AZCO Corp.  
**Elite Cameron, Inc.**  
Global Equipment Intl. LLC  
Griff Paper & Film  
**Pinnacle Converting Equipment**  
Pro Tapes & Specialties, Inc.  
**Rollem International**  
Supply55, Inc / NEPATA Converting Equipment

### Slotting Machinery

Griff Paper & Film

### Spectrophotometers



**Applied Rigaku Technologies, Inc.**  
Baldwin Vision Systems

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**Chase Machine & Engineering**  
**CTC - A Quantum Design Product Line**  
**Davis-Standard, LLC**  
Dürr Systems, Inc.  
**KTI - A Quantum Design Product Line**  
Martin Automatic  
MTorres Diseños Industriales  
New Era Converting Machinery  
**Pinnacle Converting Equipment**

### Spraying Equipment

CESCO American, LLC  
Mahr Metering Systems

### Stamping Machines (including Hot & Cold Stamping)

**Delta ModTech**  
**Kingsun Machinery Industrial Co.,Ltd**  
KURZ Transfer Products, LP

### Stands: Unwind & Rewind

AZCO Corp.  
CESCO American, LLC  
**CTC - A Quantum Design Product Line**  
**Davis-Standard, LLC**  
**Deacro Industries Ltd**  
Dürr Systems, Inc.  
**Elite Cameron, Inc.**  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Hudson-Sharp  
IMS TECHNOLOGIES  
Jemmco, LLC  
**KTI - A Quantum Design Product Line**  
Maxcess Intl  
MTorres Diseños Industriales  
New Era Converting Machinery  
OLBRICH GmbH

### Pinnacle Converting Equipment

Printco Industries, LLC  
**Telstar Engineering**

### Static Eliminators

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**Meech International**



**Simco-Ion**  
**Static Clean International**  
**TAKK Industries**

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**Static Clean International**

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Blower Application Company, Inc.

Randolph Tool Co., Inc.

**Tube Machinery**

AZCO Corp.

Davis-Standard, LLC

**Unwinding Machines: Center Type**

AZCO Corp.

**Catbridge Machinery**

CESCO American, LLC

**Chase Machine & Engineering**

CMD Corporation

**CTC - A Quantum Design Product Line**

**Davis-Standard, LLC**

**Deacro Industries Ltd**

**Elite Cameron, Inc.**

**Faustel Inc**

Global Equipment Intl. LLC

GOEBEL IMS – a brand of IMS TECHNOLOGIES

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Hudson-Sharp

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Jemmco, LLC

Jennerjahn Machine

**KTI - A Quantum Design Product Line**

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MTorres Diseños Industriales

New Era Converting Machinery

Nordmeccanica NA

OLBRICH GmbH

Paper Converting Machine Company (PCMC)

**Pinnacle Converting Equipment**

**Powell Engineering Inc**

Printco Industries, LLC

**Telstar Engineering**

**Totani Corp/Totani America**

**Unwinding Machines: Combination Surface Center**

**Associated Machine Design, Inc.**

**Associated Machine Design, Inc**

AZCO Corp.

**Catbridge Machinery**

CESCO American, LLC

**Chase Machine & Engineering**

CMD Corporation

**Davis-Standard, LLC**

**Elite Cameron, Inc.**

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Griff Paper & Film

Hudson-Sharp

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Jemmco, LLC

New Era Converting Machinery

OLBRICH GmbH

Paper Converting Machine Company (PCMC)

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**Powell Engineering Inc**

**Telstar Engineering**

**Unwinding Machines: Driven Brake**

AZCO Corp.

**Catbridge Machinery**

CESCO American, LLC

**Chase Machine & Engineering**

CMD Corporation

Davis-Standard, LLC

**Deacro Industries Ltd**

**Elite Cameron, Inc.**

**Faustel Inc**

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Innovative Machine Corp

Jemmco, LLC

Jennerjahn Machine

**KTI - A Quantum Design Product Line**

MTorres Diseños Industriales

New Era Converting Machinery

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**Unwinding Machines: Shafted**  
**Associated Machine Design, Inc**  
 AZCO Corp.  
**Catbridge Machinery**  
 CESCO American, LLC



**Chase Machine & Engineering**

CMD Corporation  
 Davis-Standard, LLC  
**Deacro Industries Ltd**  
**Delta ModTech**  
 Dürr Systems, Inc.  
**Elite Cameron, Inc.**  
**Faustel Inc**  
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 Jemmco, LLC  
 Jennerjahn Machine  
**KTi - A Quantum Design Product Line**  
 Martin Automatic  
 Maxcess Intl  
 New Era Converting Machinery  
 Nordmeccanica NA  
 OLBRICH GmbH  
 Paper Converting Machine Company (PCMC)  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**  
 Printco Industries, LLC  
 TECO Manufacturing LLC  
**Telstar Engineering**  
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**Unwinding Machines: Shaftless**  
**Associated Machine Design, Inc**  
 AZCO Corp.  
**Catbridge Machinery**  
 CESCO American, LLC  
 CMD Corporation  
 Davis-Standard, LLC



**Deacro Industries Ltd**

Dürr Systems, Inc.  
**Elite Cameron, Inc.**  
**Faustel Inc**  
 Global Equipment Intl. LLC  
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 Maxcess Intl  
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 Nordmeccanica NA  
 OLBRICH GmbH  
 Paper Converting Machine Company (PCMC)  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**  
**Telstar Engineering**

**Unwinding Machines: Surface**  
 AZCO Corp.  
**Catbridge Machinery**  
 CESCO American, LLC  
**Chase Machine & Engineering**  
 CMD Corporation  
 Davis-Standard, LLC  
**Elite Cameron, Inc.**

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 OLBRICH GmbH  
 Paper Converting Machine Company (PCMC)  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**  
 Pyradia Inc.  
**Telstar Engineering**

**Unwinding Machines: Turreted**  
**Associated Machine Design, Inc**  
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**Catbridge Machinery**  
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Machine design specialists  
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**Winding Machines: Combination Surface Center**

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**Catbridge Machinery**  
 CESCO American, LLC  
**Chase Machine & Engineering**  
 Davis-Standard, LLC  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
**Faustel Inc**

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Griff Paper & Film  
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Innovative Machine Corp  
Jemmco, LLC  
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New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
Paper Converting Machine Company (PCMC)  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
Voorwood

**Winding Machines: Shafted**  
ASHE Converting Equipment  
**Associated Machine Design, Inc**  
AZCO Corp.  
**Catbridge Machinery**  
CESCO American, LLC  
**Chase Machine & Engineering**  
**Deacro Industries Ltd**  
**Delta ModTech**  
**Elite Cameron, Inc.**  
**Faustel Inc**  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Griff Paper & Film  
Hudson-Sharp  
Innovative Machine Corp  
Jemmco, LLC  
Jennerjahn Machine  
Martin Automatic  
Maxcess Intl  
MTorres Diseños Industriales  
New Era Converting Machinery  
Nordmeccanica NA

OLBRICH GmbH  
Paper Converting Machine Company (PCMC)  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**  
Printco Industries, LLC  
Voorwood

**Winding Machines: Shaftless**  
ASHE Converting Equipment  
**Associated Machine Design, Inc**  
AZCO Corp.  
**Catbridge Machinery**  
**Chase Machine & Engineering**  
**Davis-Standard, LLC**  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
**Faustel Inc**  
GOEBEL IMS – a brand of IMS TECHNOLOGIES  
Griff Paper & Film  
Hudson-Sharp  
IMS TECHNOLOGIES  
Innovative Machine Corp  
Jemmco, LLC  
Jennerjahn Machine  
Martin Automatic  
Maxcess Intl  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
Paper Converting Machine Company (PCMC)  
Parkinson Technologies  
**Pinnacle Converting Equipment**  
**Powell Engineering Inc**

**Winding Machines: Surface**  
**Catbridge Machinery**

CESCO American, LLC  
**Chase Machine & Engineering**  
**Davis-Standard, LLC**  
**Deacro Industries Ltd**  
**Elite Cameron, Inc.**  
**Faustel Inc**  
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Innovative Machine Corp  
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MTorres Diseños Industriales  
New Era Converting Machinery  
Nordmeccanica NA  
OLBRICH GmbH  
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Parkinson Technologies  
**Pinnacle Converting Equipment**  
Pyradia Inc.

**Winding Machines: Traverse**  
AZCO Corp.  
**Chase Machine & Engineering**  
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**Elite Cameron, Inc.**  
Griff Paper & Film  
Hudson-Sharp  
Innovative Machine Corp  
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**Elite Cameron, Inc.**  
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 Jemmco, LLC  
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 Martin Automatic  
 MTorres Diseños Industriales  
 New Era Converting Machinery  
 Nordmeccanica NA  
 OLBRICH GmbH  
 Paper Converting Machine Company (PCMC)  
 Parkinson Technologies  
**Pinnacle Converting Equipment**  
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 Rol-Tec  
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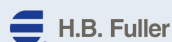
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 Pro Tapes & Specialties, Inc.  
**Sun Chemical Corp**

**Adhesives: Hot Melt**  
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 Pro Tapes & Specialties, Inc.

**Adhesives: Solventborne**  
**HB Fuller**  
 Mahr Metering Systems  
 Pro Tapes & Specialties, Inc.  
**Sun Chemical Corp**  
 tesa tape inc

**Adhesives: Solventless**



**HB Fuller**  
 Mahr Metering Systems  
 Mica Corporation  
 Pro Tapes & Specialties, Inc.  
**Sun Chemical Corp**

**Adhesives: Waterborne**  
**HB Fuller**  
 Mahr Metering Systems  
 Mica Corporation  
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**Coatings: Solventborne**

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**HB Fuller**  
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**Coatings: Waterborne**

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 Mica Corporation  
**Michelman**  
**Sun Chemical Corp**  
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**Coatings: Waterborne**

Mahr Metering Systems

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**Sun Chemical Corp**

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**Computer Software or Systems: Management Information**

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**Computer Software or Systems: Process Control**

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**Computer Software or Systems: Quality Systems**

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**Consultants: Associations**

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**Consultants: Environmental Compliance**

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**Consultants: Manufacturers Representatives/  
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**Consultants: Marketing**

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**Consultants: Trade shows**

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**Contract Converters: Clean Room**

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**Contract Converters: Coating**

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Filmquest Group  
Griff Paper & Film

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KENT ADHESIVE PRODUCTS CO.

**Kent Adhesive Products Co. dba Kapco**  
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Pro Tapes & Specialties, Inc.  
Technical Coating Intl  
**ZOi Films**

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D&K Coating Technologies**

DUNMORE  
Filmquest Group  
Griff Paper & Film  
**Kent Adhesive Products Co. dba Kapco**  
Pillar Technologies  
Polykote Corp  
QC Electronics Inc.  
Technical Coating Intl  
Westech Converting  
**ZOi Films**

**Contract Converters: Die-Cutting**

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**Kent Adhesive Products Co. dba Kapco**  
Polykote Corp  
Pro Tapes & Specialties, Inc.  
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#### **D&K Coating Technologies**

DUNMORE

Filmquest Group

Griff Paper & Film

**Kent Adhesive Products Co. dba Kapco**

Polykote Corp

Pro Tapes & Specialties, Inc.

Technical Coating Intl

**ZOi Films**

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DUNMORE

Filmquest Group

Rol-Vac

Technical Coating Intl

### **Contract Converters: Printing**

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Pro Tapes & Specialties, Inc.

Technical Coating Intl

**ZOi Films**

### **Contract Converters: Salvage/Rework**

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Filmquest Group

Griff Paper & Film

**PennPac**

**Pinnacle Converting Equipment**

Pro Tapes & Specialties, Inc.

Rol-Vac

**ZOi Films**

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Filmquest Group

Griff Paper & Film

**Pinnacle Converting Equipment**

Polykote Corp

Pro Tapes & Specialties, Inc.

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Filmquest Group

Griff Paper & Film

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Metlon Corporation

**PennPac**

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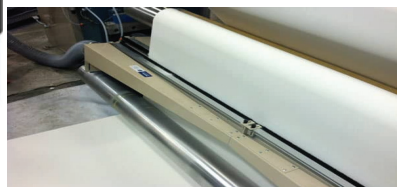
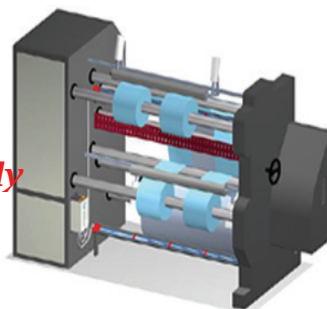
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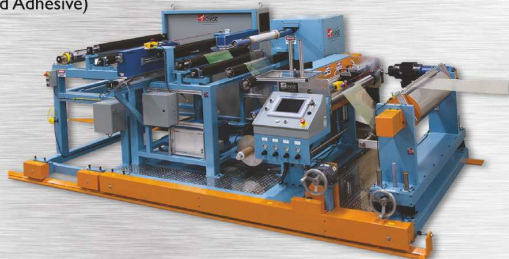


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## Women Encouraged to Submit Applications for AIMCAL Scholarship

Recipients of the AIMCAL Women in Industry Scholarship for Excellence (WISE) will be honored at the AIMCAL R2R USA Conference this fall. An application form is available on the AIMCAL website, [www.aimcal.org](http://www.aimcal.org) (click on "Resources," then select "Scholarship").

The WISE is awarded to women working in the roll-to-roll converting industry and intended to commend those who have overcome significant challenges, invested in STEM degrees and continue to make important contributions to the industry. Recipients receive funds to pay down student debt.

More donations are needed to fund an endowment for the WISE program to ensure women working in the web-converting field will continue to receive aid. A goal of \$100,000 has been set, with a Fall 2022 deadline. Levels of support include Diamond Sponsor (\$10,000+), Gold Sponsor (\$5,000), Silver Sponsor (\$1,000) and Friends of the AIMCAL Scholarship

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AIMCAL member and non-member companies and individuals are welcome to participate. Sponsors receive recognition via the AIMCAL website, social media posts and a scholarship sponsor plaque. Current sponsors include Davis-Standard, LLC; Celplast Metallized Products; Nordmeccanica Group; Intellivation LLC; and Mahlo America, Inc.

For application deadline or more information, call 803-948-9470 or email [aimcal@aimcal.org](mailto:aimcal@aimcal.org).

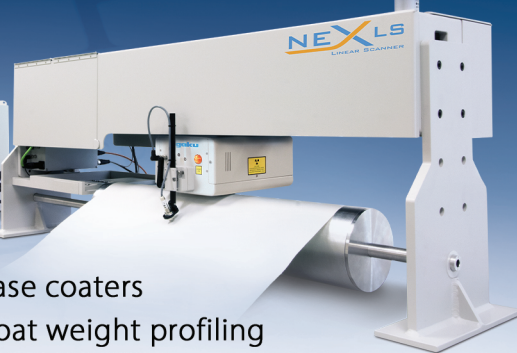
## Hybrid Online Converting School Course in October

AIMCAL Hybrid Converting School returns with Web Winding Month (October 3-28), taught by Dr. David Roisum of Finishing Technologies, Inc. The course features online presentations that may be viewed on-demand during the week plus a live Q&A session with Dr. Roisum each Friday. On the final Friday, participants may schedule private one-on-one meetings with Dr. Roisum.

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The cost per person is \$699 for AIMCAL members and \$899 for non-members. Attendees who meet all course requirements receive a Certificate of Completion. To register, visit [www.aimcal.org](http://www.aimcal.org) (click on "Education," then "Courses").

### **New Online Gravure Basics Course Available on AIMCAL Website**

The Gravure Basics course was created to familiarize newcomers to the gravure industry with the terms and components used in the gravure process. The online course is available 24/7 and is comprised of 13 videos (8.5 hours), 12 quizzes and 14 downloads.

Videos are by gravure industry experts and each is preceded by a downloadable PDF file of the PowerPoint slides used in each presentation. The first video is an overview of the gravure process and industry; it contains information that is explained in more detail in the next 12 topic-specific videos, which were recorded from a 2022 webinar series.

Q&A from the webinars is included in the videos;

adding the answers from the speakers gives relevant information. The quizzes help reinforce the information presented, and a Certificate of Completion is available for download after all course elements have been completed.

This course and gravure textbooks are available at [www.aimcal.org](http://www.aimcal.org) (click on "Resources," then pick "Products"). You also will see more technical training courses and other products that are offered by AIMCAL.

### **Join Now and Receive Pro-rated Pricing**

Apply now for AIMCAL membership and all your co-workers will gain access to an extensive array of member resources for the remainder of 2022. Prices are pro-rated for new members (if your company was not a member in 2021).

Member benefits include an individual profile for each employee, an online member "Community" forum, Ask AIMCAL business leads, access to the AIMCAL TV Network (more than 225 technical presentations), access to more than 10 years of Conference Proceed-

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### Mentor Program Connects Newcomers with Veterans

AIMCAL’s Mentor Program helps newcomers to the industry expand their knowledge and develop their careers by pairing them with industry veterans, according to expertise and interest areas. To share your experience or be matched with a mentor, sign up at [www.aimcal.org/AIMCAL/Events/2021-R2R-USA/MentorProgram.aspx](http://www.aimcal.org/AIMCAL/Events/2021-R2R-USA/MentorProgram.aspx). ■

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Our converting machines can be found in a variety of industries, including healthcare/life sciences, construction, automotive, consumer products, packaging, high-tech, energy and battery facilities. Pinnacle also incorporates “best in class” components into our machines, including inspection devices, printers, and other pioneering technologies. A sampling of Pinnacle’s technology includes high-speed,



rolled wet wipe machines for retail and commercial canister applications, and high-tech single use bio-reactor bags to wide web nonwovens and geotextiles.

Pinnacle operates as an ISO 9001:2015 certified manufacturer in our expanded facility located in Charlotte, NC.

Please feel free to contact Pinnacle and discuss your project needs or to schedule a visit. Our team of dedicated, technical experts

will help develop a project scope that configures the machine to your exact needs. For more information on Pinnacle, please contact Mark Shanahan at [mark@pinnacleconverting.com](mailto:mark@pinnacleconverting.com), visit [www.pinnacleconverting.com](http://www.pinnacleconverting.com) or call 704.376.3855.



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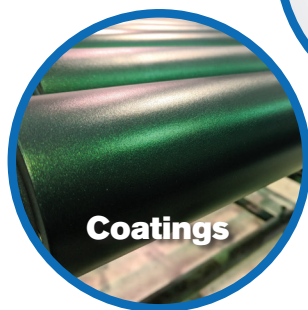
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