

CanTech

www.cantechonline.com

INTERNATIONAL

JULY 2023



Elevating the can

INSIDE

Filling focus: food

Coatings

Two-piece update

Tooling



ENGINEERS • MANUFACTURERS • CONSTRUCTORS



TOTAL SYSTEMS INTEGRATION

A well-defined approach to project execution and strong project management values are the core drivers of all Roeslein projects.

As a global leader in engineering, procurement, fabrication, and construction of modular turn-key systems, Roeslein recognizes that every project has unique specifications and requirements.

Because Roeslein separates process implementation from facility construction, the effects of delays and unforeseen circumstances on installation timetables are minimized. No matter the project's size or location, Roeslein's modularized, prefabricated, and preassembled approach provides consistency in the quality of the design, fabrication, installation, and most importantly, the results.



ENGINEERING

Roeslein's engineering approach spans the entire project scope.



PROCUREMENT

Roeslein's procurement team has built and secured industry relationships with vendors to ensure optimal quality and fair value.



FABRICATION

Roeslein can produce systems, equipment, and procured elements in a controlled shop environment to compress schedules while increasing safety standards.



CONSTRUCTION

Global construction and installation services at Roeslein focus on safety, quality, and driving a project's schedule forward.

CONTENTS

JULY 2023
Volume 30, Number 10



Cover image: Shutterstock

Subscription Information

DON'T MISS IT!

An annual subscription to *CanTech International* includes; direct priority mail delivery of 11 issues per year, weekly email newsletter and online access to digital back issues.

Print & Digital Issue One Year: £175 UK; £186 Europe; \$275 Rest of World
Print & Digital Issue Two Years: £302 UK; £320 Europe; \$473 Rest of World
Digital Issue Only (One year): £166/\$270

To subscribe please email subscriptions@bellpublishing.com or go to www.cantechonline.com/subscribe.

Send address changes to: CanTech International, The Maltings, 57 Bath Street, Gravesend, Kent DA11 0DF, UK.

© Bell Publishing Ltd 2023. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior written permission of Bell Publishing Ltd.

Printed in the UK by Buxton Press
ISSN: 1466-7851



REGULARS

- 5 Editor's note**
The humble can
- 7 News**
The latest world news
- 15 Events diary**
Dates for your calendar
- 16 Sustainability news**
- 41 Equipment**
- 42 Products**
A round-up of product news
- 47 Buyer's Guide**
- 62 Insight**
Roberto Baroni notes how canned meat provided relief to Americans during the Dust Bowl storms during the 1930s

FEATURES

- COATINGS**
- 19 AkzoNobel makes a major commitment to ensure the safety and quality of canned food and beverage products for North American consumers**
- 20 Joseph Campagna at Sherwin-Williams explains the development of the company's valPure V70 epoxy coating technology**
- 22 TWO-PIECE UPDATE**
Simon Jennings discusses the beverage can market in South Asia, as well as its key players and trends
- 24 IN REVIEW**
Alex Rivers provides an overview of the Aluminium Federation's Sustainability Strategy Day, held in London in June
- 26 FILLING FOCUS: FOOD**
Andreia Nogueira explores how tourism and the economic crisis have helped to advance the status of food cans in Portugal



- 29 AUTOMATION**
Rockwell Automation's Andreu Cuartiella discusses the company's expertise in predictive maintenance
- 30 CANS FOR DIY**
MPMA's Robert Fell details the success of Do It With Cans, the website showcasing DIY and craft products sold in metal packaging
- 32 TOOLING**
Wallram Group outlines the tooling developments it has seen during its 50 years in the field
- 34 QUALITY CONTROL**
Evert van de Weg speaks with Innosen's Luc Nelen about his involvement in the birth of automated quality control in can making
- 37 EUROPEAN ENERGY UPDATE**
Vladislav Vorotnikov asks, 'is the energy crisis really over?'

IN NEXT MONTH'S ISSUE:
SUPPLIER PROFILES
AI & smart technology

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

To meet the increasing demand, Bunting made a major investment by opening a new facility exclusively for its can decorating cylinder operation. The semi-automated facility will require less labor and feature a moderate degree of machine redundancy to reduce supply chain disruptions for decorator cylinders.

Bunting's decorating cylinders are machined to the tightest tolerances in the industry, so you can achieve optimal plate registration and print accuracy.

See why canmakers around the world are choosing Bunting for magnetic decorating cylinders.



Platemaster™
Shaft & Cylinder



**NEW
IN 2023**
CONE
Shaft & Cylinder



**NEW
IN 2023**
ANC/Rexam
Shaft & Cylinder



Rutherford™



Hinterkopf, Mall/Herlan,
and Packsys Global style



Concord™



500 S. Spencer Road | Newton, Kansas 67114 | USA | +1 316-284-2020
Newton@BuntingMagnetics.com | BUNTINGMAGNETICS.COM



The humble can

From its humble beginnings as simply a solution for storing food, the can has come a long way. This month's edition showcases this growth journey, detailing how the can is now being elevated above the rest of the packaging options available to consumers.

One important aspect to consider in this journey is safety. On page 19, read about how AkzoNobel is making a commitment to this with an investment in packaging coatings at its new pilot manufacturing plant in Huron, Ohio (US). Additionally, on page 20, Joseph Campagna at Sherwin-Williams explains the development of the company's valPure V70 epoxy coating technology, which ensures both safety and sustainability regulations are met.

Producers of primary and secondary aluminium production must have sustainability at the forefront of their operations, and in June, I attended the Aluminium Federation's Sustainability Strategy Day, where this complex topic was addressed (page 24).

Of course, energy has a huge part to play. On page 37, Vladislav Vorotnikov provides an update to the energy crisis that hit Europe toward the end of 2022, and asks whether the

crisis has really been averted, or whether there are further hurdles to come for metal packaging manufacturers.

Someone who has seen his fair share of challenges throughout a varied career, is Luc Nelen. On page 34, he speaks to Evert van de Weg about his involvement in the area of automated quality control in can making, and his journey to becoming president of the Philippines-headquartered company, Innosen.

We move from Southeast Asia to South Asia on page 22, where Simon Jennings examines the beverage can markets there, and the opportunities blooming, from his position as chairman of Pakistan Aluminium Beverage Can.

Consumers are always the driving force behind innovation, and the industry must act on trends that emerge. Recently, tourism in Portugal has resulted in a boost for its canned food products, as Andreia Nogueira explores in our filling focus on page 26.

Enjoy the issue, and remember that next month is our bumper Supplier Profiles edition!

Alex Rivers, Editor
CanTech International

Editorial Advisory Board



Saket Bhatia Senior Vice President, Hindustan Tin Works



Simon Jennings Owner and Advisor of Nomis Consultancy



Simone Vooijs, Director Technical, Downstream Operations, Tata Steel



Evert van de Weg Independent Metal Packaging Expert



Robert Gary Chief Commercial Officer, Stolle Machinery Company



Andrew Truelove Senior Vice President, CarnaudMetalbox



Patrick Heskins Chief Executive of the British Aerosol Manufacturers' Association

CanTech
INTERNATIONAL

Editorial Director
Sarah McRitchie
sarah@bellpublishing.com

Editor
Alex Rivers
arivers@bellpublishing.com

Digital Editor
Maddy Barron
maddy@bellpublishing.com

Associate Editor
Kathryn Brand
kathryn@bellpublishing.com

Designer
Hannah Walsh
prepress@bellpublishing.com

Events Manager
Lauren Hine
lauren@bellpublishing.com

Accounts
Yee Yau
accounts@bellpublishing.com

Classified Sales
Flora McRitchie
flora@bellpublishing.com

Publisher
Mark Neilson
mark@bellpublishing.com

Publishing Director
Neil McRitchie
neil@bellpublishing.com

Follow **@Bell_Publishing** on Twitter or LinkedIn for regular snapshots from all of our magazines.



Editorial & Sales Office:
57 Bath Street, Gravesend Kent DA11 0DF, UK
Tel: +44 1474 532 202 Fax: +44 1474 532 203

Taiwan Sales Agent:
Worldwide Services Co Ltd
11F-B, No. 540, Wen Hsin Road, Section 1,
Taichung, 40848, Taiwan.
Tel: +886 4 2325 1784 Fax: +886 4 2325 2967
Email: wilson@acw.com.tw
Web: www.acw.com.tw

Japan Sales Agent:
Yukari Media Incorporated. YMI bldg. 3-3-4,
Uchihirano-machi, Chuo-ku, Osaka 540-0037
Japan
Tel: +81-6-4790-2222



*Standardize
Perfection
All Around
The World.*

CANTECHSM061 22023

Reproduce global perfection - promptly!

Brand owners, designers, and metal decorators must ensure that color accuracy crosses all borders. Perfection comes standard with the INX 2-Piece Metal Color Catalog and the free Adobe™ Digital Color Library. This is the first true color standard for metal decorating on beverage cans. It streamlines the process, so you'll be able to select, communicate, and approve color efficiently.

Learn more about INX's resources for Metal Decorating at [INXColorPerfection.com](https://www.INXColorPerfection.com)



Novelis signs new contract with Coca-Cola

Novelis has signed a new long-term contract with Coca-Cola Bottlers' Sales & Services Company, which is the contracting agent for The Coca-Cola Company's authorised North American bottlers (CCBSS).

Under the agreement, Novelis will supply Coca-Cola's authorised North American bottlers with aluminium can sheet for The Coca-Cola Company's family of brands. This includes supply from Novelis' plant in Bay Minette, Alabama, which is currently under construction and expected to begin commissioning in 2025. Under the agreement, The Coca-Cola North American bottlers, through the CCBSS and Novelis agreement, have committed to purchasing a confidential volume of aluminium can sheet over a multi-year period.

"This new long-term contract builds on a decades-long relationship between Novelis and the Coca-Cola system, and further strengthens Novelis' position as the leading provider of aluminium for beverage cans," said Steve Fisher, president and CEO of Novelis. "This contract validates our investment in expanding rolling and recycling capacity in North America and solidifies a strong future for sustainable aluminium as the beverage packaging material of choice."

The contract includes an agreement for closed-loop recycling, highlighting both companies' commitments to sustainability. Through closed-loop recycling programmes, Novelis directly takes back the manufacturing scrap generated during the can making process, recycles it and converts it into new can sheet, which is then made into new beverage cans. In addition to this continuous loop, Novelis recycles more than 80 billion used beverage cans per year into new aluminium for beverage packaging. These efforts result in lower-carbon products, as recycling aluminium is approximately 95% less energy intensive than making primary aluminium, resulting in 95% less carbon emissions.

Novelis expects demand for aluminium beverage can sheet to grow at a 3% CAGR from 2022 to 2031. The demand growth is driven by consumer preference for more sustainable products and size variety, as well as more beverage types being packed in cans, including water, energy drinks, soda, beer, wine, hard seltzers and ready-to-drink cocktails.

Dan Coe, chief procurement officer of The Coca-Cola Company, stated that "the evolving role on behalf of The Coca-Cola Company and our Bottlers is to build a resilient domestic supply chain, thus enabling sustainable long-term growth. We recognise Novelis as a leader in sustainability, committed to supporting our 2030 World Without Waste Targets."

Demonstrating the strength of the aluminium beverage packaging market, the majority of the Bay Minette plant's capacity for beverage can is already contracted.

Novelis' new, low-carbon facility in Bay Minette will be the first fully integrated aluminium manufacturing and recycling plant built in the US in nearly 40 years and is expected to create up to 1,000 new jobs. Boasting an initial capacity of 600,000 tonnes of finished goods for the North American can and automotive markets, it will be powered by renewable energy, use recycled water and operate as a zero-waste facility. Additionally, Novelis is working toward a goal of achieving net carbon neutrality at Bay Minette.



Image: Shutterstock



Image: Shutterstock

Domestic aluminium demand in North America down in Q1

The Aluminum Association has released preliminary estimates as part of its monthly Aluminum Situation statistical report, showing demand for the aluminium industry in North America (US and Canada) declining 3.5% through the first quarter of 2023. This follows an estimated 4.8% demand growth through the end of 2022 and comes during a period of significant investment by US aluminium producers, fabricators and recyclers.

"The picture for the US aluminium industry remains very strong," said Charles Johnson, president and CEO of the Aluminum Association. "Looking ahead, demand for recyclable and sustainable materials, ongoing infrastructure investment and robust trade enforcement are all making America a very attractive place to make aluminium – as evidenced by the fastest pace of investment for the industry in decades."

Since 2021, Aluminum Association member companies have announced nearly \$6 billion in domestic manufacturing operations (\$9 billion over the last decade) – including new, US-based greenfield facilities for the first time since the 1980s.

A recent automaker survey by consultancy Ducker Carlisle showed that aluminium use will grow by around 100 pounds per vehicle from 2020 to 2030, as electric vehicles continue to penetrate the market.



WASTE WATER TREATMENT & ZLD



ITALY

www.cieeng.com

JOIN US!

ZERO LIQUID DISCHARGE? YES WE CAN!

A system able to offer the **total reuse** and recycling of contaminated water coming from the washer.



They already have it !

WHAT ARE YOU WAITING FOR?



CONTACT US:

+39 029810470
INFO@CIEENG.COM
WWW.CIEENG.COM



WASTE WATER TREATMENT & ZLD
ITALY
www.cieeng.com





Dan Aggertoft Christensen. Image: Envases

Envases Group acquires Domiberia

The Envases Group, a global provider of rigid consumer packaging solutions, has entered into a definitive agreement to acquire Domiberia, a Spanish manufacturer of metal packaging for food and industrial products in Spain and the Netherlands from Everest Holdings/The Domínguez Family, in an all-cash transaction.

The acquisition is subject to customary closing conditions, including competition authority approval, and is expected to close by Q3 2023.

According to Envases, this acquisition will allow the group to be even closer to its customers and will broaden its geographical reach in Europe.

Domiberia is the second largest Spanish metal packaging company, operating six plants in its home market and one in the Netherlands with a 600+ strong team. With this agreement, Envases Europe will have more than 21 production facilities spread across Europe and a total workforce of close to 3,000 individuals. "By bringing the Domiberia plants and talent pool into our family we will ensure a stronger, wider, and more diverse footprint in Europe, for the benefit of our employees, customers and stakeholders. It is a perfect match for us," said president of Envases Europe, Dan Aggertoft Christensen.

"Envases Europe will continue the good work done by Domiberia and ignite our growth even further," he said.

Envases Europe is a provider of rigid packaging solutions in Europe, with headquarters in Løsning, Denmark, and plants in Denmark, Sweden, the UK, Germany, the Netherlands, Switzerland, Austria and Hungary. It is part of the Envases Group, a privately owned company based in Mexico.

ITSCI fully aligned with OECD Guidance

The ITSCI Programme for Responsible Mineral Supply Chains has been independently confirmed to be fully aligned with OECD due diligence guidance. ITSCI is the first joint industry initiative to announce a successful second Alignment Assessment (AA) and the first to publish the full report with the completed tool, demonstrating the organisation's sustained commitment to continuous improvement and transparency.

The second AA was commissioned by ITSCI and conducted by the independent advisory firm Kumi Consulting, using OECD methodology. It confirms that ITSCI's activities and operational requirements are explicitly designed to implement the recommendations of the OECD Guidance.

According to the International Tin Association (ITA), this is a tremendous achievement, not least due to the challenges faced on a day-to-day basis in this complex area of operation in central Africa.

Mickaël Daudin, ITSCI programme manager, said, "ITSCI operates in the face of multiple challenges related to security, infrastructure, and complex local environments in CAHRA, as well as limited funding. Yet these results demonstrate that we continue to make significant progress and that facilitating effective due diligence on minerals from CAHRA promotes responsible sourcing practices and leads to positive long-term and lasting change at scale."

Colep Packaging CEO named MPE president

Colep Packaging has announced that its CEO, Paulo Sousa, has been designated president of Metal Packaging Europe (MPE) for the 2023-2025 mandate.

The election took place during the MPE's Annual General Meeting, which was held in Porto, Portugal, in June, gathering almost one hundred participants and representatives of the European metal packaging industry.

Paulo Sousa, who succeeds Oliver Graham as president of the Association, reinforces "the importance of gathering the sector around the promotion of the advantages of metal, ensuring the growth potential of the industry."



Image: Colep Packaging

ECLIPSE™

Leak Detection Technology

**PRIME
CONTROLS**
Metal Sensing Solutions

FOR CAN BODIES

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.



HIGHLIGHTS

- .5 mil detection at speeds over 5,000 cans per minute – outperforming existing light testing technology
- LED-based light source rated at 6+ years life
- All solid-state detection and illumination circuitry
- Superior system performance and responsiveness compared to other light testers
- Drop in design for easy installation and mechanical mounting
- Upgrades inefficient halogen bulbs to more efficient and accurate LEDs. Less downtime, waste and costly repairs.
- Reduced energy consumption delivering significant cost savings
- Ethernet communications

PRIMECONTROLS.COM
+1.937.435.8659

Hyperion to acquire Dura-Metal

Hyperion Materials & Technologies has announced an agreement to acquire Dura-Metal Products Corporation (Dura-Metal), a US, Pennsylvania-based company that manufactures wear- and corrosion-resistant precision tools and components from cemented carbides, advanced technical ceramics, ferroalloys, and high-speed steels.

"Dura-Metal has exceptional capabilities in machining and grinding of large components, electrical discharge machining (EDM), honing, lapping, and jig grinding that will expand and enhance our ability to serve customers in key markets that rely on custom precision wear parts, including aerospace, energy, battery manufacturing, electronics, medical, metalworking, and food and beverage," said Ron Voigt, chief executive officer of Hyperion.

"We're excited to bring the team into the Hyperion family, and we're already aligned in many important areas, including safety, quality, and building long-lasting relationships with our valued customers and business partners."

Dura-Metal has been making precision ultra-hard parts and tooling

for more than 50 years. The company employs more than 100 people at its 48,000-square-foot manufacturing facility about 30 miles southeast of Pittsburgh.

"We're excited to combine Dura-Metal's application engineering and product finishing abilities with Hyperion's materials science expertise and global footprint," said Joe Freiland, CEO of Dura-Metal. "We're looking forward to this next chapter in our history and the exciting possibilities we can achieve together as we serve our collective and growing customer base."

In addition to serving its existing customers, Dura-Metal will become a vital part of the Precision Solutions by Hyperion business unit that provides custom solutions and components for the most demanding applications. Precision Solutions includes Hyperion's global facilities and maximises the collective strength of additional world-class manufacturers Crafts Technology, GLE Precision and Aggressive Grinding Service (AGS) to provide specialised finishing capabilities for tailored, high-quality wear components.

Edwards joins INX as VP of digital division

INX International Ink Co has announced the hiring of Paul Edwards as the new vice president of the digital division. A longtime and successful printing industry executive, he reports to president and chief executive officer, Bryce Kristo.

Edwards joins INX after serving as the vice president of Ink Technology at EFI since 2011. He directed a team of more than 60 chemists while leading the product development effort and maximised innovation for several business units, including display graphics, ceramics, textile, corrugated, wood and labels. He also managed the print-head technology and analysis group.

He was promoted to that position after serving as the senior director of ink research and development for nearly three years. All told, Edwards was at the company for 19 years after beginning as the director of development at Jetrion in 2004. He began his career in the UK as a project manager and worked in technical positions at Domino Printing and Flint.

"We are very excited to have Paul Edwards join the INX International Ink Co team," said Kristo. "He brings with him over 30 years of leadership and technological experience within the analog and digital imaging field, both from a fluids and printing system perspective. We are focused on digital printing as a primary growth platform. His extensive experience in executing strategy within this market space will greatly help us drive this growth effort successfully in the future."

"The Sakata INX Group has a long and

successful history of providing quality inks and technology. I am excited to be part of the INX family and be able to create differentiated and high performing digital products for our customers," said Edwards. "For much of my career, I have been involved with driving the analog to digital revolution in print, and in the development and commercialisation of digital inks, coatings, and printing systems. Over the last few years INX has embarked on a digital journey for their customers, and I know my skills and experience can help accelerate the progress made by the team."



Image: INX

Heinz to build new cookhouse for canned beans

A new cookhouse at the Heinz factory in Wigan, UK, has been given the go-ahead by the local council, as its old facility is in need of an upgrade due to health and safety concerns.

Kraft Heinz plans to build a new structure around the existing cookhouse once it is weatherproof. According to the *Manchester Evening News*, an extension will also go ahead on the western elevation of the building during phase two of the development which will allow future provision for an additional cooker.

"The Phase 2 additional capacity of the fourth cooker installation has the potential to create additional capacity which may lead to additional jobs," a planning statement said.

"Ultimately, the proposal is necessary to maintain the safe day-to-day operation of the site and existing processes, which gives security to existing staff numbers."

The Walthew House Lane site in Orrell is one of the largest food processing plants in Europe and the largest Heinz facility in the world. It produces over a billion cans of food annually.

Construction works at the site are expected to last approximately nine to 12 months, Heinz have reportedly estimated.



Image: Kraft Heinz



WE ENGINEER YOUR SUCCESS

ENGINEERING

DELIVERING CAN MAKING EXCELLENCE ACROSS THE GLOBE



GLOBAL
EXPERTISE



SERVICE
SUPPORT



GENUINE OEM
SPARES



SEAMER
TOOLING



TOOL
SHOPS



HIGH
PERFORMANCE
MACHINERY



AWARD
WINNING

www.cmbe.com

T: +44 (0)1274 846200



reformat™



DTE secures funding anchored by Novelis and EIC fund

DTE, an innovator in decision support for the metals production and manufacturing industry, has announced the successful completion of a \$10 million Series A2 round to further accelerate DTE's innovation and expand its reach. The raise includes a distinguished group of investors, with participation by aluminium industry leader Novelis, venture capital firm Metaplanet and the European Innovation Council (EIC) Fund, along with existing investors Chrysalix Venture Capital and Brunnur Ventures.

DTE's first-in-industry, in-line elemental analysis technology complements and replaces current slow, expensive and manual methods for process and quality control. Its proprietary LP-LIBS sensor technology is able to deliver reference-grade elemental analysis directly from high-temperature liquid metals in less than 60 seconds from sampling. This capability provides enhanced process control and decision support.

"We are delighted to secure this substantial funding round, which is a significant milestone for DTE, validating the transformative potential of our technology," said Karl Matthiasson, CEO and founder of DTE. "We are delighted and honoured to welcome Novelis, Metaplanet and the EIC Fund as new investors on our journey to transform the metals production and manufacturing industries. The additional capital secured in this funding round finances expansion of our growing sales pipeline and will accelerate our technology and product development capabilities, as we continue to push the boundaries of manufacturing decision intelligence and predictive analytics."

"As a strategic investor, Novelis recognises the significant potential of DTE's LP-LIBS technology and the opportunities for its

deployment within the metals production, manufacturing and recycling value chain," said Derek Prichett, senior vice president, corporate development at Novelis.

"DTE's solution, with its live elemental analysis capabilities, offers a promising avenue for optimising production processes and enhancing product quality. In addition to using the technology to support Novelis' own goals for carbon reduction, which include a 30% reduction by 2026 and net carbon neutrality by 2050 or sooner, we are also excited to aid DTE in their broader mission to help our industry transform towards ever cleaner, more sustainable production."

"We are impressed by DTE's unique technology and the potential of their actionable decision support platform to optimise production in the metals industry," said Marcin Nowak from the EIC Fund, leading the investment on behalf of the EIC Fund. "The EIC Fund is proud to support DTE to create value opportunities as well as streamline and improve efficiencies within the operations of one of Europe's most energy intensive and emissive industries."



Karl Matthiasson. Image: DTE

PepsiCo to close facility in Indiana

PepsiCo's US beverage distribution plant in Muncie, Indiana, is set to close "in the coming months," with operations moved to other local distributors.

In a statement, the company said, "PepsiCo is always evaluating our network solutions and reviewing the best possible ways to optimise our service. With many recent distribution changes, we have determined that in the coming months, PepsiCo Beverages North America's operations in Muncie, Indiana, will close and be redistributed to neighbouring locations. We will be working closely with leadership, unions, and other stakeholders to ensure a smooth transition during this process with minimal impact to our employees and customers."

etma presents Tube of the Year 2023 winners

Winners of the European Tube Manufacturers Association's (etma) Tube of the Year 2023 competition were announced in Amsterdam at the end of May.

Etma's annual conference and the third World Tube Congress, also organised by etma, provided a suitable setting for the award ceremony. A jury of seven representatives of etma member companies selected the winners in the categories of aluminium tubes, plastic tubes, laminate tubes, sustainability and prototypes.

This year's winner in the aluminium tube category was The POREfessional tube by California-based Benefit Cosmetics, which belongs to the luxury group LVMH. The cosmetics brand used aluminium tubes produced by Alltub France, made with more than 95% post-consumer recycled (PCR) aluminium, for the relaunch of its fast-smoothing pore mask.

First place in the sustainability category also went to an aluminium tube from the Japanese consumer goods company, Kao, as part of the reconfiguration of the packaging of its well-known product Goldwell TOPCHIC Permanent Hair Color. The tubes are produced by the German manufacturer, Linhardt.

In the prototype category, the jury chose a range of aluminium tubes from Alltub Italia as the winner. These tubes allow for a wide variety of unique and refined external coating finishes and effects, including Soft Touch, Pearl Glaze, Iridescent Glaze or Multi-Glitter.



Image: etma

hubergroup Print Solutions restructures UV poly/tin offset portfolio

'Everything from a single source' – with this aim in mind, international ink specialist hubergroup Print Solutions has revised and strengthened its UV offset portfolio for non-absorbent substrates.

The portfolio includes printing inks, varnishes, and fountain solution additives that are optimally matched to each other and thus enable a smooth printing process. Thanks to intensive development work, the globally available food and non-food ink series NewV poly (MGA) and NewV tin (MGA), as well as the varnish series, NewV lac (MGA), are now also formulated to be sensorially neutral and PTFE (polytetrafluoroethylene)-free.

"Our customers are our focus, so it was important to us to provide printers with a well-matched and globally available portfolio with the best printing performance," Roland Schröder, product manager UV-Offset at hubergroup, explains the new positioning as a complete range, which not only includes inks, but also varnishes and fountain solution additives.

Even beyond that, there are some changes in hubergroup's UV offset portfolio: for example, the ink and varnish series are now formulated PTFE-free in order to comply with the regulations of the American market, as well as the requirements of important brand manufacturers, and to be prepared for future specifications in other global markets. In addition, the NewV lac series is now free of benzophenone, a substance that is considered controversial due to its potential carcinogenic effects. There is also a new NewV tin LED series for metal packaging, which includes UV inks and varnishes for LED drying.

According to hubergroup, the common feature of all products is very good reactivity and adhesion. Roland Schröder commented, "With this repositioning, we have designed our portfolio future-oriented. At the same time, however, it was important to us that printers can continue to rely on a stable printing process with high-quality printing results. Our international service staff are therefore available for our customers with their expertise at all times and accompany the complete project handling from the idea to implementation and continuous further support."

Tools such as the company's own HDCC colour management system, which guarantees customers the same colour all over the world, round off the service offering.



Image: hubergroup

PERFORMANCE RELIABILITY VALUE

Can Need
Seam-X-T20
Full Automatic Seam Corner/Non-destructive & Automatic sampling

MODULAR ON-LINE SEAM ANALYSIS SYSTEMS FROM

On-Line fully automatic non destructive Seam Analysis Systems

Can Need
Canneed Instrument Ltd.

info@canneed.com

Join our impressive list of exhibitors at Asia CanTech!

Updating you on the dates for your diary in the world of metal packaging

JULY 2023

UV DAYS

The focus of IST Metz's UV Days 2023 will be the inauguration of the LED LAB and IST Metz's new UV Technology Campus, which IST METZ will use as a research and knowledge platform.

Date: 4 - 6 July 2023

Location: Nürtingen, Germany

Website: www.uvdays.com

ALUMINIUM CHINA

Bringing together high-quality resources from the aluminium industry and end-use applications at home and abroad to comprehensively display innovative technologies and products.

Date: 5 July 2023

Location: Shanghai, China

Website: www.aluminiumchina.com

SEPTEMBER 2023

PACK EXPO LAS VEGAS

The event bringing together packaging and processing solutions suppliers and end users from 40+ vertical industries.

Date: 11 - 13 September 2023

Location: Nevada, US

Website: packexpolasvegas.com

UK METALS EXPO

The event bringing together the entire metals supply chain, from primary metal manufacture to supply chain management, processing metals, fabrication, machinery, engineering, surface coatings and recycling.

Date: 13 - 14 September 2023

Location: Birmingham, UK

Website: ukmetalsexpo.com

LONDON PACKAGING WEEK

Combining the four events of Packaging Première, PCD, PLD and Food & Consumer Pack.

Date: 21 - 22 September 2023

Location: London, UK

Website: www.londonpackagingweek.com

IMDPA ANNUAL CONFERENCE

The annual conference of the International Metal Decorating and Packaging Association.

Date: 26 - 28 September 2023

Location: Illinois, US

Website: metaldecorators.org

OCTOBER 2023

BAMA FORUM & AWARDS

The British Aerosol Manufacturers Association hosts its Forum & Awards Dinner for the third year running.

Date: 11 - 12 October 2023

Location: Chester, UK

Website: bama.co.uk/event/52

ASIA CANTECH

The conference and exhibition by *CanTech International* and *Worldwide Expo*, bringing together global suppliers, can makers and fillers from across Asia.

Date: 30 October - 1 November 2023

Location: Bangkok, Thailand

Website: asia-can.com

NOVEMBER 2023

BRAUBEVIALE

The international capital goods specialist exhibition for the beverage industry.

Date: 28 - 30 November 2023

Location: Nuremberg, Germany

Website: braubeviale.de



Contact us **NOW**
lauren@bellpublishing.com

asia-can.com

Background image: Cottonbro/Pexels

Hydro to build aluminium recycling plant in Spain

Hydro has signed an agreement to purchase land in Torija, Spain, with the aim of constructing a state-of-the-art aluminium recycling plant.

The new plant will have 120,000 tonnes of annual capacity and around 65 direct employees. The facility will strengthen Hydro's capabilities to produce low-carbon aluminium and ensure more scrap is kept in Europe.

The agreement has been signed with a subsidiary of the Pulsar Properties Group. The total project investment is currently estimated to be between €130-140 million, depending on the final facility design, market conditions and macroeconomic development. Hydro aims to make a final investment decision by the end of 2023.

"The European and Iberian market for aluminium continues to grow. This investment will be an important step towards Hydro's ambition to recycle more post-consumer aluminium, strengthening our position to capture value from growing demand for greener and circular aluminium," said Eivind Kallevik, executive vice president for Hydro Aluminium Metal.

He continued, "Since aluminium is infinitely recyclable, keeping post-consumer scrap in the loop is crucial, as recycling requires 95% less energy than primary production. Increased recycling of post-consumer scrap is an opportunity for Europe to secure domestic access to aluminium, which is a strategic issue in view of multiple crises facing Europe."

The demand for aluminium towards 2030 in Hydro's main markets is set to grow at around 3% per year, and low-carbon aluminium demand is expected to outpace the rest of the

market. However, every year, around one million tonnes of used aluminium scrap leaves Europe.

"Thanks to our state-of-the-art technology and competent workforce, we aim to dig deeper into the European scrap pile. This investment will enable us to bring more low value scrap types back to life as value added products for electrical transport solutions, building systems and renewable energy applications that will drive Europe's green transition," said Kallevik.

The recycling facility in Torija will be capable of producing Hydro CIRCAL and other recycled low-carbon aluminium, with a CO₂ footprint below 4kg CO₂ per kg of aluminium.

Unique to Hydro, Hydro CIRCAL extrusion ingot contains at least 75% post-consumer scrap, certified by third party auditor, DNV GL, and has a market leading CO₂ footprint of only 2.3kg CO₂e per kg of aluminium. The Torija project will complement the offering from Hydro's plant in Azuqueca located nearby and bring a wider range of Hydro's value-added products to the Iberian market.



Sunset in Torija, Guadalajara, Spain. Image: Hydro

DEVELOPMENT

Productivity

QUALITY

INNOVATION

Responsibility

COMMITMENT

VISION

Sustainability

Engagement

Precision

Customer Support

WALLRAM GROUP

SOLUTIONS FOR PROCESS IMPROVEMENT

wallram-group.com

WALLRAM
CAN TOOLING & ENGINEERING

LIZZINI
INTELLIGENT GRINDING

RC DieGrind
DIE WORKING MACHINES

RIO TINTO EXPANDING LOW CARBON ALUMINIUM SMELTER IN QUEBEC

Rio Tinto has announced it will invest \$1.1 billion (CAN\$1.4 billion) to expand its state-of-the-art AP60 aluminium smelter equipped with low-carbon technology at Complexe Jonquière in Canada. The total investment includes up to \$113 million (CAN\$150 million) of financial support from the Quebec government.

The investment will add 96 new AP60 pots, increasing capacity by approximately 160,000 metric tonnes of primary aluminium per year, enough for 400,000 electric cars. As a result, there will be a total of 134 AP60 pots and a capacity of approximately 220,000 tonnes per annum. Construction will run over two and a half years, with commissioning of the new pots expected to start in the first half of 2026 and the smelter fully ramped up by the end of 2026. Once completed, the expanded smelter is expected to be in the first quartile of the industry cost curve.

This new capacity will offset the 170,000 tonnes of capacity lost through the gradual closure of potrooms at the Arvida smelter from 2024. In addition, Rio Tinto will add 30,000 tonnes of new capacity through the commissioning of the previously announced recycling facility at Arvida in the first quarter of 2025. These facilities will ensure Rio Tinto's casting facilities at Complexe Jonquière continue to provide value added products that meet customers' needs, including integrating recycled post-consumer aluminium into primary aluminium alloys.

The AP60 smelting technology was developed by Rio Tinto's R&D teams and is among the most efficient and lowest carbon technology currently available at commercial scale. When combined with the hydropower used at Rio Tinto's operations in Canada, it generates one seventh of greenhouse gases per tonne of aluminium when compared with the industry average, and half the emissions when compared to the technology currently used at the Arvida smelter.

The project will generate up to 1,000 jobs during the peak of construction and approximately 100 permanent jobs will be maintained as a result of the expanded smelter.

In addition to this investment in low-carbon aluminium, Rio Tinto is working with the governments of Canada and Quebec towards a deployment of the ELYSIS zero carbon aluminium smelting technology at its Saguenay-Lac-Saint-Jean facilities. With the current development pathway, ELYSIS aims to have its technology available for installation from 2024 and the production of larger volumes of carbon-free aluminium approximately two years later.

Rio Tinto and the government of Canada have also signed a memorandum of understanding that deepens their commitment to strengthen supply chains for low-carbon primary metals, critical minerals and other value-added products. The cooperation will also aim to support projects that have the potential to grow Rio Tinto's activities in Canada, including the current and future decarbonisation of the aluminium supply chain.

The investment in the AP60 smelter is already included as replacement capital expenditure in Rio Tinto's capital investment guidance for 2023 to 2025. The group's capital expenditure guidance of \$9 billion to \$10 billion in both 2024 and 2025 remains unchanged.



Image: rualuminas/Pixabay

**CONSISTENT
LEAK
DETECTION
YOU CAN
TRUST**



**Quasar™ Light
Detection detects
real-world leakers
consistently and
reliably.**

With sub-micron sensitivity and a false reject rate of less than three in a million, you can trust Sencon's Quasar™ Light Detection.

Our light detection systems are successfully safeguarding billions of beverage and food ends as they are produced all over the world.

**It makes sense to
specify Sencon.**

Find out more

www.sencon.com

SENCON

SENSING • TESTING • GAUGING

PPG sets 2030 decarbonisation targets

PPG has announced its near-term 2030 sustainability goals, including greenhouse gas (GHG) emissions targets that have been validated by the Science Based Targets initiative (SBTi). The company also marked strong progress against its environmental, social and governance (ESG) priorities, reporting increased sales of sustainably advantaged products, more efficient operations, strong momentum toward achieving diversity, equity and inclusion goals, greater supplier sustainability and strengthened support within communities where the company operates.

“PPG has long been committed to reducing the environmental impact of its own operations, and we are proud to have validated science-based GHG emissions targets that are in line with the expectations of the Paris Agreement,” said Diane Kappas, PPG vice president, global sustainability. “By raising our sustainability ambitions and increasing sales of sustainable solutions for our customers, PPG is advancing its leadership in the paints and coatings industry.”

PPG has committed to reduce absolute emissions from its own operations (scope 1 and 2) by 50% by 2030 from a 2019 base year. It has also committed to reduce absolute scope 3 GHG emissions from purchased goods and services, processing of sold products, and end-of-life treatment of sold products by 30% within the same timeframe. The company's emissions reduction strategy for its own operations includes energy efficiency projects and renewable energy sourcing. Within the value chain – or scope 3 – PPG is collaborating with suppliers to identify GHG emissions reduction opportunities and lower-carbon raw material sources. PPG recently signed an agreement with NRG Energy Inc that will enable four PPG paints and coatings manufacturing facilities and 62 PPG Paints stores in Texas to operate on 100% renewable electricity.

SCOTLAND DELAYS DRS TO 2025

Scotland's deposit return scheme is now set to be delayed until October 2025 at the earliest.

The flagship recycling scheme was supposed to launch in March 2024, but circular economy minister, Lorna Slater, said she had been left with no choice after the UK government excluded glass from the Scottish scheme.

The delay means that the Scottish scheme is likely to launch at the same time as similar proposals for other parts of the UK.



Image: Shutterstock

EVIOSYS SURPASSES EMISSIONS TARGETS

Sustainable packaging giant, Eviosys, has broken its own records and surpassed its yearly objectives in both CO₂ and volatile organic compounds (VOC) emissions, as detailed in its latest ESG report.

In 2022, Eviosys was awarded EcoVadis Gold Certification for its sustainability credentials. This award ranks the firm in the top 2% of over 100,000 suppliers assessed by EcoVadis that year, and recognises Eviosys as a global powerhouse for sustainability.

Furthermore, as a new signatory of the UN Global Compact – the world's largest corporate sustainability initiative – Eviosys is now turning to address its scope 3 emissions by introducing a new supplier code of conduct which, for the first time, requires their partners to comply with the sustainability principles of the programme, and align with the Sustainable Development Goals. This new code of conduct will see Eviosys conduct an extensive review of the entire supply chain and attribute ratings to suppliers in order to promote improved sustainability throughout.

Having succeeded in reducing greenhouse gas emissions scopes 1 and 2 by more than 10% in 2022, Eviosys has drastically surpassed its annual reduction target of 3.1% per production of a million normalised cans. With a cumulative reduction of 15% since 2020, Eviosys is already ahead of its plan for 20% reduction goal by 2027. This progress in 2022 represents almost twice the already impressive reduction in emissions detailed in the firm's 2021 report and puts Eviosys on track to achieve the Net Zero by 2050 goal laid out in the Paris Agreement.

Eviosys has also been seen to reduce VOC emissions by 10% within a year, thanks to the implementation of smart incinerators, better controlled activity and monitoring to save resources in its activities, and a continuous ambition to convert to water-based products.

Along the way, Eviosys is demonstrating its commitment to reducing emissions. Investments from the firm include new equipment such as smart high-economy oxidisers to reduce CO₂ emissions and new solar panels to deliver a 19% energy saving at specific plants. The solar panel installation at Eviosys' plant in Murcia will be one of the largest of its kind in Europe, with 8,411 solar panels. Additionally, Eviosys continues to open new facilities positioned close to customers, such as in Thailand with a new wall-to-wall factory, reducing transport related carbon emissions and eliminating the need for secondary packaging.

Reflecting on this year's progress, Laurent Leucio, EHS and sustainability director at Eviosys, said, “This year's ESG report shows our absolute dedication to sustainability. Achievements of this scale can only be accomplished by a holistic approach to reducing emissions, as Eviosys demonstrates by ensuring that we are all committed and investing at each stage of production and operations to limit our environmental impact and help our customers do the same.”



Image: Eviosys



Expanding resin investment in North America

AkzoNobel is making a major commitment to ensure the safety and quality of canned food and beverage products for North American consumers

AkzoNobel has announced a new pilot manufacturing plant at the company's Huron, Ohio facility, providing advanced capabilities for the company's next generation Accelshield packaging coatings, connecting innovation and research and development with trials and production.

Huron's pilot plant is an extension of the work that has been done at the company's Strongsville global resin research and development centre, and ensures AkzoNobel is consistently meeting market needs as it efficiently scales up resin innovations. The company hosted a grand opening ceremony on 14 June 2023, which was attended by employees and community leaders.

Huron's new pilot plant is one in a network of pilot plants globally, and Ohio serves as AkzoNobel's largest footprint in North America (NAM), with locations in Huron, Strongsville, Springfield and Columbus.

Manoel Rodrigues, regional commercial director for metal coatings, Americas, stated, "As AkzoNobel partners with the industry to ensure the safety and quality of the canned food and beverage supply in North America, we have taken a major step

to enhance our ability to innovate and develop next generation packaging coatings with speed and agility.

"This new pilot plant will accelerate our time to market for new products and technologies. It also further builds on our customer-centric approach and strengthens the capability to adjust specifications to customer needs. The addition of this pilot plant is an exciting next step for the future of our Huron factory and our continued success in the packaging coatings industry."

AkzoNobel has invested in expanding in-house resin manufacturing as part of its global resin strategy and Huron is the next step in expanding resin capabilities in North America.

Nate Norris, NAM manufacturing and supply chain director, stated, "Huron's pilot manufacturing plant strengthens our industry-leading resin expertise as we further invest in our resin research and will help us secure sustainable business growth. As we continue to support our innovation pipeline, the pilot plant will also improve our ability to transfer technology among our sites and enhance our global supplier capabilities." 

Ribbon cutting of the new AkzoNobel pilot plant in Huron, Ohio. Image: AkzoNobel

Innovating sustainably

Joseph Campagna, vice president for marketing, packaging coatings at **Sherwin-Williams**, explains the development of the company's valPure V70 epoxy coating technology

In practice, being at the forefront of innovative packaging technologies means identifying current and future industry challenges and creating high-performing, safe, and sustainable coatings that set the pace for the packaging coatings market.

In recent years, this has meant staying ahead of emerging regulations. Over the past decade, the packaging coatings industry has been moving away from products containing Bisphenol-A (BPA), PFAS, and other Chemicals of Concern (CoCs), defined here as chemicals that are the focus of heightened regulatory scrutiny or limitations. Coating manufacturers have been challenged to develop new technologies that meet the superior performance standards of traditional BPA-epoxy coatings – while innovating with an ever-shrinking selection of raw materials.

As the regulatory environment becomes more restrictive, simply ensuring compliance with current food contact regulation does not go far enough in creating enduring solutions for the industry. Rigorous R&D methodologies, state-of-the-art chemical screening and toxicological testing are essential to bring solutions to the market that are safe, sustainable and offer superior technical performance.

Sherwin-Williams valPure V70 technology is the packaging industry's only epoxy coating that does not contain BPA and has been formulated without other common CoCs, like styrene. The development of valPure V70 demonstrates that both regulatory and performance challenges can be overcome through rigorous R&D and a unique approach to product development.

Sherwin-Williams
beverage can pack
types



Why epoxy technologies are here to stay

Historically, epoxy technologies containing BPA have offered superior performance, enabling universal application across different packaging types. They have been ubiquitous across the beverage can market because they are the best performing technologies. However, with the European Food Safety Authority (EFSA) releasing its final opinion to significantly lower the tolerable daily intake (TDI) for BPA, substituting legacy epoxy coatings without compromising safety, performance or high-speed application is a key challenge for the industry.

When the industry began exploring different coating technologies to transition away from BPA, most suppliers started with acrylic and polyester solutions. At Sherwin-Williams, we quickly recognised that for many applications, these chemistry platforms simply could not match the performance of traditional epoxy coatings with respect to flavour performance, pack performance or ease-of-application.

To solve this problem and create non-BPA coatings that matched epoxy performance, Sherwin-Williams committed to not only formulate, but exhaustively test and identify an epoxy alternative, offering the same superior performance without the use of BPA. Recognising the performance challenges of acrylic beverage coatings early on led us to explore more innovative solutions.

To achieve this, we pioneered our state-of-the-art Safety by Design methodology to ensure that any chemicals screened and identified were safe for intended use, not endocrine active, and would stand the test of time in an ever-changing regulatory environment. Safety by Design is modelled on preclinical pharmaceutical safety evaluations, with a data-led and science driven approach at its core.

Through extensive screening, we identified Tetramethyl Bisphenol F (TMBPF), a chemical that is structurally different to other bisphenols and that is not estrogen active. Once identified, Sherwin-Williams established an entirely new body of evidence to demonstrate the non-estrogenic nature of TMBPF. This consisted of commissioning tests conducted by contract laboratories, validating the data through our Safety by Design process, and engaging third parties for independent estrogen activity testing and evaluation.

For instance, Dr Ana Soto, a pioneering researcher who has conducted over 25 years of research on endocrine-disrupting chemicals, concluded that TMBPF has a toxicological profile that is distinctly and fundamentally different from other bisphenols due its inability to alter estrogenic functional pathways. The unique nature of the chemical structure of TMBPF enables a high performing epoxy coating without the estrogenic activity associated with other bisphenols.

In addition to extensive toxicological testing, we engaged proactively with regulators to conduct additional testing, validating that TMBPF is not a chemical of concern or endocrine-active.

After more than a decade in development, valPure V70 is approved for use in food, beverage, cosmetics and personal care products within Europe, the US, Canada, China and Japan. Compliance in the European Union has been confirmed with the Dutch G4 Commission's action to update the Dutch Commodities Act, the Warenwet, with the approval of epoxidised TMBPF for use as a food contact material. Furthermore, the French Agency for Food, Environmental and Occupational Health & Safety (ANSES) has published two opinions on TMBPF which both confirm that there is no concern about endocrine activity.

As a result of our continued engagement with regulators to demonstrate the safety of valPure V70, TMBPF and TMBPF-DGE were excluded from the restriction of BPA and other Bisphenols of Similar Concern (BoSC) proposed by the German authorities. This reinforces that TMBPF is not viewed as a substance of similar concern to BPA and that there is no intention by the regulator to restrict the use of TMBPF in epoxy resins. TMBPF has been endorsed by NGOs such as the Environmental Defense Fund (EDF) which identified the substance as a known and verified safe alternative to BPA. ValPure V70 is also listed by ChemSec as an evaluated alternative for industry-standard epoxy.

Through a state-of-the-art product development process spanning more than a decade, we have developed the world's first non-BPA epoxy for the light metal packaging industry. As a result of extensive testing and a science-led approach, TMBPF is now a widely researched and accepted substance for food contact.

Creating a technology like valPure V70 demonstrates that our industry can innovate to develop a lasting, sustainable, and safe solution for the packaging industry.

Changing consumer demand

So how do innovative technologies play a role in the future of the packaging industry? There is a growing demand for metal packaging, and with that, high performance coating technologies that can support new and challenging brand offerings. Consumers



Safety by Design 7 steps

This process ensures that products are developed to meet long-term scientific rigor.

are increasingly making purchasing decisions with sustainable packaging in mind, leading them to reach more often for canned beverages.

As a result, we are seeing disruption in product categories traditionally dominated by plastic or glass, resulting in significant growth in the market for aluminium beverage cans, in the water and wine market, for example. However, both canned wine and canned water are technically challenging to pack and require highly specialised coatings to protect the can and the product inside.

With the emergence of these new products, at Sherwin-Williams we believe the continuation of non-BPA epoxy technologies can offer a high-performance technology that can be universally applied to different can types and support the transition to metal packaging, even in the face of regulatory challenges.

Encouraging innovation

The ability to adapt to a fast-changing regulatory environment is now critical for coatings suppliers. Compliance with existing food contact regulations is no longer enough to ensure lasting solutions that support our customers' businesses and sustainability objectives.

In the current packaging environment, removing a singular CoC is not enough. New CoCs will be identified in the months and years ahead, and to ensure the health and safety of end users, we must think beyond traditional technologies. If it fails to do so, the industry risks falling into a pattern of regrettable substitution, offering customers inferior technologies that will not meet the increasingly challenging performance requirements of the future. Good isn't good enough anymore; we must innovate and strive for the best solution possible. [GT](#)

Sherwin-Williams Safety by Design methodology

Soaring potential in South Asia

Simon Jennings discusses the beverage can market in South Asia, as well as its key players and trends

South Asia, with a population of nearly two billion people, has the largest concentration of people in the world. Its 'emerging' economies have been showing strong growth over the past few decades. This trend is likely to continue, though there have been, and no doubt will be, some sharp reversals from time to time in its different countries.

Beverage can usage in the region comes in at just over 1.5 cans per capita per year. This is low compared to many of the other large so-called emerging economies, with a market which is still only similar in size to that of one of the smaller European countries.

This may seem disappointing to some who are driven by short-term needs. However, having been personally involved in the region for the past decade and a half, with the start of the first beverage can plant in India in 2007 (Rexam HTW) and then with first plant in Pakistan (Pakistan Aluminium Beverage Can) in 2016, where I continue to be the chairman of the business, I see opportunity.

The countries of South Asia (Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka) are part of the South Asian Association for Regional Cooperation (SAARC), which brings some benefits, but there are geographical and

political barriers which impact and influence the market structure for beverage cans.

The countries have many similar trends influencing demand, including: growing GDP albeit from low levels; a proportionately larger young population when compared to the rest of the world except Sub Saharan Africa; low alcohol per capita consumption across the region due to religious beliefs, with an above average focus being on non-alcoholic drinks; traditional grocery distribution, with emerging modern grocery distribution; and a high level but decreasing usage of returnable glass bottles, which will all drive growth and will do so over the medium term.

India is the largest market in the region (physically and in terms of demand), with 2.1 billion cans being supplied from four local can plants and imports from Sri Lanka.

Ball has two plants in India, each with one line, with a total nominal capacity of 1.3 billion units. The original plant on the outskirts of Mumbai was built by a Rexam Hindustan Tin JV, with a small capacity DWI steel line to meet the demand, which at the time was only around 200 million cans. This line was replaced in 2012 with an aluminium DWI line due to customers' preference and line

Pakistan Aluminium Beverage Can is planning to double its capacity, as well as export 250ml slim cans overland into growing Central Asian markets.

Image: Shutterstock

performance. Rexam built a second plant at Sri City in Southeastern India, 1,300 kilometres away, which started operations in 2016 and at the time had plans for another plant in Northern India, but this has not been followed through by Ball after the acquisition.

Can-Pack opened its first plant with a single aluminium DWI line in Aurangabad in 2009, 300 kilometres to the east of Mumbai, which had a design capacity of 1.2 billion units. Its second plant, again with a similar single aluminium DWI line, is in Haryana, 1,300 kilometres away in Northern India, which began operations in 2018.

Both Ball and Can-Pack import their ends into India at present.

The Indian market mainly demands 250ml slim cans for soft drinks and 500ml, 211 diameter cans for beers. The proportion of 330ml, 211 cans has diminished with growing demand for 300ml and 330ml sleek and 180ml slim cans.

India is also importing cans, on a tariff-free basis, from Ceylon Beverage Cans, a plant which was set up in 2014 by Muttiah Muralitharan, Sri Lanka's famous cricketer. The aluminium DWI line has a design capacity of 1.2 billion cans, and an ends line. Initially, the plant was going to be focused on the local market and supplies to their related filling company. However, changes in consumption patterns driven by legislation and tourism patterns, and more recently a sovereign financial crisis, led to a more export-focused strategy with deepwater exports of filled and empty cans, as well as those in the region. A recent press announcement (included in *CanTech International's* June news) has highlighted a new ink with the retail distribution arm of the major Indian conglomerate, Reliance and Muttiah Muralitharan, by which Ceylon Beverage Cans and its sister filling company will supply cans and filled cans for the local Campa Cola and other products.

With the diversity of sizes and even with modest growth, it is likely that further production capacity increases through speed ups and/or new lines will be needed to meet Indian demand in the not-so-distant future.

Pakistan is a distinct market to India due to historical and political events, and access to Afghanistan is limited by topography.

Both markets have seen good growth despite different but significant local issues, with demand having more than doubled in the past five years to reach 900 million cans in 2023. The market is predominantly focussed on soft drinks requiring 250ml slim cans, with the demand for 300ml standard 211 cans falling away rapidly.

These markets are mainly supplied by Pakistan Aluminium Beverage Can (PABC), with its single DWI aluminium line in Faisalabad in the north of the country, more or less equidistant from Karachi and Kabul. The business, which was originally set up by Ashmore Group Plc, was joined by the Liberty



Mills Group, whose businesses include textiles, power generation and pharmaceuticals. Its line has expanded from its original capacity of 700 million cans to 950 million cans and is currently undergoing the installation of equipment for its final speed-up to reach its maximum design capacity of 1.2 billion cans.

PABC, which was floated on the local stock market in 2021, is now planning to double its capacity, with the potential for a second line at either the current site or a new plant in Karachi, where the principal shareholder has many operations.

Along with the local and Afghan markets, PABC is also exporting 250ml slim cans overland into the growing Central Asian markets, where can making capacity has or is planned to be installed to meet the demand for 440ml and 500ml cans for beer.

Bangladesh, where the demand is around 250 million cans per annum, imports most of its cans from India, Sri Lanka and Pakistan. The Liberty Mills Group, which has strong connections and business interests in Bangladesh, is actively looking with PABC at building a beverage can plant in Bangladesh.

In conclusion, there is huge potential in the South Asia region, where demand at the beginning of the century was less than 200 million cans and is now nearing 3.3 billion cans. Looking forward, I see South Asia meeting its potential with per capita can consumption, rising to the levels seen in the other 'emerging' economies. [CT](#)

Ball Corporation's team in India worked closely with long-term partner O'cean Beverages to launch its O'cean Energy Drink Sustainability Edition.

Image: O'cean



All things EnvironmentAI

Alex Rivers provides an overview of the **Aluminium Federation's Sustainability Strategy Day**, held in London in June

The Aluminium Federation (ALFED)'s EnvironmentAI Sustainability Strategy Day, hosted at BMA House in London, UK, welcomed more than 120 members, guests, government representatives, industry experts and sustainable solutions suppliers. The topic of the day (1 June 2023) was the aluminium industry's transition to net zero.

Nadine Bloxsome, ALFED membership and sustainability manager, welcomed the audience and announced ALFED's plans to launch two new member initiatives. The first, an ALFED-accredited ESG officer training programme, will provide resources and support to representatives from ALFED members, which will aid in ESG efficiency to support sustainability transition.

The second, an 'Aluminium Ambassadors' initiative, in partnership with Bloodhound Education, will train and equip professionals from across the industry to go into educational and corporate settings to deliver informative talks and run EnvironmentAI trained workshops, designed to spark subject and career interest.

Lord Rupert Redesdale initiated proceedings with his keynote addressing carbon content and whether companies will win or lose business based on this

aspect. He also stated that he believed reaching net zero "relies on technologies that haven't even been built yet," so there's a great deal of progress yet to be made. Additionally, Lord Redesdale highlighted the complications of ESG framework, and that "one person can't be expected to be responsible" for all the aspects involved in this within one business.

Redesdale noted that in terms of scope emissions, scope 3 is usually the most complicated to tackle – only a few people in the audience admitted they'd begun scrutinising their scope 3 emissions when asked. Thankfully, Redesdale said, ALFED's ESG training programme can help with this.

As Zenergi's Cameron West emphasised, the pathway to net zero will be "a marathon, not a sprint." It was collectively agreed between the speakers and the audience that the work that needs to be done will be complex, but that guidance set out by the government, other bodies and associations should be simpler to follow. Businesses of any type and size need to be able to understand sustainability in the same way.

Industry collaboration was also highlighted as an important factor in making significant progress toward net zero. Many of the companies presenting noted the partnerships they were undertaking.

Lord Rupert Redesdale delivering his keynote.
Image: ALFED

Miles Prosser, secretary general of the International Aluminium Institute (IAI), stressed the significance of bringing IAI's member companies together to encourage collaborative working.

During his presentation, Prosser outlined six key issues that the IAI believes the aluminium industry must address going forward, to meet the growing needs of society while also meeting the challenges highlighted UN's Sustainable Development Goals. The six issues include: climate change, emissions and waste; people; water; biodiversity; and circularity. These will provide the framework for the IAI's recently launched Aluminium Forward 2030 initiative.

"We need to be producing more aluminium at a fraction of the emissions we are currently producing," urged Prosser, noting that China has put a cap on primary aluminium production, so that aluminium will instead come from recycled sources. What is needed worldwide in the next few decades, said Prosser, is a mixture of primary and secondary aluminium production, to ensure greenhouse gas reduction pathways are followed.

Prosser said that there are around 50 projects currently occurring globally to reduce emissions in the industry, which is encouraging news indeed.

Also with news was Tomra Recycling Sorting's Terence Keyworth. The segment manager for metal announced the global launch of Tomra's Autosort Pulse machine using LIBS technology, which enables high-throughput production of green aluminium. LIBS is an acronym for Laser Induced Breakdown Spectroscopy, which allows for high-precision sorting of aluminium scrap by alloy types (more detail on this can be found on page 41).

Keyworth explained the importance of deep learning technology in recycling sectors, as currently, they are highly reliant on manual labour that isn't readily available. With data and artificial intelligence, sorting materials becomes much more precise. Tomra's GAIN 5 deep learning solution is able to divide scrap easily into cast and wrought aluminium, giving secondary aluminium smelters a much purer material, Keyworth stated.

The three panels at ALFED's event discussed greenshoring, carbon leakage and eliminating waste. A recently coined term, greenshoring was a topic that even the panel – comprising Rachel Wiffen, senior process engineer and quality systems manager at Innoval Technology; Alupro's executive director, Tom Giddings; and Kilian Schneider, lead material technologist at Constellium – admitted they had to research before appearing on stage. The term involves shifting the focus from low cost overseas production, to sustainable manufacturing closer to home. Schneider noted that 90 per cent of aluminium scrap produced in Europe stays in Europe, but that is not the case in the UK. Giddings agreed the UK needs to boost its scrap levels, and



expressed his hope that the introduction of the UK deposit return scheme will help with this, while also making the scrap cleaner.

Wiffen largely agreed, but also stressed that the UK is a small country and has lost 56 per cent of its flora and fauna species since the 1970s, so manufacturers need to be aware of maintaining biodiversity in their areas of operation.

Elsewhere, panel members discussed net zero and financing. Chris Maclean, CEO of Open Energy Market, called for more weight on net zero in financial modelling. He presented Open Energy Market's True platform, which offers a live, accurate and transparent view of business energy costs. The panel and audience also agreed that having sustainability experts heavily involved in board member decision-making is essential.

During the last panel of the day, Laura Downey, innovation manager (sustainable manufacturing), WMG, University of Warwick, raised that while recycling is usually portrayed as the cleanest way of eliminating waste, "there are still carbon emissions involved." She said what aluminium businesses need to consider is targeting where the waste is in their company, and to work out ways of reducing their product lifecycle, utilising it before recycling even needs to take place.

ALFED presented findings from its recent study throughout the day, but perhaps the most encouraging was that 84 per cent of businesses recognised that net zero was important to growth. Indeed, ALFED's audience on 1 June were incredibly engaged in asking questions after each session throughout the day, which casts no doubt that the aluminium industry will remain vocal on sustainability issues, and continue to hold itself and other decision makers accountable when it comes to setting and reaching environmental targets. [CT](#)

Tomra's presentation by Terence Keyworth.
Image: Alex Rivers

Boosting Portuguese canned food

Reporting from Lisbon, **Andreia Nogueira** explores how tourism and the economic crisis have helped to advance the status of food cans in Portugal

The Portuguese canned food sector, internationally known for its canned fish lines, is thriving – thanks to tourism and innovation, despite the many supply chains issues it still faces.

Statistics Portugal (Instituto Nacional de Estatística – INE) data suggests the sector is growing fast, with Portugal having exported €305.3 million's worth of canned fish products in 2022 (provisional data), 20.3% more than in 2020. In the same period, imports increased 17.5% to €269.6 million.

Portuguese company Nobre's sausages



An example of growth in the sector is the announcement last year that a new €15 million canning factory was being built by canner Conseran – Conservas do Atlântico Norte in the Azores.

Portugal exports 70% of its production of canned fish, mainly to “France, Spain, Italy, the United Kingdom and the US,” said the president of the National Association of Canned Fish Industries (Associação Nacional dos Industriais de Conservas de Peixe – ANICP), José Freitas. Meanwhile, imports come first from Spain, followed by Vietnam, with the most imported fish sold in cans being tuna, most actually canned in Portuguese plants, and some re-exported.

This optimistic outlook follows an unstable situation during the Covid-19 pandemic, Freitas told *CanTech International*. After an “initial increase in sales” thanks to the lockdowns caused by the Covid-19 pandemic, sales fell afterwards, “despite consumers becoming more aware of canned goods.” The pandemic caused tourism to decline sharply in Portugal, with 73.7% fewer non-resident arrivals in Portugal in 2020 (6.5 million) compared to 2019, according to Statistics Portugal.

Market research has shown how this makes sense as an inflation fighting tool. Lisbon-based market researcher, Markttest Group, has shown 78.2% of households in the Portugal mainland (excluding the Azores and Madeira archipelagos) consumed canned fish or vegetables at home in 2021. Canned food was consumed mainly by the lower income consumers, it added.

According to the 2022 statistics, released in May 2023 by the INE, in 2021 there was a decrease of 7.2% in Portuguese production of preparations and canned fish products to 56,189 tonnes compared to 2020, and production of the leading species tuna falling 22.7%, (it accounted for 35.3% of all canned fish products processed in Portugal during 2021). This year-to-year fall was caused by lockdowns, which led to a temporary increase in domestic residential sales of canned goods. Indeed, Portuguese sales of preparations or canned food decreased 12.3% in 2021 to €330.1 million, mainly due to lower sales of canned tuna (-27.9%), said the INE.

The good news is that Portugal remains a major tourism destination, with visitor numbers rebounding to 9.6 million in 2021, according to the INE. Said Freitas: “We can safely say that tourism has more impact on sales than the pandemic. We

have different points of sale on tourist routes and in all of them, the demand from international tourists has been growing. We believe that most canned food sold serves as a ‘souvenir,’ which proves that canned food is a reference product for anyone visiting Portugal. Additionally, the cans are very beautiful and easy to carry,” he argued.

Canned food as a tourism sale was featured in the Tourism Leaders Awards, organised by the Portuguese travel industry newspaper, *TNews*, in March. The Portuguese store, Mundo Fantástico das Conservas Portuguesas (Fantastic World of Portuguese Canned Foods), which sells canned fish in colourful cans, received a best creative brand award.

Moreover, Freitas noticed that “in traditional markets [for Portugal resident consumers and tourists], there [has been] an increase in canned food in the gourmet segment.”

Investors are noticing. In May 2023, European Seafood Investments Portugal, the local subsidiary of Thai seafood company Thai Union, opened a factory store in Peniche. The store “displays the factory’s new brand creation Peniche Can Surf,” a canned selection of tuna salads that reflects Peniche’s “vibrant surfer community and all people supporting a healthy and active lifestyle,” according to the company.

Innovating to boost sales

Freitas said the sector has been “developing health products, namely with low salt and low calories,” mirroring Portuguese consumers’ growing concerns about their health, highlighted by researchers from the University of Lisbon.

ANICP members have also been adding new species of canned fish for sale, bringing the species total to 34, which “combined with different sauces and toppings,” offer around 800 varieties of canned fish products, said Freitas. Some of them are anchovy, cod (which is central to Portuguese traditional food), cockle, cuttlefish, eel, giant squid, octopus, whelk and razor-shell clams, with recipes ranging from tuna salad with black eyed beans to fish in tomato sauce.

ANICP launched a ‘Let’s Conserve What’s Ours’ campaign in 2020, designed to “revive the consumption of canned food and, above all, the quality and diversity of Portuguese canned food,” said Freitas, noting the “high quality fish” found in Portugal.

The industry has also been touting such claims, with Iara Martins, agrifood expert at the governmental Portuguese Agency for Investment and Foreign Trade (Agência para o Investimento e Comércio Externo de Portugal – AICEP) writing in 2020 that Portuguese canned fish was gaining popularity because of its ‘sensitivity’ in production and processing to ensure a quality product, boosting sales.



Two cans of condensed milk and sweetened condensed milk, distributed by the Portuguese supermarket chain Pingo Doce

In December 2022, the Portuguese Parliament even ruled that 15 November would be celebrated as the National Day of Canned Fish.

In the beverage sector, there is growing interest in cans, sparking innovation. General director of the Portuguese Association of Distribution Companies (Associação Portuguesa de Empresas de Distribuição - APED), Gonçalo Lobo Xavier, sees a growing “diversity of options... of canned drinks or ready-to-drink canned drinks in other formats,” including port and tonic or gin and tonic. Xavier states that “this market is growing a lot.” Again, sustainability is part of the strategy, with APED, in the last two years, launching two packaging return pilot projects, one for used cans in exchange for “a two-cent receipt or another type of prize,” and the other covering plastic packaging.

Supply chain issues

According to data provided by London-based market researcher, Euromonitor International, in 2022, 408.2 million units of metal food cans were sold in the Portuguese retail market, down from 2021’s 413.1 million units – while sales of food in metal aerosol cans were stable at 1.1 million units.

“Portuguese cans are made of steel and aluminium, [being] the vast majority from Portuguese and Spanish factories,” said Freitas. He added the pandemic and Russia’s invasion of Ukraine had a “very important impact” on costs, and while the prices of gas and oil “have already returned to pre-war values,” the costs of aluminium, steel, fuel, and transportation are “still very high.”

Xavier noted “almost all factors of production had a very large [price] increase even before the war,” which worsened with the conflict, with some of them increasing “20 or 30 per cent.”

He mentioned, for instance, metal sheets (aluminium) and tuna, adding that the lack of >



Ramirez's canned tuna in olive oil

supplies led to higher shipping costs.

Manuel Teixeira Marques Ramirez, chairman of Portugal-based canner Ramirez, which has been in operation for 170 years, agrees: Covid-19 and the war “have an impact on almost all production costs, from raw material (fish, aluminium cans, olive oil, oil, etc) to the workforce, including individual protection equipment, energy or machine maintenance.”

Ramirez recalls when the same product/service had its price increasing “five or six” times, sometimes doubling, on the same day, especially “energy, aluminium and sunflower oil.” Product price rises followed.

Nevertheless, Ramirez told *CanTech International*, “to lighten the cost structure,” the company sourced “alternative raw materials” or products “from markets less exposed to the consequences of the Russia-Ukraine war.”

Such measures have paid dividends, as Ramirez’ sales volume was €32 million in 2022, of which 55% was exports, with sales up 26% year-on-year compared to 2019.

The government has helped boost canned tuna sales by including it among 46 products exempted from VAT from April to combat inflation. In April, annual food inflation in Portugal was 15.41%, down from 20% in January and February.

Ramirez said that such help should not be restricted to imported fish, arguing that “sardines and mackerel, which are caught on the Portuguese coast,” should have been added too. However, the government has not yet done this.

Another challenge has been theft. Last year, several Portuguese supermarkets put alarms on basic products such as canned tuna due to an increase in food thefts, according to the newspaper, *Expresso*. That said, APED’s Xavier claims these precautions were staged only in a limited number of outlets, with such problems largely experienced last September, when food prices started to rise. Xavier believes “things are getting back to normal” now.

The good news is that the increase in canned fish export sales shows that inflation is not dampening European enthusiasm for this product. **CT**

Improving reliability

Rockwell Automation's Andreu Cuartiella, lifecycle services commercial manager, EMEA, discusses the company's expertise in predictive maintenance

What are Rockwell's latest developments in this area?

Predictive techniques utilise on-machine sensors to gather raw data, co-located edge computing for data collection and further workstation-level computing for visualisation, trending, and analysis procedures. But the ultimate benefits of the approach are only realised when the information they generate is fed into two higher-level systems – a computerised maintenance management system (CMMS) and one for asset performance management (APM).

Fiix is a cloud-based, AI-powered CMMS that helps companies manage all their maintenance, including thousands of assets, work orders, and parts in one place.

Whereas Plex is a cloud-based SaaS APM production platform that operates at scale connecting people and systems, automating processes, tracking data from end to end, and capturing and analysing information.

These will run in the Cloud and utilise the data generated in manufacturing operations at the enterprise level. A CMMS deals with everything around maintenance, whereas an APM is more macroscopic – it looks at things from a production standpoint and is concerned with issues such as asset performance and downtimes.

How has the technology advanced over the past few decades?

The real developments recently have been in data processing techniques and not in acquisition or sensor technologies. The ultimate objective of implementing such systems is to avoid the impact of unexpected equipment failure causing unplanned downtime.

The number of use cases for artificial intelligence is growing exponentially, as an example to enable enterprises to predict maintenance needs throughout the facility and gain access to insights on how maintenance teams should respond in seconds. Users see trends that historically have gone unnoticed, and this is the superpower behind Fiix, which was recently announced as a winner in the Business Intelligence Group Artificial Intelligence Excellence Awards programme.

What are some of the benefits to manufacturers?

The benefits of a properly implemented predictive maintenance strategy are real and

quantifiable. Research shows it can generate a tenfold increase in return on investment (ROI), a 25 to 30 per cent reduction in maintenance costs and a 70 to 75 per cent decrease in breakdowns, meaning altogether a 35 to 45 per cent reduction in downtimes.

Users of Rockwell Automation's CMMS Fiix and its APM Plex can report their own specific performance improvements. A distillery, for instance, achieved a 50 per cent increase in overall equipment effectiveness (OEE) in an automated processing and bottling application through the use of Plex.

Are there any challenges involved in this type of technology?

Implementing this technology in an existing production facility may reveal that it operates ageing equipment, automated by a legacy, or end of life industrial control system (ICS) and operational technology (OT) network.

We need to make sure that data flows smoothly from the machines to the information systems, so a reliable and secure network is critical.

Rockwell Automation has a proven approach to increase industrial network security. The Connected Services suite helps assess, design, implement, and manage OT environment. These automation-agnostic services encompass virtual infrastructure, networks, and cybersecurity. We believe we deliver unrivalled capability in OT cybersecurity, with a powerful combination of specialised in-house cyber knowledge coupled with world-class partnerships.

What do you see for the future of predictive maintenance?

Predictive maintenance will also be applied increasingly not just to the large-scale moving parts of machinery, but to their control systems and even to electronic components. We have already started to look inside the control cabinets. As an example, Advanced Predictive Maintenance functions are included in the algorithms built in to PowerFlex 755T drives, allowing a change of paradigm. Instead of a run to failure approach for capacitors, for power semiconductors or fan/blowers, we can now predict when they need to be replaced before failure, reducing unplanned downtime. 

Andreu Cuartiella.
Image: Rockwell
Automation



The rise of Do It With Cans

Robert Fell, director and chief executive at the Metal Packaging Manufacturers Association, details the success of the website which showcases DIY and craft products sold in metal packaging

During Covid, DIY searches on the popular photo-sharing platform, Pinterest, dramatically increased as consumers unable to go on holiday turned their attentions and wallets to updating their immediate surroundings.

Phrases such as 'outdoor spaces on a budget' increased three times over; 'diy patio ideas on a budget' up by 17 times and 'backyard oasis on a budget' by five times on the social media site.

As part of the Weekly Coronavirus Tracker by Rare Group, over a fifth of respondents saw themselves spending more on DIY and home management, and a similar number worked on their own DIY projects. It also showed that during June 2020, 12 per cent of respondents in London took part in interior design activities and 13 per cent of those working learned new home-making skills.

DIY has always enjoyed buoyant consumer spend, but in 2020 it received a particular boost. It was against this backdrop that the Metal Packaging Manufacturers Association (MPMA) launched its new campaign, Do It With Cans – a blog aimed at showcasing DIY and craft products packaged in metal to consumers.

Inspired by the success of consumer-focused sister site, Canned Food UK (cannedfood.co.uk), also

run by MPMA, which highlights the benefits of canned food to UK shoppers, Do It With Cans raises the profile of the broad variety of DIY products available in metal packaging through easy-to-follow tutorial blogs written by an expert or influencer.

Written by experts

The blog will be celebrating its third birthday in October 2023, with over 25 different blogs written by a roster of experts with a collective Instagram and Pinterest following of over 145,000 people. Authors have included Helen Moore, founder of craft blog Whitewood and Linen; Victoria Fitz-Gerald, Fixing Up 58 blogger, and Sam Taylor-Crooks at Dove Cottage blog.

Do It With Cans also launched with a dedicated trade secrets column, authored by DIY Daddy, also known as Nigel Higgins, a qualified painter and decorator, covering topics from giving your boiler cupboard a makeover; decorating a metal garage door; preparing guttering for winter; to perfecting the paint finish on your walls.

In 2023, with the cost-of-living crisis showing no signs of abating, this year's campaign takes inspiration from the 'make do and mend' mentality. The website has teamed up with two new influencers who specialise in thrifty, upcycling projects to help inspire homeowners to tackle projects themselves with straightforward advice.

Cassie Fairy, from My Thrifty Life, and Hester van Overbeek, from Hester's Handmade Home, will be writing about a range of projects, including upcycling old bar stools to make a porch bench; a porch makeover; garden bench repairs; using empty cans to make a bug hotel and creating a new tin lampshade.

Each blog provides simple step-by-step instructions detailing the equipment and materials needed. Importantly, each blog is written to showcase a range of DIY products available in metal packaging, from paint; wax; wood stain; glue; spray paints and varnishes.

Making headway

Ultimately, the goal of Do It With Cans is to shine a spotlight on metal packaging within the DIY and craft sectors, and to showcase to both consumers and brand owners the benefits of opting for metal

Influencers including Cassie Fairy and Hester van Overbeek will be writing about a range of projects for Do It With Cans, including upcycling old bar stools to make a porch bench



packaging. MPMA wants to highlight metal's versatility, durability and its practical benefits – not least its ability to be fully recycled.

To do this, the blog content on the website is coupled with a Pinterest page: pinterest.com/doiwithcans. Pinterest is the most popular channel for sharing DIY and craft-based content. In fact, according to the platform's ad information, there is potential to reach up to 8.6 million people who are searching for DIY and craft related content. Home decor, DIY and crafts are consistently listed as one of the top seven subjects searched for on the site.

Through the Pinterest page, we share the most recent blog posts and, in turn, spread the key messages about the benefits of metal packaging to an engaged audience. To date, Do It With Cans has received nearly two million impressions (which means content from the website has been seen nearly two million times) on Pinterest, and has achieved over 23,000 interactions including likes, clicks, comments and shares. It has registered an engaged audience of over half a million.

Similarly, over the last three years, we've seen a dramatic uptake in organic search discovering the Do It With Cans website – doiwithcans.co.uk. When comparing website performance for the period January to May in 2022 versus same period in 2023, we saw a 992.96 per cent increase in the number of users finding the website via a search engine.



To date, the website has received over 11,000 page views from 7,900 users and received 34,000 event counts – the number of times users triggered an event on the website such as clicking a link.

Interestingly, our most popular blog posts are those that tackle common household DIY chores. 'How to get the perfect finish on a skirting board' has achieved over 2,100 views alone, while 'How to paint tiles to transform a kitchen or bathroom' has had 1,500 views and 'How to renovate a metal garage door' has had 1,298 views.

On the other hand, blog posts inspired by hashtags like #IKEAHacks and other Instagram and TikTok trends, such as 'pimp your kid's play kitchen (to match your own),' consistently perform well. This tutorial takes the iconic IKEA Duktig kitchen, often available for next to nothing on secondhand sale sites, and shows you how to upcycle it to match your own kitchen. It is always in the top four posts on the site.

What's next?

Really, we've only scratched the surface of Do It With Cans' potential. The format goes from strength to strength and there are many more avenues for us to explore. Not only do we continue to expand our roster of influencer experts, but there are clearly opportunities for us on other social media platforms, not least Instagram and TikTok.

We'd also love to work with even more members and industry partners collaborating on content creation, writing new tutorials or dedicated Pinterest campaigns, highlighting an even greater variety of DIY products in metal packaging. Do get in touch via info@doiwithcans.co.uk or the MPMA directly.

For 2023, we've a series of new blogs coming up from our make do and mend influencers. **CT**

Do It With Cans writers comprise of experts with a collective Instagram and Pinterest following of over 145,000 people



According to Pinterest's ad information, there is potential to reach up to 8.6 million people who are searching for DIY and craft related content on the platform

Tool suppliers in times of change

Germany-based **Wallram Group** outlines the tooling developments it has seen during its 50 years in the field

After its six-year break, Metpack 2023 was an opportunity to not only see old friends and business partners again, but also to experience the latest developments in metal packaging first-hand. The numerous exhibitors present had used the long hiatus since the last trade fair to present an impressive programme with an array of new developments.

One of the many participants to this year's show was Wallram Group, which was honoured at the event in Essen, Germany, for its 110-year history. At the same time, Wallram was able to celebrate 50 years in the field of can tooling, during which time the group has seen much change.

While steel tools had a firm place in the manufacture of metal packaging for many years, despite wear problems, the advantages of carbide and later, ceramic, and its significantly better durability were recognised.

Here, Wallram also became part of the business as a carbide manufacturer. The developments accelerated from there: ceramics and specially coated steel were introduced and further optimised. Today, individually configured carbide, different ceramics and coatings are standard. The question of whether the current choice of material is still up to date should always be scrutinised. Ongoing analyses of the current state-of-the-art and increasingly demanding customer requirements are important.

In addition, there are a wide variety of surface

textures that are created in the manufacturing process of the tools. Special knowledge of tool processing, especially in the grinding process, is required.

Beside the tool manufacturers, the drivers of these developments were also the customers, who tried to reduce costs and, above all, make significant material savings and sustainability strives with ever smaller wall thicknesses. Additionally, the high demands from the customers of can manufacturers changed the market permanently: mergers to create global, powerful can makers were the necessary result. This was also not without consequences for the suppliers and thus also the tool manufacturers.

As a result, it became increasingly difficult for some local manufacturers, who operated can tooling as a by-product alongside other product areas, to meet the volume, quality and product support requirements of global customers. This led to the emergence of specialists in this area who were positioned worldwide and could therefore react flexibly to changing customer quantity requirements, and actively support customers in the application with their market and product knowledge.

Then, with the emergence of new markets for the can, primarily through craft breweries and wine makers, another element came into play: smaller batch sizes alongside a growing variety of can sizes and shapes. After the focus had previously been on the process-optimised production of larger quantities of tools with a similar design, a high degree of flexibility was now also required. Smaller quantities of tools had to be manufactured in a short amount of time. Optimising set-up times played a major role, so that the faster changing of tools in the machine was still cost-effective.

Some of the biggest changes can be seen in the production of tool manufacturers.

Despite numerous changes in material and design, a punch does not look significantly different than it did many years ago. However, a worker from the 1950s would no longer recognise his or her workplace today; manually operated machines have given way to machines with CNC controls, and physically demanding activities are carried out – or at least supported – by robots. The usual workshop production was replaced by an optimised flow production with automated feed and transport routes.

**Lizzini Punch
Grinder at
Wallram's Essen
plant**



This is a development that will be intensified by increasing digitisation: while the analysis of production data is already standard today, intelligent systems will automatically recognise possible improvements in the future, suggest them, or even implement them independently. This change was and is accompanied by the need to continuously invest in state-of-the-art equipment and to consistently train and develop employees' skillsets.

The importance of the tool should not be underestimated: in relation to the purchase price, it seems to be a subordinate product compared to the machines and the material – but the consequences of compromises in the precision and quality of the tool can be devastating. The consequential costs of production downtime and loss of scrapped cans far exceed the price of the tools. One should not save in the wrong place here.

With production facilities in Germany, the USA and Poland and customers in all parts of the world, Wallram Group is globally active. Its production capacities are constantly being expanded. An investment programme in machines and equipment of 15 per cent of the annual group turnover was initially announced in 2021. Since then, 25 per cent has been invested in this area.

The main focus of Wallram's investment was on grinding and turning technology, but the area of quality control was also significantly strengthened. In addition, a completely new production hall was inaugurated at the group's Poland location, and in the US, the complete steel processing was moved to an additional hall to create additional expansion areas for the grinding applications. At the same time, staff numbers were increased to serve the additional capacities. Currently, additional personnel in Wallram's engineering department

are working on product improvements through contact with customers, but also with universities and research institutes.

There are different approaches to the area of raw materials. While some tool manufacturers emphasise the advantages of in-house production, others rely on the optimal selection of suitable suppliers for the respective application. Wallram continues to focus on tool optimisation through ideal grinding processes, which can be achieved with the group's own grinding machines (Wallram Grindtec - Lizzini).

However, customers and tool manufacturers are jointly faced with the task of optimally designing the tools for use, monitoring them in can production and using the knowledge gained in this way to further optimise the tools, as well as find the best possible settings for the machines and systems. Just like everyone else, Wallram must have the right specialists ready for this.

The group is a family-run business that has passed through several generations. Long-term partnerships and the stability of the business relationship from which both sides benefit, are the result of a philosophy that thinks first in generations and only secondary in short-term results.

Overall, the requirements of the market have increased significantly; in particular, flexibility and the ability to respond to short-term customer requirements without compromising precision and quality, have become increasingly crucial. The suppliers of metal packaging products have had to react to this and make the necessary improvements, and thus their suppliers have too. Cooperation is the key to further improvements, as it is a joint task of all parties involved to continually advance metal as the most sustainable packaging material. 



Mix of ceramic and carbide for can tooling

Years of enhancing performance

Evert van de Weg speaks with Innosen's Luc Nelen about his involvement in the birth of automated quality control in can making

Luc with Alex Rivers, giving an overview of Innosen's new products and providing comment for CanTech's Metpack 2023 review

In the 1970s, companies in the United States and Europe started to develop solutions for improving quality, maximising efficiency and cutting costs on metal packaging manufacturing lines. This included solutions for the manufacture of cans and ends for food and beverages, but also for aerosols and tubes. The boom in can making and easy open end production caused by the quick development of the draw and wall-ironing technology in that decade, in particular for the production of beverage cans, undoubtedly played an important role in that trend.

At the same time, brand owners of canned food and beverages became increasingly important in their markets. Poor or variable quality of the cans used added costs and put brands at risk. The last few decades of the 20th century saw a strong increase of the use of fundamental manufacturing aids in metal packaging production, such as statistical process control, process monitoring and the general strive for continuous improvement.

Several companies in the USA and Europe took part in these improvement paths, such as Altek, Pressco, ISRA Vision and Prime Controls in the USA, and Heuft, Qualiplus and Sencon in Europe, to name but a few.

Someone who actively took part in these developments is my former colleague at the Dutch can maker, Thomassen & Drijver-Verblifa, based in Deventer, the Netherlands, Luc Nelen. He is now president of the company, Innosen, based in Manila, the Philippines. I met him on the Innosen booth at the recent Metpack exhibition in Essen, and we had much to discuss about his journey to his current position in the much-respected company, specialising in quality assurance for the can making industry.

How did you begin your career in this specialised area?

"After finishing my degree in chemical engineering, my first job was at Philips Research in the Netherlands, where I worked on the development of the VLP, short for Video Long Play, which later became what we now know as the DVD and CD.

Although I loved the challenges the work presented, it was also frustrating to sometimes see an idea you had worked incredibly hard on over a long period, rejected, either because it did not work or someone else had a better idea.

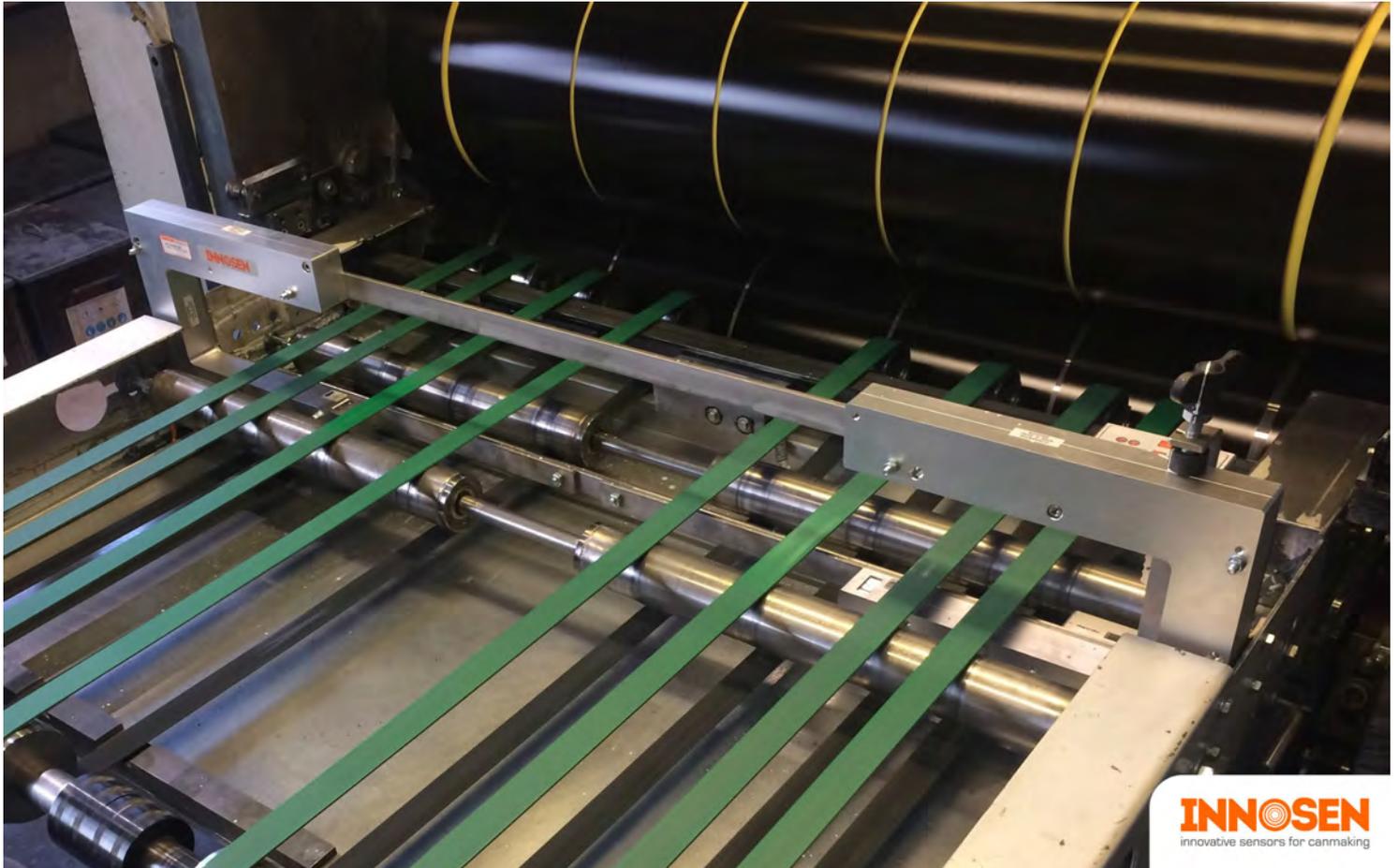
"For me, that meant I needed to move away from the more fundamental research and look at more practical engineering challenges. I found those at Thomassen & Drijver-Verblifa (TDV)."

What was the landscape of the can making market when you entered it?

"When I joined TDV in the late 70s, the company was part of the USA-based Continental Can Company. CCC at the time was the world's biggest can company and TDV was its subsidiary in the Netherlands.

At the time I joined TDV, two-piece can making





was just getting started in Europe, and for all sorts of reasons, most of the two-piece cans were made out of tinplate. CCC had a lot of experience in two-piece cans, but mainly in aluminium. That meant that there were interesting process challenges I could help resolve. In the 1970s, Continental Can decided to build a factory to make two-piece cans in Wrexham in the UK.

“I joined the project team building that factory, together with colleagues from Germany and Continental’s European headquarters in Brussels. This factory had to be one that made aluminium cans, and I had to make sure the CCC experience and know-how was used in the design and operation of the Wrexham factory. I also used the opportunity to design systems in such a way that the whole factory would be much more energy efficient.”

“Once Wrexham was up and running, more two-piece can factories were built in Lint in Belgium, in Hassloch, Germany, and in Bierne, France. After that, it became quiet on the expansion front. That is when I had an opportunity to join in the diversification TDV had started.”

Entering new fields

In the 1980s, can maker, TDV, had to face saturation in the canned food market, accompanied by decreasing profits. The management decided, also under the pressure of parent company, Continental

Can, to look at diversification of its activities. The management called in the internationally renowned consulting agency, Innotech, and assigned it to the task of finding activities in adjacent areas to can making technology. This resulted in the foundation of the new company, Qualiplus, which was created to develop systems for automated quality control.

How actively were you involved in Qualiplus’ inception?

“Very actively indeed. Qualiplus designed machine vision systems for high-speed packaging lines. There were naturally enough opportunities for vision inspection in the can making factories, and that is where we started. The vision systems were initially bought from the company Hajime, in Japan, and based on analog electronics, as digital was not fast enough. Later, as the capabilities of digital processing improved, hardware was also bought in the USA and developed in-house. Inspection systems for returnable and new glass bottles, tobacco leaves and cans were the main products for Qualiplus. After the takeover of Continental Can by Kiewit in 1984, the Qualiplus company was sold to Heuft in Germany, and I stayed on as the managing director.”

Qualiplus continued on as part of the company Heuft Qualiplus. Luc Nelen stayed on board there as managing director for several years. >

Innosens’ IS415 Sheet Skew Measurement System with the IS430 Sheet Translation Measurement System near the coating line



Innosen's Hoverprobe II in action, alongside Sencon's S19600 Coating Thickness Gauge

What was the reason behind the shift in your career?

"Heuft was mostly interested in the refillable bottle market and my interest was more in can making. Therefore, I decided to join Sencon. They were already quite active at that time in can making. I started initially as their European agent and later I became one of the owners of a new division that would concentrate on three-piece can making. It is in this period that I designed products that many of *CanTech International* readers will recognise, like the Hoverprobe and the first fully automatic double sheet sensor without any settings. Aside from the expansion of the product range, I also expanded the company geographically by setting up offices – firstly in Spain, and later, Manila in the Philippines – to be able to better serve our customer base."

Years later, Luc again decided to take another career path.

"In 2012, I amicably split from Sencon, to be able to concentrate my efforts even more in the three-piece can market. The split enabled me to have an R&D team that is fully dedicated to the market we serve. The products we are working on now are generally inspired by problems our customers are facing in their day-to-day operations. Considering that the first cans were produced over 200 years ago, it is amazing that so many challenges still remain unsolved. It is probably fair to say that the issues remaining after such a long time are not the easiest to resolve. But finding solutions by applying

new technology to a mature process, to help our customers make better cans more easily, is exactly what Innosen loves doing.

"We believe that with the offices we have in Spain, Manila, Hong Kong and, more recently, Fort Collins in the USA, we are able to leverage our global footprint to the advantage of both our customers and ourselves. It enables us to procure materials and labour where the price/quality ratio is most attractive, while at the same time allowing us to provide a better service to our customers. Our team can communicate with our customers in eight different languages and we have recently been able to put this to good use at the Metpack show in Essen, Germany.

"Apart from our Hoverprobe in an updated version, our new products for the welder were particularly popular at Metpack. We introduced the self-calibrating IS670 Missing Side Seam Lacquer Detector, which is able to detect if the external sidestripe for the weld protecting is present, and the IS625 Inverted Can Label Detector, which can see if decorated cans are facing the right way up as they exit the welder. For the rest, it can also detect if a can is inside-out or has the decoration on the inside instead of the outside.

"We have more exciting products coming later this year, which all address a specific need in our market. Thanks to the unwavering support of our customers and the hard work of our employees, we are looking at a bright future for all of us." 

Is the energy crisis really over?

It seems as though the worst forecasts expressed at the end of 2022 concerning the European energy crisis were not destined to come to fruition. Still, the state of play is far from perfect. **Vladislav Vorotnikov** reports

Soaring energy and input prices were among the key factors driving metal packaging production down in 2022. Now, the storm seems to have passed, although optimism in the industry remains cautious.

The metal packaging industry's production value in Europe contracted by 1.9% in 2022, as the industry faced a number of challenges, including rising costs of energy and input materials, commented Justinas Liuima, industrial research manager at Euromonitor International.

However, at country level, the situation differed.

For example, the production volume index of metal packaging in France and Spain improved in 2022, as these countries were less severely affected by the energy crisis. On the contrary, the production volume index of metal packaging in Germany, the UK and Italy fell by 6.6%, 7.5% and 12.8%, respectively, as these countries were highly affected by the rising energy costs, Liuima said, adding that for example, the metal packaging industry's spending on gas in the UK increased by 9% in 2022, while the metal packaging industry's spending on gas in Germany soared by 120% in 2022. >

*Image:
distelAPPArath/
pixabay*





The MPMA has proposed to the UK government that they change the target of the CCL scheme from energy efficiency to hydrocarbon energy efficiency, so that a single investment in, say, solar panels, would meet both targets. Image: StockSnap/Pixabay

Still, the UK energy industry suffered from a stronger spike in energy prices compared with some European countries, commented Robert Fell, director of the UK Metal Packaging Manufacturers Association.

“Energy prices put a severe strain on our metal packaging manufacturers, especially given the significant differential between UK energy prices and those ‘enjoyed’ by our European neighbours and competitors,” Fell said, pointing out the fact that some companies were unfortunate to renew their long-term energy contracts in the period of the peak prices.

For these companies, the energy crisis will continue for as long as their current contract unless the government intervenes, Fell admitted. In addition, for the UK metal packaging industry, the gap with energy prices in continental Europe remains a particular issue.

“That said, energy costs will remain an issue for UK can makers for as long as the differential in energy costs between the UK and Europe remains,” Fell said.

The same phenomenon is seen in continental Europe. For example, in the Baltic states, local companies also complained that the energy suppliers want to switch to shorter-term contracts to be protected from losses, in case of new price turbulence in the market.

Seeking a remedy

Liuiima, however, stressed that despite the challenges, the European metal packaging industry managed to

maintain relatively stable profit margins in 2022, as manufacturers benefited from sustainability trends favouring non-plastic packaging, and managed to pass on cost increases to the buyer industries.

For example, the producer price index, which indicates the level of manufacturers' selling prices, grew by 14-18% in the largest Western European countries of Germany, France, Italy, Spain and the UK. This indicates that metal packaging producers managed to sell their goods at much higher prices and compensate for cost increases.

“Better production planning also helped the industry to maintain relatively stable profitability and adapt to the rising costs environment. For example, in the fourth quarter of 2022, the production of light metal packaging in Europe declined at a faster rate than the demand. This helped manufacturers to reduce stocks of finished products, avoid higher increase in energy costs and prepare for the anticipated demand recovery in the first half of 2023,” Liuiima said.

This is largely in line with the official position of the European authorities. The European economy has managed to weather the energy crisis thanks to a rapid diversification of supply and a sizeable fall in gas consumption, the European Commission has recently said.

Markedly lower energy prices are working their way through the economy, reducing firms' production costs. Consumers are also seeing their energy bills fall, although private consumption is set to remain subdued as wage growth lags inflation.

To face the rising energy prices, European business

last year largely looked into green opportunities. The metal packaging industry was no exception.

“On-site green energy generation would certainly help [to mitigate rising energy costs]. However, there is a problem with regard to the investment required,” Fell said.

“All our large can makers are part of the UK’s Climate Change Levy scheme (CCL), which requires them to increase their energy efficiency in return for significant discounts on the CCL costs. Currently, on-site green energy generation does not count towards CCL, as it’s an energy conversion rather than an energy reduction. Thus, if the UK can makers wish to install green energy systems, they must make two investments: into the green energy system and into whatever investment they require in order to fulfil their CCL obligations,” Fell added.

The UK Metal Packaging Manufacturers Association has proposed to the UK government that they change the target of the CCL scheme from energy efficiency to hydrocarbon energy efficiency, so that a single investment in, say, solar panels, would meet both targets. There would be no cost to the government, but it would certainly stimulate green energy investment.

Inflation bites

While energy prices have largely subsided across Europe during the past several months, the governments keep struggling against rampant inflation. In some countries, authorities speak about a full-fledged cost-of-living crisis, which forces consumers to revise their budgets.

The cost-of-living crisis in Europe will make it more difficult for metal packaging producers to pass on cost increases to end consumers in 2023, Liuima warned.

For example, 35% of consumers globally in Euromonitor’s Lifestyles Survey 2023 indicated they plan to increase spending in discount stores in 2023, while 44% of consumers plan to save more money in 2023. These trends show that consumers are pressured by rising prices and are planning to make changes in purchasing patterns.

As a result, metal packagers will also have to focus more on cost discipline in 2023, Liuima said, adding, however, that the overall demand for metal packaging products is expected to remain stable in 2023, despite the ongoing cost-of-living crisis.

“A large share of metal packaging is used in the food industry, which is less sensitive to the changes in economic cycles or price changes. Sustainability trends will also continue to support demand for metal packaging, which is easier to recycle. For example, 52% of consumers globally in Euromonitor’s Lifestyles Survey 2023 stated they prefer recyclable packages when making a purchase,” Liuima said.

Fell shares the same opinion. He explained that,

in general, metal food cans always tend to do well in a crisis, as consumers see them as a safe and secure choice for their food. He admitted, though, that beyond food, it’s likely all sectors are adversely affected to some extent.

High uncertainty

Still, high uncertainty in the energy markets remains among the key risks for the metal packaging industry in 2023, Liuima warned.

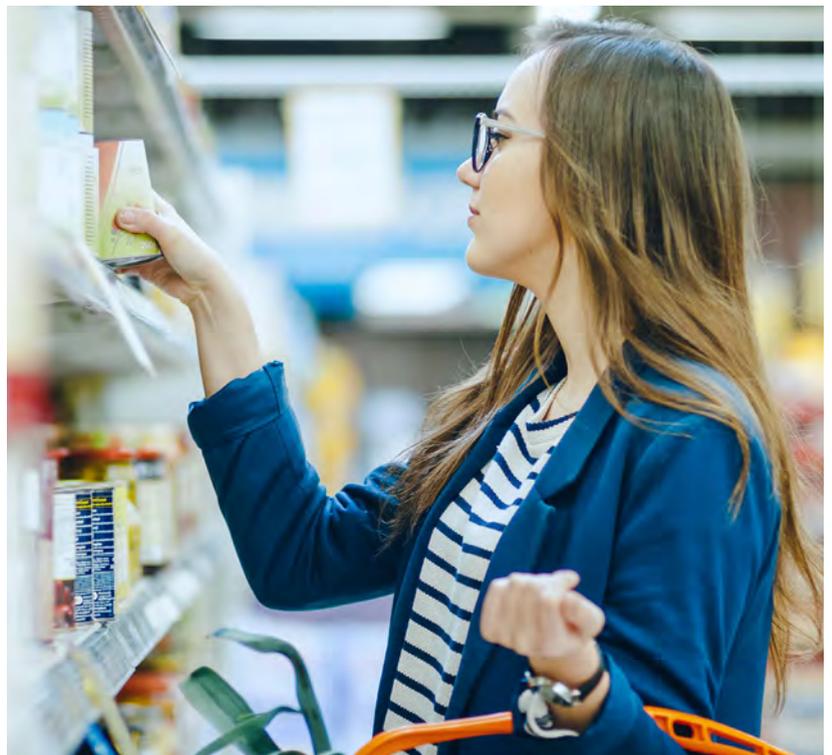
“Even though energy prices have stabilised as the global economy cools, factors such as OPEC supply cuts, a colder winter in Europe in 2023, or spillovers from the war in Ukraine, could add to the higher volatility in the energy markets,” she stated.

The downward price rally on the energy market happened largely because Europe has amassed higher-than-usual inventories due to a relatively mild winter, record imports of LNG, and tepid demand. Still, market players are wary of the persistent risks, including the possibility of even lower Russian supplies and competition with Asia for LNG.

The average price of the European gas features jumped by nearly 20% between March and June, and under a certain scenario, the energy crisis could return.

“Economic growth in China is another factor for the industry to watch in 2023. So far, economic recovery in China remains fragile. However, faster consumption and economic growth towards the end of the year could increase global demand for metals and commodities, in turn leading to higher input costs for the metal packaging industry,” Liuima said. 

MPMA's Robert Fell stated that, in general, metal food cans always tend to do well in a crisis, as consumers see them as a safe and secure choice for their food. Image: Shutterstock



Rushserve

Canmaking Machine Spares



all the spares you need in one place

 +44 151 495 1595

 +1 813 855 2085



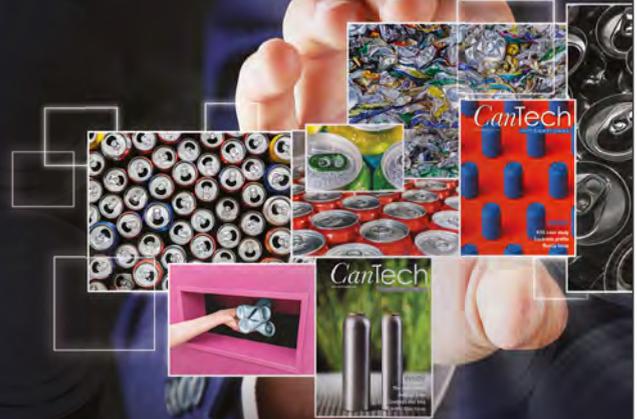
your only source
for genuine
HL FISHER spares

sales@rushserve.com
www.rushserve.com

CanTech

INTERNATIONAL

Overall reach **32,000**
served in over **100** countries



Sessions: 6,985 (up 9%)

Page views: 11,732 (up 3%)

Users: 5535 (up 11%)

Newsletter: 1,966

Average open rate: 26%

E-blast average open rate: 27%

LinkedIn: 1,391 followers (public page); 4,148 (private group)

Twitter: 1,277 followers

To advertise please contact mark@bellpublishing.com

CAN MAKING TOOLS

Imeta Srl is specialized in designing and manufacturing all the tools used in can and cover production, such as:

- Complete end making dies
- Die necking tools
- Beading tools
- Curling rings and sectors
- Die flanging tools
- Spin flanging and necking tools
- Spin-flanging rollers
- Embossing tools

Each component is the result of the most modern design methods and it is made by top quality materials, such as special steels to minimize servicing time and increase productivity.

In addition to the existing tools, Imeta Srl not only produces parts "ex novo" according to the Clients' requests or market trends, but also improves their production and operating features.

imeta

Strada Burla 279/A - 43122 Parma - Italy
ph. +39 0521 1688811 - fax +39 0521 1688819
www.imetasrl.com - e.mail info@imeta.it



Tomra launches Autosort Pulse with LIBS technology

Tomra is celebrating its next milestone in the metal segment by introducing the Autosort Pulse to the market, as announced at the ALFED Sustainability Strategy Day in June.

Equipped with dynamic LIBS technology for high-precision sorting of aluminium scrap by alloy types, the new sorting system can be used across a wide range of applications to create high-quality secondary metals.

As the metals industry strives to increase recycling rates to reduce both energy consumption and the use of new materials, the use of best-in-class sorting technology is indispensable. They recover pure mono materials from mixed scrap that can be further processed and turned into virgin-like material with high recycled content. Frank van de Winkel, market strategy segment manager for metals at Tomra Recycling Sorting, explains: "Aluminium scrap consists of multiple alloys. Depending on the application, they contain a mix of different alloying metals that define the material's properties. To recycle a specific alloy without downgrading quality, it must be separated into specific alloy classes – a task that can only be done with the most sophisticated technologies, such as LIBS.

"Our team of in-house engineers has dedicated significant time and effort in the development of this technology to make it excel in performance. Autosort Pulse gives recyclers the means to sort aluminium by alloy classes and produce furnace-ready products for demanding applications."

Autosort Pulse combines leading-edge technology in one machine, enabling high-throughput production of green aluminium. Featuring the patented, dynamic LIBS technology, it delivers outstanding performance in the separation of, for example, 5xxx and 6xxx aluminium alloys. The machine's 3D object scanning detects each object regardless of its size and surface, while multiple single-point scans enable sharper detection of materials in any condition. Due to its AI-based object singulation feature, even overlapping and adjacent objects can be accurately separated to maximise yield.

Conventional sorting machines like x-ray fluorescence (XRF) or standard LIBS technologies are limited in maintaining industry-level throughputs when sorting aluminium alloys. Autosort Pulse has a combination of the most innovative technologies, leading to peak precision and high-purity



Matthias Winkler and Frank van de Winkel holding purely sorted end materials. Image: Tomra

sorting results. According to Tomra, multiple material tests have demonstrated that purity levels of more than 95% can be achieved.

With a bulk infeed system and a processing capacity between three to seven tons an hour, operators can create high volumes of recycled content and thereby meet industrial standards across a wide range of applications.

The Autosort Pulse design also protects workers from any potentially harmful or penetrating light emissions.

Matthias Winkler, product manager at Tomra Recycling Sorting, stated, "We have a long-standing legacy in the metals segment and our finger is on the pulse of the market. Based on our extensive in-house knowledge, we started developing the dynamic LIBS technology when we sensed alloy separation could help businesses reduce downgrading material. After an extensive innovation phase, we have now extended our product portfolio with Autosort Pulse to complement the new generation X-tract.

"Customers testing the machine are impressed by its results and the operational benefits it brings. They can run high throughputs and create high-quality products, which gives them access to new material streams and makes them benefit from operational flexibility and a quick return on investment. I strongly believe that Autosort Pulse will solve the sorting challenges of tomorrow."



The Autosort Pulse machine. Image: Tomra

VK introduces zero sugar RTD cans

UK alcopop brand, VK, has announced the launch of a new zero sugar range to the off-trade.

VK & Soda comes in two flavours – VK & Soda Berries and VK & Soda Lime. Each 330ml can contains 69 calories, fewer than the iconic VK range.

Charlie Leaver, head of brand at Global Brands, commented, “We’re absolutely thrilled to release this true innovation for the category – a product enticing the rapidly growing segment of health-conscious consumers, with the full flavour and taste that VK delivers.”



“Following brilliant feedback from VK fans in trials across NUS venues and nightclubs, and a successful entry into the off-trade through insertion in Tesco Mixed Packs, we’re thrilled to bring VK & Soda to the masses in a convenient canned format.”

“At 3.4% it appeals to consumers looking for moderation and healthier drinks – the perfect product for Gen Z consumers looking for zero sugar and lower calorie options, cross-selling existing customers and attracting a new segment to RTDs.”

Image: VK

Bumble Bee Seafoods debuts new canned tuna

Bumble Bee Seafoods is continuing to expand its line of canned, pouched and kit-based tuna products, with 12 new additions to retail store shelves across the US. Many of the new products or line extensions will be nationally available at leading retailers.

Among the new SKUs is the Bumble Bee Prime Yellowfin in Extra Virgin Olive Oil in three flavours: Lemon & Pepper, Balsamic & Herb and Basil Pesto & Roasted Garlic, all available in 5oz cans.

“We are proud to be able to offer our valued retail partners a range of new product offerings this year that deliver superior consumer value,” said Connie Shepherd, senior vice president, strategy and commercialisation.

“Our goal is to offer our retailers a variety of seafood products that are delicious, accessible, and affordable. From our premium Yellowfin Bumble Bee Prime product line, to on-trend new pouch flavours, to the kid-friendly new Ranch flavour addition to our popular Snack on the Run! Kits, there really is something for everyone to enjoy.”



Image: Bumble Bee Seafoods

NICE adds sparkles

London-based, female-led wine startup, NICE, has launched its first canned sparkling wine.

The white wine product comes in at 10% ABV and offers dry, crisp and sparkling notes, according to NICE. It is a Spanish Airén from La Mancha, Spain, and comes packaged in a 200ml can.

The new product joins NICE’s current lineup of Sauvignon Blanc (11.5% ABV); Pale Rosé (12% ABV); and Malbec (13.5% ABV).

“We’re here to celebrate the wins in people’s lives, no matter how big or small the occasion, so we created this sparkling white wine for a night out with a sparkly outfit, all the way through to celebrating on the sofa with a takeaway,” said NICE co-founder, Lucy Busk.



Image: NICE

GUNNA DRINKS LAUNCHES ALUMINIUM SODA BOTTLES

UK-based Gunna Drinks’ anti-plastic campaign continues with the launch of what it is claiming as the UK’s first range of aluminium bottled soft drinks.

The range begins with three immune-boosting lemonades in Tropical Lemonade, Raspberry Lemonade and Twisted Lemonade, all with added vitamin C and zinc. The drinks will come in a 500ml bottle format (compared to its usual 330ml can).

Melvin Jay, founder of Gunna Drinks, commented, “Putting the planet first is at the heart of Gunna’s company ethos and we’re proud to be the first-to-market with aluminium bottled soft drinks.”

“We’ve invested heavily in this new planet-friendly packaging and although this comes at a premium, costing around 10% more than other formats, our research resoundingly shows consumers are prepared to pay a little more to avoid plastic. Coupled with the new immune boosting sodas, we believe this is a compelling proposition for retailers, with average spend on functional wellness drinks currently more than twice the average price per litre spent on soft drinks.”

“We hope to see other brands follow suit and switch to an aluminium bottled format.”



Image: Gunna Drinks

Swooning over Barbie

With the release of the Barbie film this July, US-based zero sugar beverage company, Swoon, is releasing limited edition pink lemonade cans.

The beverage company has stated that 10% of net sales of Barbie x Swoon Pink Lemonade will support the Dream Gap Project, an ongoing global initiative that aims to give girls the resources and support they need to achieve their dreams.



Image: Swoon

MARLISH ENTERS NEW WATERS

UK-based Marlish Waters has announced the launch of a new 150ml beverage can format for its tonics and mixers range.

The aluminium format launch focuses on four of the brand's most popular SKUs of English Tonic Water, Premium Lemonade, Ginger Ale and Soda Water.

The beverages will be supported by a range of launch offers and promotions with partner wholesalers over the summer season.

Marlish Waters co-founder and director, Joe Evans, commented, "Aluminium cans are infinitely recyclable and both cheaper and easier to recycle than glass. Cans also take less time to chill down in a fridge, requiring less energy to do so. Research has also shown that

150ml is the perfect quantity for a single-serve spirit and mixer, meaning no leftover mixer going to waste.

"If you then add in that fact that we have our own on-site canning line, powered by renewable energy, canning our tonics and mixers range really was a no brainer!"

As of April 2023, Marlish Waters has been using 100% solar, wind and biomass energy at its Hartburn site in Northumberland.



Image: Marlish Waters

Fishers Island Lemonade welcomes summer with canned cocktails

Fishers Island Lemonade is introducing a new look, as well as two new canned cocktail flavours to the US, in the form of Blueberry Wave and Nude Peach.

The new flavours mark the brand's second ever line extension.

The line of spiked lemonade cocktails is recognised by Drizly as one of the top selling canned beverages in the US, and continues to be one of the only canned cocktail brands crafted with a dual-spirits base, combining barrel-aged whiskey, premium vodka, lemon and honey.

"Our fruit-forward flavours are made for summer and are clear winners for the next evolution in our family of lemonades," said Fishers Island Lemonade founder, Bronya Shillo.

"We have received a strong positive response to the initial rollout of Blueberry Wave and Nude Peach, and could not be more thrilled to start seeing them hit shelves. The quality of our ingredients continues to be a focus for us, and we can't wait to hear how consumers react to the delicious, full-flavour taste consumers have come to expect from Fishers."

The complete Fishers Island Lemonade portfolio is gluten-free and available direct-to-consumer across the United States and on Drizly in Colorado, Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, South Carolina, Rhode Island and Vermont.



Image: Maaïke Bernstrom

Vina launches new prebiotic flavours

Here Studio has announced an expansion of prebiotic soda, Vina, through a US national rollout with Sprouts Farmers Markets.

The launch includes two new flavours: Dr Spice, a playful take on spiced cola, and Peach Pop.

Both new flavours are part of a new caffeinated collection, which feature 40mg of Clean Caffeine. The Clean Caffeine is sourced from yerba mate extract and green coffee beans and promises the gentle focused buzz of caffeine without the steep crash associated with more traditional sources, according to Vina.

The roll-out will cover all 393 Sprouts locations nationwide, spanning 23 states.

"We're really excited to see Vina take off in such a way," said VINA founder, Alex Matthews. "When we started this company, we knew there was a space for beverages that actually did something, added something beneficial. We challenged ourselves to create an alternative that wasn't only better for you, but tasted amazing too. Our focus has always been to create a product that could appeal to the masses and make smart swaps easier, more of a no-brainer."

Two additional flavours are available at the retailer, Pomegranate and Cherry Pop. All four flavours will retail at stores for \$2.49.



Image: Vina

V3

SR071C

AUTOMATIC END PROGRESSION & SCORE RESIDUAL GAUGE

- Bubble
- Button
- Rivet
- Coin
- Score

Versatile Technology

MADE TOUGH IN AUSTRALIA

EST. 1990

Asia CanTech
Awards 2023

REGISTER
ONLINE
NOW



www.asia-can.com



Organised by

CanTech
INTERNATIONAL



Asia CanTech 2023

30 October - 1 November
Bangkok, Thailand

Welcome to Asia CanTech, the annual Conference and Exhibition that puts can makers and fillers from across Asia in touch with their global suppliers.

REGISTER
ONLINE
NOW

Asia CanTech Awards 2023

asia-can.com/awards

The prestigious Asia CanTech Awards will be presented at the Asia CanTech Gala Dinner on 31 October.

The awards are FREE to enter in as many categories as you like, and are open to all can and end makers that are based or distribute their products in Asia.

All cans/ends should be sent to the address below by 30 September 2023, and should include a description and brief information about the can along with reasons why you think it's a winning entry.

To enter, please complete the form below or contact the Events Manager,

Lauren Hine
at lauren@bellpublishing.com



ASIA CAN AWARDS 2023

We would like to enter the Asia Can Awards in the following category/ies

- | | | |
|--|--|--|
| <input type="checkbox"/> Aerosols | <input type="checkbox"/> Decorative/Speciality | <input type="checkbox"/> Food, three-piece |
| <input type="checkbox"/> Beverage, two-piece | <input type="checkbox"/> Ends/Caps/Closures | <input type="checkbox"/> General Line |
| <input type="checkbox"/> Beverage, three-piece | <input type="checkbox"/> Food, two-piece | <input type="checkbox"/> Innovation |

Send your sample cans/ends to us by 30 September 2023 **with a brief description of the entry and the reason why you think it's a winner.**

Title: Mr / Mrs / Ms / Dr. _____

Full Name: _____

Email: _____

Job Title: _____

Company Name: _____

Address: _____

Postal / Zip Code: _____ Country: _____

Tel: _____

The cans and documents should be sent by post to:

Asia CanTech Awards, Asia CanTech, The Maltings, 57 Bath Street, Gravesend, Kent DA11 0DF, UK.

Registration documents can also be faxed to +44 (0) 1474 532 203.

The Buyers Guide

A definitive guide to the suppliers of machinery, equipment, services, materials and solutions for the metal packaging industry.

To advertise, contact **Flora McRitchie**
Tel: +44 1474 532202 Email: flora@bellpublishing.com

**360° POWDER COATING
FOR MONOBLOC CANS &
FLEXIBLE TUBES**



Frei AG
Hofenstrasse 18
CH-9300 Wittenbach, Switzerland
Tel: +41 71 292 3434
Fax: +41 71 292 3400
Email: sales@frei-ag.com
Web: www.frei-ag.com

**AEROSOL MANUFACTURING
EQUIPMENT**



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



Germann + Frei AG
Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com

AIR COMPRESSORS



Pneumofore SpA
Via N. Bruno 34
10098 Rivoli, Italy
Tel: +39 011 950 40 30
Fax: +39 011 950 40 40
Email: info@pneumofore.com
Web: www.pneumofore.com

**AUTOMATIC BODY BLANKET
TRANSFER SYSTEMS**



Ocsam Cepak Srl
Via Luciano Lama 6
42049 Calerno (RE), Italy
Tel: +39 0522 474 007
Web: www.soudronic.com
Email: ocsam@soudronic.com

**AUTOMATIC CAN MAKING
LINES (USED)**



Lacueva Can Making Machinery SL.
Pol.Industrial El Roturo
Parcela 1, 26511 El Villar De Arnedo
La Rioja, Spain
Tel: +34 941 130918
Fax: +34 941 135113
Email: lacueva@maquinarialacueva.com
Web: www.maquinarialacueva.com

**AUTOMATED PACKAGING
LINE EQUIPMENT**



Ska Fabrications
545 Turner Drive,
Durango, Colorado, 81303, USA
Web: www.skafabricating.com
Tel: +1 970 403 8562
Email: sales@skafabricating.com

**BAGGERS AND WRAPPERS
FOR ENDS**



Autorema
Polígono industrial El Saladar, I
C/ José Guillén Martínez, esq. C/ Río
Quipar
CP 30564 – Lorquí, Murcia (SPAIN)
Tel: +34 968 687 523
Fax: +34 968 687 565
Web: www.autorema.com

**BALANCING OVENS &
OXIDIZERS**



**Environmental Services &
Technologies Inc**
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

BEADING UNITS



Cheng Shin Enterprise Co.,Ltd.
434-45 NO.58, Ln. 173, Gongye Rd.,
Longjing Dist., Taichung City, Taiwan
Tel: +8864-26302374 |
Fax: +8864-26302370
Web: www.can-necking.com.tw
E-mail: slin.chengshin@gmail.com



Germann + Frei AG
Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Klinghammer Group GmbH
Am Hafen 2
D-38112 Braunschweig, Germany
Tel: +49 531 30 00 60
Fax: +49 531 30 00 645
E-mail: info@klinghammer.com
Web: www.klinghammer.com

**BEVERAGE / SANITARY
END-MAKING SYSTEMS**



**Suzhou SLAC Precision Equipment
Co, Ltd**
Asia and ROW
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

SLAC Precision Equipment Corp
North and South America
 1314 Webster Street
 Dayton, Ohio 45404, USA
 Tel: +1 630 528 7188
 Email: bmckinley@slacdayton.com
 Web: www.slacdayton.com

**BEVERAGE / SANITARY
 END-MAKING SYSTEMS**



Corima International Machinery Srl
EMEA
 Via F Fellini 11/a
 40051 Altedo di Malalbergo
 Bologna, Italy
 Tel: +39 0532 55345
 Fax: +39 0532 54504
 Web: www.corima.org
 Email: info@corima.org



STOLLE MACHINERY

Stolle Machinery Company, LLC
 6949 S. Potomac Street
 Centennial, CO 80112, USA
 Tel: +1 303 708 9044
 Fax: +1 303 708 9045
 Email: sales@stollemachinery.com
 Web: www.stollemachinery.com



Taishan Fortune Industry & Trade Co Ltd. Taishan Fortune Precision Machinery Co Ltd.
 Lot 3/3 No.1 Five Road, Chang Long Industry Zone, Si Jiu Town, Taishan City 529200 Guangdong Province, China
 Mob: +86 18658701568 (WhatsApp/Wechat)
 E-mail: dingo@jeitco.com
 E-mail: dingo@fortune-eoe.com
 Web: www.fortune-eoe.com, www.jeitco.com
 YouTube: www.youtube.com/c/MetalCanMakingSolution
 LinkedIn: www.linkedin.com/company/68971882

**BODYMAKER COOLANT
 FILTRATION SYSTEMS**



STOLLE MACHINERY

Stolle Machinery Company, LLC
 6949 S. Potomac Street
 Centennial, CO 80112, USA
 Tel: +1 303 708 9044
 Fax: +1 303 708 9045
 Email: sales@stollemachinery.com
 Web: www.stollemachinery.com

BODYMAKERS



CarnaudMetalbox Engineering plc
 Dockfield Road, Shipley
 W Yorkshire BD17 7AY, UK
 Tel: +44 1274 846 200
 Email: sales@cmbe.com
 Web: www.cmbe.com



Shantou Xinqing Cannery Machinery Co Ltd
 No.2 B7 Section, Jinyuan Industrial Area,
 Shantou, 515064 China
 Tel: +86 754 82122088 / 88208923
 Fax: +86 754 82124088
 Email: xq@canning-machinery.cn
 Web: www.canning-machinery.cn



Suzhou SLAC Precision Equipment Co Ltd
Asia and ROW
 1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
 Tel: +86 512 6693 0111
 Fax: +86 512 6624 8543
 Web: www.slac.com.cn
 E-mail: slac@slac.com.cn
OKL Engineering Inc
 11235 Sebring Drive, Cincinnati, Ohio 45240, USA
 Tel: +1 513 825 1655
 Web: www.oklcan.com
 Email: sales@oklcan.com

BODYMAKERS D+I



Belvac Production Machinery Inc
 237 Graves Mill Road
 Lynchburg, VA 24502-4203, USA
 Tel: +1 434 239 0358
 Fax: +1 434 239 1964
 Email: info@belvac.com
 Web: www.belvac.com



STOLLE MACHINERY

Stolle Machinery Company, LLC
 6949 S. Potomac Street
 Centennial, CO 80112, USA
 Tel: +1 303 708 9044
 Fax: +1 303 708 9045
 Email: sales@stollemachinery.com
 Web: www.stollemachinery.com

BODYMAKER SPARE PARTS



Suzhou SLAC Precision Equipment Co Ltd
Asia and ROW
 1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
 Tel: +86 512 6693 0111
 Fax: +86 512 6624 8543
 Web: www.slac.com.cn
 E-mail: slac@slac.com.cn
OKL Engineering Inc
 11235 Sebring Drive, Cincinnati, Ohio 45240, USA
 Tel: +1 513 825 1655
 Web: www.oklcan.com
 Email: sales@oklcan.com
Intercan Group Ltd
EMEA
 38 Burners Lane, Kiln Farm
 Milton Keynes MK11 3HB, UK
 Tel: +44 1908 566015
 Web: www.intercan.co.uk
 Email: sales@intercan.co.uk

BODYMAKERTOOLING



WALLRAM USA Inc.
 1819 S. Murray Blvd, Colorado Springs CO 80916, USA
 Tel: +1 719 355 2600
 Fax: +1 719 596 3019
 Web: www.wallram.com
 Email: sales-usa@wallram.com

WALLRAM GmbH

Schuermannstrasse 40,
 45136 Essen, Germany
 Tel: +49 201 89636 0
 Fax: +49 201 89636 30
 Web: www.wallram.com
 Email: sales-germany@wallram.com

WALLRAM CanTool-Europe Sp.zo.o

Ul. Półtangi 44, 30-740 Kraków, Poland
 Tel: +48 12 285 38 28
 Fax: +48 12 257 97 96
 Web: www.wallram.com
 Email: sales-poland@wallram.com

**BOTTLE CAN
 MANUFACTURING EQUIPMENT**



Belvac Production Machinery Inc
 237 Graves Mill Road
 Lynchburg, VA 24502-4203, USA
 Tel: +1 434 239 0358
 Fax: +1 434 239 1964
 Email: info@belvac.com
 Web: www.belvac.com

**CAN CONVEYORS/
 CONVEYING**



ARROWHEAD SYSTEMS, INC.
Arrowhead Systems, Inc - Busse/ SJI Corp
 124 N Columbus Street, Randolph WI 53956, USA
 Tel: +1 920 326 3131
 Fax: +1 866 580 3212
 Web: www.arrowheadsystems.com



Canline NL
 Meerheide 216
 5521 DW Eersel, The Netherlands
 Tel: +31 497 53 11 00
 Fax: +31 497 53 11 09
 Email: info@canline.nl
 Web: www.canline.com

Canline Systems USA
 2000 Center Drive
 Suite East B212
 Hoffman Estates, IL 60192
 United States
 Tel: +1 360 292 1603
 Fax: +31 (0) 497 53 11 09
 Email: info@canline.nl
 Web: www.canline.com



CTA Engineering, Equipment and Maintenance

485 Rua Comendador Vicente Leone
Limeira – Sao Paulo – Brazil
Tel: +55 19 3513 1977
Email: cta@ctaequipamentos.com.br
Web: ctaequipamentos.com.br



STOLLE MACHINERY

Stolle Machinery Company, LLC

6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com



Autorema

Polígono industrial El Saladar, I
C/ José Guillén Martínez, esq. C/ Río Quipar
CP 30564 – Lorquí, Murcia (SPAIN)
Tel: +34 968 687 523
Fax: +34 968 687 565
Web: www.autorema.com

CAN DECORATING EQUIPMENT



Belvac Production Machinery Inc

237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



STOLLE MACHINERY

Stolle Machinery Company, LLC

6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

CAN & DOUBLE SEAM TESTING EQUIPMENT



Canneed Instrument Group Ltd

No. 6, Longxing Road, Jindu Industry Agglomeration Base Phase Two, Jindu Town Gaoyao District, Zhaoqing City, Guangdong Province, PR China Zip code: 526108
Tel: +86 758 8522881
Fax: +86 758-8522863
Email: info@canneed.com
Web: www.canneed.com



METOP AB

Flygledaregatan 5
212 39 Malmö, Sweden
Tel: +46 40 16 32 35
Email: info@metop.se
Web: www.metop.se

CAN END DIES



-AMADOR VARAS SA-

Amador Varas SA
c/Montalegre 32
08915 Badalona, Barcelona, Spain
Tel: +34 933 952 954
Fax: +34 933 954 904
Email: varas@amador-varas.com
Web: www.amador-varas.com

CAN LINE CONTROL SYSTEMS



Canline NL

Meerheide 216
5521 DW Eersel, The Netherlands
Tel: +31 497 53 11 00
Fax: +31 497 53 11 09
Email: info@canline.nl
Web: www.canline.com
Canline Systems USA
1807 Murry Rd SW, Suite P
Roanoke, VA 24018, USA
Tel: +31 497 53 11 00
Fax: +31 497 53 11 09
Email: info@canline.nl
Web: www.canline.com



ENGINEERS • FABRICATORS • CONSTRUCTORS

Roeslein & Associates Inc

9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com

CAN MAKING MACHINES AND COMPLETE LINES



CTA Engineering, Equipment and Maintenance

485 Rua Comendador Vicente Leone
Limeira – Sao Paulo - Brazil
Tel: +55 19 3513 1977
Email: cta@ctaequipamentos.com.br
Web: ctaequipamentos.com.br



Shin-I Machinery Works Co Ltd

No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com



Soudronic AG

Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

CAN TESTING EQUIPMENT



BA.SCO srl

Via Borgognone 9
10090 Trana (Torino), Italy
Tel: +39 0119 33620
Fax: +39 0119 355 763
Email: sales@basco-testers.com
Web: www.basco-testers.com



Canneed Instrument Group Ltd

No. 6, Longxing Road, Jindu Industry Agglomeration Base Phase Two, Jindu Town Gaoyao District, Zhaoqing City, Guangdong Province, PR China Zip code: 526108
Tel: +86 758 8522881
Fax: +86 758-8522863
Email: info@canneed.com
Web: www.canneed.com



Bonfiglioli Engineering Srl

Via Amerigo Vespucci, 20
44124 Ferrara, Italy
Tel: +39 0532 715631
Fax: +39 0532 715625
Email: marketing@bonfiglioliengineering.com
Web: www.bonfiglioliengineering.com



Torus Technology Group (UK Head Office)

Nedge Hill Science Park, Telford, Shropshire, TF3 3AJ, UK
Tel: +44 1952 210 020
Fax: +44 1952 299 804
E-mail: tms.sales@torus-group.com
Web: www.torus-group.com
Torus Americas, Inc (USA)
150 Capital Drive, Suite 340-350, Golden, Colorado, 80401, USA
Tel: +1 303 384 0279
Fax: +1 303 279 7551
E-mail: tai.sales@torus-group.com

CAN TOOLING



Belvac Production Machinery Inc

237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



WALLRAM USA INC

1819 S. Murray Blvd, Colorado Springs
CO 80916 USA
Tel: +1 719 355 2600
Fax: +1 719 596 3019
Web: www.wallram.com
Email: sales-usa@wallram.com

WALLRAM GmbH

Schuermannstrasse 40,
45136 Essen, Germany
Tel: +49 201 89636 0
Fax: +49 201 89636 30
Web: www.wallram.com
Email: sales-germany@wallram.com

WALLRAM CanTool-Europe Sp.oz.

Ul. Póhanki 44, 30-740 Kraków
Poland
Tel: +49 201 89636 0
Fax: +49 201 89636 30
Web: www.wallram.com
Email: sales-poland@wallram.com

CAN TRIMMERS



Belvac Production Machinery Inc

237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



CarnaudMetalbox Engineering plc

Dockfield Road
Shipley, West Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



Suzhou SLAC Precision Equipment Co, Ltd

Asia and ROW
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

SLAC Precision Equipment Corp

North and South America

1314 Webster Street
Dayton, Ohio 45404, USA
Tel: +1 630 528 7188
Email: bmckinley@slacdayton.com
Web: www.slacdayton.com



STOLLE MACHINERY

Stolle Machinery Company, LLC

6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

CAN WASHERS/OVENS



Headquarters:

Greenbank Technology
Unit 1, Greenbank Technology Park,
Challenge Way, Blackburn BB1 5QB, UK
Tel: +44 1254 690555
Fax: +44 1254 690666
E-mail: sales@greenbanktechnology.co.uk
Web: www.greenbanktechnology.co.uk

USA Office:

Tel: +1 262 642 3535
Fax: +1 262 374 0590
E-mail: tomz@greenbanktechnology.co.uk



IMF Engineering Srl

Via Giuseppe di Vittorio 9
20016 Pero (Mi), Italy
Tel. +39 02 33910880
Fax: +39 02 33910677
Email: info@imfeng.eu
Web: www.imfeng.eu



VMI Holland BV

Gelriaweg 16, 8161 RK Epe
The Netherlands
Tel: +31 578 679 111
Fax: +31 578 621 317
Email: sales@vmi-group.com
Web: www.vmi-group.com

CAPMAKING MACHINES



Rainer Naroska Engineering GmbH

Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com

CAPPING MACHINES



Sommetrade SL

Parque Tecnológico de Zamudio -
Edificio 301, 48170 Zamudio (Vizcaya),
Spain
Tel: +34 94 431 8611
Fax: +34 94 431 8200
Email: j.vivanco@sommetrade.com
Web: www.sommetrade.com

COATER LITHO PRESS PARTS & SERVICES



Perm Machine & Tool Co

PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

COATER PARTS



Environmental Services & Technologies Inc

Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com



Perm Machine & Tool Co

PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

COATING MACHINES



Fuji Kikai Kogyo Co Ltd

2-7-1 Iida, Hachihonmatsu,
Higashihiroshima-shi
Hiroshima Pref 739-0146, Japan
Metal Decorating Sales Dept
Tel: +81 82 428 2455
Fax: +81 82 428 8912
Email: primex@fujikikai.co.jp
Web: www.fujikikai.co.jp



Inghor, S.A (Ingeniería y Hornos, S.A.)

Edificio Albia
C/ San Vicente 8, Planta 9
48001 Bilbao, Spain
Tel: +34 944 411 012 / 313
Fax: +34 944 411 066
Email: inghor@inghor.es
Web: www.inghor.es



Miotto Este spa

Via Talamoni, 4
I-20861 Brugherio (MB), Italy
Tel: +39 0392 878 284
Fax: +39 0398 84 594
Email: info@miottoeste.it
Web: www.miottoeste.it



Perm Machine & Tool Co

PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

**COATING MACHINES
BOTTOM RIM**



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com

COIL HANDLING SYSTEMS



Hengli CNC Technology Co, Ltd
265 Yixian Road, Wukang Town
Deqing County, Zhejiang Province
313200, China
Tel: +86 572 8832016
+86 572 8832000
Fax: +86 572 8832222
Email: sales@zjhlcnc.com
Web: www.zjhlcnc.com



**Suzhou SLAC Precision Equipment
Co Ltd – Asia and ROW**
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn



Perfecto Industries, Inc
1729 W. High Street
Piqua, OH 45356, USA
Tel: +1 937 778 1900
Fax: +1 937 773 7332
Email: sales@perfectoindustries.com
Web: www.perfectoindustries.com

**COMPLETE CAN LINES
(THREE-PIECE)**



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com

**COMPLETE CAN LINES
(THREE-PIECE) – USED**



B&B Machinery LLC
1580 Report Avenue, Unit 3
Stockton, CA 95205, USA
Tel: +1 209 483 0753
Web: www.b-bmachine.com
Email: sales@bb-machine.com

**COMPLETE CAN LINES
(TWO-PIECE)**



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Roeslein & Associates Inc
9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com

**COMPLETE CAN LINES
(TWO-PIECE) – USED**



B&B Machinery LLC
1580 Report Avenue, Unit 3
Stockton, CA 95205, USA
Tel: +1 209 483 0753
Web: www.b-bmachine.com
Email: sales@bb-machine.com

**COMPLETE END-
MAKING LINES**



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

**COMPOUND LINING
EQUIPMENT**



Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

CONTAINER PRESSES



Nidec Minster Corporation
240 West Fifth Street
Minster, OH 45865-0120, USA
Tel: +1 419 628 2331
Fax: +1 419 628 4224
Email: sales@minster.com
Web: www.minster.com

**CONTROLS, UPGRADES
PLC HMI**



**Environmental Services &
Technologies Inc**
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561

West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

CONVEYOR COMPONENTS



**Pride Conveyance Systems:
A Roeslein Company**
9200 Watson Road, Suite 200 St Louis,
MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com

CONVEYORS: MAGNETIC



Bunting-Newton
500 S Spencer Avenue
PO Box 468, Newton
KS 67114-0468, USA
Tel: +1 316 284 2020
Fax: +1 316 283 4975
Email: bmc@buntingmagnetics.com
Web: www.buntingmagnetics.com



Canline NL
Meerheide 216
5521 DW Eersel, The Netherlands
Tel: +31 497 53 11 00
Fax: +31 497 53 11 09
Email: info@canline.nl
Web: www.canline.com

Canline Systems USA
2000 Center Drive
Suite East B212
Hoffman Estates, IL 60192
United States
Tel: +1 360 292 1603
Fax: +31 (0) 497 53 11 09
Email: info@canline.nl
Web: www.canline.com

CUPPING SYSTEMS



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



CarnaudMetalbox Engineering plc
Dockfield Road
Shipley, West Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn
SLAC Precision Equipment Corp
North and South America
1314 Webster Street
Dayton, Ohio 45404, USA
Tel: +1 630 528 7188
Email: bmckinley@slacdayton.com
Web: www.slacdayton.com



STOLLE MACHINERY

Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

CUPPING/SHELL DIES



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

CURING OVENS



Headquarters:
Greenbank Technology
Unit 1, Greenbank Technology Park, Challenge Way, Blackburn BB1 5QB, UK
Tel: +44 1254 690555
Fax: +44 1254 690666
E-mail: sales@greenbanktechnology.co.uk
Web: www.greenbanktechnology.co.uk
USA Office:
Tel: +1 262 642 3535
Fax: +1 262 374 0590
E-mail: tomz@greenbanktechnology.co.uk

DAMPENING SYSTEMS FOR METAL DECORATING



Epic Products International
902 KCK Way, Cedar Hill
TX 75104, USA
Tel: +1 817 640 3037 or 469 575 0074
Email: sales@epicproducts.com
Web: epicproducts.com

DECORATORS & BASECOATERS



CarnaudMetalbox Engineering plc
Dockfield Road, Shipley
W Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

Intercan Group Ltd EMEA

38 Burners Lane, Kiln Farm
Milton Keynes, MK11 3HB
United Kingdom
Tel: +44 1908 566015
Fax: +44 1908 560638
Web: www.intercan.co.uk

D&I CAN MAKING SYSTEMS



CarnaudMetalbox Engineering plc
Dockfield Road, Shipley
W Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com

DIGITAL DECORATORS FOR TWO-PIECE CANS



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

Intercan Group Ltd EMEA

38 Burners Lane, Kiln Farm
Milton Keynes, MK11 3HB
United Kingdom
Tel: +44 1908 566015
Fax: +44 1908 560638
Web: www.intercan.co.uk
Email: sales@intercan.co.uk

DOMERS/BOTTOM FORMERS



Pride Engineering, LLC
10301 Xylon Avenue North, Suite 100
Minneapolis, MN 55445, USA
Email: customer@pridecan.com
Web: www.pridecan.com

DOUBLE SHEET DETECTION



Prime Controls, Inc.
World Headquarters:
4528 Gateway Circle
Dayton, OH 45440-1712, USA
Tel: +1 937 435 8659
Fax: +1 937 435 2091
Email: vip@primecontrols.com
Web: www.primcontrols.com

DRD CAN MAKING EQUIPMENT



Rainer Naroska Engineering GmbH
Im Hengsfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com



STOLLE MACHINERY
Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com



Taishan Fortune Industry & Trade Co Ltd. Taishan Fortune Precision Machinery Co Ltd.
 Lot 3/3 No.1 Five Road, Chang Long Industry Zone, Si Jiu Town, Taishan City 529200 Guangdong Province, China
 Mob: +86 18658701568 (WhatsApp/ Wechat)
 E-mail: dingo@jeitco.com
 E-mail: dingo@fortune-oe.com
 Web: www.fortune-oe.com, www.jeitco.com
 YouTube: www.youtube.com/c/MetalCa-nMakingSolution
 LinkedIn: www.linkedin.com/compa-ny/68971882

DRYING OVENS



Headquarters: Greenbank Technology
 Unit 1, Greenbank Technology Park, Challenge Way, Blackburn BB1 5QB, UK
 Tel: +44 1254 690555
 Fax: +44 1254 690666
 E-mail: sales@greenbanktechnology.co.uk
 Web: www.greenbanktechnology.co.uk
USA Office:
 Tel: +1 262 642 3535
 Fax: +1 262 374 0590
 E-mail: tomz@greenbanktechnology.co.uk



Industrias Peñalver SL
 Pol. Industrial El Tapiado C/ Albaricoque s/n, Molina de Segura 30500 Murcia, Spain
 Tel: +34 968 38 90 88
 Fax: +34 968 38 90 19
 Email: info@penalver.com
 Web: www.penalver.com



Inghor, S.A (Ingeniería y Hornos, S.A.)
 Edificio Albia C/ San Vicente 8, Planta 9 48001 Bilbao, Spain
 Tel: +34 944 411 012 / 313
 Fax: +34 944 411 066
 Email: inghor@inghor.es
 Web: www.inghor.es



Miotto Este SpA
 Via Talamoni, 4 I-20861 Brugherio (MB), Italy
 Tel: +39 0392 878 284
 Fax: +39 0398 84594
 Email: info@miottoeste.it
 Web: www.miottoeste.it



sellacan Industrieofen GmbH
 Daimlerstr. 12 32791 Lage-Lippe / Germany
 Tel: (05232) 6990-0
 Fax: (05232) 6990-28
 Email: mn@sellacan.de
 Web: www.sellacan.de



STOLLE MACHINERY

Stolle Machinery Company, LLC
 6949 S. Potomac Street Centennial, CO 80112, USA
 Tel: +1 303 708 9044
 Fax: +1 303 708 9045
 Email: sales@stollemachinery.com
 Web: www.stollemachinery.com

EASY OPEN END MANUFACTURING MACHINERY



DRT Holdings LLC.
 618 Greenmount Blvd Dayton, OH 45419, USA
 Tel: +1 937 298 7391
 Fax: +1 937 298 7190
 Email: postoffice@drtusa.com
 Web: www.drtdmfgco.com



GM Technologies
 Headquarters: Via Molinelle 113, 80045 Pompei (NA), Italy
 Factory: Zona PIP - via Orto di Cioglia 83045 Calitri (AV), Italy
 Tel: +39 081 850 34 14
 +39 081 388 30 893
 Fax: +39 081 365 24 73
 Email: info@gmtechs.it
 Web: www.gmtechs.it



Rainer Naroska Engineering GmbH
 Im Hengstfeld 19 32657 Lemgo, Germany
 Tel: +49 5261 6606 0
 Fax: +49 5261 6606 30
 Email: sales@naroska.com
 Web: www.naroska.com



Suzhou SLAC Precision Equipment Co, Ltd

Asia and ROW
 1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
 Tel: +86 512 6693 0111
 Fax: +86 512 6624 8543
 Web: www.slac.com.cn
 Email: slac@slac.com.cn

SLAC Precision Equipment Corp North and South America

1314 Webster Street Dayton, Ohio 45404, USA
 Tel: +1 630 528 7188
 Email: bmckinley@slacdayton.com
 Web: www.slacdayton.com

Corima International Machinery Srl EMEA

Via F Fellini 11/a 40051 Altedo di Malalbergo Bologna, Italy
 Tel: +39 0532 55345
 Fax: +39 0532 54504
 Web: www.corima.org
 Email: info@corima.org



STOLLE MACHINERY

Stolle Machinery Company, LLC

6949 S. Potomac Street Centennial, CO 80112, USA
 Tel: +1 303 708 9044
 Fax: +1 303 708 9045
 Email: sales@stollemachinery.com
 Web: www.stollemachinery.com



Taishan Fortune Industry & Trade Co Ltd. Taishan Fortune Precision Machinery Co Ltd
 Lot 3/3 No.1 Five Road, Chang Long Industry Zone, Si Jiu Town, Taishan City 529200 Guangdong Province, China
 Mob: +86 18658701568 (WhatsApp/ Wechat)
 E-mail: dingo@jeitco.com
 E-mail: dingo@fortune-oe.com

Web: www.fortune-oe.com, www.jeitco.com
 YouTube: www.youtube.com/c/MetalCa-nMakingSolution
 LinkedIn: www.linkedin.com/compa-ny/68971882

EASY OPEN END REPAIR COAT SYSTEM



Industrias Peñalver SL

Pol. Industrial El Tapiado C/ Albaricoque s/n Molina de Segura 30500 Murcia, Spain
 Tel: + 34 968 38 90 88
 Fax: + 34 968 38 90 19
 Email: info@penalver.com
 Web: www.penalver.com



sellacan Industrieofen GmbH

Daimlerstr. 12 32791 Lage-Lippe / Germany
 Tel: (05232) 6990-0
 Fax: (05232) 6990-28
 Email: mn@sellacan.de
 Web: www.sellacan.de



Suzhou SLAC Precision Equipment Co, Ltd

Asia and ROW
 1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
 Tel: +86 512 6693 0111
 Fax: +86 512 6624 8543
 Web: www.slac.com.cn
 E-mail: slac@slac.com.cn

Corima International Machinery Srl EMEA

Via F Fellini 11/a 40051 Altedo di Malalbergo Bologna, Italy
 Tel: +39 0532 55345
 Fax: +39 0532 54504
 Web: www.corima.org
 Email: info@corima.org

ELECTROLYTIC TINPLATE & TIN-FREE STEEL



Jiangsu GuoLian New Material Co., Ltd.

Luoyang Industrial Zone, Wujin District, Changzhou, Jiangsu, P.R. China.
Tel: +86 519 8852 1850
Fax: +86 519 8879 0908
Email: info@guolian-steel.com
Web: www.guolian-steel.com

END & TAB CONVERSION TOOLING



DRT Holdings LLC.

618 Greenmount Blvd
Dayton, OH 45419, USA
Tel: +1 937 298 7391
Fax: +1 937 298 7190
Email: postoffice@drtusa.com
Web: www.drtdmfgco.com

END & TAB CONVERSION TOOLING



DRT GmbH & Co KG

Hansestrasse 49
D-38112 Braunschweig, Germany
Tel: +49 531 231 620
Fax: +49 531 231 6244
Email: info@drt-europe.de
Web: www.drt-europe.de



Taishan Fortune Industry & Trade Co Ltd. Taishan Fortune Precision Machinery Co Ltd.

Lot 3/3 No.1 Five Road, Chang Long Industry Zone, Si Jiu Town, Taishan City 529200 Guangdong Province, China
Mob: +86 18658701568 (WhatsApp/Wechat)
E-mail: dingo@jeitco.com
E-mail: dingo@fortune-ee.com
Web: www.fortune-ee.com, www.jeitco.com
YouTube: www.youtube.com/c/Metal-CanMakingSolution
LinkedIn: www.linkedin.com/company/68971882

END TESTING EQUIPMENT



Canneed Instrument Group Ltd

No. 6, Longxing Road, Jindu Industry Agglomeration Base Phase Two, Jindu Town Gaoyao District, Zhaoqing City, Guangdong Province, 526108 PR China
Tel: +86 758 8522881
Fax: +86 758-8522863
Email: info@canneed.com
Web: www.canneed.com



Sencon

North, Central & South America

Sencon Incorporated
6385 W 74th Street
Bedford Park, IL 60638, USA
Tel: +1 708 496 3100
Fax: +1 708 496 3105
Email: info@sencon.com

Europe, Middle East, Asia, Africa, Australasia

Sencon (UK) Ltd
Pointon Way, Stonebridge Cross Business Park
Droitwich WR9 0LW, UK
Tel: +44 1905 827800
Fax: +44 1905 795876

Web: www.sencon.com



Torus Technology Group (UK Head Office)

Nedge Hill Science Park, Telford, Shropshire, TF3 3AJ, UK
Tel: +44 1952 210 020
Fax: +44 1952 299 804
E-mail: tms.sales@torus-group.com
Web: www.torus-group.com

Torus Americas, Inc (USA)

150 Capital Drive, Suite 340-350, Golden, Colorado, 80401, USA
Tel: +1 303 384 0279
Fax: +1 303 279 7551
E-mail: tai.sales@torus-group.com

ENGINEERING & INSTALLATION SERVICES



Roeslein & Associates Inc

9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com



STOLLE MACHINERY

Stolle Machinery Company

Chris McAlpine, VP – Global Solutions
6949 S. Potomac Street
Centennial, CO 80112-4036, USA
Tel: +1 303 708 5048
Mobile: +1 303 549 0253
Email: chris.mcalpine@stollemachinery.com
Web: www.stollemachinery.com

FILM WEIGHT CONTROL



Canneed Instrument Group Ltd

No. 6, Longxing Road, Jindu Industry Agglomeration Base Phase Two, Jindu Town Gaoyao District, Zhaoqing City, Guangdong Province, PR China Zip code: 526108
Tel: +86 758 8522881
Fax: +86 758-8522863
Email: info@canneed.com
Web: www.canneed.com



Torus Technology Group (UK Head Office)

Nedge Hill Science Park, Telford, Shropshire, TF3 3AJ, UK
Tel: +44 1952 210 020
Fax: +44 1952 299 804
E-mail: tms.sales@torus-group.com
Web: www.torus-group.com
Torus Americas, Inc (USA)
150 Capital Drive, Suite 340-350, Golden, Colorado, 80401, USA
Tel: +1 303 384 0279
Fax: +1 303 279 7551
E-mail: tai.sales@torus-group.com

FLANGING MACHINES



Cheng Shin Enterprise Co., Ltd.

434-45 NO.58, Ln. 173, Gongye Rd., Longjing Dist., Taichung City, Taiwan
Tel: +8864-26302374 |
Fax: +8864-26302370
Web: www.can-necking.com.tw
E-mail: slin.chengshin@gmail.com



Germann + Frei AG

Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Klinghammer Group GmbH

Am Hafen 2
D-38112 Braunschweig, Germany
Tel: +49 531 30 00 60
Fax: +49 531 30 00 645
E-mail: info@klinghammer.com
Web: www.klinghammer.com

GAS CURERS FOR THREE-PIECE CAN LINES



Frei AG

Hofenstrasse 18
CH-9300 Wittenbach, Switzerland
Tel: +41 71 292 3434
Fax: +41 71 292 3400
Email: sales@frei-ag.com
Web: www.frei-ag.com



Soudronic AG

Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

HEAT EXCHANGERS CERAMIC MEDIA - TUBES



Environmental Services & Technologies Inc Midwest Office

4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

**INDUCTION CURING
& DRYING SYSTEMS**



Can Man AG
Mülisacker 221
CH-5705 Hallwil, Switzerland
Tel: +41 62 777 4440
Fax: +41 62 777 4441
Email: sales@canman.ch
Web: www.canman.ch



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com



Sprimag Spritzmaschinenbau GmbH & Co. KG
Henriettenstraße 90
73230 Kirchheim/Teck, Germany
Tel: +49 7021 579-0
Fax: +49 7021 579 - 48 238
Email: info@sprimag.de
Web: www.sprimag.de

INKER ROLLERS



Intercan Group Ltd EMEA
38 Burners Lane, Kiln Farm
Milton Keynes, MK11 3HB
United Kingdom
Tel: +44 1908 566015
Web: www.intercan.co.uk
Email: sales@intercan.co.uk

INSIDE SPRAY EQUIPMENT



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

Corima International Machinery Srl EMEA

Via F Fellini 11/a
40051 Altedo di Malalbergo
Bologna, Italy
Tel: +39 0532 55345
Fax: +39 0532 54504
Web: www.corima.org
Email: info@corima.org



STOLLE MACHINERY

Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

**INSIDE/OUTSIDE
SPRAY MACHINES**



CarnaudMetalbox Engineering plc

Dockfield Road, Shipley
West Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



Sprimag Spritzmaschinenbau GmbH & Co. KG
Henriettenstraße 90
73230 Kirchheim/Teck, Germany
Tel: +49 7021 579-0
Fax: +49 7021 579 - 48 238
Email: info@sprimag.de
Web: www.sprimag.de

**INSPECTION/AUDITS
OVEN & OXIDIZER**



Environmental Services & Technologies Inc
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561

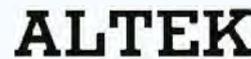
West Coast Office

1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

INSPECTION SYSTEMS



ALTEK Company
89 Commercial Boulevard
PO Box 1128, Torrington
CT 06790, USA
Tel: +1 860 482 7628
Fax: +1 860 496 0255
Email: tech@altekcompany.com
Web: www.altekcompany.com



Applied Vision Corporation
2020 Vision Lane,
Akron, OH 44323, USA
Tel: +1 330 926 2222
Fax: +1 330 926 2250
Email: sales@appliedvision.com
Web: www.appliedvision.com



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



Canned Instrument Group Ltd
No. 6, Longxing Road, Jindu Industry
Agglomeration Base Phase Two, Jindu
Town Gaoyao District, Zhaoqing City,
Guangdong Province, 526108 PR China
Tel: +86 758 8522881
Fax: +86 758-8522863
Email: info@canneed.com
Web: www.canneed.com



ibea GmbH
Kleine Bahnstrasse 8, 22525 Hamburg,
Germany
Tel: +49 40 689 887 0
Fax: +49 40 689 887 29
Email: sales@ibea.de
Web: www.ibea.de



ISRA Vision AG
Industriestrasse 14
64297 Darmstadt, Germany
Tel: +49 6151 948 0
Email: info@isravision.com
Web: www.isravision.com



Pressco Technology Inc
29200 Aurora Road
Cleveland, OH 44139, USA
Tel: +1 440 498 2600
Fax: +1 440 498 2615
Email: sales@pressco.com
Web: www.pressco.com



Prime Controls, Inc.
World Headquarters:
4528 Gateway Circle
Dayton, OH 45440-1712, USA
Tel: +1 937 435 8659
Fax: +1 937 435 2091
Email: vip@primecontrols.com
Web: www.primecontrols.com



SACMI IMOLA
Via Selice Prov. Le IA 17/A
40026 Imola BO, Italy
Tel: +39 0542 607 111
Fax: +39 0542 642 354
Email: sacmi@sacmi.it
Web: www.sacmi.com



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

Corima International Machinery Srl EMEA
Via F Fellini 11/a
40051 Altedo di Malalbergo
Bologna, Italy
Tel: +39 0532 55345
Fax: +39 0532 54504
Web: www.corima.org
Email: info@corima.org

LEAK DETECTION



BA.SCO srl
Via Borgognone 9
10090 Trana (Torino), Italy
Tel: +39 0119 33620
Fax: +39 0119 355 763
Email: sales@basco-testers.com
Web: www.basco-testers.com



Prime Controls, Inc.
World Headquarters:
4528 Gateway Circle, Dayton, Ohio 45440-1712, USA
Tel: +1 937 435 8659
Fax: +1 937 435 2091
Email: vip@primecontrols.com
Web: www.primcontrols.com



Shantou Xinqing Cannery Machinery Co, Ltd
B7 Jinxing Road, Jinyan Industrial Area, Shantou, China
Tel: +86-754 82122088 / 82123088 / 88208923
Fax: +86 754 82124088
Email: xq@canning-machinery.cn
Web: www.canning-machinery.cn



Torus Technology Group (UK Head Office)
Nedge Hill Science Park, Telford, Shropshire, TF3 3AJ, UK
Tel: +44 1952 210 020
Fax: +44 1952 299 804
E-mail: tms.sales@torus-group.com
Web: www.torus-group.com
Torus Americas, Inc (USA)
150 Capital Drive, Suite 340-350, Golden, Colorado, 80401, USA
Tel: +1 303 384 0279
Fax: +1 303 279 7551
E-mail: tai.sales@torus-group.com

LIGHT TESTERS



ibea GmbH
Kleine Bahnstrasse 8, 22525 Hamburg, Germany
Tel: +49 40 689 887 0
Fax: +49 40 689 887 29
Email: sales@ibea.de
Web: www.ibea.de



STOLLE MACHINERY
Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

LINE REBUILD/INSTALLATION & MAINTENANCE



Roeslein & Associates Inc
9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com

LINERS FOR NON-ROUND ENDS



Industrias Peñalver SL
Pol. Industrial El Tapiado
C/ Albaricoque s/n
Molina de Segura
30500 Murcia, Spain
Tel: + 34 968 38 90 88
Fax: + 34 968 38 90 19
Email: info@penalver.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

LINING MACHINES



Sabatier SA
31, avenue de Rome
13127 Vitrolles
France
Tel: +33 4 42 46 94 00
Fax: +33 4 42 46 94 46
Web: www.soudronic.com
Email: sabatier@soudronic.com

LUBRICANTS



Quaker Houghton
Global HQ Address: 901 E. Hector Street
Conshohocken, PA 19428 USA
Global HQ Tel: +1 610 832 4000
Email: info@quakerhoughton.com
Web: quakerhoughton.com

LUG CAP MANUFACTURING LINES



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com

MAGNETIC DECORATOR CYLINDERS



Bunting-Newton
500 S Spencer Avenue
PO Box 468, Newton
KS 67114-0468, USA
Tel: +1 316 284 2020
Fax: +1 316 283 4975
Email: bmc@buntingmagnetics.com
Web: www.buntingmagnetics.com



T. D. Wright Inc
292 Walnut Street
St Paul, MN 55102, USA
Tel: +1 651 227 1302
Fax: +1 651 227 4465
Email: office@tdwinc.com
Web: www.tdwright.com

METAL DECORATING EQUIPMENT



Fuji Kikai Kogyo Co Ltd
2-7-1 Iida, Hachihonmatsu,
Higashihiroshima-shi
Hiroshima Pref 739-0146, Japan
Metal Decorating Machinery Div
Metal Decorating Sales Dept
Tel: +81 82 428 2455
Fax: +81 82 428 8912
Email: primex@fujikikai.co.jp
Web: www.fujikikai.co.jp



Hebenstreit Metal Decorating GmbH

Gottlieb-Daimler-Strasse 15/2
74385 Pleidelsheim, Germany
Tel: +49 7144 88980-0
Fax: +49 7144 88980-50
Email: info@hebenstreit-gmbh.de
Web: www.hebenstreit-gmbh.de



Miotto Este spa

Via Talamoni, 4
I-20861 Brugherio (MB), Italy
Tel: +39 0392 878 284
Fax: +39 0398 84 594
Email: info@miottoeste.it
Web: www.miottoeste.it



Suzhou SLAC Precision Equipment Co, Ltd

Asia and ROW
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111



Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn
Intercan Group Ltd EMEA
38 Burners Lane, Kiln Farm
Milton Keynes, MK11 3HB
United Kingdom
Tel: +44 1908 566015
Fax: +44 1908 560638
Web: www.intercan.co.uk
Email: sales@intercan.co.uk

METAL DECORATING EQUIPMENT (HOE PRINTING PRESS)



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

METAL DECORATING INKS & COATINGS



INX International Ink Co.
10820 Withers Cove Park Drive
Charlotte, NC 28278, USA
Tel: +1 704 372 2080
Fax: +1 704 372 2087
Email: inxmetal@inxintl.com
Web: www.inxinternational.com

Sun Chemical
Pol. Ind. El Campillo II, parcela 5
48500 Gallarta, SPAIN

Freiburgstrasse 584,
3172 Niederwangen, SWITZERLAND
Email: TBC
Web: www.sunchemical.com

NECKER TOOLING



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



WALLRAM USA INC
1819 S. Murray Blvd, Colorado Springs
CO 80916, USA
Tel: +1 719 355 2600
Fax: +1 719 596 3019
Web: www.wallram.com
Email: sales-usa@wallram.com

WALLRAM GmbH
Schuermannstrasse 40,
45136 Essen, Germany
Tel: +49 201 89636 0
Fax: +49 201 89636 30
Web: www.wallram.com
Email: sales-germany@wallram.com

WALLRAM CanTool-Europe Sp.oz.o
Ul. Półnanki 44, 30-740 Kraków, Poland
Tel: +48 12 285 38 28
Fax: +48 12 257 97 96
Web: www.wallram.com
Email: sales-poland@wallram.com

NECKING MACHINES



Belvac Production Machinery Inc
237 Graves Mill Road
Lynchburg, VA 24502-4203, USA
Tel: +1 434 239 0358
Fax: +1 434 239 1964
Email: info@belvac.com
Web: www.belvac.com



CarnaudMetalbox Engineering plc
Dockfield Road
Shipley, W Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



Cheng Shin Enterprise Co.,Ltd.
434-45 NO.58, Ln. 173, Gongye Rd.,
Longjing Dist., Taichung City, Taiwan
Tel: +8864-26302374 |
Fax: +8864-26302370
Web: www.can-necking.com.tw
E-mail: slin.chengshin@gmail.com



Germann + Frei AG
Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Klinghammer Group GmbH
Am Hafen 2
D-38112 Braunschweig, Germany
Tel: +49 531 30 00 60
Fax: +49 531 30 00 645
E-mail: info@klinghammer.com
Web: www.klinghammer.com



Suzhou SLAC Precision Equipment Co, Ltd

Asia and ROW
1028 Sunwu Road, Wuzhong District,
Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com



Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

OVEN ALIGNMENT



Environmental Services & Technologies Inc
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com



Autorema
Polígono industrial El Saladar, I
C/ José Guillén Martínez, esq. C/ Río
Quipar, CP 30564 – Lorquí, Murcia,
Spain
Tel: +34 968 687 523
Fax: +34 968 687 565
Web: www.autorema.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

POWDER SEAM COATING SYSTEMS



Frei AG
Hofenstrasse 18
CH-9300 Wittenbach
Switzerland
Tel: +41 71 292 3434
Fax: +41 71 292 3400
Email: sales@frei-ag.com
Web: www.frei-ag.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

PROCESS MONITORING SYSTEMS



Acumence, Inc
A Flexware Innovation Company
12 Municipal Drive, Fishers
IN 46038, USA
Tel: +1 317 813 5403
Email: sales@acumence.com
Web: www.acumence.com

PRODUCTION ASSISTANCE & MAINTENANCE



Acumence, Inc
A Flexware Innovation Company
12 Municipal Drive, Fishers IN 46038,
USA
Tel: +1 317 813 5403
Email: sales@acumence.com
Web: www.acumence.com

OVEN CLEANING



Mega Services
21 Organ Street, Leigh, Lancashire,
WN7 4DS
Tel: 07583985172
Email: sales@megaservices.co.uk
Web: www.megaservices.co.uk

OVEN/BURNER SERVICE ENGINEERS



Headquarters:
Greenbank Technology
Unit 1, Greenbank Technology Park,
Challenge Way, Blackburn BB1 5QB, UK
Tel: +44 1254 690555
Fax: +44 1254 690666
E-mail: sales@greenbanktechnology.co.uk
Web: www.greenbanktechnology.co.uk
USA Office:
Tel: +1 262 642 3535
Fax: +1 262 374 0590
E-mail: tomz@greenbanktechnology.co.uk

OVEN SERVICES & BALANCE



Environmental Services & Technologies Inc
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

OXIDIZER PARTS & SERVICES



Environmental Services & Technologies Inc
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

PAIL MAKING MACHINES & COMPLETE LINES



Sabatier SA
31, avenue de Rome
13127 Vitrolles, France
Tel: +33 4 42 46 94 00
Fax: +33 4 42 46 94 46
Web: www.soudronic.com
Email: sabatier@soudronic.com

PALLETIZERS/DEPALLETIZERS & PALLET CONVEYING



Arrowhead Systems, Inc – Busse/SJI Corp
124 N Columbus Street, Randolph
WI 53956, USA
Tel: +1 920 326 3131
Fax: +1 866 580 3212
Email: inquiry@arrowheadsystems.com
Web: www.arrowheadsystems.com

PARTING MACHINES



Germann + Frei AG
Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Klinghammer Group GmbH
Am Hafen 2
D-38112 Braunschweig, Germany
Tel: +49 531 30 00 60
Fax: +49 531 30 00 645
E-mail: info@klinghammer.com
Web: www.klinghammer.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

PEELABLE MEMBRANE ENDS MACHINERY



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com

**RAW MATERIALS FOR
CAN MAKING**



Jiangsu GuoLian New Material Co., Ltd.
Luoyang Industrial Zone, Wujin District, Changzhou, Jiangsu, P.R. China.
Tel: +86 519 8852 1850
Fax: +86 519 8879 0908
Email: info@guolian-steel.com
Web: www.guolian-steel.com

RDR CANMAKING SYSTEMS



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

REFURBISHED EQUIPMENT



Amador Varas SA
c/Montalegre 32
08915 Badalona, Barcelona, Spain
Tel: +34 933 952 954
Fax: +34 933 954 904
Email: varas@amador-varas.com
Web: www.amador-varas.com

SCROLL DIES



Hengli CNC Technology Co, Ltd
265 Yixian Road, Wukang Town Deqing County, Zhejiang Province 313200, China
Tel: +86 572 8832016
+86 572 8832000
Fax: +86 572 8832222
Email: sales@zjhlcnc.com
Web: www.zjhlcnc.com

SEALING COMPOUNDS



ACTEGA Artistica
Headquarters:
P.E. A Granxa, Rua F, 36475 Porrino, Spain.
Tel: +34 986 231606
Fax: +34 986 210774
North America:
1050 Taylors Lane
Cinnaminson NJ, USA
Tel: +1 856 735 2403
Fax: +1 856 829 6940
E-mail: info.ACTEGA.artistica@altana.com

SEAMING CHUCKS & ROLLS



CarnaudMetalbox Engineering plc
Dockfield Road
ShIPLEY, West Yorkshire BD17 7AY, UK
Tel: +44 1274 846 200
Email: sales@cmbe.com
Web: www.cmbe.com



IMETA srl
Strada Burla 279A
43122 Parma, Italy
Tel: +39 0521 1688811
Fax: +39 0521 1688819
Email: info@imeta.it
Web: www.imetasrl.com



Montajes Conserveros de Galicia (MCG)
Pl. A Granxa C/Ons Parcela 107-108
36475 O Porriño (Pontevedra), Spain
Tel: +34 986 48 83 47
Fax: +34 986 48 71 35
Email: mcg@mcg.com.es
Web: www.mcg.com.es

SEAMING MACHINES



Germann + Frei AG
Martinsbruggstrasse 92
CH-9016 St. Gallen, Switzerland
Tel: +41 71 282 16 40
Fax: +41 71 282 16 50
Email: info@germannfrei.ch
Web: www.germannfrei.ch



Klinghammer Group GmbH
Am Hafen 2
D-38112 Braunschweig, Germany
Tel: +49 531 30 00 60
Fax: +49 531 30 00 645
E-mail: info@klinghammer.com
Web: www.klinghammer.com



Montajes Conserveros de Galicia (MCG)
Pl. A Granxa C/Ons Parcela 107-108
36475 O Porriño (Pontevedra), Spain
Tel: +34 986 48 83 47

Fax: +34 986 48 71 35
Email: mcg@mcg.com.es
Web: www.mcg.com.es



Sommetrade SL
Parque Tecnológico de Zamudio - Edificio 301
48170 Zamudio (Vizcaya), Spain
Tel: +34 94 431 8611
Fax: +34 94 431 8200
Email: j.vivanco@sommetrade.com
Web: www.sommetrade.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

SENSOR TECHNOLOGY



Prime Controls, Inc.
World Headquarters:
4528 Gateway Circle
Dayton, OH 45440-1712, USA
Tel: +1 937 435 8659
Fax: +1 937 435 2091
Email: vip@primecontrols.com
Web: www.primecontrols.com

SHEET FEED PRESSES



Rainer Naroska Engineering GmbH
Im Hengstfeld 19
32657 Lemgo, Germany
Tel: +49 5261 6606 0
Fax: +49 5261 6606 30
Email: sales@naroska.com
Web: www.naroska.com



Shin-I Machinery Works Co Ltd
No 43 Chung Cheng St
Chingshui, Taichung, Taiwan ROC
Tel: +886 4 2623 8181
Fax: +886 4 2623 2129
Email: contact@shinican.com.tw
Web: www.shinican.com



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

SHEETING LINES



Hengli CNC Technology Co, Ltd
265 Yixian Road, Wukang Town Deqing County, Zhejiang Province 313200, China
Tel: +86 572 8832016
+86 572 8832000
Fax: +86 572 8832222
Email: sales@zjhlcnc.com
Web: www.zjhlcnc.com

SHELL DIES



Suzhou SLAC Precision Equipment Co, Ltd
Asia and ROW
1028 Sunwu Road, Wuzhong District, Suzhou, Jiangsu, China
Tel: +86 512 6693 0111
Fax: +86 512 6624 8543
Web: www.slac.com.cn
E-mail: slac@slac.com.cn

SHELL SYSTEMS



STOLLE MACHINERY

Stolle Machinery Company, LLC

6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com

SLITTER EQUIPMENT



Can Man Aktiengesellschaft

Mülisacker 221
CH-5705 Hallwil, Switzerland
Tel: +41 62 777 4440
Fax: +41 62 777 4441
Email: sales@canman.ch
Web: www.canman.ch

SLITTER EQUIPMENT



Hengli CNC Technology Co, Ltd

265 Yixian Road, Wukang Town
Deqing County, Zhejiang Province
313200, China
Tel: +86 572 8832016
+86 572 8832000
Fax: +86 572 8832222
Email: sales@zjhlcnc.com
Web: www.zjhlcnc.com



Ocsam Cepak Srl

Via Luciano Lama 6
42049 Calerno (RE), Italy
Tel: +39 0522 474 007
Web: www.soudronic.com
Email: ocsam@soudronic.com

SLITTERS



Ocsam Cepak Srl

Via Luciano Lama 6
42049 Calerno (RE), Italy
Tel: +39 0522 474 007
Web: www.soudronic.com
Email: ocsam@soudronic.com

THERMAL OXIDIZERS



Inghor, S.A (Ingeniería y Hornos, S.A)

Edificio Albia, C/ San Vicente 8,
Planta 9
48001 Bilbao, Spain
Tel: +34 944 411 012 / 313
Fax: +34 944 411 066
Email: inghor@inghor.es
Web: www.inghor.es

TRAINING & CERTIFICATION
OVENS & OXIDIZERS



Environmental Services & Technologies Inc. Midwest Office

4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561

West Coast Office

1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com

TURNKEY CAN MAKING LINES



ENGINEERS • FABRICATORS • CONSTRUCTORS

Roeslein & Associates Inc

9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com



Shantou Xinqing Cannery Machinery Co Ltd

No.2 B7 Section, Jinyuan Industrial Area,
Shantou, 515064 China
Tel: +86 754 82122088 / 88208923
Fax: +86 754 82124088
Email: xq@canning-machinery.cn
Web: www.canning-machinery.cn

Soudronic

TECHNOLOGY THAT KEEPS YOU AHEAD

Soudronic AG

Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

USED/REFURBISHED
EQUIPMENT



Lacueva Can Making Machinery SL.

Pol.industrial El Roturo
Parcela 1, 26511 El Villar De Arnedo
La Rioja, Spain
Tel: +34 941 130918
Fax: +34 941 135113
Email: lacueva@maquinarialacueva.com
Web: www.maquinarialacueva.com

USED EQUIPMENT/MACHINERY



Dutch Cans

keplerstraat 5
1704SJ Heerhugowaard
Tel: 0031652888568
Email: info@dutchcans.com
Web: www.dutchcans.com

USED/REFURBISHED METAL
DECORATING EQUIPMENT



Hebenstreit Metal Decorating GmbH

Gottlieb-Daimler-Strasse 15/2
74385 Pleidelsheim, Germany
Tel: +49 7144 88980-0
Fax: +49 7144 88980-50
Email: info@hebenstreit-gmbh.de
Web: www.hebenstreit-gmbh.de



Miotto Este spa

Via Talamoni 4
I-20861 Brugherio (MB), Italy
Tel: +39 0392 878 284
Fax: +39 0398 84 594
Email: info@miottoeste.it
Web: www.miottoeste.it



Perm Machine & Tool Co

PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

UV CURING EQUIPMENT



Heraeus Noblelight America, LLC

910 Clopper Road
Gaithersburg, MD 20878
Tel: 301-527-2660
Email: info.hna@heraeus.com
Web: www.heraeus-noblelight.com



IST METZ GmbH

Lauterstrasse 14-18
D-72622 Nuertingen, Germany
Tel: +49 7022 6002 0
Fax: +49 7022 6002 76
Email: info@ist-uv.com
Web: www.ist-uv.com



ENGINEERS • FABRICATORS • CONSTRUCTORS

Roeslein & Associates Inc

9200 Watson Road, Suite 200
St Louis, MO 63126-1528, USA
Tel: +1 314 729 0055
Fax: +1 314 729 0070
Email: sales@roeslein.com
Web: www.roeslein.com

VACUUM PUMPS &
VACUUM SYSTEMS



Pneumofore SpA

Via N. Bruno 34
10098 Rivoli, Italy
Tel: +39 011 950 40 30
Fax: +39 011 950 40 40
Email: info@pneumofore.com
Web: www.pneumofore.com

WAGNER COATER PARTS



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

WASHER CHEMICALS



Quaker Houghton
Global HQ Address
901 E. Hector Street
Conshohocken, PA 19428 USA
Global HQ Tel: +1 610 832 4000
Email: info@quakerhoughton.com
Web: quakerhoughton.com

WASHERS FOR CANS



IMF Engineering Srl
Via Giuseppe di Vittorio 9
20016 Pero (Mi), Italy
Tel. +39 02 33910880
Fax: +39 02 33910677
Email: info@imfeng.eu
Web: www.imfeng.eu



STOLLE MACHINERY

Stolle Machinery Company, LLC
6949 S. Potomac Street
Centennial, CO 80112, USA
Tel: +1 303 708 9044
Fax: +1 303 708 9045
Email: sales@stollemachinery.com
Web: www.stollemachinery.com



VMI Holland BV
Gelriaweg 16, 8161 RK Epe,
The Netherlands
Tel: +31 578 679 111
Fax: +31 578 621 317
Email: sales@vmi-group.com
Web: www.vmi-group.com

WASTE WATERTREATMENT & ZERO LIQUID DISCHARGE



CIE Srl Compagnia Italiana Eco-logia
Via l° Maggio, 20-22
20070 San Zenone al Lambro (MI), Italy
Tel: +39 02 9810470
Fax: +39 02 98175079
Email: info@cieeng.com
Web: www.cieeng.com

WASTE WATER TREATMENT CHEMICAL SPECIALTIES



MST Chemicals
Via 1° Maggio, 31, 20070 San Zenone al Lambro (MI) Italy
Tel: +39 02 98264351
Web: www.mstchemicals.com
E-mail: info@mstchemicals.com
sales@mstchemicals.com

WATERTREATMENT



AllWater Technologies Ltd
Unit S2 Mendip Business Park
Rooksbridge
Somerset, BS26 2UG, UK
Tel : +44 1934 751333
E-mai: enquiries@allwatertech.co.uk
Web: www.allwatertreatment.co.uk

WEB INKJET COATERS



Epic Products International
902 KCK Way, Cedar Hill,
TX 75104, USA
Tel: +1 817 640 3037 or 469 575 0074
Email: sales@epicproducts.com
Web: epicproducts.com

WELDING MACHINES



Soudronic AG
Industriestrasse 35
8962 Bergdietikon, Switzerland
Tel: +41 44 743 66 66
Fax: +41 44 743 66 99
Web: www.soudronic.com
Email: info@soudronic.com

WELDING MACHINES FOR DRUMS & PAILS



Can Man AG
Mülisacker 221
CH-5705 Hallwil, Switzerland
Tel: +41 62 777 4440
Fax: +41 62 777 4441
Email: sales@canman.ch
Web: www.canman.ch

WICKET & CHAINS FOR SHEET FED OVENS



Environmental Services & Technologies Inc
Midwest Office
4941 41st Street Court
Moline, IL 61265, USA
Tel: +1 309 762 9551
Fax: +1 309 762 9561
West Coast Office
1155 South Milliken Avenue
Ontario, CA 91761, USA
Tel: +1 909 295 6255
Fax: +1 909 295 5531
Email: info@envsrv.com
Web: www.envsrv.com



Perm Machine & Tool Co
PO Box 660, 9660 Industrial Drive
St John, Indiana 46373, USA
Tel: +1 219 365 5000
Fax: +1 219 365 4847
Email: perm@permmachine.com
Skype: perm_machine
Web: www.permmachine.com

**Have your entry in
all 11 issues and
online for one year**

To advertise, contact

Flora McRitchie

Tel: +44 1474 532202

Email: flora@bellpublishing.com



Dust Bowl: when canned meat provided relief

By Roberto Baroni

Cooperative canning plant at Lake Dick Resettlement Project, near Altheimer, Arkansas, June 1936. Image: Carl Mydan

The term ‘Dust Bowl’ refers to a series of dust storms that hit central United States during the 1930s. To increase productivity, the soil of the Great Plains was subjected to deep plowing, which destroyed the grass that preserved its hydration.

During the drought, the soil dried into dust, which was blown eastward in great black clouds that reached as far as Chicago. This ecological disaster caused an exodus from Texas, Kansas and Oklahoma, and over half a million Americans were left homeless.

To support the population, in 1933, under the presidency of Roosevelt, a programme called the ‘Federal Emergency Relief Administration (FERA)’ was established. Instead of handing out mere cash aid, paid jobs were offered to those in need. Over 20 million Americans were employed in community work such as maintenance of public facilities, production of clothing, food, etc.

The drought also exhausted the herds of cattle: through the FERA relief workers, the animals that were unable to survive were slaughtered at Bryan Texas plant. Then, the meat was ground, cooked and canned by means of a semi-automatic can seamer.

We have no information about who the can supplier was, but both the American Can Company and Continental Can Company had plants nearby.

From a video illustrating the meat canning process here, dated 1934, the can size seems to be the standard D.307x409 (dia. 84mm x H 116mm) or Nr. 2, as it was called at the time.

After the necessary quality controls, both olfactory and with a vacuum gauge, the cans were kept for ten days in the warehouse to check their tightness.

Finally, the canned meat was then distributed through the Relief Centers to the needy population as a subsidy in those difficult years.

To view a video of the meat canning during the Dust Bowl, visit *CanTech International’s* LinkedIn page. [CT](#)



CanTech

INTERNATIONAL

Whether it's print, online or newsletter,
CanTech International has the
advertising solution for your needs.

With our easy to access online content, we **guarantee maximum exposure** and the industry's best multi-platform package.



- Back Issue archive
- Weekly newsletter
- The Buyer's Guide
- Forthcoming issues
- Advance preview of features
- Industry hyperlinks
- Advertising information
- Online subscription forms

CanTech International subscription rates Prices reduced from January 2022

Postal & Digital Issue One Year:

UK £175 GBP EUROPE £186 GBP REST OF WORLD \$275 USD

Postal & Digital Issue Two Years:

UK £302 GBP EUROPE £320 GBP REST OF WORLD \$473 USD

DIGITAL issue only (1 year) £166 GBP \$270 USD

Subscribe online **NOW** at www.cantechonline.com/subscribe

Visit: www.bellpublishing.com for our other titles



CONFECTIONERY
PRODUCTION
Chocolate, Meringe, Pastry & Bakery

TEA & COFFEE

DAIRY
INDUSTRIES

Bell Publishing Ltd, The Maltings, 57 Bath Street, Gravesend, Kent DA11 0DF, UK. Tel: +44 1474 532202

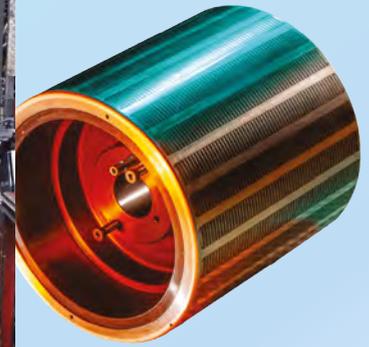
While Some May Rest, We Invest

Even When Demand Eases, We Push Forward



Investments in Expanding our Capacities -

This is our new Okuma MCV-All Vertical Machining Center, recently installed as part of a \$35M expansion at our Canton, Ohio facility, increasing our square footage by 38%. By expanding our facilities globally, we're better able to meet production demands.



Investments in New Technology -

Stolle continues to add R&D engineers to develop new technology and improvements - like our recent partnership with Sandon Global to bring "quick change" cylinders and rolls to our Concord and Rutherford decorators.

Investments in Vertical Integration -

Having high-quality precision parts for assembly and spares is a critical component of Stolle's commitments. By investing in expansions like we did at our Dayton Machining Center (\$7M for a 100% increase in capacity), we can assure a reliable stream of these critical components.



STOLLE MACHINERY

www.stollemachinery.com

SUSTAINABLE PRODUCTION SOLUTIONS FOR THE GLOBAL CAN INDUSTRY