

THE METAL PACKAGER

In This Edition

DIGITAL
PRINTING
THE LATEST

METPACK
PRODUCT
INNOVATIONS

WOMEN
IN METAL
PACKAGING
A PROFILE



Metpack Special Edition 2023 | metalpackager.com



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PRIDE
CONVEYANCE SYSTEMS
// A ROESLEIN COMPANY

STRENGTHENING OUR GLOBAL FOOTPRINT

EXPANSION AT ROESLEIN POLAND



**TOTAL SYSTEMS
INTEGRATION**

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Join us on our stand to find out more:

- New product developments
- Extensive manufacturing capabilities
- US based tool shops
- Passion for sustainability & preserving our planet



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METPACK 2023 | 2nd - 6th May

HALL 3 | STAND 3D55

Messe Essen, Germany



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About The Metal Packager

THE METAL PACKAGER IS THE SUSTAINABLE VOICE FOR METAL PACKAGING PROFESSIONALS WHO WANT TO GROW AND EVOLVE IN AN EVER-CHANGING INDUSTRY

The Metal Packager offers the ultimate resource for metal packaging professionals in a contemporary format. Our team ensures metal packaging professionals have access to all the latest industry news and features in an easily consumable format via a mobile and tablet-friendly

Website

The Metal Packager keeps you informed on what's happening in your topics with a Weekly Update - a mix of news, features and podcasts, desktop services, social media channels, and The Metal Packaging Directory.

Whilst on the move, listen to the monthly Metal Pack Pod podcasts with the latest news and views from the industry's key players. Metal packaging being a global industry with many professionals travelling regularly, The Metal Packager offers an easy and reliable solution to keeping you up to date and in step with your travel needs.

As well as keeping subscribers informed, The Metal Packager offers numerous advertising opportunities for metal packaging companies looking to utilise the one-stop resource that is The Metal Packager portfolio.

A new feature from The Metal Packager is our dedicated job listings service. Reach over 6,000 industry professionals per month and target the right candidate within the metal packaging sector.

Who benefits?

The global metal packaging and coatings market was valued at almost \$105.5 billion in 2018. Total value is forecast to increase at 1.6% year-on-year to 2023, pushing overall value to \$114.4 billion, Mainly due to growing demand for metal packaging, and the industry's compelling and authentic environment sustainability narrative.

With many professionals travelling regularly, The Metal Packager offers an easy and reliable solution to keeping you up to date and in step with your travel needs. As a leading resource covering the whole metal packaging market, The Metal Packager is your first port of call for getting the inside track.

We cover all metal packaging issues, including aluminium foil containers and laminates, steel and tinplate packaging, metal cans, aerosols, metal caps and closures, food and beverage cans, shipping barrels and drums, metal containers, vacuum closures, metal coatings, and more.

Make The Metal Packager your go-to resource for everything you need in the industry.

Subscription Information

Subscription to The Metal Packager unlocks the following benefits:

- Access to interactive website, which is compatible with smart phone and tablet
- The latest news brought to you daily, audio and feature stories on the website
 - Live news access for desktop computers
 - Regular email bulletin
 - Full access to WhatsApp weekly news update
- The Metal Pack Pod podcast: discover insights and trends shaping the industry

For more, metalpackager.com/subscribe



METAL PACKAGER STATISTICS

SOCIAL MEDIA IMPRESSIONS

1,376,647

SOCIAL CLICKS

22,982

NUMBER OF SOCIAL FOLLOWERS

10,000+

COUNTRIES REACHED IN 2022:

183

TOTAL USERS IN 2022:

69,770

PAGE VIEWS IN 2022:

130,920

CARNAUDMETALBOX ENGINEERING

CarnaudMetalbox Engineering (CMbE) is a global manufacturer of can making machinery & tooling. The company offers technical solutions for two-piece can making and has a deep-rooted understanding of the industry, with highly skilled and experienced specialist engineers helping to meet and further enhance the needs of their customers.

CMbE now operate from multiple sites around the world, including the UK, the US and China.

Proud winners of the Queen's Award on four separate occasions, CMbE's strength in the marketplace is down to

its machine technology, professionalism, and the wide skillset of their people, including the continued development of future Canmakers through their Apprenticeship programme.

CMbE has three established regional Sales Managers covering the Americas, EMEA and Asia Pacific, a comprehensive full-time Service department is available to its customers across the globe.

The company's main head office and manufacturing facilities are based in the UK, providing the capacity needed to allow CMbE to keep up with demand and further cement their future ability to provide can makers with a full

can making solution. The Design and Development team work to continually develop new features, enhancements, and machinery to maximise can quality, production flexibility and efficiency.

US based sites include: H-V Industries, Wissota Tool and CMB Machinery, along with their American head office in Norwalk.

The company's global spares department is open 24 hours a day, operating out of their Head Office in Shipley, UK. The US spares facility, located in Norwalk, manages all enquiries out of the Americas; whilst the Chinese spares facility, located in Shanghai, China, manages all enquiries out of China.



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To find out more about new product developments, manufacturing capabilities and US based tool shops visit **HALL 3 | STAND 3D55**

KOENIG & BAUER

MetalStar 4

METPACK 2023

We're here – let's meet!

Come and visit us.
We look forward to meeting you!

 Hall 3 | Booth B39

Koenig & Bauer MetalPrint
metalprint.koenig-bauer.com

we're on it.

Koenig & Bauer's MetalStar 4 press



KOENIG & BAUER

Opening Up Individual Opportunities in Metal Decorating

We look forward to welcoming you to stand B39 in hall 3. In addition to the MetalStar 4 press and the Venturi sheet guiding system – the company strategy Exceeding Print is an important focus. This summarises our corporate goals: digitalisation, modularity and sustainability.

The MetalStar 4 press with two printing towers and MetalControl colour measurement is the showpiece. Flying sheets: the new Venturi sheet guiding system for coating lines transports the metal sheets precisely and gently on an air cushion.

DIGITALISATION

Networking machines, capturing and analysing data, and controlling processes efficiently: There are many aspects to digital transformation in the metal decorating industry. From digitalisation solutions within the individual printing and coating machines, to the digital integration of all components along a complete line or transformation of the metal decorating process. Transparent, data-driven processes are the starting point for greater efficiency and cost-effectiveness. A high level of automation minimises risks and facilitates customisation – for a future-proof production process.

With the MetalStar 4, we have incorporated numerous digital solutions that support metal decorating production. The MetalControl closed-loop colour control system measures the colour density on every single sheet and then

adjusts the inking units accordingly to achieve the desired colour result – fully automatically and perfectly tailored to metal decorating. The ErgoTronic control console exchanges all relevant production parameters with the MetalStar 4 and also shares this information with a customer management system, while LogoTronic provides for the convenient and automatic visualisation of KPIs, trends and historical production data.

In addition, the coating process is now also more digitalised than ever before. The heart of the new MetalCoat 471 is a brand new software platform enabling use of the latest technology – TIA Portal from Siemens. The robust mechanical design of the MetalCoat 471 combines perfectly with cutting-edge software and electronics. Detailed status messages from individual sensors, graphical menu guidance and wear indicators are just a few of the details that will transform work on the line.

SUSTAINABILITY

The EcoTNV and HighEcon air purification systems remain the benchmark for the energy-efficient thermal drying of metal sheets. Gas savings of up to 70% are possible with the HighEcon technology. Whether you use natural gas, LPG or LNG, and even if you are contemplating the switch to hydrogen, all options remain open with our drying ovens. We can help customers to determine the potential energy savings and the solution that is most efficient for them.

UV dryers are another energy-saving

option. The MetalCure UV dryers, which were introduced in 2015, uses traditional UV curing technology and have been installed on over 50 metal decorating presses all over the world. New in 2023 is MetalCure LED. The MetalCure LED dryers are based on UV-LED technology. This can reduce power consumption by up to 70%. UV-LED inks and coatings are available for a wide range of applications.

The energy management system VisuEnergy X follows the simple principle of “measure – visualise – realise” to display energy consumption as transparently as possible. It records and presents the energy consumption of individual consumers – even beyond the pressroom – and is thus the ideal tool to reduce energy waste.

MODULARITY

Our modular product portfolio can be matched precisely to customer demands – number of printing units, integration of a coating machine, type of drying oven, etc. This makes every line a customised, best-in-class solution and not just another mass-produced, off-the-shelf product.

Take the new inspection conveyor with 2-sided inline quality control. This mounts the print inspection and coating inspection cameras. To be able to inspect both sides, the sheet is transported partly via a magnetic and vacuum-based overhead transport system. It can be integrated into printing or coating lines at whichever position is needed. 100% inspection of the front and back before stacking is no longer a problem.





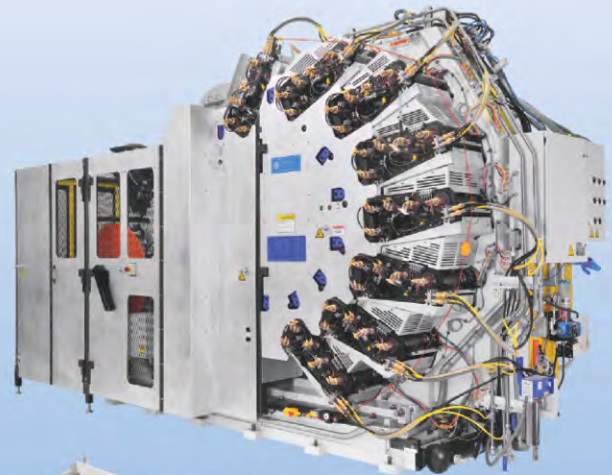
SUSTAINABLE

PRODUCTION SOLUTIONS FOR THE GLOBAL CAN INDUSTRY

- Smart Technologies
- Reduced Consumption
- Sustainable Solutions



***Be part of the future
of can making***



STOLLE MACHINERY

www.stollemachinery.com

Halle 3 Stand C47





STOLLE MACHINERY

At Metpack 2023, Stolle Machinery will be highlighting their company-wide commitment to sustainability in products, services and facilities. Stolle has made continuous advancements in designing and incorporating new productive and sustainable features that use fewer materials while reducing consumables like electricity, gas and water, as well as accommodating alternative energy sources.

Stolle will have personnel available to discuss advancements in specific systems, as well as sustainable practices in procurement, shipping, training and more.

A major exhibit in the stand will be a Concord Decorator that's equipped with demonstrations of Stolle's latest developments in Smart Decorator technology. The machine will feature Stolle Inkjector fountains which allow deco operators to remotely adjust the fountain keys from the HMI screen, saving time and increasing operator safety.

The Concord Decorator will also be demonstrating Remote Registration, an innovative system that allows deco operators to make fine adjustments to the plate cylinders from the control screen to ensure perfect registration of the label artwork.

The stand will also have on display necking and bottom reformer modules from a Stolle E-NCKR die necking system, and the new TOYO Continuous Bottom Reformer – experts will be on hand to discuss these machines.

A large range of other new technologies will be presented including, improved redraw and ram guidance systems for the Stolle Ragsdale Bodymaker, Stolle Optimus washer advancements, the new higher speed EHSL Compound End Liner, and more. Stolle will also offer a fascinating glimpse into the future in a video featuring the Stolle InSight System, a comprehensive machine management programme that helps facilities leap into the future of can production with better real time machine metrics and operational data. 

Stolle looks forward to seeing you at the show – be sure to visit our booth 3C47



COMPANY DESCRIPTION



WALLRAM will be represented with the global team on the Metpack to present the know-how of one of the most experienced providers in the area of Can Tooling and Engineering. In addition to the known range of first-class quality tooling for the production of metal packaging, a focus is on environmentally friendly solutions for re-use and refurbish of tooling and the latest developments regarding the optimal use of different materials. Whether it is about different types of carbide (including lightweight carbide) or about the use of various ceramics for tooling – WALLRAM offers the needed expertise.

The WALLRAM Group specialises in hard material applications, offering products and services for different business areas.

Our main focus is on the metal packaging industry, with production sites in Germany, Poland, US and WALLRAM Grindtec (LIZZINI Precision Grinding Machines) in Italy and WALLRAM GrindTec (Die Working Machines) in Germany.

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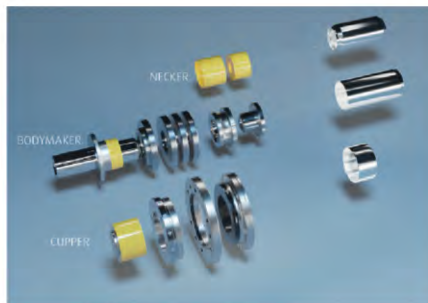
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ISO-Certification9001:2015
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PRIME CONTROLS

Metal Sensing Solutions

COMPANY DESCRIPTION

P RIME CONTROLS, Inc. is a leading developer and manufacturer of high-quality, high-speed online metal sensing and control systems for OEMs and end users in the metal packaging industry worldwide. It specialises in providing double sheet detection for sheet feeders and slitter tables,

leak detection systems for light and air testers, and is the world's supplier of press protection for high-speed, easy-open end conversion presses.

Prime Controls will be featuring its newest detection system, Eclipse Leak Detection Technology, a superior

light-based leak detection technology for cans and ends. Eclipse is 8x more sensitive than infrared and traditional light detection methods. Eclipse Technology penetrates smaller cracks more efficiently improving detection of circuitous defects. Prime Controls would

be pleased to demonstrate the system to can plant personnel and machinery makers at BOOTH 3D33 during the show.

Prime Controls, Inc., located in Dayton, Ohio USA was founded in 1992 and is committed to the development of new products with the most advanced

technology available. We value each and every one of our customers and strive to provide solutions that meet their needs.

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Web: www.primecontrols.com



ECLIPSE™

Leak Detection Technology by **PRIME CONTROLS**
Metal Sensing Solutions

FOR CAN BODIES AND ENDS

Eclipse is a superior light-based leak detection technology for cans and ends. This ultra-sensitive leak detection technology is 8x more sensitive than infrared and traditional light detection methods. Eclipse penetrates smaller cracks more efficiently improving the detection of circuitous and indirect defects.



Can Ends



Can Bodies

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ENGINEERS • MANUFACTURERS • CONSTRUCTORS

ROESLEIN & ASSOCIATES

Roeslein & Associates is the industry leader in the engineering, fabrication, and construction of canmaking plants. With more than 32 years of successful project history and over 1 million sq. ft. of manufacturing space worldwide, Roeslein continues to position itself to be regionally located across North America, South America, Europe, and Asia. Additionally, the company strives to implement the latest advances in technology and optimisation while sticking to the fundamentals it was founded upon. Using its unique approach, Roeslein can provide system upgrades for already existing plants or a total systems integration, producing an operational production facility in a fraction of the time.

Roeslein differentiates itself from competing can line integration firms by providing complete solutions for the integration of canmaking equipment, conveyance, and ancillary systems by emphasizing a unitized and preassembled execution strategy early in the project planning phase. All of Roeslein's unitised modules are precisely engineered and fabricated off-site to provide maximum integration efficiency for the greatest return on upfront capital investment. Located in Hall 3, Booth #3D49, attendees can learn how Roeslein can aid customers in productivity improvement, line expansions, and size changes; about increased product and service offerings, including its newly redesigned UV LED and a plethora of conveyance updates.

EXPANDING OPERATIONS

In 2019, Roeslein & Associates acquired MCS Technology and rebranded the operation as its Roeslein Poland facility. At the same time, the company purchased 12 acres of land to develop. After several years, construction, renovations, and expansions are complete, and a new manufacturing facility is ready to be unveiled. The renovations to the current facilities will allow Roeslein's Poland team to better organize its departments and workflow, as well as allow an increase in production capacity and the manufacturing of larger modules. Each department will also have dedicated areas to improve efficiency and streamline operations for a quicker output of units, leading to reduced project times. A new 60,000-square-foot facility was added that will be used primarily for conveyance assembly, unitising, and preassembly. New automated manufacturing and finishing equipment was

installed throughout. Over the last year, the Poland office has increased output by 74%. This expansion will aid the drastic increase in production so Roeslein can better serve its European customers.

NEW UV LED SYSTEM

Roeslein recently announced its Ultra Violet Bottom Coating System has been improved with a reliable, sustainable, and proven UV LED curing and control system update. As an alternative to microwave and arc lamp technology, UV LED technology leads to increased reliability/efficiency, lower power consumption, and an increased 70,000+ hour lamp life. The UV LED technology will not interfere with wireless networks, allowing machines and systems in close proximity to operate without interruption.

- **Reliable**
- **Increased Uptime and Speed**
- **Simplified Operation**
- **Fewer/Longer-Lasting Parts**
- **Instant On = No Warm-Up Time**
- **Sustainable**
- **Improved Safety**
- **Energy & Noise Conservation**
- **No Ozone Production**
- **Reduced Defects**
- **Proven**
- **Over 30,000 In-Production Hours**
- **Lower Total Cost of Ownership**
- **Slide-In Retrofit = Quick Install**
- **ROI Tool – Avg. < 1 Year Payback**

CONVEYANCE SYSTEMS

Research and development have been underway at Pride Conveyance Systems, known to many as the global standard for conveyance operations; Pride continues to push forward training fabrication teams across Roeslein's global operations.

Customers can now expect to receive the same standard conveyance from Red Bud, Illinois, USA; Michigan City, Indiana, USA; São Paulo, Brazil; Dębno, Poland; or Shanghai, China as they'd receive from the Hollister, California, USA conveyance headquarters.

Pride has released three updates and premiered six new items:

- **Upgraded Technology**
- **Decorator Infeed**
- **Cup Accumulation Table**
- **Washer Infeed**
- **New Technology**
- **Can Separator for Vision Inspection**
- **3D Printed Gravity Twist**
- **Wet Can Inverted C**
- **Washer Exit**
- **Can Grabber**
- **Spiral Control Logic**

LIFECYCLE SUPPORT

Roeslein's Lifecycle Support division applies a consultative approach to lifecycle management, providing value-added solutions that increase system flexibility, reliability, and efficiency. Customers can rely on Roeslein's Lifecycle Support team as a strategic partner to optimise system performance and sustain system uptimes. Roeslein is able to:

- **Provide detailed performance analysis in easy-to-read assessment reports**
- **Benchmark equipment against the original specifications and help implement an action plan for improvement**
- **Offer a single point of contact to a full line of competitively priced high-quality OEM parts backed with the application knowledge to recommend appropriate stocking levels and change out requirements**
- **Expanded technical support, including remote access, to key project documentation and troubleshooting**
- **Offer global onsite support with a customised range of services to calibrate your system and provide information to maximise uptime and efficiency.**

To learn more about Roeslein and its line of services and products, visit www.Roeslein.com



MAKING YOUR CAN WASHING PROCESS MORE SUSTAINABLE AND COST EFFICIENT



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Tel: +31651312326 **Stand:** 1 / 1B12

As a leading technology supplier, VMI is not only a machine manufacturer, but we also offer a broad spectrum of services to help our customers get the maximum out of their VMI installation.

VMI Can launches a number of retrofits that focus on minimizing the impact on the environment by taking measures to save water and energy (ISO 50001) and improve waste water quality (ISO 14001). VMI offers sustainability visits and audits where one of our highly experienced engineers visit the customer and inspect and determine the condition of the VMI equipment. After the visit, the customer receives an extensive report with maintenance recommendations, proposed spare parts and an efficiency improvement plan on energy usage.

VMI's ACOD systems are developed to reduce carry-over between the washing stations, whereas the ACOD XL is especially designed

to significantly reduce (up to 33%) water going into the dryer. The ACOD and ACOD-XL systems were developed by VMI to significantly reduce (up to 33%) the water introduced into the dryer.

These new features are not only available on new machines, but can also be retrofitted into existing equipment. This allows our customers to keep their existing equipment at best practice level throughout their lifecycle.

VMI Social Media Channels:

<https://twitter.com/vmihollandbv>

<https://nl-nl.facebook.com/vmiholland/>

https://www.instagram.com/vmi_group/

<https://nl.linkedin.com/company/vmi-holland-bv>

<https://www.youtube.com/channel/UCttDDNodF-PWFLPmjr3zQew>



METPACK 2023

**MAY 02-06, 2023
ESSEN, GERMANY**

Would you like to see how technology meets success? Join us on our booth #1B12 in Hall 1 where we can explain how all VMI Can washing and drying solutions are characterized by their low energy, water and gas consumption. Making your process not only highly cost efficient, but also contributing to a sustainable environment.

We look forward to meeting you there!

 **VMI GROUP**
vmi-can.com

**“Where
technology
meets success.”**

176.0000 °F

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- 🔍 valPure V70 sustainably advantaged
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- 🔍 valPure V70 C2C platinum rating
- 🔍 valPure V70 Safety by Design
- 🔍 valPure V70 sensory protection
- 🔍 valPure V70 excellent canmaking efficiency
- 🔍 valPure V70 robust pack performance
- 🔍 valPure V70 for all can types

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SHERWIN-WILLIAMS



At Sherwin-Williams, our packaging coatings protect and advance the design and heritage of many of the world's best-known brands. Whether your goal is to create a new package design for food, beverage or household products, meet ever-changing regulatory challenges or enhance the sustainability of a package, you can count on us to develop and deliver innovative custom coating solutions and provide the technical expertise and support you need. We are Sherwin-Williams Packaging Coatings, and we are passionate about enabling the success of your package and brand. Visit us at booth 1B26 to learn more about our complete line of coatings to help you meet technical challenges, regulatory requirements and sustainability goals of tomorrow.

The Packaging Coatings Division of Sherwin-Williams is a global leader and provider coating solutions for metal packaging with a history that dates back to the early 19th century when the first internal can lacquer was developed. Today, our packaging products touch over 200 billion food, beverage and household product containers each year. Across all our packaging solutions, the company focuses on adding value to can makers, end makers and brand owners through our technology leadership, regulatory expertise and best-in-class technical service.

Sherwin-Williams strongly supports the metal package, a highly sustainable and infinitely recyclable material. No other package type provides a longer shelf life, better preserves product quality and offers greater protection against spoilage.

Sherwin-Williams is committed to sustainable measures and strong environmental performance by:

- Investing in innovative, sustainable technologies
- Converting from solvent-based to water-based products
- Reducing volatile organic compounds (VOCs) via lower solvent usage
- Developing products with higher

solids coatings, which can potentially reduce carbon foot-print caused by energy consumption and transportation

- Continuing to support the infinite recyclability of the metal can



SAFETY BY DESIGN

The Sherwin-Williams Packaging Coatings approach to new product development – Safety by Design – includes screening of materials early in the process for regulatory and environmental compliance. Using the latest scientific methods to test for endocrine activity, toxicology and migration, materials are designed to minimise risk, preserve food safety and can integrity, and allows us to develop sustainable solutions, including new non-BPA* technologies. Sherwin-Williams has one of the broadest non-BPA product portfolios for metal packaging in the industry.

*Non-BPA - This designation indicates that the coating technology is based on polymeric components that are not derived from Bisphenol A.

COATING APPLICATIONS

- Food cans and ends
- Beverage cans and end
- Aerosol and specialty cans
- Tube & monobloc containers
- Paint cans, drums and pails

INNOVATION SPOTLIGHT

valPure V70 is a novel, innovative and high-performing coating technology which has been developed to deliver the same industry standard performance of epoxy coatings – without the use of BPA. Using Safety by Design, the V70 technology was designed to provide a safe and sustainable solution for the packaging industry and can be applied to metal packaging across the food, beverage, and household and personal care industries.

Founded in 1866, The Sherwin-Williams Company is a global leader in the manufacture, development, distribution, and sale of paints, coatings and related products to professional, industrial, commercial and retail customers.

The Sherwin-Williams Performance Coatings Group supplies a broad range of highly engineered solutions for the construction, industrial, packaging and transportation markets in more than 100 countries around the world.

Sherwin-Williams shares are traded on the New York Stock Exchange (symbol: SHW). For more information, visit www.sherwin.com.

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The TOP

4

Ways to Improve Packaging Line Uptime

In the packaging industry, we measure lines by their efficiency down to the fraction of a minute and are always on the lookout for ways in which we can make things run faster, smoother, and more effectively. Mention the word “uptime” in any packaging line conversation, and you’ll notice heads turning, people leaning in toward the discussion like magnets. Maximising uptime is the goal of any team working in packaging, but it does take expertise to perfect.

Ska Fabricating has been working on this equation for a long time for customers across the globe – here are our tried-and-true considerations to help your line achieve the next level of productivity and, yes, uptime.

Ska Fabricating is a US-based manufacturer of automated packaging line equipment for all types of container filling. We specialize in palletizers, depalletisers, repalletisers, turn-key integrated systems, rinsing, drying, automated fill level detection and rejection, and date coding products.

LESSONS LEARNED AT SKA FABRICATING

1. Ensure your equipment is scalable

If you think in terms of order-of-operations, choosing the right equipment is always going to be the first step. The mistake that many packaging companies make initially is not associating uptime with projected scale – but thinking about not only where one currently is in terms of line speed requirements, but also where a company hopes to grow in the future. Equipment that is scalable, like the Ska Fabricating lineup of depalletizers, is important to consider from both an economic standpoint as well as a growth perspective, ensuring that you’re preparing yourself and your company for the maximum flexibility possible over time.



The PLC allows for multiple container recipes/ presets to be added for ease of changeover between container types of the same material on the FHA 3000 depalletizer

2. Optimise your line controls

Implementing line controls can make a big difference in the effectiveness, productivity, and sustainability of your line. As a system integrator, we evaluate the need for line controls at the design stage and perfect it during installation. Adding necessary sensors and communication between equipment to stop and start container conveyors lengthens the life cycle of your hardware, reduces the chance of product and decoration damage, and allows you to tailor your line to any equipment requirements. Speed adjustments and custom line controls are made easy through the HMI on the line control panels.


3. Minimise changeover times

The time it takes to shift from one shape of metal container to another is a huge consideration when it comes

to line efficiency. The FHA 3000 or the FHA 5000 are two depalletizers with 20 potential container sizes of the same material type all on one control panel. With just one touch, you can adjust the levels on your machine and move right into your next run. If you have a lowerator that conveys your containers to your filler, this adjusts with a simple turn of a hand crank. The FHA 3000 and 5000 are also adjustable for pallet sizes 44x56 and 40x48, which allows for even more flexibility, which ultimately will aid your overall return on investment.

“Selecting a team that is easy to connect with is one of the most important things you can do”

4. Insist on superior equipment customer support

A team that has your back from the initial sales call all the way through your install and maintenance years down the line will ultimately ensure that your machine is running in tip-top shape and how it was envisioned. Selecting a team that is easy to connect with is one of the most important things you can do to maximise throughput and overall system efficiency. Choosing a company that is nimble and responsive reduces your time trying to get someone on the phone and instead allows you to spend that time towards forward momentum. 



The Magic Bus depalletiser has a motorized infeed/outfeed system

INTRALOX® SERIES 560

TIGHT TRANSFER SOLUTION FOR MASS CAN CONVEYANCE



ELIMINATE DEAD PLATES AND REDUCE SPOILAGE

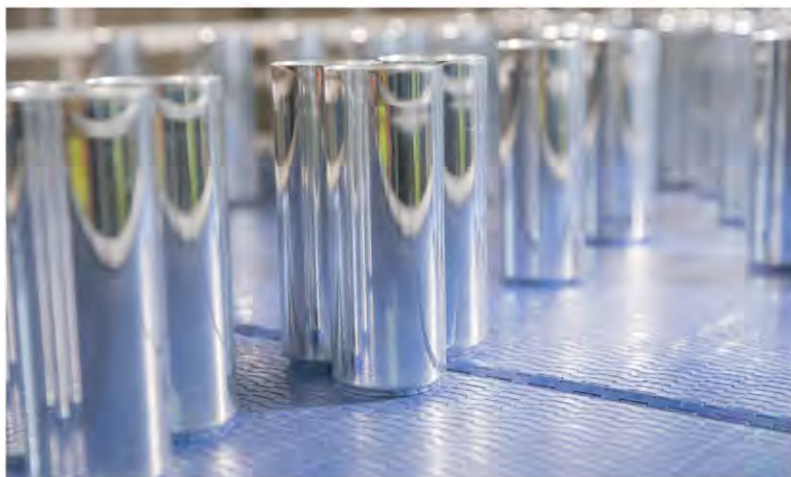
Eliminating the need for dead plate transfers, S560 belting reduces cans tipping on dead plates. Field testing has shown S560 belting lowers 12-oz sleek can spoilage by 70% compared to transfers with dead plates. It also decreases the risk of palletizing mixed labels and reduces labor needed to clear the line of stranded cans at each label change.

- **REDUCE** tipped cans and spoilage
- **PREVENT** stranded cans on dead plates
- **DECREASE** risk of palletizing mixed labels
- **ELIMINATE** time-consuming and difficult dead plate maintenance

www.intralox.com

> RELIABLY INVENTIVE

Intralox, a global leader in conveyance solutions, recently launched its newest innovation - the S560 Tight Transfer Belt. Originally designed for the food industry to convey small and delicate products like cookies, it has since revolutionized the food processing industry with its tight transfer, gentle handling and durability. Based on the success our food customers have had with the S560, we were excited to release this belt and the benefits it brings to the can manufacturing industry. The belt was tested successfully with exceptional results: by eliminating the need for dead plate transfers, the field test showed a reduction in spoilage of 12oz sleek cans by 70%.



INTRALOX INTRODUCES THE S560 TIGHT TRANSFER BELT

“The S560 had made a tremendous impact on reducing dented cans and has been maintenance free since it was installed. We have no worries on tip overs even with sleek cans. Any line would benefit from the S560”.

Devin Riley, Maintenance Supervisor at Ardagh – Olive Branch, USA

The S560 offers the following additional benefits:

- Reduction in tipped cans and spoilage
- Elimination of stranded cans on dead plates
- Reduced risk of palletizing mixed labels
- Elimination of time consuming and difficult dead plate maintenance on conveyors

“We are excited to bring yet another true problem-solving value adding product to the can making industry. Following the global success of the S9000 washer belt, having become the industry standard for can washers, Intralox is now looking to revolutionize the mass handling of cans in the back end of can making lines with the new Series 560 tight transfer belt.

“The Series 560 belt

eliminates the need for dead plates on straight running conveyors and has proven to successfully reduce spoilage in prolonged can making production environments. A game changing product, saving valuable mechanical engineering time required on can handling conveyor set ups as well increased throughput by reduction of spoilage.”

Robert Nagtzaam, Intralox Consumer Packaged Goods Team Leader

RELIABILITY

As manufacturers across the globe face supply chain issues, Intralox remains committed to keeping you up and running. We’ve built our reputation on maintaining our full-scale ability to provide resources, belting, and services around the world—regardless of supply chain challenges. We’re committed to keeping you informed of how we’re doing.

Over the last two years, Intralox has delivered more than 295,000 orders to our customers. These orders include 75,000+ belt configurations delivered with 99% on-time shipment and 99%+ accuracy.

Our capabilities and supply chain remain in excellent

shape. We continue to deliver at our normal high standards of reliability and quality. As a reminder, we offer:

- **Standard seven-day lead time**
- **Expedited services: four-hour, same-day, next-day, and three-day options**
- **99%+ service levels**
- **Industry-best expedited belt ship date guarantee of \$20,000/€20,000**

This culture of innovation and unmatched services and reliability consistently underlines Intralox’s position as the global leader in conveyance solutions and is the main reason why global can manufacturers and OEMs continue to partner with us.

OUR STORY

Intralox was founded in 1971 by J.M. Lapeyre, a mechanical engineer who saw an opportunity to improve the way conveyance systems were designed and operated. Lapeyre’s vision was to create a modular plastic conveyor belt that could be easily assembled and disassembled for cleaning, maintenance, and modification. This idea was revolutionary at the time, as most conveyance systems

were made of metal, which was heavy, difficult to clean, and prone to rust.

The first Intralox conveyor belt was launched in 1972, and it was an instant success. The modular plastic design allowed for easy customization, and the belts were much lighter and easier to clean than traditional metal belts. Intralox quickly became a leading provider of modular plastic conveyor belts, and the company continued to innovate and improve its products over the years.

With 1884 patents currently in force around the world, and 368 patents pending, the launch of the S560 belt is just the latest example of Intralox’s commitment to innovation and customer service. We have always placed a strong emphasis on research and development, investing heavily in new technologies and materials. We work closely with our customers to understand their unique needs and challenges, developing customized solutions that help them improve efficiency, reduce costs, and increase productivity. Contact us to find out how our solutions can solve the toughest challenges in any area of your plant.

www.intralox.com



American Canning:

Selling Solutions, Not Products

DAVID RACINO, co-founder and CEO at American Canning, talks to our features editor, Iris Arsie, about the company's early days starting off as a mobile canner for craft brewers to how it got where it is today



From opening its second shrink sleeve line in June this year to nearing completion of its first can manufacturing plant, it seems American Canning has found the right formula to business success.

Promising new businesses often start with something a person is passionate about – a unique product idea, or a problem that needs a solution. For David Racino and co-founder and COO Mike Daniel, the answer was a passion for craft beer.

Straight out of college in 2011, the duo spotted a market gap for craft beer to-go in Texas. As Racino explains, craft beer was becoming increasingly popular in the US, but it was not widely available in a can-packaged format. Inspired by Austin, “a friendly, outdoor town, with a river, lots of lakes, parks and live music venues”, the two set out to make craft beer more widely available in cans.

“We never had to convince a brewer or a beverage manufacturer that the aluminium can was a good vessel for the package. It was more the consumer perception of the can coming around. I think what we've seen in the last 10 years is a validation of what our hypothesis was, which is that cans are

good for the product, the environment, and they're a really good packaging option for the beverage no matter the type,” Racino says.

American Canning was one of the first companies to offer mobile canning services in the US. “We thought it was novel when we came up with the idea in 2011,” he recalls.

Fast forward and American Canning has just signed its first distribution agreement with Ball Corporation for the US market. Not only does the deal provide American Canning with more accessibility to brite cans, but also, and for the first time, it allows the Texan company to offer printed cans in single truckload increments.

The deal covers all core can sizes (12oz standard, 12oz sleek, 16oz standard and 7.5oz sleek), and includes LOE and CDL ends. It also provides American Canning with nationwide access to Ball's production facilities, as production capability and available capacity allow.

Toyo Seikan's aTULC tech

American Canning is marking its 10th anniversary with a flurry of activity on the operational side of the business.

It embarked on its expansion spree by moving to its new premises in southeast Austin in March. Occupying 154,786 square feet, the new hq is home to its first-ever can manufacturing facility, due to become operational by the end of this year, and two shrink sleeve lines, both already up and running.

With its single-line plant, American Canning is introducing aluminium Toyo Ultimate Can (aTULC) packaging to the US market. Developed by Japan's Toyo Seikan Group Holdings, the award-winning can is made from pre-coated aluminium sheet to support premium craft brands in all beverage markets. Talking about the technology behind aTULC, Racino says: “The aTULC cans that we're manufacturing are certainly premium cans. They're some of the most incredible cans that I've seen, with remarkable results when it comes to flavour absorption and shelf life.” Pre-coating also eliminates the need for water and any lubricating or washing chemicals within the manufacturing process, he adds. “The traditional D&I can is great for 98% of beverages, but what we're seeing in the ever-evolving world right now are a lot of the new beverage types. These are what we



categorise as hard-to-hold beverages. Requiring extending shelf life and giving some latitude for R&D, playing with new and innovative beverages in metal packaging.” In short, a solution for addressing these concerns comes in the shape of aTULC.

A state-of-the-art can factory, with Toyo Seikan’s aTULC technology, will support premium craft brands the plant, fitted with Stolle’s machinery, will have a production capacity of around 300 million cans annually. “We’re going to be in a pretty good shape for the summer peak demand season in 2023, as we’re allotting time for production ramp-up in the first half of the year,” he says. Explaining that an aTULC line is cheaper to build than a traditional D&I plant, Racino reveals that this project is an “eight-figure investment”, also given that it’s on “a smaller scale”.

Turning our attention to the company’s shrink sleeve lines, he says that one of the lines was moved from American Canning’s old facility, with configuring work done for a new set-up. The company first offered shrink-sleeved cans, serving as a distributor for an outside vendor, in 2017. Two years later, it bought its own equipment and

vertically integrated the decoration option. The second line, launched in June this year as part of the operations expansion plan, was done on schedule, hitting “our capacity goal”, Racino says. This goal was to increase production to approximately 1.5 million cans per week.

“We completed the line design and integration ourselves. The de-palletiser and palletiser are by Ska Fabricating, the shrink sleeve applicator by Axon, and the heat tunnels from Aesus Systems.”

With metal packaging becoming poster child for sustainability, it witnessed a strong increase in demand, most notably in beverage cans, during this time. But meeting this demand was one of the challenges of the Covid crises.

Racino elaborates on the situation: “All on premises beverage consumption went to nothing. It exponentially increased the demand for cans overnight at the time of year when inventories are typically at their lowest coming out of the winter months.

“There was a challenge with the supply chain of cans. When big soft drink companies and breweries need more cans, it makes sense that they get the lion’s share of any increase in capacity from can manufacturers. Our

position for two years – in 2020 and 2021 – was that we were scrapping for cans in any corner of the globe to supply craft beverage companies in the US because otherwise they would have no sales channel or revenue for their product.

“Some thought there was an aluminium shortage during this time, but that was not the problem. It was the line time. Aluminium had to get to rolling mills to turn into can sheet and then can sheet had to get to can manufacturers to turn into can bodies. This takes time, and time which nobody had because no one had notice that everything was shutting down.”

For American Canning, the Covid crises presented additional opportunity in their machine manufacturing division. Seizing the opportunity to serve beverage makers suddenly forced into ‘to-go packaging’ for the first time, they developed a one-head filler/seamer in 2020. “We launched a low-cost, easy-to-operate, 6 to 12 can per minute, one-head filler that we could get into the hands of everybody that needed one, so they could continue to sell their product at the time when they could not allow people into their facility to buy it.

“Designing and building a filler to allow customers to service themselves was our solution to that the shutdowns. This is today our best-selling product as far as our equipment and machines division goes,” Racino adds.

New heights with e-commerce

Before the pandemic, Racino and Daniel were faced with a rising demand for cans from small and medium-sized breweries in the US. Embracing another ambitious strategy for growth, they launched its e-commerce website in early 2018.

The move enabled American Canning to act as a middleman between large aluminium can manufacturers and craft beverage companies that were too small to order directly. “Aluminium cans were historically built for very large producers, which meant that smaller upstarts and emerging companies didn’t really know how to interface with can manufacturers,” explains Racino.

Describing it as an “inflection point”, he illustrates the success of its online store: “We ended 2017 with around 50 customers. Since 2018, we’ve worked with more than 6,300 beverage producers globally, most of them in the US.”



CPM PACKAGING

CPM Packaging Group, comprising **Greenbank Technology & Proline Engineering**, specialises in the design and manufacture of canmaking equipment and conveying. Founded in 1954, **Greenbank Technology** supplies an integrated package to prepare aluminium beverage cans for decorating and curing following the cup and body making processes. Our product offering includes: Can Washers & Dryers, Internal Bake Ovens and Pin Ovens.

Founded in 1996, **Proline Engineering** supplies bespoke can handling conveying systems. Our product offering includes: Air conveying, Mechanical conveying, Vacuum Transfer Units, Gravity Sweeps, Combiners, Air Tracks and Inspection Conveyors.

As a group, we work closely with our customers at every stage of their project, from engineering design, fabrication and assembly, through to installation, commissioning and servicing. We have heavily invested in R&D to develop our products, specifically targeting energy

reduction and efficiency. We understand the importance of maintaining your machinery to ensure efficient, safe, and cost-effective operations. Our dedicated aftermarket department are available to help you plan maintenance activities and manage your spare parts stock. Our team of skilled engineers are deployed worldwide and have many years of on-site experience.

PRODUCTS

Our **Internal Bake Oven** is designed and manufactured with the collective goal of reducing energy consumption. Front and rear capture zones ensure no fume spillage providing an environmentally friendly workplace. Three customisable zones automatically accommodate a range of lacquers and can sizes.

The innovative design of our **Omega Pin Oven** nozzle and high efficiency burners means heat is efficiently transferred to the can, lowering overall running costs and minimising energy usage.

The **Torrent Can Washer** features a highly effective semi closed loop blow off system and belt vacuum system. Costs

are kept to a minimum with unrivalled water usage thanks to our counterflow design. This combines with our **Tornado Washer Dryer** which includes automatic height adjustment at the press of a button, and a vacuum suction system to ensure can stability.

All of our **Proline Conveying and Can Handling** is manufactured in-house, meaning we are in control of every stage of the manufacturing process, and can ensure all products are of the highest quality and delivered on time.

Our **Mass Mechanical Conveying** is tailored to suit specific factory layouts and ensure maximum productivity and efficiency. We also offer Mass Air conveying which is perfect for single filing cans to feed process machines at maximum speed. Cans are transported on both the base and cut edge, reducing spoilage and increasing line efficiency by utilising the whole conveyor width.

Unlike our competitors, Proline's **Gravity Sweeps** are manufactured by a dedicated team who pre-fit the sweeps before dispatch to site, making on-site installation much quicker and easier.

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 **GREENBANK
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BUNTING

Bunting, formerly Bunting Magnetics Co., was first founded in 1959 in Chicago, Illinois. Some of the first equipment manufactured were magnetic conveyors for the steel can industry and large printing cylinders for the RR Donnelley's printing locations in Chicago.

In 1979, Bunting moved its headquarters to Newton, Kansas. Diversification into many different industries helped insulate the company from domestic and global recessions and acquisitions allowed it to grow into the international manufacturer that it is today.

In 2020, supply chain issues crippled many manufacturers. At that time, Bunting began looking at which industries offered opportunities for growth. It was determined that the 2-piece and 3-piece can industries could result in incremental sales and automation held the key to that success. After all, the 2-piece beverage can industry is highly automated, so why wouldn't the industry's suppliers also become highly automated?

Late in 2021, Bunting decided to expand its manufacturing capacity for the decorator cylinders. The potential for growth by offering decorator shafts and a



wide range of tapered bore cylinders not currently offered was seen as a tremendous opportunity for long-term growth.

The automation started with the acquisition of two new 7-axis mill/turn machines from Mazak. Additionally, Bunting bought two new CNC ID/OD Grinders from Kellenberger. Automating the loading and unloading of the mills and grinders was tasked to Advanced Product Engineering. Additional CNC equipment and custom-designed automated assembly equipment for installing the magnets and pole pieces into the cylinders was ordered, to keep flow-through capacity at a maximum.


No automated plant is complete without a well-designed and documented quality control (QC) process. To streamline the measurements required for 100% inspection of its cylinder production, Bunting sought what nearby Wichita-based aircraft manufacturing was using for QC

inspection. It was soon discovered however, that aircraft manufacturers do not produce components with the 2-micron tolerances required by the printing industry. In fact, some in the aircraft industry did not believe any industry, except perhaps automotive, would need such tight tolerances. Then in mid-2022 Keyence, one of the top names in CMM Measuring Equipment, introduced a new coordinate measuring system with a hand-held probe that relayed 3-D positioning back to a computer. More importantly, Keyence introduced a model capable of measuring the 2-micron tolerance required in the printing industry. The Keyence CMM that Bunting acquired is capable of measuring both ID and OD bores, even ID bores on angles and tapers. It automatically records every measurement in a file linked to a specific serial number.

Bunting has been aggressively getting the equipment in place and the personnel trained to bring online its new Manufacturing Center for Magnetic Decorating Cylinders. Many of the new products will be on display at the Bunting Stand 3D40 at MetPack™. When fully operational, the new facility will have the capacity to manufacture 100% of the 2-piece can industry's requirements for decorator cylinders and most decorator shafts, for several decades. 

The global beverage can industry is growing. SO ARE WE!

MANUFACTURING
CENTER FOR
MAGNETIC
DECORATING
CYLINDERS

 BUNTING

**MET
PACK®**
Hall 3
Stand D40

To meet the increasing demand, Bunting made a major investment by opening a new facility exclusively for its 2-piece can decorating cylinders operation. Online in 2023, the Bunting Manufacturing Center for Magnetic Decorator Cylinders is a highly automated facility with the capacity to meet the global demand for decorator cylinders and shafts for the next few decades.

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Aerosol Cans: Eco-Friendly Innovation & Design

We asked some of the leading manufacturers in the aerosol cans market to tell us about their latest innovations in packaging. Not surprisingly, pro-environmental practices continue to feature high on the list.



Energy and resource efficiency, with the demand for post-consumer recycled (PCR) material outweighing supply, remain some of the high-priority themes for businesses in providing innovative and eye-catching packaging and can designs. The increasing need for digital technology and automation is added to the mix.

KARIN SWAIN

ASSISTANT TO MANAGING DIRECTOR/PR AT TUBEX AEROSOL CANS

All companies need to monitor what they can do to use less energy and resources. Also, the European Commission (EC) has launched the European Green Deal 2050, which focuses on the circular economy and sets a framework for achieving climate neutrality.

Sustainability has a long tradition with aluminium aerosol can manufacturer Tubex. But our sustainability strategy is slightly different to other packaging manufacturers. A challenge for the packaging industry – as for all other industries – is to secure enough PCR material

for the production of aerosol cans. The demand for recycled aluminium is seven times higher than that on offer which means recycled material is scarce.

In search for a secure supply of recycled aluminium, Tubex has partnered exclusively with PreZero Pyral, a German-based recycling household waste specialist. With its state-of-the-art, patented machines and innovative processes like pyrolysis, aluminium is sorted at the site based on quality. PreZero's complex and sophisticated sorting process ensures that high-grade aluminium isn't mixed with lower quality of aluminium. In fact, this solution allows a closed-loop system at its best.

As the composition of alloy is very complex and aerosol cans must meet safety regulations – Neucan 3.1 was

developed and patented. It's designed to hold up to 60% of real PCR material, with further development underway to enable more than 60% of real PCR to be used in the future. Tubex, PreZero Pyral and Neuman have set up a functioning cycle of recycling aluminium material from household waste and already meet the European Green Deal's goal of circular economy, with plans to intensify their work.

Our sustainability strategy doesn't stop here. It covers printing ink and lacquers, with various options to choose from. So, what's on offer? Neucan 3.1 is already introduced – that the aluminium aerosol can is lighter than a can made with 99.5% aluminium is a known fact.

Alloys are harder than 99.5% aluminium, so the walls and base can be thinner and still meet the specification of an aerosol can.

Internal powder coating has no volatile organic compounds (VOC) and therefore has a sustainable advantage to a standard internal lacquer. Tubex substituted lacquers containing N-Methylpyrrolidone (NMP) over five years ago when very first discussions





came up. Also substitutes for lacquers containing bisphenol A (BPA) are available to meet the sustainability strategy of the brands. The research in lacquers will continue steadily.

A sustainable decoration is available with natural inks – so far exclusive for Tubex aluminium cans. These inks are made up of renewable resources and are completely free of mineral oil-based ingredients – but also free of palm-coconut and soybean oil. Currently a water-based over varnish completes the sustainable possibility for aerosol cans.

The next logical step in natural inks is to develop a natural over varnish. Tubex and partner PURE work on an over varnish based on natural and biodegradable ingredients. It looks promising – but many more trials and tests are ahead until commercial production. As a side note, a developer at PURE actually ate a very small portion (fingertip) of the over



varnish. While the taste still needs to be improved, he had no health issues at all. In fact, most of the ingredients of this over varnish have food grade.

A current development in decoration is the Foil2can aerosol can. This is the first can that displays inline-FOILING (which is based on cold foil) combined with matt and high gloss design elements. An advantage of the inline-FOILING is that it can be easily overprinted with silkscreen and matt spot decoration in one machine pass. The development of this new printing technique opens new opportunities in design possibilities. Tubex has partnered with ISIMAT GmbH Siebdruckmaschinen

to develop this revolutionary new decoration for aerosol cans, which offers new design opportunities not feasible before. Besides the challenge of volatile energy prices there are many exciting opportunities in 2023.

MARK GOJKOVICH

GRAPHICS MANAGER AT CROWN
MIDWEST GRAPHICS

With over 16 billion aerosol cans being produced globally each year, one of the core elements of focus for our customers is how best to stand out from competitors across the retail spectrum. Appealing to consumers at point of purchase



is fundamental. Whether a brand is reimagining the look of an existing product or launching something new to the market, it's vital to engage with an expert design partner that understands the possibilities of the packaging substrate.

For aerosol containers metal remains the preferred material. Its durability and infinite recyclability make it perfect to deliver both functionality and sustainability. Whether a customer selects a straight wall or a necked-in can, they have a 360-degree canvas to work with to deliver impactful designs and messaging to their target audience.

Personal care remains a core driver in the market globally, and we recently helped to develop an award-winning design in this segment using Crown's 3.4oz Body Spray can. Spirit Spritzer is a new product conceptualised by 18.21 Man Made. Our Midwest Graphics team, based in Illinois, US, worked directly

“A current development in decoration is the Foil2can aerosol can. This is the first can that displays inline-FOILING”

▶ with the co-founder to help them achieve the exact look they wanted with creative design ideas, printing an oversize coat tinsplate for a metallic premium look.

Crown successfully guided the customer's graphics journey from concept to a detail printed metallic finished can. Through our print production process, we were able to hold the fine detail such as the banner seals, and the solid background with screened design imagery, creating a standout appearance. The finished product was recognised with a Bronze Award in the Aerosols category at the recent Canmaker Awards.

Awards aside, and we always appreciate them of course, Crown measures success by the individualised service and attention we give each of our customers, and the quality of the final product. We take pride in what we can achieve for customers looking for an aerosol can, promotional tin, or cap with a standout design, and through working a modern digital facility with the latest software, equipment, and technology available in the pre-press industry for graphics and print production, we look forward to maintaining that ethos in 2023 and beyond.

JOÃO FILIPE ABREU

COMMERCIAL & MARKETING DIRECTOR, COLEP PACKAGING

Colep Packaging, a RAR Group company, is one of the most important players in the European aerosol market and the Iberian leader in general line packaging. With over 50 years of experience in metal and plastic packaging it's positioned as a global partner in the development, production and trading of packaging solutions.

The Covid pandemic, the war in Ukraine and further supply chain disruptions have created new paradigms and companies are expected to move and adapt fast, while meeting the needs and concerns of customers and other stakeholders. Colep Packaging is committed to ensuring a high level of service and reliability towards its partners despite these disruptions. In the near future, we believe that the following macro trends will be fundamental for the industry: environmental concerns, material consumption reduction and automation.

“Environment will be at the core of brand owners’ focus and consumer choices”

Environmental concerns

Environment will be at the core of brand owners’ focus and consumer choices, who are more and more selective in which products they buy, influenced by tax incentives, with impacts the types of packaging used. At Colep Packaging, we know that packaging plays an important role in reinforcing sustainability, and our strategy and activities consider an approach respecting the planet and caring for people. This enables us to prepare the future of our business, focusing our attention on what matters most.

Our roadmap towards a more sustainable business starts at the design phase, embedding sustainability at the core of our product development, as we believe this is the stage where solutions have the greatest business potential as well as environmental and social impact. Improving and optimising existing products, processes, equipment and infrastructure is top of mind for our company, especially when it comes to carbon footprint and energy consumption. With sustainability being such a complex and global challenge, a systemic approach is needed to respond to it. Our roadmap fosters the interaction with the outside world, considering all stakeholders.

Material consumption reduction

We're always concerned with optimising material consumption to make it recyclable and reusable, ensuring it's a better fit for the future. Along with its positive financial impact, it's critical to become less dependent on raw materials while achieving sustainability goals.

The scarcity of materials

is a global concern and Colep Packaging is addressing it with the implementation of significant changes to our products, including our material reduction programme “Light Weight Can” (LWC): packaging solutions with optimised material utilisation, resulting in a weight reduction of up to 39% in aerosol cans. With this development, less material is used, logistics processes are more efficient, and the carbon footprint is reduced by up to 17%.

The new RL closing system reflects our concern with both sustainability topics as well as with customer and consumer's needs. This solution aims to have a better environmental performance by eliminating what's not needed and doesn't add value leading to a material consumption reduction and, consequently, cutting carbon emissions by up 11%.

Automation is one of the strategic topics on our agenda, as it will be increasingly critical to grow our business, especially when the industry is facing

labour shortages. We believe that automation improves

employee productivity and efficiency and plays a key role when it comes to remaining competitive without sacrificing customer satisfaction. With this in mind, Colep Packaging's vision is to work towards automation and digitalisation aimed at increasing production output.

With the confidence that our company plays an important role in pursuing solutions that benefit people and planet, we're fully committed to finding new and more sustainable packaging solutions and overcoming the challenges the world is facing. Because we believe that the world can be more sustainable with packaging than without it.



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We have been shipping can lines worldwide since the mid-1980s.



We have been leading the way in Logistics since 1833. Our other services include; 3PL & 4PL Services, Freight Forwarding, Warehousing & Distribution and Digital Solutions





CHRIS MCKENZIE OF TOLAG PTY LTD, examines what has changed since the last Metpack show six years ago.

The Fog

A brief look at the changing landscape after Covid

Here we all are in 2023 about to embark on the first Metpack show since 2017. The show was, as always, magnificent, and full of old and new friends, some who have sadly passed away. The show was cancelled in 2020 due to the global pandemic, as was all the physical shows for the period, with a few bravely trialing virtual shows.

The pandemic and working from home had varied affects on the industry – I personally remember embracing technology and expressing that the Zoom utopia would allow reduced travel and increased engagement with customers, friends, suppliers and global offices. The technology, as the global shutdown stretched not through months but years, became more of a burden than a saviour, with us all indeed engaging but so much that we couldn't get any physical work done, this in turn raised anxiety and indeed participant ire.

There were days where meetings would start at 5am for the US audience progressing through the day for Asia culminating in late evening meetings for Europe, Africa and the Middle East. This was one step further than the already trapped structure we have grown into over the past 2 decades with fax, phone calls and telegrams in the day hours to the ever invasive office in our laptops and "smart" phones.

I remember being told at an early part of this change in our use of digital technology that computers were there to be tools and should not reduce personal contact. Sadly, like an Asimov Novel, we are now the controlled. These perpetual meetings showed no mercy with no escape ultimately resulted in many industries, ours included, at a time when many were looking to expand suffering the all too common and ubiquitous 'Great Resignation' with many that did not leave suffering from depression and anxiety issues. There was Long Covid issues to deal with.

My team and I had Covid-19 twice, once at the end of 2019 which was severe but inexplicable at that time, thus being put down as a severe flu, and again in 2022 mildly. During 2021 and 2022 I started having inexplicable health issues – severe fatigue, breathing difficulty, some loss of memory – while complicated scenarios and engineering criteria were always mindful sometimes simple words escaped me. This coupled with Covid weight gain through lack of physical activity due to a more sedentary work regime and the constant lockdowns making the work more difficult than normal. I did recover fully and started my travel schedule again to The US in December 2021 and January 2022 followed by months of travel to the Middle East, Europe and of course Asia Pacific. I was eager to see friends

and colleagues – I have always maintained that customers should be friends. When I was younger, I had a customer in the defence industry who said to me that he saw technical support people daily. He chose skill first and then the amiability of the character next – life was too short to deal daily with problem visitors he said. I have kept that on board for my long career.

While travelling through the EU in early 2023, I was visiting dear friends in Poland. During a meeting one of the directors without any prompting by me went through the horrible symptoms suffered throughout their company. This was a pivotal moment for me because they mirrored those I had been suffering. I had been reticent to discuss with anyone my symptoms as my generation were raised to not complain and keep on going. How many of us still feel that they have had these symptoms of Long Covid?

Since leaving the corporate world and a refocus on our own business, TOLAG, I took time out to spend time with family, restart my physical training and go back to a healthier diet. The lack of stress, a hard training plan and better diet has me back to a pre-Covid weight and health. We should all be wary of looking too much in the future. The global situation of pandemics, climate change, wars and geopolitical tensions require us all to be at the height of our game, not watching from the sidelines.

In 2022 I was lucky enough to join all the metal packaging shows – they were abuzz with exhibitors and delegates,

energy, excitement, and direction. The years of being apart did not move the industry to virtual engagement as expected – it reminded us of the importance of face-to-face involvement, being able to discuss, problem solve, finalise in a meeting instead of over many virtual discussions where decisions were put off.

Metpack will be a monumental success this year for these very reasons. The Great Resignation and realisation that the global working population have now decided that stress, travel, traffic jams, and unhappiness does not have to continue has already and will continue to expand the industry skill and supplier base. This is a positive time for all.

The Great Resignation should be renamed the Great Realisation...

“It reminded us of the importance of face to face involvement, being able to discuss problems, finalise in a meeting instead of over virtual discussions where decisions were put off”

Chris McKenzie is Technical Director of Tolag Pty Ltd. The company offers a wide range of consultancy solutions for the metal packaging industry. You can reach Chris on: chris_mckenzie1@msn.com

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MESSE
ESSEN



ANDY DORAN explains why public opinion is changing when it comes to the circular economy and why 2023 will prove a transformational year for the packaging and recycling sectors.

Why 2023 will be a transformational year

Tell us a little more about your career to date – where did it all start, what were the highlights and why? Having worked in recycling and sustainability for more than 30 years, I've seen the industry grow, develop and thrive. I first worked in local and central government before taking up a role with the UK's Department for Environment Food & Rural Affairs (Defra). In 2006, I moved to Novelis – the world's largest aluminium recycler – and recently celebrated my 16th anniversary with the business.

During this time, I've enjoyed countless highlights. From discussing legislative change with recycling ministers and opening world-leading facilities to seeing the aluminium beverage can recycling rate surpass 80%, there's never a dull moment! Through it all, I've thoroughly enjoyed continuing to play a leading role in driving Europe's booming aluminium sector.

Have you seen public perceptions dramatically change towards packaging materials during this time? When it comes to aluminium, perceptions haven't changed much. It remains a hugely popular material of choice for both manufacturers and consumers, renowned for its infinite recyclability and superior properties. However, what I've seen change is public perception when it comes to the importance of recycling – as well as consumer pushback when it comes to single-use materials.

The sector has been impacted greatly by what many are calling the 'Blue Planet effect'. The sheer scale of our global plastic challenge highlighted by Sir David Attenborough is redefining how people think about packaging. The aluminium sector is benefitting in result – with consumers recycling more and the supply chain prioritising infinitely recyclable aluminium above other packaging materials.

What have been the major drivers for this? Government communication and legislation? Communication and education have proven pivotal to both raising awareness of material recyclability, as well as the importance of recycling used packaging. This messaging has come from various sources across the supply chain, including the pioneering work of Alupro and its countless

initiatives – Every Can Counts and MetalMatters, to name but a few.

As the UK strives to further increase recycling rates, education will prove paramount to accelerating traction and providing access to the harder-to-reach fractions. Communication and incentivisation remain key.

Why did you decide to take up the chair position at Alupro? What does the role entail? I've been a board member of Alupro since 2006 and have watched the team grow and flourish. Taking up the chair role gives me the opportunity to further share my leadership, advice, knowledge and support with the hugely talented Alupro team. It also reflects the future vision of Novelis and our strong presence in the UK.

What are your key predictions for the aluminium packaging sector in 2023? Will there be hurdles for the industry to overcome as well? It's fair to say that most businesses have experienced a challenging time over the past few years. Hopefully, however, we're coming to the end of the tunnel and have seen the worst of the Covid-19 pandemic. In 2023, I expect demand for aluminium packaging to remain high, consumption levels to continue and recycling rates to remain strong.

There are obviously bumps in the road to overcome regarding data and reporting, but I see 2023 as a springboard for the future. With new legislation looming, there's a huge opportunity when it comes to aluminium packaging recycling, but well-designed systems are paramount to make it 'stick'.

Will we ever see aluminium packaging recycling rates reach 100% (or as close to as feasibly possible)? What would help us to achieve this? Aluminium packaging recycling has come a long way since I started out in the sector. Personally, I believe that the UK is on a robust path when it comes to further improvement and, with better infrastructure, education and incentives, could reach the levels seen in some of the world's most high-performing countries.

For example, with an end of life collection rate of almost 99% (2021), Brazil sets the standards in aluminium can recycling, as well as being the world's third largest market by volume. If it's possible in Brazil, why wouldn't it be possible in the UK? 

Andy Doran, senior manager, sustainability & recycling development at Novelis Europe, was appointed chairman of Alupro, the aluminium packaging recycling organisation in the UK

“The sector has been impacted greatly by what many are calling the 'Blue Planet effect'”



THE BOXER SC-BBM-B24 Bodymaker

SLAC GROUP INNOVATIONS

Metpack Hall 3 Booth 3D59

S LAC will be showcasing its new **BOXER SC-BBM-B24 bodymaker**. This utilises a dual infeed and discharge. The design guarantees continuous, stable and high precision can making. Speed is up to 350spm (700 cans per minute). The stroke length is 610mm and can produce two-piece can bodies with height up to 182mm and diameter 202 to 300.

MAIN FEATURES:

- Low vibration: up to ten times less than conventional bodymakers
- Contra power drive. Rams operate in opposite directions counteracting horizontal vibration and creating near perfect dynamic balance.
- Two reciprocating rams on a single flywheel with toolpacks at both ends. Driven by a single motor and crankshaft.
- Fully balanced design gives best stability and highest precision.
- 700 cans per minute
- Requires less floor space than 2 conventional machines.
- Simple mechanism requires less maintenance and easy access.
- Energy consumption per can produced up to

40% less.

- Servo drive infeed and discharge
- SLAC dome system compatible with Pride system.
- Compatible with all brands of trimmers.
- SLAC system has one reverse trimmer to shorten cross conveyor and improve can transfer.
- Equipment monitoring and management system allowing remote access and production data analysis.

CAN VACUUM TESTER

This machine is ideally installed directly in production lines. It has an extremely simple operating principle for the total elimination of defective cans (pin holes, dented flanges, cracked welds etc.)

FEATURES INCLUDE:

- Standard vacuum pressure is applied to cans and those found faulty will be automatically rejected.
- Can height can be set with simple adjustments in about 5 minutes.
- Changeover of diameter is also possible by means of tool kits (setting in 50 minutes).
- The infeed belt with screw feeds cans to the rotary testing unit with 20, 40 or 52 heads.
- As each head completes a full revolution, it depressurizes the can being tested to a standard pressure value. Any variations detected in this depressurization mean there is a leak in the can, so the machine produces an electronic signal or ejects the can. Afterwards the good cans are reinserted in the production line.
- The machine is equipped with a special pneumoelectronic transducer unit for detecting microholes.
- This device displays on the electronic board the number of the pockets in which a defect has been found. Set up is done automatically using a special soft key installed on the same panel.
- The control panel controls and monitors the various operating phases of the machine, providing a rapid set-up of reference parameters and display of the current pressure values and reject counts for each rotary head.



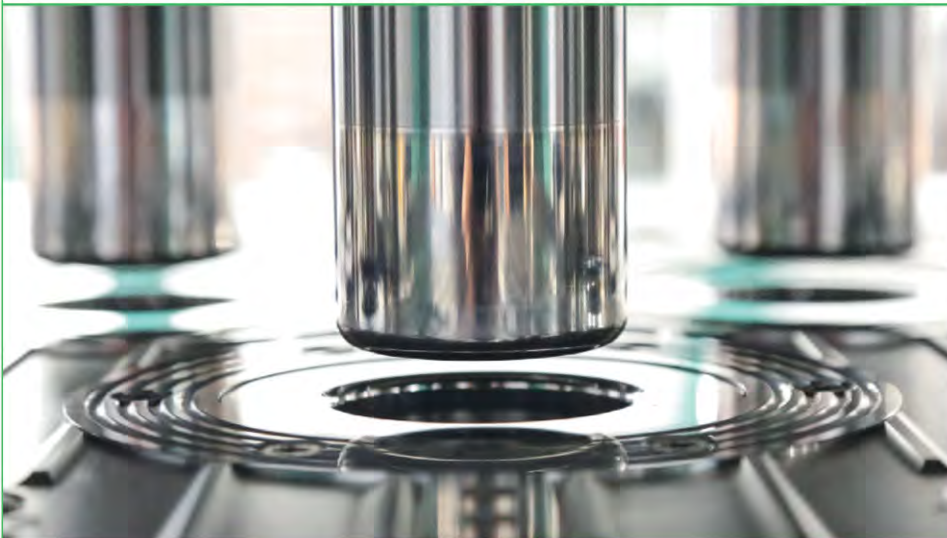
Can Vacuum Tester

New innovation



Hinterkopf

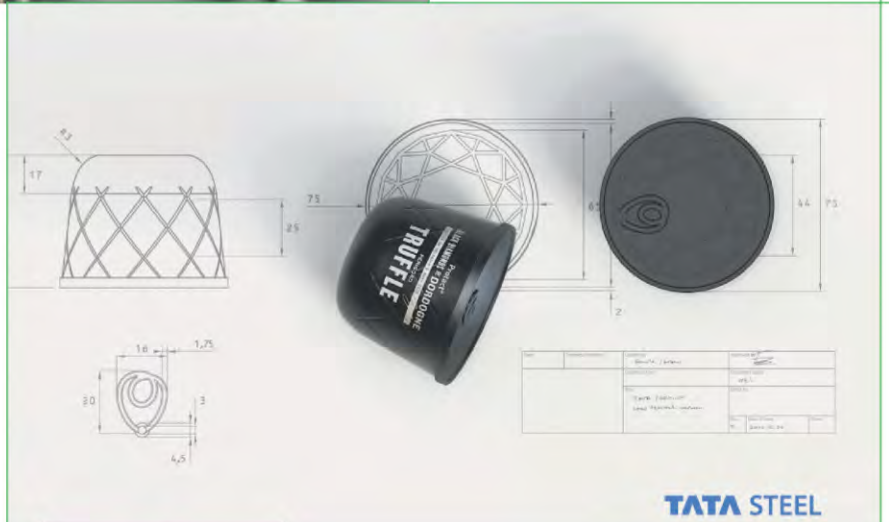
The brand new D360.3 is even more advanced, comes with additional improvements and provides higher output. The newcomer is a remarkable trailblazer in many aspects. With up to 12 colour decoration, the D360.3 digital printer decorates lip-stick sleeves in perfect quality, virtually eliminates waste and offers the maximum productivity from the very first product.



FSG Tool and Die

FSG Tool and Die is a designer, manufacturer and installer of press tools; tool systems for aluminium can and can-end manufacturing; thermoforming tooling; plastic injection moulds; and aluminium foil container press moulding tooling. The tooling is used in a diverse range of applications in industries including packaging.

The focus for FSG at this year's METPACK is bespoke new tooling and the rebuild and servicing of existing tooling for a wide range of presses. For over 40 years, FSG has developed their tooling to meet increasingly challenging applications with reduced material thicknesses and ever-tightening tolerances. This includes developing copper tools for canning and battery containers; easy-open end systems; DRD can systems; and end lines. The FSG tools are used on presses built by leading manufacturers including Schuler, Minster, Heilbronn, Metal Box 314 and Automator MB20.



Tata Steel

At Metpack 2023, Tata Steel invites canmakers to explore futureproof steel packaging including Protact, polymer laminated, food-safe steel for efficient canmaking. Also on-stand TCCT a sustainable, food-safe replacement for conventional tin-free packaging steel. And finally, Zeremis (NL) / Optemis (UK) Carbon Lite a certificate-based, low carbon emission steel with more than 90% reduction in CO2 intensity through a certificate based, mass balanced proposition.



Confidence in Growth Prospects

On 1 April, BRYCE KRISTO assumed leadership of INX International as President and CEO after John Hrdlick officially retired. Kristo outlines the state of play in the metal decorating industry

Bryce Kristo resume is loaded with experience and success stories. He's been with INX since 1991, having served as Hrdlick's right hand man since being promoted to Executive Vice President in 2018. Here he explains his journey and his expectations for the future. I am a native of Illinois and have lived in suburban Chicago most of my life. I attended the University of Illinois in downstate Champaign and DePaul University in Chicago, earning my MBA in Business Administration and Marketing. I was working in public accounting at KPMG when I learned about the formation of INX. It's been an interesting ride the last 32 years.

I began as an internal auditor and at each and every step up the ladder, I've absorbed and learned more about the INX culture. After becoming VP of Finance in 1999, I became VP and CFO in 2004 and became Senior VP, Finance/CEO in 2010. Following this I became Executive VP, CFO and General Affairs prior to being promoted to Executive Vice President.

After years of planning, execution and strategic investments for IMX has paid off. Many of our international investments came from acquisition efforts that I led. I have already started visiting our US facilities and recently spent time with the South American team in Brazil and Colombia.

Bryce Kristo, new CEO and President





My goal is getting to better know the voice of our customers and build trust with our stakeholders, which has always been a great strength of INX's senior leadership.

Our goals for the remainder of 2023 are focused on the same values INX has spent years on developing.

We will continue to provide high quality products and services that makes working with us easy and valuable. Some of our more recent efforts include color management where we still have some fresh ideas that need to be perfected. We accept our market leadership role and continuously seek ways to use our knowledge to help the market ecosystem. This includes efforts for brand owners, designers and the can makers.

EDUCATION IS PARAMOUNT

Educating customers remains a top priority, citing the success of the highly popular INX Color Perfection programme.

INX Color Perfection is in line with our efforts to make the overall customer experience easy and more

predictable. Printing on an aluminum substrate is very difficult and we have a core strength in this application. Our Color Perfection magazine and INX University online courses are two prime examples of how we help the market manage and learn more about metal decorating printing.

These tools and other efforts will help people better understand future trends and new technologies.

“The metal decorating market is poised to benefit from the sustainable trend given its recyclability”

Our main focus now is on the sustainability of products for application in a circular economy. We continue to innovate novel materials that are renewable and allow for recycling, with the goal being to make these materials a mainstay.

The metal decorating market is poised to benefit from the sustainable trend given its recyclability. That's why we are seeing more brand owners moving to the metal package. We are helping newer entrants

succeed in the market, and we are finding that many of them are in need of small run services on the inkjet side of the business. This is another core competency of INX.

Regarding commercial offset and digital, we are excited about our Energy Curable products. Our knowledge serves concentric goals in these markets. Above all, we see the industrialisation of inkjet applications finally coming

of age, especially in the packaging market. Many of these developments originate from INX's world renowned R&D division.

We have been developing new processes that identify unmet needs in the market. This includes creating solutions and the means to deliver quickly. We are focused on collaborating with our customer base, start-ups and the larger ecosystem as part of our process improvement. R&D is a key piece in perfecting

the use of new materials, formulas and services.

METAL DECORATING INVESTMENTS CONTINUE

We support these facilities with state-of-the-art equipment and process improvement on a regular basis. We recently looked at using AI platforms to make our factories smarter to help deliver products faster to the market. We are also entertaining venture capital investments in the metal decorating space to help them scale and deliver as it relates to the emergence of inkjet capabilities.

I expects the \$50 million corporate venture programme to accelerate innovation efforts for metal decoration and other market needs.

We anticipate over the next three years to announce some very large investment efforts that will greatly change our manufacturing footprint domestically and internationally. This investment strategy will be the largest effort the company has made in its history. 

Creating the Roeslein Way



With over one million sq. ft. of fabrication space internationally, Roeslein & Associates has grown into a global leader of can making equipment, conveyancing and ancillary systems. **ALEX FORDHAM** speaks to Roeslein's manager of operational services, **ROBERT WILLIAMSON**, on how a positive work culture has enabled the company to thrive.

The past few years have seen largescale capacity expansion for many equipment suppliers within the global can making business, as the industry has had to adapt to a 'perfect storm' of sustainably-conscious consumers, an increase in demand due to the pandemic and a growing anti plastic sentiment globally. For Roeslein & Associates, this expansion is the continuation of a business model routed in a strong company culture, putting employers at the heart of its business ethos.

In 2021, the company completed 15 new can lines, which accounted for nearly 20 billion new cans in the industry. Back in 2021, The Metal Packager had the pleasure of interviewing company president and chief operating officer, Brian Sneed, on this achievement. Sneed outlined how the company had grown to over 1,000 employees and the company has nearly one million square feet of fabrication space across four continents, with the recent acquisition of its Roeslein, Michigan City location and expansions to current manufacturing facilities in Red Bud, IL, US, São Paulo, Brazil, Hollister, CA, US, Shanghai, China and Dębno, Poland.

A culture created over 30 years

This explosive growth at Roeslein wouldn't have been possible without a dynamic workforce driving the company's vision. Robert Williamson takes up the story.

"Roeslein's a team environment," explains Williamson. "The culture is truly amazing and

it's a company that fosters a positive work/life balance. You have that that sense of ownership you don't see in a lot of other places."

This is exemplified in 'The Roeslein Way', a programme designed to ensure workers have a positive environment to benefit both their working and personal lives. This includes initiatives such as a Charitable Programme, where Roeslein offers a charitable gift matching programme to all employees who donate to a non-profit organisation. And likewise, the company's Wellness Programme and Talent Development Programme encourages the positive mental and physical wellbeing of its employees. The programme has 6 pillars. Charitable Giving, Community Service, Continued Education, Diversity & Inclusion, Environmental Stewardship and Wellness.

The programme launched in 2020 prior to the start of the Covid-19 pandemic. The leadership wanted to table the programme launch, but employees were hungry to help those in need. Starting with fundraising for the victims of the earthquakes and flooding in Puerto Rico in January 2020 to supporting local businesses, hospitals, and first responders throughout the pandemic. In the first 2 years of the programme, it's been able to give \$1 million, donate 200,000 cans of CW4K, recycle 5k pounds of aluminium to protect the earth, and recognise over 1,200 employees for their continued education and support to the business, hosted multiple diversity and inclusion training, and started promoting mental health awareness.

This environment, says Williamson, has been fostered with a strong emphasis on mentoring throughout the organisation. "Our baseline way is mentoring and coaching," he notes. "We employ 'across sector' training – finding out what and where people's interests lie.

"To help coach people, even if it's to a different department within the business is important, as they may have so much to offer in construction, building and engineering, and obviously operational services. Young people today have the opportunity to come into this company and grow. And I think we do a really good job of mentoring them through that process.

"There's an art to commissioning a can processing line, and you don't come out of school with this knowledge. You come out of school with the ability to learn, the fundamental backgrounds and the want and the drive to succeed. And those are the people that we really look for – the ones that are looking to get those experiences. It's receiving that mentoring from people with experience who can help our apprentices and new employees to learn and thrive.

"We've built plants all over the world and we invite people from all over the world of any race, religion or culture – it doesn't matter. It's exciting to be part of such a diverse group, and a diverse culture."

The challenges of recruitment and industry opportunities

The need for skilled workers is at an all-time high. With the increasing capacity expansion needed within the industry, and the retiring of the 'boomer' generation, it has created a challenging environment for Roeslein's HR and Recruitment team. Many manufacturing plants have been running for 30 years and are faced with new challenges daily. And whether it's process or equipment, there's always new challenges, as Williamson explains.

"I think if you look at the industry today compared to what it was 15-20 years ago, the demand for those skilled resources is at an all-time high," says Williamson. "So, do we have less skilled people in the industry at present? Of course we do – we have a lot more demand for certain skillsets. In addition to this, we have had a lot of retirees within those 15-20 years.

"So, you have a reduction in skilled resources, and you have an increased need because of all the multiple can lines and multiple components that have been created over that period. There's a need – there's a need to build the skillset and there's nothing like hands on experience either."

A varied workforce

As well as apprentices and recruitment via traditional channels, Roeslein is keen to create a skilled workforce from a variety of avenues – whether that's experienced engineering professions looking for a change, partnerships with education bodies or can making personnel looking for a change, the company is looking to challenge the traditional status quo of recruitment to encourage a 'skills hub'. For Roeslein, it's not always the obvious option that is the best option when it comes to recruiting.

"Occasionally we find a person that's at a point in their career where they're looking for something different," Williamson notes. "Perhaps they worked shift work at a plant for so many years and they're really wanting to get out and travel and do different things, not just work on a decorator – getting the opportunity to do more. So we're looking for those people if they're out there and they're wanting to break away from the status quo and expand their talents. This is the place for those types of opportunities.

"We're working on programmes with local universities. We set up curriculums within the universities themselves that would encompass the experiences and the education in the areas that we feel that would help them be successful at a baseline level and in the can industry in general."

When asked to sum up why the company is an attractive proposition for prospective employees, Williamson uses the word 'teamship' to describe what it's like to work at Roeslein. Whether its staff working remotely, on the road or in a manufacturing facility, it's that sense of working towards a common goal that is the secret behind the success.

"I think for me, it's the sense of camaraderie, support and teamwork within Roeslein," concludes Williamson. "And it doesn't matter if you're working remotely. It doesn't matter if you're in the office every day. The people at Roeslein care about their jobs. They care about the future of the company.

"I encourage anyone that's thinking of changing their careers or looking for an opportunity to grow, Roeslein is a wonderful place to start. As I've said before, whether you come into our Lifecycle Group, whether you come into engineering, or whether you come into operational services, there's so many opportunities within the company itself.

"As a team at Roeslein, we look for those opportunities and growth potentials in each person that's here."

Interested in working at Roeslein? Get in touch via the company's website www.roeslein.com or email your resume and interests to HR@Roeslein.com



ROBERT WILLIAMSON

AT A GLANCE

What attracted you to Roeslein?

You can't find a better mentor than Rudi Roeslein to encourage you to grow and to be part of something that's made life what it is for so many people. It's an amazing company to be a part of.

Roeslein described in a phrase?

A shared sense of culture.

The biggest challenge for Roeslein?

Replacing employees retiring who have a great deal of specialist knowledge – it's not easy to replace that level of expertise.

What is the biggest change you've seen in the industry?

We're making a lot more cans at a higher rate of speed – that's predominantly due to technology from the OEMs. The OEMs have all stepped up and done a wonderful job of making their equipment more efficient, making them faster.

And what about in terms of innovation?

Light-weighting programmes that have been introduced have allowed can makers to take money out of the can and still make a very sellable product.

New innovation



Innosen releases film weight measurement tool

Innosen has released the newest version of the Hoverprobe - the IS9651 Hoverprobe II.

This tool was designed with precision to minimise operator variance experienced by a lot of can makers when measuring the lacquer thickness applied on metal sheets.

The enhanced Hoverprobe II has a new scratch-resistant metal base plate that serves as an alternative metal sheet contact instead of a crocodile clip.

The clever internal construction provides durability and cost-efficiency when it comes to maintenance. The cables are built stronger with a polyurethane jacket for better connection and protection against electronic damage.

Significant improvements in the probe tips can also be seen in this upgraded version as it is easier to replace and has a faster settling time, allowing canmakers to start taking measurements sooner.

Henkel Adhesive Technologies at Metpack 2023

The focus of Henkel Adhesive Technologies at Metpack will be on resource-efficient surface treatment solutions, coatings and sealants for smart packaging.

At stand 1C38 in hall 1, Henkel will present its Triple Safety programme and its new low-temperature cleaner for beverage cans which supports manufacturers in achieving their sustainability targets.



Sencon at Metpack 2023

Sencon's booth at Metpack 2023 is packed with the latest sensing, testing and inspection equipment, such as our leak detection systems for cans (ULTP) and ends (ELTP) are both equipped with Quasar Light Detection. Quasar is capable of submicron leak detection and, even more importantly, delivers consistent results on the production line with a false reject rate of less than 6-Sigma.

The popular MLT Micro Leak Tester for ends has received a similar increase in processing power with adaptive algorithms that dynamically respond to changing conditions on the line.

The optical Film-Scan coatings gauge and the Enamel Rater from the modular Master Series auto gauges will be working on the stand. Our powerful Process Master software, which is common to all the Master Series gauges, has been updated to work with OPCUA automation connectivity.

Nidec Minster at Metpack 2023



Nidec Minster's Metpack display will feature the innovation of Minster's shell, easy-open end, and cupping press line-up. Minster's innovation and superior production capabilities, along with a legendary reputation for durability, adds up to an unmatched value in the metal packaging industry.





SAVE RESOURCES WITH SUSTAINABLE AND SAFE METAL PACKAGING


Henkel Adhesive Technologies stands for sustainable and safe packaging solutions. On METPACK the focus will be on resource-efficient, energy-saving surface treatment solutions, coatings and sealants. Henkel will be showcasing the latest innovations in high-quality, safe, and sustainable packaging solutions.

The portfolio is particularly focused on the aspects of safety and sustainability, avoiding the use of basic substances such as bisphenol A (BPA) and polytetrafluoroethylene (PTFE) for example. A product highlight for the surface treatment of beverage cans

is the new low-temperature cleaner. When used in the beverage can washer, BONDERITE C-IC 72000 cleans at a lower temperature of 43 degrees Celsius (110°F) compared to 60 degrees Celsius (140°F) for conventional cleaners. The product series is thus able to reduce natural gas consumption and, in turn, the carbon footprint of the facility. In addition to the energy savings made, it also produces less foam and thus optimizes water consumption.

At the world's leading trade fair for metal packaging Henkel will also be presenting its Triple Safety program. To avoid any risks for users, all substances are

subjected to a toxicological assessment and then eliminated if they are proven to be harmful. To this end, Henkel has partnered with Austrian research and testing institute OFI in the field of sealants. During a presentation at the METPACK Conference, Henkel will present a risk assessment of BPA-NI coatings for metal packaging with a focus on the aspect of food contact.

Henkel will also demonstrate how it helps its customers to achieve their sustainability targets using items such as cans for foods, drinks, and aerosols. Trade fair visitors will also be shown how drinks cans are produced – from coil to can. 

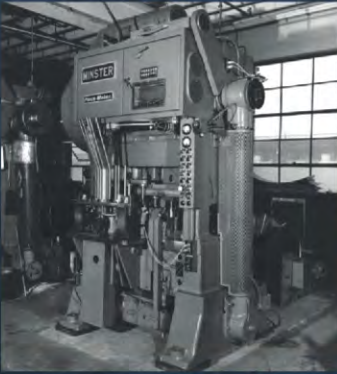
Visit us: **STAND 1 C38 · HALL 1**

THE LOWER THE TEMPERATURE THE HIGHER THE IMPACT

Find out how to reduce your CO2 footprint through BONDERITE C-IC 72000 Low Temperature Cleaner Series at METPACK 2023 · Essen · Germany
MAY 2-6, 2023 · STAND 1C38 · HALL 1

**RESPECT
RETHINK
REINVENT**

INVESTING IN A NEW ERA OF METAL PACKAGING



A HISTORY OF INNOVATION

When our founder, Ernie Frazee first patented the integral rivet for Easy Open Ends in 1959, he changed more than just the way metal packaging was manufactured. He revolutionized the way consumers interacted with food and beverages and at the same time, improved the sustainability and recyclability of metal packaging.



THE FUTURE OF PRECISION AND AUTOMATION

DRT has never stopped innovating and as one of the world's largest high-precision tooling suppliers, it is no surprise that our conversion systems and products have continued to create efficiencies and cost-savings across the metal packaging industry. With our latest investments in automation and capacity, as well as a full-time R&D and Engineering Innovation Team, we have substantially increased our ability to develop industry leading products and unmatched service. Thanks to our redundant and dedicated capacity at our state-of-the-art facilities in the U.S. and Europe, we are also able to offer market-best lead times.



UNMATCHED SERVICE AND SUPPORT

Our new service and training offerings provide even greater industry-leading support to give our customers the peace of mind that DRT will proactively be there when they need us to reduce downtime, train their teams, and maximize performance.

Stop by **Hall 3 Booth 3A26** and see some of our latest products and meet our team.



Meadow and DRT Form Strategic Partnership to Help Brands Become Truly Circular

meadow



Introducing the world's first infinitely recyclable aluminium cartridge for the personal care market...

Spring 2023 sees the exciting new launch of a new dispensing system, that will revolutionise the consumer experience in the personal care market. Celebrating the essence of the beverage can in 330ml sleek can format with future compatible sizes to follow, Meadow has created a unique end and dispenser system that can be refilled time and time again.

The beverage can cartridge, which is made from infinitely recyclable metal packaging, creates an exciting user experience and also provides brand owners opportunities to comply with ambitious circular economy and net zero ambitions.

Re:Fill and Re:Use

Meadow is the brainchild of Nick Paget, Victor Ljungberg and Peder Stubert. Based in Sweden, the company's mission statement is to convert all packaging solutions into circular solutions. With ambitions to create packaging solutions that transform an outdated and wasteful system, Meadow's product portfolio is inspired by nature, where waste from one organism is nutrition for another. No resource is squandered – everything is used – just like a meadow...

"We have extensive in-house and partnership expertise in industrial design, user research, equipment design and mechanical engineering," explains Nick Paget, co-founder. "As a result, we were able to take this project to a point of fidelity that demonstrated proof of concept and buy-in from consumers and FMCG clients.

"Recognising the complex precision engineering that is required in the metal packaging process, we quickly acknowledged that we did not have the metal forming expertise and measurement know-how to achieve the accuracy and repeatability we needed to validate the end design. With this in mind, we reached out to industry specialists, to utilise the existing infrastructure available."

DRT Holdings – the future of precision and automation

Realising the need for some end-making expertise, Meadow has been implementing CDL's 202 optimised shell for the basis of its end. CDL in turn recommended DRT Holdings, to help develop its score residual panel geometry that could be validated to production standard.


"As the world's largest high-precision tooling supplier globally, DRT is delighted to provide Meadow with an end solution that can be made at scale for the consumer market," explains Will Hoffman, DRT Vice President of Sales and Marketing. "With a history of innovation, having developed the integral rivet for Easy Open Ends in 1959, we have revolutionised the way

consumers have interacted with food and beverages, and we're excited to be part of another exciting innovation in the metal packaging industry. This time in the personal care market."

With DRT's support, Meadow has launched a 12-month development project, for a proprietary end and dispenser system project. Co-founder, Victor Ljungberg, continues the story: "Together with DRT we have agreed on a project that ironically removes the integral rivet (the feature they invented) and replaced it with a score residual that is opened using a proprietary dispensing system, compatible with industry-standard lotion pumps.

"We have developed the dispensing system alongside DRT for consumers to purchase once and use time and time again, by refilling the infinitely recyclable cartridge.

"The dispensing system introduces a new user experience to the personal care market that celebrates that uniqueness of the beverage can."

Alongside the end and dispenser system, Meadow's team is working closely with equipment manufacturers and world-leading coatings experts to develop other complementary systems. 

For more, <https://meadow.global/>

“We have developed the dispensing system alongside DRT for consumers to purchase once and use time and time again, by refilling the infinitely recyclable cartridge”

Women in Metal Packaging

Our Features Editor IRIS ARSIC speaks to some influential women in metal packaging, about their journey into the industry and what they've learnt along the way. . .



MELODY GREGSON
VICE PRESIDENT OF SALES
AND MARKETING AT
AMERICAN CANNING

For those of us already in the field, it's critical

to be an advocate for younger women starting their careers. That can take many forms. It could be something as formal as mentorship, or more subtle day-to-day interactions – freely sharing information, coaching within our own career paths, helping make introductions and networking, or providing opportunities for direct reports to join in conversations, even if only to listen and learn what the next 'step' looks like.

For me personally, I had male bosses who were willing to advocate for women 'at the table' as well. They helped break barriers and advocate for my presence among their peers. In some instances, they took heat for it, but they never backed down. Their confidence in me showed me that I could break through

barriers and have confidence in myself. It's not just women supporting women, it's men supporting women and helping create space as well.

When I first started, age and inexperience were the biggest challenges. I was highly motivated, with great work ethic, and a lot of opinions but I didn't always know how to channel them or advocate for myself and my team. What I learned in school hadn't been tested by the realities of real-world work and as we know, highly opinionated women don't always get labelled the same way as their male counterparts.

I was involved in leadership teams that were predominantly male and with personality types that by all measures were near direct opposite of mine. That was hard to cut through and feel respected even though I was the subject matter expert in my field. It was a long and very hard process for me to learn how to channel my passion and



personality in a way that cuts through those barriers and allow for projects to flourish. It's so rewarding when you do cut through and can communicate value appropriately.

As leaders, we need to build spaces where a variety of perspectives are included and valued; gender diversity being one of them. We need to create arenas where women can be confident of the value they provide and feel safe enough to advocate for themselves in interviews, negotiations, meetings, etc.

“It's not just women supporting women, it's men supporting women and helping create space as well”



REBECCA LIPSCOMB
DIRECTOR,
GLOBAL REGULATORY
AFFAIRS INX

Don't shy away from a challenge or because it's different from what you thought you'd do. Risk it, because you could very well end up landing somewhere great, and if not, you always have options. If you've got the drive, ambition, and skillset, then you've got what you need. Stop apologising for being assertive, strong, for having a

voice, idea, or opinion.

I've noticed that women are constantly apologising for anything and everything. I was training for a half Ironman and noticed that during the open water swim women kept apologising for accidentally hitting someone (that's the nature of the open water swim, it's a thunderdome). It's the nature of the race and the nature of doing business.

You simply need to be true to yourself, professional, ambitious, and kind. Be honest, confident, kind, empathetic,

graceful, and assertive. Flaunt your brain power, be unapologetic. Know that not everyone is going to support you no matter how much you embody all those things, you can't control their behaviour, and you shouldn't apologise for wanting to learn and better yourself. Your success is the company's success. Strive to work your absolute hardest and give it your best.



MARTH ROJAS
ROESLEIN & ASSOCIATES

Being a Latina in a male-dominated industry created its own challenges. Becoming visible first and then having a voice – fighting for a place at the table as a professional, to be noticed and not undermined. To be perceived as a substantial member who adds value to the organisation/business/industry.

The rewards are many: I've got friends all over the world at all job levels in the workplace. Each friendship/professional relationship is a gift, and every completed project a triumph. It's gratifying to watch those whom I've helped along the way thrive.

Although there're more and more women in the industry, the majority of the top positions are still held by men. We've a long way to go before we're on an equal footing. We don't need to be more like men to move up the career ladder – women bring a different perspective to the job and we should embrace who we're with all the positive aspects of being female.



LENKA PRIBYSLAVSKA
PLANT MANAGER BALL
AEROSOL PACKAGING

In terms of gender equality it starts at high school. To me it all starts at school, motivating young girls to take the career path which might have not been typical in the past. Supporting them during their studies and early years is important as there are not many women role models they can look up to and learn from.

It's important to promote company cultures on real life examples, what benefits the gender diversity can bring and give a chance to women to be successful and bring their best to the table. If the person feels included he or she will be much more successful and use his/her full potential. What is also important to me is to make sure that we're fair no matter what gender, race, age, background, etc., people are.





THE COMPANY
SPECIALISING IN
SINGLE-PASS INKJET
PRINTERS

NEOS, Italian excellence in the sector of digital inkjet printers for industry, which will bring the best of its technologies dedicated to the printing of metal substrates to Metpack. At stand A11 - HALL 1, the company from Fiorano Modenese (Modena) will be showing the Bombardier B-BELT, an extremely flexible digital inkjet printer with conveyor belt and double-bar modules. With the versatility of having up to eight color bars in sequence, a production speed of up to 150 m/min and print widths from 600 to 2250 mm, this modular printing system guarantees top-level print quality, flexibility and production speed.

In addition to the Bombardier B-BELT model, the Fighter F-BELT will be showcased – a very high-quality digital inkjet printer, with speeds up to 120 meters/min and configurable up to 12 slots for either print-head-bars or pinning lamps. The vacuum belt is suitable for rigid or semi-rigid materials with thicknesses up to 50 mm, such as metal plates. Fighter F-BELT and Bombardier B-BELT were created to satisfy the highest demands for flexibility: in fact, the sequence of images and variable data is configured in real time, rapidly and with the possibility of queuing up various projects to execute them in sequence. With dedicated UV LED-curable inks, Fighter F-BELT proves to be an ultra-reliable printer that is not prepared for downtime. In their respective B-ROLL and F-ROLL-models, both

variations can be configured for printing on reels as well.

With this innovation in digital metal-printing concept, Neos is mastering the ambitious application requirements achieving best ink adhesion, color consistency and the high precision requirements of this industry. NEOS' inkjet-printers for metal packaging are suitable to overcome these challenges and offer the maximum resolution, image quality and color resistance. Developed in the in-house-research- and development-laboratory the production of inks is also done in NEOS' own premises. The NEOS advanced solution is in fact adaptable to any type of metal surface, both on sheets and reels. NEOS' premium UV-LED-curable ink formula is suitable for indirect food contact and due to its extraordinary flexibility can sustain the shaping process, for

example when formed into a crown cap.

Two cutting-edge solutions, therefore, already successfully used by manufacturers of metal bottle caps and can producers, and whose components - from proprietary electronics to software and color management - are produced and assembled in the best tradition of 'Made in Italy'. In a market such as packaging, which requires ever greater flexibility and attention to the environment, NEOS printers reach high standards to simplify processes by reducing energy cost, preparation times, production costs and waste of materials, allowing short run-length and personalised designs. NEOS' digital metal-printers are proving to be an added value for any existing production line enabling to reduce the stock of finished product significantly.



o Images come to life o



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www.neoslab.it - info@neoslab.it



TD WRIGHT

COMPANY DESCRIPTION

Since 1975 T.D. WRIGHT has been dedicated to producing innovative and reliable magnetic cylinders. Our modular Magnetic™ design, and precision manufacturing are combined to produce the strength and reliability of T.D. Wright products.

We are committed to making the finest magnetic cylinders in the industry. We've been innovating for over 40 years, and have more patents than anyone else in the industry.



PRODUCTS

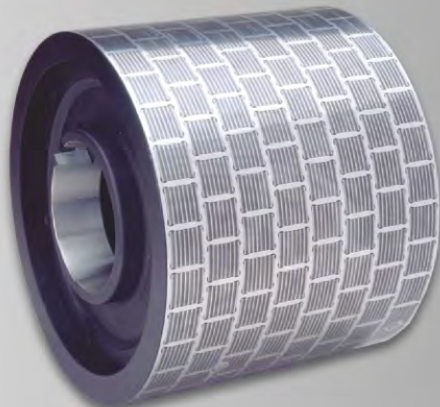
Our flagship ENOC System for the Rutherford decorator has revolutionized the way label changes are performed. With our quick release tapered bore design label changes are faster, easier, and more accurate than with standard straight bore systems.

Our trademarked Modular Magnetic design comes standard on all of our metal decorating cylinders. This eliminates dead bands, and ensures a uniform magnetic pull over the entire cylinder surface.

T.D. Wright has developed a full line of precision plate cylinder assemblies and accessories for the Rutherford, Concord, and other metal decorating machines. Our products include: The ENOC System, Modular Magnetic Lightweight Concord and Rutherford cylinders, Modular Magnetic cylinders for CTP units, and plate cylinder accessories.



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THE HISTORY OF

Canning & Can Making

Have you ever pondered the history of canning and food preservation? It is a fascinating tale that weaves across the globe and centres on preserving the bounty of the earth's harvest to meet the world's nutrition needs year-round. *Acumen* investigates...



THE DEVELOPMENT OF CANNING

The Father of Canning (1795-1809)

This story begins in France in the middle of the Napoleonic Wars (1803-1815) with a French inventor by the name of Nicolas Appert.

Limited food availability had caused military campaigns to be held mostly in the summer and autumn. In 1795, the French government had offered a hefty cash award to any inventor who could devise a cheap and effective method of preserving large amounts of food for army and navy use.

During the late 1700s, Appert had begun to experiment with ways to preserve food, observing how cooked food sealed inside a jar did not spoil unless the seal leaked. In 1809, he presented his method of preserving all kinds of food substances in corked and wax sealed glass jars that were then wrapped in canvas and boiled. He was awarded the French government prize in 1810 and is now referred to as the "Father of Canning."

He subsequently published a book called *The Art of Preserving Animal and Vegetable Substances*.

A milestone indeed, but interestingly, the exact reason for the lack of spoilage would remain unknown for another 50 years until Louis Pasteur, a French

biologist, microbiologist, and chemist, would demonstrate the role of microbes in food spoilage.

Building from Appert's method of food preservation, Frenchman Philippe de Girard patented his preservation idea and sold his patent in 1811 to Bryan Donkin and John Hall, who developed the process of packaging food in sealed airtight cans. Initially, this canning process was slow, labor-intensive, and costly. It led to canned food being too expensive for the poor and middle class. Moreover, can openers did not exist yet, so cans were hard to open.

During these early years, the main market for canned food was the military, but a few cans made their way on Arctic voyages with the wealthy. One of these cans was opened years later and found edible and nutritious, though it was not analyzed for contamination or spoilage at the time.

During the mid-19th century, canned food became a status symbol amongst the European middle-class. Increased mechanization of the canning process, coupled with a huge increase in urban populations across Europe, resulted in a rising demand for canned food. Several inventions and improvements followed, and by the 1860s smaller machine-made steel cans were possible, and the time to cook food in sealed cans had been reduced from around six hours to thirty minutes.

The Canning of Peas: Based on Factory

Inspection and Experimental Data (1909) U.S. Department of Agriculture Bureau of Chemistry Bulletin Number 125, p. 17

Robert Ayars introduced the United States to canning the same year as Donkin began experimenting with tin cans. He began with preserving oysters, meats, fruits, and vegetables and in 1812 opened the first American canning factory in New York City, using tin-plated wrought-iron cans.

Canned food began to spread far and wide. By the late 1800's several wars, including the Crimean, American Civil war, and Franco-Prussian war, put canned food into the hands of thousands of soldiers. The demand for cheap, high-calorie food with a long shelf life continued to increase. Can makers began to compete with one another using highly decorated printed labels and lowering prices.

However, the process was still crude and often done in small canneries with unsanitary work environments and lacked refrigeration. It was very common for contaminated cans to slip onto the grocery store shelves.

World War I (1916-1917)

Demand for canned food skyrocketed during World War I. Canned food such as corned beef, pork and beans, canned sausages, and stews were in high demand due to low cost and high-calorie meals. However, after widespread dissatisfaction



over the quality of the food, better-canned items started to make their way to the soldiers, including soups, ravioli, and other hearty canned meals.

Fast Forward – Continuous Improvement within Canning

There are several ways to prevent spoilage during the filling and containment process including pasteurization, freezing, drying, and using additive solutions. However, most cans continue to be sterilized by heat, then hermetically sealed. Regarding seaming and can making materials, things have changed considerably over the years.

The seaming process is critical to ensuring a can is airtight. The dangers of a can that is not sealed properly are great, including dangerous bacterial contamination.

Originally, can making was an extremely labor-intensive process. There were workstations for blank cutting, body forming, side seam solder, bottom solder, and top solder. A single small operation could produce around 600 cans per day. As demand continued to skyrocket, can makers began to pool knowledge and combine facilities. A game-changer known as Sanitary Cans arrived on the scene in 1901 and advanced the industry by leaps and bounds.

Arrival of Double Seams (1888-1911)

With inventions for crimping the seams of cans, eliminated the need for solder, the “sanitary can” was invented by Max Ams in 1888, but didn’t hit the market until 1904. The Sanitary Can was made of the traditional cylindrical body, but the two ends were attached using what is now called a double seam. A sealed can was now impervious to contamination by creating two tight continuous folds (or crimps) between the can’s cylindrical body and the lids. This eliminated the need for solder and provided for cost reduction and improved manufacturing speed.

In 1897, machinery was developed to crimp the can ends to the sides with a double seam sealed with a rubber compound. This new method used rollers to shape the can, allowing manufacturers to begin producing can bodies via sheets of coated tin plate. Rectangles were cut and curled around a die and then welded together to create the cylinder with a side seam.

The top and bottom of the can were flared to create a quarter flange around the edge. Ends were die-cut, shaped, and pressed to fit snugly on the top and bottom of the can. The body and the bottom end were brought together through a final seam by the can maker and the top end applied by the filler. In 1904, the double seam cans were in full production and dominated the market by 1911.

Recyclable Aluminium Can (1957)

In 1957, aluminium was introduced as a more durable and recyclable solution for metal can making. It was officially introduced to the market in 1959 by beer-makers Adolf Coors Company.

Two-Piece Can (1964)

From coated and lined tin-free cans, the production of aluminium cans were created in two different ways: three-piece and two-piece. Prior to this advance in the three-piece can making world which originated in 1935, two-piece can makers introduced recyclable aluminium cans in 1964 as the “pull-tab” revolutionized the drink industry and used far less metal than the traditional three-piece can.

Another key development was the interior can liner, typically plastic or wax, that helped to keep the product’s flavour from containing a metallic taste and eliminating corrosion caused by acidic contents.

The most important innovation since the introduction of double seams was the welded side seam in 1966. Prior to the welded side seam, the can body was folded or soldered together, leaving a relatively thick side seam. The welded side seam provided for a more durable and attractive product.

Another key development was the interior can liner, typically plastic or wax, that helped to keep the product’s flavour from containing a metallic taste and eliminating corrosion caused by acidic contents.


In 1974, more than 100 years after a steamboat named the Bertrand sank in the Missouri River, canned food was retrieved from the shipwreck and tested to determine if it was still safe to eat. There was no trace of microbial growth found. The smell and appearance had suffered, but even after 109 years, it was perfectly safe.

Continued Advancements

As the decades went by, automation, monitoring control systems, and improved processes have led to more efficient can making world-wide. Statistical tracking of production flow, downtime, spoilage, and scrap has become key in remaining competitive and keeping up with the ebb and flow of demand. Freshness, convenience, and efficiency remain front of mind for industry engineers, as they continue to work on advancements in protective linings, bonding materials, printing, and ease-of-use features.

With less guesswork, can makers are growing their businesses and fuelling decisions with accurate real-time data. Today’s modern can making operations depend on robust Production Information Systems for their day-to-day operations and data gathering. Large can makers are turning to enterprise-wide Production Information Systems for insight into their high-volume operations, as well as, overall productivity and efficiency. Learn about one industry solution that is employed by the top five can makers across the globe – Acumence.

Can making is an indispensable industry. That has never been more evident than during our current pandemic.

History shows us that can makers will surely continue to evolve, and with technological advances and growing artificial intelligence (AI) adoption, they have never been more perfectly positioned to meet rising demands now and into the future. 

Doing Well By Doing Good

The US-based charity CannedWater4Kids (CW4K) has been providing canned water to children and communities around the world that lack access to safe drinking water.

GREG STROMBERG, founder and CEO of CW4K, which marked its 16th anniversary in 2023, talks about his sources of inspiration for setting up the non-profit and how it's making a meaningful difference in the lives of those in need.



The US-based charity CannedWater4Kids (CW4K) has been providing canned water to children and communities around the world that lack access to safe drinking water. Greg Stromberg, founder and CEO of CW4K, which marked its 16th anniversary last month, talks about his sources of inspiration for setting up the non-profit and how it's making a meaningful difference in the lives of those in need.

"To our supporters, more children are alive today because of your kindness and support. Thank you for helping us give children the gift of safe water and the gift of life," Stromberg said.

Stromberg went on to say that the inspiration for CW4K came from several places. The first of which was from his father. "He used to tell me stories about my grandfather, a dentist during the Great Depression, and how he would fix the teeth of the poor without charging them. I thought this was admirable," Stromberg said.

Another influence was the late Paul Newman and how he used his Newman's Own brand to make a difference in helping those in need. The final spark came from the 2007 CanMaker Summit in Chicago, Illinois. The keynote speaker was a packaging consultant to the United

Nations (UN). He asked the CEOs in attendance what they were doing to help people in developing countries — specifically concerning the lack of food and water, which was unfit to drink. "Everyone was silent. Something inside told me I needed to do something. I needed to make a difference," said Stromberg.

"I had been reading about the global water crisis and how children died every 21 seconds from complications due to drinking unsafe water. I thought if the children are our future, but they die before they get there — we have no future," Stromberg added. It was at that moment that CW4K was born.

Sustainable water projects in Africa

The completion of a water project in Zambia's capital, Lusaka, now delivers clean, safe water to over 400,000 people of the Messi compound (comprised mostly children). Clean water will allow for thriving agriculture, food, and energy production. But, most importantly, it'll reduce waterborne diseases and let the children enjoy healthy development and a

better chance of survival. In Guatemala, CW4K helped fund and deliver a sustainable clean water distribution system that will help to provide clean, safe water to a village for over 20 years. "When funding and delivering water projects, sustainability is important to us," said Stromberg. "We believe in the 'teach them to fish' model of relief. That way, the deliverables have more value to the recipients and greater potential of living on." In 2023, under the leadership of Uganda-born CW4K board member Dr Moe Mukiibi, the non-profit intends to help 5-10 villages on the shores of Lake Victoria in Uganda that don't have clean water. At each location, the plan is to install a water purification device, a solar pump at the well, and a water kiosk to house the water purification system. The team will also provide training for water testing and maintenance.

Helping people in Wisconsin

Closer to home, CW4K recently helped pregnant moms in Milwaukee, Wisconsin, who live in old houses with

“To our supporters, more children are alive today because of your kindness and support. Thank you”



relief, the annual CW4K projects include assisting the University of Wisconsin – Milwaukee’s and Marquette University Engineers Without Borders in bringing sustainable water purification solutions to the highlands of Guatemala and support for sustainable well/water tank and Bio Sand Filter projects in Zambia, Kenya, Tanzania, and Uganda.

The group also is passionate about clean water education. “Smiling faces of children is our reward,” said Stromberg.

The ‘beverage of human kindness’


CW4K canned water has become known as “the Beverage of Human Kindness” Why? Because 95% of the money collected from the sale of the water helps support, fund, and deliver sustainable drinking water projects. And every time you buy and drink CW4K water, you’re helping save children’s lives. Doing good has never been so refreshing,” Stromberg emphasised.

“Aluminium makes perhaps the perfect container for holding drinking water. It resists corrosion and will not rust; it has an airtight seal that keeps what’s inside fresh longer than plastic, and when recycled, returns as new cans on store shelves in as little as 60 days.”

An added benefit is that the collection and recycling of used cans also allow people to earn money from it. The aluminium bottle and can, along with its ease of recyclability, makes CW4K water the perfect replacement for the minimally recyclable plastic water bottles. For example, Washington University in St Louis, Missouri has replaced their plastic water bottles with CW4K canned drinking water. It was a sustainable campus solution.

Corporations supporting our non-profit say the aluminium packaging aligns with company sustainability goals and gives them visibility as good corporate citizens, who care about saving children and improving the world.

Statistics at a glance

3.5 million = number of cans of drinking water we provided for emergency relief
36 = number of sustainable wells and water purification systems delivered
5 million = the estimated number of plastic water bottles that were replaced by our aluminium bottles and cans 

To learn more about the non-profit organisation, please visit <https://www.cannedwater4kids.org>.



lead pipes. Unfortunately, this aging lead pipe infrastructure continues to degrade rapidly, mixing unsafe lead levels in water. Lead-contaminated water is toxic to everyone but imagine being pregnant knowing that dangerous lead levels are harming your developing child.

The city of Milwaukee replaced 982 lead laterals last year but more than 70,000 remain to be replaced. CW4K delivered free bottles and cans of water to about 30 pregnant women from January to June last year. The goal was to provide water to each woman for up to 12 months. It costs nearly \$100 a month for the water and delivery for each woman.

“CW4K is fantastic,” said Robert Miranda on the steering committee of Milwaukee-based Get the Lead Out Coalition. “They provided water to

pregnant mothers without collecting anything. The mothers are very appreciative. It takes away the stress and worry of dealing with the water. CW4K are just good people,” he said.

Stromberg said he had to stop providing free water to these women because of a lack of funding. He and the Get the Lead out Coalition are working on raising money so the programme can continue.

Sending safe drinking water when disaster hits

The group has helped the American Red Cross and others with disaster relief whenever possible. “If the Red Cross calls, we always try to help,” Stromberg said. “Water is so important. You can only last three days without it.”

Disaster relief efforts, including earthquakes in Japan and Haiti, support the lead-contaminated municipal water supply in Flint, Michigan; hurricanes Harvey, Irma, and Maria in Puerto Rico; and most recently, Texas after the devastating 2021 Winter Storm. Disaster relief efforts to date show that CW4K has delivered over 3.5 million cans of clean, safe drinking water.

This tiny non-profit is leaving its mark and making a difference across the globe. In addition to the disaster



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At Industrial Physics, it's our job to protect the integrity of your metal packaging – for an entire century, we've been providing packaging, product and material test and inspection solutions to manufacturers, production lines, and laboratories across the globe. Many of our instruments have been designed to save you money while protecting your finished product. And the CMC-KUHNKE SeamScan XTS solution does just that.

SO HOW EXACTLY DOES THE SOLUTION SAVE YOU MONEY?

We analysed our Seamscan XTS solution against traditional destructive seam systems... and the results were clear.

SAVE TIME

Based on reduction of inspection time at a beverage facility after change to non-destructive testing.

- Cans tested: 12
- Inspection time to measure 12 cans (3 locations) with traditional destructive testing = 35-50 minutes (depending on operator)
- Inspection time to measure cans using SEAMscan XTS = 15-20 minutes
- Benefits = money saved during operation, a more efficient process, reduced labor costs

Total reduction in inspection time: 65%

SAVE MONEY

Based on reduction of package spoilage at beverage facility after change to non-destructive testing.

- Cans tested: 288 per day (four 12-head seamers with cross-section test made every 4 hours, running 24 hours a day)
- Production days: 350 days per year
- Customer valuation of filled can: \$1.00 per can

Total savings: \$100,000 per year

NB: cost savings do not include additional cans destroyed for re-checks/line set up and adjustment.

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Pneumofore
100 Years
 1923-2023

COMPANY DESCRIPTION

Pneumofore manufactures industrial vacuum pumps and air compressors and it is the preferred supplier of centralized systems with large capacity in the metal packaging industry. Established in 1923, the company revolutionized the compression of air with its ground-breaking Rotary Vane technology. Since then, the company has continued to research and develop pneumatic machines exclusively based on the Rotary Vane principle. Nowadays, thousands of Pneumofore units are running in the food and packaging industry worldwide.

With their continuous operation, low noise and low temperature, very few maintenance needs, high accessibility and 5-year warranty on efficiency, Pneumofore machines are the solution for customers looking for the lowest Total Cost of Ownership. Pneumofore units can be tailored according to the specific customer's needs. The altitude version of its compressors considers the low inlet pressure and runs with larger electrical motors and fans, so as to cope with the circumstance of 'thin air' when exceeding 2000 m above the sea level. Inversely, units installed nearby the sea are painted with saline-proof coatings in order to successfully prevent corrosion. Many tailored Pneumofore machines have been installed and run trouble-free for decades, as long as the maintenance is performed on a regular

basis by the customers themselves, thanks to the high OEM independence of Pneumofore solutions.

Round-the-clock operation in modern can factories benefits from various communication protocols and remote-control connections, which can be installed on vacuum pumps and compressors. Pneumofore also offers the entire piping system layout as a service for the most efficient pneumatic setup of the distribution network and for eliminating losses in capacity or pressure. Power consumption can be optimized thanks to the precise pressure-value settings, which are kept constant by Variable Speed drives. These are just some of the solutions that the company can offer for demanding energy saving requirements. Pneumofore has the expertise and

passion to engineer the most durable, efficient and environmentally-friendly compressors and vacuum pumps with the lowest Life Cycle Cost available on the market.

Due to rising energy costs, low pressure compressors at 4 bar(g) are preferred in modern 2-piece can factories to cover most pneumatic needs. The use of pressure reducers has to be avoided as the air blow-off or blow-in wastes energy. Pneumofore is specialized in low pressure compressors. Environmental concerns underpin the company's commitment to design reliable and durable state-of-the-art equipment. This commitment has contributed and still drives the success of this innovative company, that in 2023 is celebrating a century of pneumatic energy expertise.

www.pneumofore.com 



100 Years
 1923-2023

AIR COMPRESSORS AND VACUUM PUMPS

Pneumofore 

PNEUMOFORE.COM



In the picture: two units of Pneumofore UV100 vacuum pumps, air-cooled and equipped with VSD. Up to 7.000 m³/h each. Installed in Mexico

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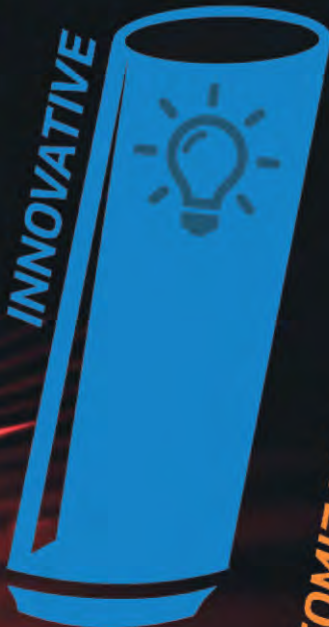


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HeatTek is proud to offer can makers around the world its most sustainable, customizable, innovative solutions in washers and ovens.

In 2000, some of the brightest minds in the oven and heat-treating industry combined hundreds of years of experience to form HeatTek.

The goal was simple - provide the highest quality equipment and back it with superior customer service and on-site support. To this day, HeatTek's "Never Settle" commitment ensures customers remain as profitable and efficient as possible.

With a focus on research and development as well

as a commitment to hiring and retaining great people, HeatTek continues to be a pioneer in the heat treat industry, earning the trust of more manufacturers every year.

SUSTAINABILITY

Equipment can include either traditional or alternative heating methods including convection, infrared, induction and resistance heating. HeatTek also incorporates technology that maximises recycled water and air. Net zero is always the goal. The Evolve Systems brand

highlights the "evolution" in canmaking and celebrates the contributions being made to support a thriving industry and a more sustainable planet.

CUSTOMISATIONS:

HeatTek will provide equipment that meets whatever specifications you have for your manufacturing process. You will be offered complete flexibility from design build to commissioning.

INNOVATION

HeatTek can provide dual energy as well as any automation and Industry 4.0 requirements you have. The maintenance-friendly features engineered into

HeatTek's equipment rival any available options.

HeatTek has been teaming up with leading canmakers to create manufacturing processes for both existing and new products. Because research and development are vital for any high-capacity innovation, canmakers need equipment experts to collaborate with in all stages of production planning. HeatTek's deep-rooted industry experience combines with their drive to explore new technology. The result is superior equipment that continues to bring canmakers to a higher level of excellence.

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Digital Can Printing On The Rise

Despite being relatively new, the use of digital printing for beverage and food cans in consumer packaging is gaining traction. Industry players offer their predictions on what this year will hold when it comes to digital printing technologies for metal packaging and give **THE METAL PACKAGER** a snapshot of the projects at hand

MERAV SHEFFER
HEAD OF MARKETING VELOX

Following the uncertainty of the past few years, 2022 has been somewhat stable for the digital printing and metal packaging industries. The want for more recyclable packaging and a demand in emerging markets is driving the need for beverage cans and other metal packaging, with print forecasted to be one of the beneficiaries of a 2.9% CAGR over the next five years, and digital print estimated to account for almost a quarter of the global print industry by 2032. It's little wonder that digital print technologies such as industrial direct-to-shape are set to benefit from the anticipated gains in metal packaging.

Sustainable printing

With an ongoing trend towards wellness, young people are gravitating towards more healthier drink options such as

non-alcoholic beverages, low calorie – high flavour drinks – mostly available in cans. The Gen X segment, consumers of beverages in cans like craft beer and hard seltzer, are realising the impact of single-used plastics on the environment and together with increasing state regulations favours more sustainable packaging. Businesses can do well to factor in the environment along with garnering support from the Gen Z and Gen X crowd by utilising direct-to-shape digital printing as it reduces plastic waste, energy consumption and the materials involved can be recycled.

Direct-to-shape digital printing is disrupting the packaging market by providing a solution for brands that don't have the minimum required for offset printing with can manufacturers, and use shrink sleeves and labels as their only alternative. Replacing shrink sleeves and labels with direct digital print translates

to saving tonnes of plastic among other benefits.

Velox has teamed up with Crown Holdings to deliver a market first digital decoration technology for aluminium cans. It provides key sustainability benefits by reducing several steps and equipment required throughout the decoration process, replacing shrink sleeves and labels with direct print – dramatically reducing materials and carbon footprint. Its inherent operational flexibility provides a set of benefits such as moving to print on demand, any quantity job runs and quick time to market that reduces storage, shipping and inventory which also provides a positive impact on the environment.

More direct-to-shape printing

The benefits of direct-to-shape digital printing for mass production volumes

RIGHT: **Hinterkopf's digital printing portfolio**



BELOW: **Velox has teamed up with Crown Holdings to deliver digital decoration technology**



“Replacing shrink sleeves and labels with direct digital print translates to saving tonnes of plastic”

such as 30,000 cans per hour that the Velox system offers, is a game-changer. When a decorating system provides superior quality and is running so fast, job run-lengths are flexible, and it's quick to switch between jobs - this can impact an entire business model. Suddenly, it's possible to offer a quicker time to market, print on demand, and flexibility with production by supporting brands with multiple SKUs and versioning.

Brands can now communicate with consumers through product packaging in new ways like special seasonal campaigns or social media interactions increasing brand loyalty. A mass production digital decorator means brands can use packaging that it's far more environmentally friendly compared to shrink sleeves or labels, as printing is done directly onto the can with zero plastic. Additionally, it eliminates

overproduction, storage, and shipping. The good news for small-to-medium-size brand owners is no big volumes or minimum orders are required as direct-to-shape digital printing can do small as well as medium runs cost-efficiently, and the supply time is much shorter.

Velox's proprietary digital technology is a breakthrough since it's comprised of a dedicated system architecture and a series of specially formulated inks, developed from the ground up for direct-to-shape applications. It provides superior decoration quality together with extremely high speed, operational flexibility, low total cost of ownership and built-in sustainability. Unique decoration features include selective digital gloss and matte, on-neck and on-chime printing, seamless 360 degrees decoration, wide colour matching, and more. The extremely high running

speed of up to 500 cans per minute allows for increased capacity and unlocks new markets while keeping a lower cost per copy and reducing the environmental footprint.

We expect significant opportunities in the direct-to-shape digital printing industry in the coming year and the trends highlighted by Velox are a few the transformations that will continue to shift the metal packaging sector towards direct-to-shape digital printing.

SAMUEL TEUFEL

PRODUCT MANAGER
KOENIG & BAUER METALPRINT

In the past, there have been several attempts to use off-the-shelf digital printing systems for the metal packaging market. These approaches haven't yet managed to penetrate the market. The bundling of expert competences is essential in order to be able to offer successful digital printing solutions for metal in the future. Koenig & Bauer is doing this together with Durst in the context of the current digital printing project and thus combining years of experience in sheet handling and (inline) coating with the best expertise in inkjet. ▶

► This is a promising strategy that aims to deliver a digital printing solution that's well thought-out.

What will this solution look like in detail? Specifically, the strategy involves embedding and adapting Durst's multi-pass digital printing unit in customised sheet handling components from Koenig & Bauer MetalPrint. This enables the system to meet the challenging demands of metal as a substrate. If desired, the system also includes an inline coating machine from Koenig & Bauer MetalPrint. The result is as follows: numerous print tests reveal outstanding print image quality on pre-coated sheets, realised entirely without plasma pre-treatment, primer stations or other pre-treatments. The standard 6C configuration can be extended to include partial inline white printing at customer request. The appropriate software for handling the print data will also be provided. Another, if not the most significant USP, however, is the ability to use the system as a conventional (print+) coating line. This is realised by the unique sheet handling concept after the digital printing unit, which is suitable for hybrid production purposes.

The system's unbeatably wide use case, in conjunction with the extremely attractive total costs of ownership, is the perfect opportunity for our customers to make the move to digital printing and future-proof their own production – without betting everything on digital. In the medium term, no digital printing technology will ultimately be able to displace conventional printing processes from the market. Rather, the hybrid production constellations are becoming more and more interesting to differentiate themselves from the competition in the future and to be able to react flexibly to customer wishes as well as to serve new markets.

PETER STRODE
CHIEF COMMERCIAL OFFICER
SLAC INTERNATIONAL

All can manufacturers are exploring ways into the digital, personalised or customised can market, in the belief that they will gain the upper hand with emergence of the Gen Z and MetaVerse concept. SLAC developed its first Digital Can Printer with inkjet technology in 2016, and recently rolled out the latest iteration of the mini can line SLAC Digital Printer – SC-



An example of SLAC International's digital printing capabilities

“Can manufacturers are exploring ways into the digital, personalised or customised can market”

DCP-200-G2. The new line lowers the traditional volume threshold for DWI and opens up low-cost opportunities for annual volumes of 50 million cans or less.

The non-contact printing technology the SLAC machine utilises has no changeover downtime; limitless design possibilities; designs stored in digital file; label change in a click; one-can-one-picture; high flexibility, even a lot size of 1 is possible; no ink changes; no roller cleaning, scalable print quality (print resolution and grayscale printing); high productivity; fast investment payback; and less time to market.

ALEXANDER HINTERKOPF
MANAGING DIRECTOR, HINTERKOPF

Before there were large can makers for filler companies and for the small fillers there was nothing. We have come across a new industry where small fillers are now buying wide upright cans from big can makers to use for their custom printed cans.

Because they only require small batches, from 12-500, this has created an entirely new industry and style of customer for us as we can cater to these small businesses in the service industry who are wanting small batches in short lead times.

We're excited to see where this can go for us. The rise of small drink company's such as craft beer, lager, or kombucha are far outweighing order numbers from the big companies such as Coca-Cola. We are currently working with 11,000 potential fillers who are looking for customised printed cans that are not plastic, but embody their company's branding.

So the artwork is challenging for us, but we can and are delivering the products that our customers want and need. The fact that we can produce sustainable packaging too alongside intricately designed artwork and full bottle and can wraps is very attractive to our smaller customers.



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SLAC is the most comprehensive and dependable supplier of can and end lines from Asia to America. SLAC's recently expanded product offerings combine the experience of industry leaders OKL, Intercan and Corima to deliver complete sets of high-speed easy open end (EOE) systems, can production equipment, image detection systems, and expert research, design, and assembly. With more than 500 combined years of canmaking industry experience, SLAC delivers a total commitment to quality and service for clients around the world.

