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INTERNATIONAL

SEPTEMBER 2012

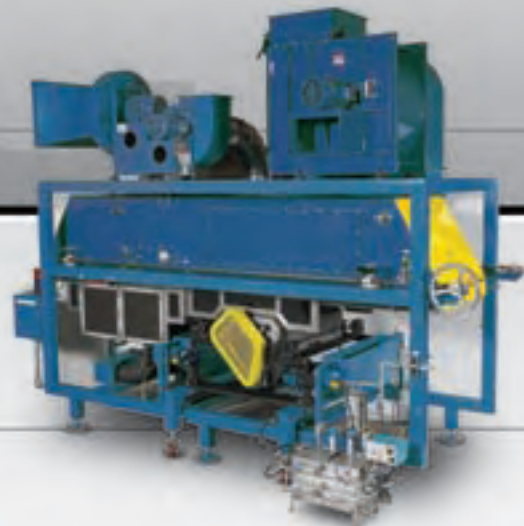
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Getting interactive

As *CanTech International* enters its 20th year I wanted to bring to your attention some of the exciting things that we have been working on.

Regular visitors to the website www.cantechonline.com will have noticed that we now have a video section. Videos that show how a beverage can is produced are now available to watch online. I know that some people in the industry might be wondering why we have introduced this type of content – after all it is what you do every day. However, I think it is important to remember that the idea of these videos is to help people who are new to the industry to learn about can making. We've already registered more than 2,100 video views – a healthy figure that indicates sharing the content with a wider audience has been worthwhile. Please visit www.cantechonline.com/video to watch the videos or subscribe to our YouTube channel CanTechTV.

CanTech Online is the only can making website giving you the full story. We don't require a login to read news stories and other content like features and blogs.

Away from the world wide web this issue of *CanTech International* features a new regular update on the filling market. Filling Focus will include features, news and

information from the filling industry. The canned wine market is featured in this issue along with a small news round up and an update from the growing craft beer market. To discover more about the filling market just look for the tinted pages.

To top it all off the Supplier Profile forms a large part of this issue. It provides readers with a chance to see the offerings from industry suppliers big and small. Starting on page 31 it is designed to act as a valuable reference tool throughout the year.

I look forward to seeing many of you at Asia CanTech in Bangkok next month. It promises to be an exciting event.



**Alec Peachey, Editor,
CanTech International**



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CanTech turns 20

Dear Readers,
Well it's hard to believe it but CanTech International is 20 years old!

For those who don't know the history, the magazine was first published by Trend Publishing in Chicago. The editor was Fred Church and the magazine was published six times a year.

The magazine fell upon bad times and was rumoured to be closing down. To cut a long story short, I set up Bell Publishing Ltd, got a car loan, bought the magazine and had it shipped to Kent in the UK. CanTech was relaunched at Metpak 1999 – a proud moment in my life.

CanTech International has gone from strength to strength, now coming out 10 times a year with a readership of 14,000. We've had some very talented people working on the magazine – I'm sure many of you will remember former editors Kevin Dodman,

Lynda Hewitt, Dan Foley and Suzanne Christiansen. And we're embracing the digital age, with a new website that includes audio and video, e-newsletters and an interactive digital edition.

At the moment we have a great team working on CanTech: Alec Peachey as editor, Victoria Brockwell as sales manager and Sarah as editorial director.

I would like to thank them and you our readers, for your input. I hope you feel as I do that we have contributed to this great industry just a little and we hope to serve you for the next 20 years and more.

**Neil McRitchie
Publisher**



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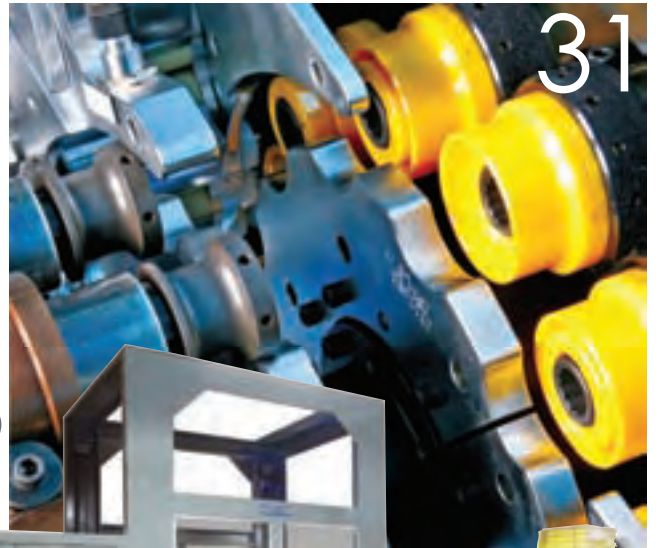
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The origin of success

News and views from the metal packaging industry

Ball to shut down two can plants

Can maker Ball will cease production at two of its North American beverage can making plants at the end of this year.

The company is consolidating its 12oz beverage can and end production capacity to meet changing market demand.

Ball's metal beverage packaging plants in Columbus, Ohio, and Gainesville, Florida, will stop production by the end of the fourth quarter of 2012, subject to customer requirements. The Columbus plant employs approximately 110 people and currently operates two of four existing lines that produce standard 12oz cans. The Gainesville plant employs approximately 125 people and produces several different beverage can ends for standard can sizes.

Ball expects to record a total

after-tax charge of approximately \$30 million, primarily for employee severance and benefits, facility shut down costs and other actions.

"These actions are in response to a loss of standard 12oz beverage can volume beginning 1 January, 2013, as well as continued growth in speciality beverage can packaging, which is an increasingly important part of our business," says Raymond Seabrook, executive vice president and chief operating officer, global packaging.

"We will continue to actively manage our overall cost structure, pursue new speciality can opportunities and better position our manufacturing footprint to meet changing market conditions to offset the impact of the volume loss."

New bottle cap contains 19% less steel

Beer brewer Grolsch will start using a new lightweight bottle cap on all of its bottles from October this year.

The new bottle caps are 17% lighter and contain 19% less steel. In this way, Grolsch will save more than 100,000 kg of steel per year. The switch will also cut transport costs within the supply chain and reduce Grolsch's environmental impact.

Grolsch has published its results in the field of sustainability and social responsibility over the past year.

The company says it wants to project the premium quality of its beer while minimising its impact on the environment. For this reason, Grolsch is making efforts to design

sustainable, lightweight packaging, to reuse bottles and to encourage recycling. Grolsch piloted these bottle caps for SABMiller and will be one of the first SABMiller breweries to switch to the lightweight bottle caps.



Extended facility for Guala

Guala Closures, a leading manufacturer of aluminium closures, has added a new production unit to its existing plant in Magneta, Italy.

The group, which recorded a turnover of €418 million in 2011 and operates globally in 16 countries through 25 production plants, decided to centralise the processing of the aluminium used by all the company's plants worldwide that produce closures for wine, spirits, oil and vinegar.

The overall investment for the Magenta plant, which employs 64 people, was €18 million. After a start-up phase of a few months, Guala Closures Group expects to hire additional workers when the plant is fully operational and production capacity can be increased.

When fully operational, the new Magenta plant will transform up to

25,000 tonnes of aluminium sheet for the estimated production of around 7.5 billion beverage closures per year (the group produces 12 billion closures in total per year) and one billion other closures that have metal components.

In addition to the aluminium processing plant, the facility in Magenta will also be used for the decoration of metal sheets and boasts a machine for lithography that uses a technology for drying through UV rays, and can decorate in up to six colours simultaneously.

The company also presented its first sustainability report for 2011, which provides information based on 12 strategic indicators relating to the environment, health and safety and production efficiency as well as describing the group's medium-term objectives.

Mountain Dew cans feature thermochromic ink

New 16oz cans of Mountain Dew feature a colour changing ink that has been supplied by US based Chromatic Technologies (CTI).

To help capture consumers' attention, the can features colour-changing artwork in the form of a bat that changes from grey to green when the can has chilled to its ideal drinking temperature of 46.4°F (8°C). The cans are promoting the feature film *The Dark Knight Rises*. They transform to the distinctive green colour of Mountain Dew when cooled.

Chromatic Technologies, a specialised inks company, provided the technology to make this possible.

"Mountain Dew was able to use CTI's thermochromic ink to create an interactive experience with their limited-edition can promotion," explains Melanie Edwards, CTI's manager of strategic sales initiatives.



The cans of Mountain Dew, a product of PepsiCo Americas Beverages, will be available for several months in the US. CTI's thermochromic inks are temperature-activated and can be used in a variety of ways to enhance package designs such as hiding a message or signalling cold temperatures.

Stolle starts major expansion of Centennial plant

Can making machinery supplier Stolle Machinery Company has started work on a major expansion at its manufacturing facility in Centennial, Colorado, US.

The new addition will add 42,000 square feet of warehouse space to the plant. The expansion is expected to be completed in mid-November of this year. Stolle is currently renting a nearby 20,000 square foot warehouse for parts and materials, and the new addition will allow manufacturing operations to draw directly from the Centennial facility, streamlining production flow. It will also allow existing plant space that is currently used for warehousing to be repurposed for additional manufacturing floorspace.

"The increased warehouse

space we're gaining with this new addition will not only allow us to work more efficiently, but it will provide more assembly space to keep up with the increased demand for our machines," says Len Ver Hoven, Stolle senior vice president of operations for the Centennial facility. "It will also allow us to maintain a larger inventory of spare parts to better support our customers' equipment around the world."

Stolle's Centennial facility is home to the company's corporate headquarters and its manufacturing facility, as well as engineering for the machinery produced there. The can machinery produced in Centennial includes Ragsdale and Standun bodymakers, Concord and Rutherford decorators and basecoaters, inside spray



Stolle Centennial facility managers Len Ver Hoven (senior vice president of operations) and Kevin Anderson (assembly manager)

machines, can body light testers, registered embossers, and PRC filling machines.

Stolle also rebuilds and

refurbishes bodymaker and decorator machines as well as a large number of decorator inker units at this plant.

Arcadia puts another beer in cans

US brewer Arcadia Ales has launched its Sky High Rye pale ale in 12oz cans from Rexam.

Continuing the move of craft beer to aluminium cans, this is the second beer that the Michigan-based company has packaged in cans. Last year, the company launched its seasonal Whitsun Ale in the same size cans. Sky High Rye is brewed with 80% English barley malt and 20% rye malt.

"Sky High Rye has been an excellent complement to our stable of beers," says Tim Surprise, owner, Arcadia Brewing. "The label features really beautiful illustrations and

Rexam has successfully transferred that beauty onto their can. This beer in cans will provide our customers with a year-round rye pale ale that will not disappoint."

Arcadia Ales chose to launch Sky High Rye in aluminium cans because of their portability, accessibility and environmental benefits. Arcadia is currently building a new 25,000 square foot brewery which will increase its production capacity from 12,000 barrels per year to more than 30,000.



Baosteel and CPMC join forces

Chinese can maker Baosteel has signed an agreement with CPMC Holdings that will see both companies work on new product development for steel packaging.

Baosteel and CPMC have entered into a technical cooperation agreement and recently set up a joint laboratory for packaging steel.

At present CPMC is one of the leading integrated metal packaging companies in China. It has a plant in Hangzhou as well as other professional production bases. CPMC has 11 modern printing lines, coating production, 12 can production lines and three plastic production lines. The company is a strategy user for Baosteel tin products.

Since last year, under the lead of Baosteel's product and development department, both companies have been promoting product quality improvement of steel for packaging. Both Baosteel and CPMC have made progress on the joint development and application of milk cans and other products. Baosteel and CPMC will now consolidate and enhance their positions in the industry.

Sprecher Brewing starts using cans



Sprecher Brewing is the latest US craft brewer to start packaging its beer in cans.

The Wisconsin based brewery is now packaging two of its most popular varieties in metal cans supplied by Crown Beverage Packaging North America. Both Sprecher's Special Amber and Root Beer are being sold in 12oz beverage cans.

The move to metal packaging has allowed Sprecher to reach key customer targets and has resulted in a clear growth in sales since the initial launch.

Since Sprecher had no prior experience designing graphics for metal, Crown provided strategic advice both in terms of colour and imagery. The cans are being manufactured at Crown's LaCrosse, Wisconsin facility. This has provided Sprecher with the opportunity to support the local economy and reduce its environmental footprint by sourcing cans from nearby. The new package also celebrates the 25th anniversary of state tourism company Discover Wisconsin, as the Special Amber can features a design that includes its logo.

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Two new speakers join Asia CanTech lineup

Takao Nakai from Japanese can maker Toyo Seikan Kaisha and Craig Jones from Rexam have joined the impressive keynote speaker lineup for this year's Asia CanTech.

Nakai is executive officer and head of Toyo Seikan's international operations division.

Craig Jones (pictured), who has recently been appointed to head up the new Africa, Middle East and Asia division for Rexam's beverage can business, has also joined the distinguished panel of keynote speakers.

Nakai graduated from Keio

University Faculty of Law in March 1975 before joining Toyo Seikan in April of the same year.

He has spent his entire career at the company and has held a number of positions, including general manager of the material purchasing and environment division.

He has been executive officer, head of international operations division since June 2008.

Nakai will be the opening speaker at Asia CanTech, which is taking place from 29-31 October in Bangkok, Thailand.

Craig Jones joined Rexam in



2001, proving himself in a variety of finance roles including UK finance manager and finance director Russia. In 2010 he was appointed to run Rexam's operations in Russia as general director.

For further information contact event manager Katrine Kjoeller at katrine@asia-can.com.

Silgan uses Genius system to inspect cans

Silgan Holdings, a leading supplier of food cans in the US, has installed new machine vision systems from Applied Vision at its plant in Rochelle, Illinois.

The Genius systems utilise a total of 35 cameras and will replace an older inspection system.



With 82 operating facilities worldwide, Silgan is a leader in the food end production industry, and is continually improving the quality of its products. Applied Vision is a leading provider of machine vision inspection systems for the container manufacturing industry.

The company's Genius system automatically identifies packaging defects and rejects them from the production line.

Aric Arneson, plant superintendent at Silgan, said: "After thorough evaluation Applied Vision was selected as the supplier of vision inspection for improved quality."

Crown wins top Starpack award



Speciality Packaging was highly commended for its Fortnum & Mason coffee tins.

Ardagh's Coca-Cola Light (Diet Coke) Jean-Paul Gaultier aluminium bottle was also highly commended.



Crown Speciality Packaging picked up the top award in the beverages category at this year's Starpack Industry Awards.

The Starpack Industry Awards scheme is now in its 53rd year and is the UK's premier competition recognising innovation in packaging design and technology.

Crown won the Starpack award of excellence for its package for Octomore Comus whisky.

The Awards are organised by IOM Communications and endorsed by The Packaging Society, a division of the Institute of Materials, Minerals and Mining.

In the same category, Crown

New debossing technique from Ardagh

Ardagh Group has used a new debossing technique to improve the appearance of aerosol cans for two of its customers.

A fragrance collection from fashion designer and brand owner Carolina Herrera and Montana's Hardcore paint for graffiti art have both been given a new look.

Ardagh's plant in Reus, Spain, developed the new process which helps emphasise a brand's special qualities, secures its authenticity, or a combination of both.

Starting with a clean and straightforward looking tinplate aerosol can and an original design created by the Carolina



Herrera Design Team of Antonio Puig, the engineering team of Ardagh Reus developed a high quality debossed feature applied on the can body to achieve a distinctive look.

The debossing feature was designed and developed specifically for this project and required the modification of existing production lines.

Montana Colours, one of Europe's leading manufacturers of artistic paint sprays, wanted to refresh its graffiti art range Hardcore.

Having previously encountered problems with counterfeiting, the company wanted a new packaging format that would guarantee its authenticity to graffiti artists.


Ardagh's solution was an entirely new and attractive debossed can.


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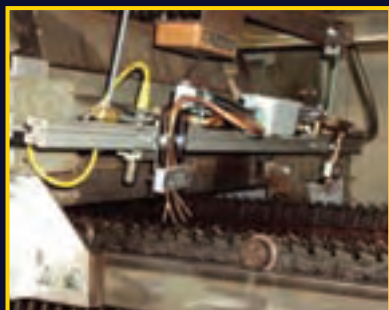
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Rexam creates new AMEA division

Rexam's operations in Asia, the Middle East and Africa will fall under the control of its newly created AMEA division.

The company's current plants



in Turkey, Egypt, India and China will also be under the control of the new division.

This new division will be separated from the current Beverage Can Europe and Asia with that division becoming Beverage Can Europe. The changes will take effect from 1 January 2013.

As part of these changes Rexam has announced the appointment of two directors to head the divisions. Craig Jones, currently Rexam's general director, Russia, will become sector director of Beverage Can AMEA. After 29 years with Rexam Tomas Sjölin, currently sector director Beverage

Can Europe and Asia, will retire in early 2013 and Iain Percival (pictured), currently Rexam's group enterprise risk director, will become sector director for Beverage Can Europe.

Commenting on the organisational changes, Graham Chipchase, chief executive of Rexam, said: "These changes have been announced as part of Rexam's strategy to be the best global consumer packaging company. Our new Beverage Can AMEA sector will allow us to focus resources and capture our share of growth opportunities in this region."

Innovative tubes recognised by ETMA

The European Tube Manufacturers Association (ETMA) has announced the winners of its Tube of the Year competition.

The association held its annual conference in Brussels recently and a jury chose the best tube in each of the four categories: aluminium tube, plastic tube, laminate tube

and prototype tube.

The winner in the aluminium tube category was Alltub Italia from Italy. The açai colour tube is produced by the company for Diffitalia and is used for hair colourant. Small, realistic looking water droplets that cover the whole tube as well as the closure produce a fresh wet look

that is tailor-made for this cosmetic product. The spectacular relief effect on the tube and closure is achieved using a special lacquer that adds even more to the product's attractiveness. This refinement does not adversely affect the subsequent filling process.

The winner in the plastic tube category was Tubex from Germany for its Be Sensual tube.

The Ever Pure tube from Essel Deutschland was the winner in the Laminate Tube category. EverPure shampoo and conditioner are marketed in Europe in an ABL tube, a laminate tube with an aluminium barrier layer.

The winner in the prototype tube category was Hoffmann Neopac from Switzerland for its Fleximed Easymix tube.



Ball's fire-hit plant fully operational again

Ball Packaging Europe's beverage can plant in Wrexham, UK, is fully operational again after it suffered a fire.

The fire, which took place in July, was detected at a coating machine. According to an external expert the source of ignition was probably an external power dip in the plant. There were no injuries to the workforce.

The company was initially able to restart production off two lines just a day after the fire happened. All four production lines are now up

and running.

In a statement the company said: "Ball Packaging Europe regards health and safety as a number one priority and takes all necessary measures to prevent hazards including fire. Ball routinely assesses all equipment in its plants for CE compliance, fire safety and operational safety. The company undertakes regular fire training with the workforce. These preventive measures have resulted in damage limitation to the Wrexham plant and ensured the continued safety

of all employees. Close cooperation of all functional teams at Ball Packaging Europe and the swift implementation of action plans have helped to significantly reduce any business interruption and to meet immediate supply requirements of customers."

Crews from North Wales Fire and Rescue Service were called to the plant and contained the fire.

The plant produces about two billion beverage cans per year, mainly for soft drinks and beer. It has a workforce of 210 employees.

NEWS IN BRIEF

Herwig Lutz has been appointed as sales director at **Hebenstreit Metal Decorating**. The German company provides metal decorating equipment including multi colour-metal decorators, double and triple stackers as well as feeders, electrical synchronised drive shafts for coating and printing lines.

Benoit Hirsowski has been appointed marketing director at beverage can manufacturer **Ball Packaging Europe**. Hirsowski is the former marketing and product management director for the South Europe division at Tetra Pak.

Rexam has launched a new online customer portal service that will give its European customers more control when placing orders.

The new service is targeted at Rexam's small to medium sized customers whose orders tend to be smaller in volume. The customers will now be able to see stock, place and track orders and request delivery times.

A recycling campaign that encourages householders to recycle their metal packaging has been launched in Scotland. **MetalMatters** has been launched with the support of the Scottish Government and funding from Zero Waste Scotland.

Joris Nachtergaele has been appointed as director of external affairs at **Metal Packaging Europe**. Metal Packaging Europe is a trade body that represents the united interests of producers and suppliers of rigid metal packaging across Europe.

US based **Uinta Brewing** has announced plans for expansion which include adding a canning line. It will be the first time that the craft brewer, which is based in Utah, has canned any of its beers.

Ardagh has designed a new metal can for the paint market. The metal packaging manufacturer has brought out its new 750ml RinGo can that it claims is 20% lighter than a standard pack. The 750ml can features a necked in top, as opposed to the straight wall design of a conventional can, reducing the lid diameter and, in turn, material usage.



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Alcoa takes full ownership of Evermore Recycling

Aluminium producer Alcoa has reached an agreement with Novelis that will see it take full control of America's leading used beverage can (UBC) recycling company.

Alcoa will take over the Evermore Recycling joint venture. Both Alcoa and Novelis were partners in the joint venture, which purchases more recycled cans than any other group, anywhere in the world.

As a result of the new agreement, Alcoa will make Evermore part of its Global Packaging group. Evermore Recycling will continue to be based in Nashville, Tennessee. Employees

of the joint venture are being given opportunities to join the respective companies.

Novelis, meanwhile, has announced plans to establish a new organisation for the procurement of used beverage cans (UBCs) in North America.

The company claims that it will make Novelis the largest UBC buyer in the region. Novelis will procure all UBCs for its recycling plants in Greensboro, Georgia; Berea, Kentucky, and Oswego, New York, directly through the new organisation. As the leading recycler of UBCs in North America and the world, Novelis currently buys the equivalent

of 40 billion cans a year, worth an estimated \$1 billion. Novelis expects its global consumption of UBCs to grow to more than 60 billion cans by 2015.

"This move is in line with our global strategy to enhance our scrap procurement and recycling assets to support our goal of achieving 80% recycled content in our products by 2020," says Derek Prichett, vice president, global recycling for Novelis.

Chris Anderson, currently supply chain manager for Evermore, will rejoin Novelis and lead the company's new UBC procurement organisation.

Can recycling rates rise again

The overall recycling rate for aluminium beverage cans in the European Union increased by 2.4% to 66.7% in 2010.

Results released by the European Aluminium Association (EAA) show that two out of three drinks cans are recycled in the EU 27. The EU 27 includes EFTA countries and Turkey.

The consumption of aluminium beverage cans increased by a further two billion units to a total of 36 billion cans in 2010. This means that at least 24 billion cans were recycled, resulting in a total greenhouse gas saving of 2.5 million tonnes – the equivalent of taking one million passenger cars off the roads for a whole year.

Back in the early 1990s, only 30% of all beverage cans were recycled. This figure rose to 52% in 2005, and the European Aluminium Association is confident that it should be able to recycle three out of four cans by 2015.

Some countries are close to or even above this result. Examples of countries with high recycling rates include Finland (95%), Germany (96%), Norway (93%), Switzerland (91%) and Denmark (89%).

Italian aperitif available in cans

An Italian aperitif drink has been launched in the UK in cans supplied by Rexam.

Sprizzerò, which is manufactured by De Martin, has enjoyed success in shops and bars across a number of European countries.

The 25cl slim cans, which are produced at Rexam's Enzesfeld plant in Austria, will initially be available in fine restaurants, bars and some of the UK's top clubs.

Paolo De Martin, grandson of Edoardo, the 1930s Italian socialite who invented Sprizzerò, explained the reason

behind launching the product in the UK. "Sprizzerò has been very popular across Europe, particularly in Germany and Italy, but we wanted more consumers to have the chance to enjoy the unique aperitif. The UK market is important to us, particularly as consumers there have delicate tastes and enjoy a long drink – and the UK bar culture is one of the best in the world. We feel our product, in Rexam's cans, will be enjoyed by UK consumers."



Harald Moser, sales director for Rexam Beverage Can, added: "It has been great working with Sprizzerò to make their drink a success across Europe and to see it move to the UK is fantastic. The cans are really unique and popular with consumers, and with an increased demand for on-the-go consumption which the beverage can suits perfectly, we have no doubt that Sprizzerò will be a great success in the UK."

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ORG expands to meet can demand

Joan Wei, president of Chinese can maker ORG Packaging, talks to David Hayes about the company's expansion plans

ORG Packaging, China's largest three-piece can maker, recently opened the group's first two-piece beverage can plant in Hangzhou in Zhejiang Province, East China.

The factory is the first of two two-piece can plants that ORG Packaging plans to open – the second is due to open in Zhaoqing in southern Guangdong Province in 2013.

"We started up our first two-piece can plant in Shangyu near Hangzhou in April. We chose the location as it is close to the East China beverage consuming area including Shanghai," Joan Wei, president and director of ORG Packaging told *CanTech International* in an interview at the group's Beijing headquarters.

"We make beer, soft drinks and herbal tea cans. We can cover Zhejiang, Shanghai; also, Fujian and Shandong provinces. Some customers are up to 800km away."

Customers supplied from the Hangzhou plant include Tsingtao Brewery which takes 330ml beer cans with ring pull ends and Snow Brewery, owned by China Resources, which takes 330ml and 500ml cans.

Working a three-shift day, ORG Packaging's two-piece plant is designed to produce seven billion cans annually based on a 300-day working year. "We will close for 20 days a year for maintenance, probably in November as customers close for maintenance then," says Wei. "We have installed a line designed to produce 2,400 cpm which we can increase to 3,200 cpm. After two months of operation we reached 80 per cent of our initial capacity. When we increase our capacity depends on the market."

Equipment installed includes an eight-colour printer from Stolle and a press from Minster and Stolle.

"We chose an eight-colour printer as it is the most advanced. As we are installing a new line we have bought the most advanced equipment," comments Wei. "Different customers have different requirements. Some clients need eight colours while Wong Lo Kat uses six and seven colour printed designs on its herbal tea cans."



Joan Wei is president of ORG Packaging

Employing over 200 workers, the plant includes a covered area totalling 112,000 square metres and is designed to accommodate two lines in future. "Buying a second line depends on the market. We have to wait over one year for a can line to arrive in China after ordering it," adds Wei. "So we have to order 14 months ahead because can line machinery makers' business is so good."

A second plant

The firm is planning to start up its second two-piece can plant in April 2013 in Zhaoqing near Guangzhou in Guangdong Province to supply Wong Lo Kat and other beverage fillers in the surrounding region.

Covering 120,000 square metres in area and like the Hangzhou plant designed to produce seven billion two-piece cans a year, the Zhaoqing plant is planned as a repeat of ORG Packaging's first plant.

Work to install the new line is scheduled to begin in January 2013. It will be equipped with the same equipment as the first two-piece plant. "We chose Zhaoqing in Guangdong for our second line as Coke, Pepsi, Snow Brewery and Wong Lo Kat have filling plants near there," Wei explains. "Also, Budweiser and Zhujiang Beer Southern China is a major area in China's canned beverage consuming market."

Similar can sizes will be produced in both plants – 250ml, 330ml and 500ml in 202 and 206 neck sizes.

The three-piece market

In addition to entering the two-piece can market, ORG Packaging is expanding its three-piece can production capacity anticipating strong future growth in China's steel beverage can market.

Although cans are still relatively expensive as packaging, China's rapid economic growth and rising wages means that more people are able to afford canned beverages than previously.

The company is installing eight new three-piece lines in 2012, Wei revealed, to match forecasted beverage sales growth by its major customers. Two new 650 cpm lines were installed in the company's Beijing plant at the start of the year followed by two 650 cpm lines in the Foshan plant in Guangdong in the second quarter this year.

ORG Packaging is also installing four new 1,000 cpm three-piece lines from Soudronic this year. Two of the lines will be installed in the Foshan plant and the two other lines in the company's Wuhan plant in Hubei, central China.

"Our main customer is Red Bull. It is the most expensive canned beverage in China," remarked Wei. "A can of Red Bull costs RMB 5.50 now. Previously people thought it was expensive but now even construction workers earning RMB 2,500 to RMB 3,000 per year consume Red Bull and not just water. Economic growth has pushed beverage and fast food consumption."

ORG Packaging supplied about two billion three-piece cans to Red Bull in 2011, mostly stubby cans. The company also supplies slim line cans which Red Bull uses to fill with a stronger version. "Red Bull use ring pull ends. They tried stay-on-tab (SOT) ends but they are not good for promotions because Red Bull do a hidden prize promotion hidden under the ring pull tab," Wei notes.

Follow the customer

Wong Lo Kat, the popular herbal tea brand, is another important customer, operating filling plants at about nine locations across China. "Wong Lo Kat have been trying to convert from three to two-piece cans for the past few years," Wei states. "We supply three-piece cans to them. From this year we will supply two-piece 330ml cans to them as well. We have to set up can making plants all over China to be competitive and cover the areas where our customers are located."

ORG Packaging's large investment programme is being implemented at a time when China's canned beverage market is expected to enter a major new growth phase.

Wei noted the company is planning a listing on Shenzhen

Stock Exchange to help fund the capital investment programme. The IPO launch date is expected this year though the exact timing will depend on stock market investor sentiment at the time.

ORG Packaging expects total can sales to grow by 32 to 36 per cent in 2012 following the start up of its Hangzhou two-piece plant and further growth in three-piece canned beverage consumption.

The company supplied 3.4 billion three-piece cans in 2011. Sales in 2012 are expected to increase from 4.4 billion to 4.6 billion cans including around 450 million two-piece cans. Strong growth is forecast to continue into 2013 as major customers expect to ship more canned beverages.

"We are forecasting about 30 per cent sales increase in 2013, including some food cans," Wei says. "In 2013 we expect 1.2 billion two-piece can sales while the rest will be three-piece cans. In 2013 we will install more three-piece can lines. We will expand our three-piece can market in the next three years. Red Bull will expand, so will consumption of rice congee porridge snacks in cans. We are planning to install other new lines in future."

Competition

Despite investing heavily in the two-piece market, ORG expects the market for both two and three-piece cans to continue to grow.

However, beverage cans do face competition from PET bottles in China where they are used to hold carbonated drinks, juices and water. "The market is not moving from three to two-piece cans," Wei comments. "We are the major three-piece can producer in China. We have had 60 per cent compound growth in the last three years, so we do not think that two-piece is replacing three-piece cans. Red Bull uses three-piece cans and Want-Want use three-piece cans for their milk drinks. They are our third largest customer."

Meanwhile, ORG Packaging recently opened the company's first overseas plant, a tomato paste can factory in Nigeria.

Trial production of three-piece stubby tomato paste cans started earlier this year in the Nigerian plant where a 600 cpm line has been installed making 70g cans with 0.15mm and 0.14mm thick finplate from Baosteel of Shanghai and Pacific Tinplate of Guangzhou. Imported 0.12mm finplate from Europe is being tested as well.

"Usually 0.19mm or 0.20mm finplate is used, so these thinner finplate tomato paste cans are cheaper and lighter. We started in our Beijing factory but we can use these thin finplates on all our high speed Soudronic production lines," Wei says. □



CMI launches campaign to support *canned food*

Leading US canned food manufacturers have united to drive research-based messaging aimed at brands, retailers and consumers

Canned foods are a highly valued and integral part of daily meal preparations by today's consumers. A recent consumer survey by the Can Manufacturers Institute (CMI) shows that 90 per cent of Americans depend on canned foods for healthy and nutritious meals. In fact, the premier product quality and superior shelf life associated with canned foods are on display in nearly every pantry across the nation.

CMI recently sponsored an in-depth research programme to investigate consumer behaviour, specifically with regard to canned product impressions. The research found strong, positive perceptions of canned food among existing canned food consumers. Brand owners also contributed additional insights regarding consumer purchasing behaviour and support for a messaging platform to increase consumer awareness of the benefits of canned food.

CMI food can manufacturing members, led by Silgan,

Crown and Ball, are now building a national marketing programme, based on the new research. The communications framework will reinforce the benefits of canned foods using the insights gained in the consumer research, employing a multi-level programme that engages food companies and retailers in helping consumers take advantage of the benefits of the nutritional value and ease of use provided by canned foods.

Consumer research is key

A comprehensive consumer study was the first critical step in shaping the CMI campaign. CMI initiated the research in early 2012 and focused on consumers' canned food attitudes and perceptions. See the results in the table on the left.

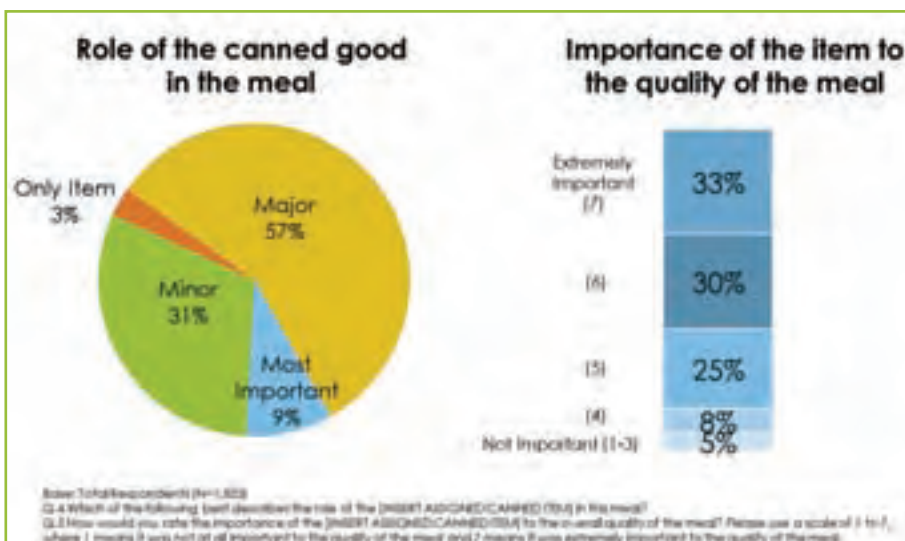
The data showed that the majority of consumers consider canned foods valuable and important for the meals they prepare and, in some cases, rate cans higher than other packages in terms of shelf stability and certain health attributes. Specifically, consumers felt cans perform better than other packaging types by sealing in healthy, natural and nutritious products.

Although some consumers believed in the reliability of can technology, others were unaware that cans lock in freshness and nutrition.

Overall, consumer perceptions about canned food were strong, while the research also revealed certain opportunities to educate canned food users. The messaging developed as a result of this research will focus on enhancing the image of the can and also address any misconceptions or barriers to consumption.

Integrated marketing campaign

The campaign team developed a complex umbrella marketing campaign via three integrated channels. The first, a strategic consumer media campaign, will directly

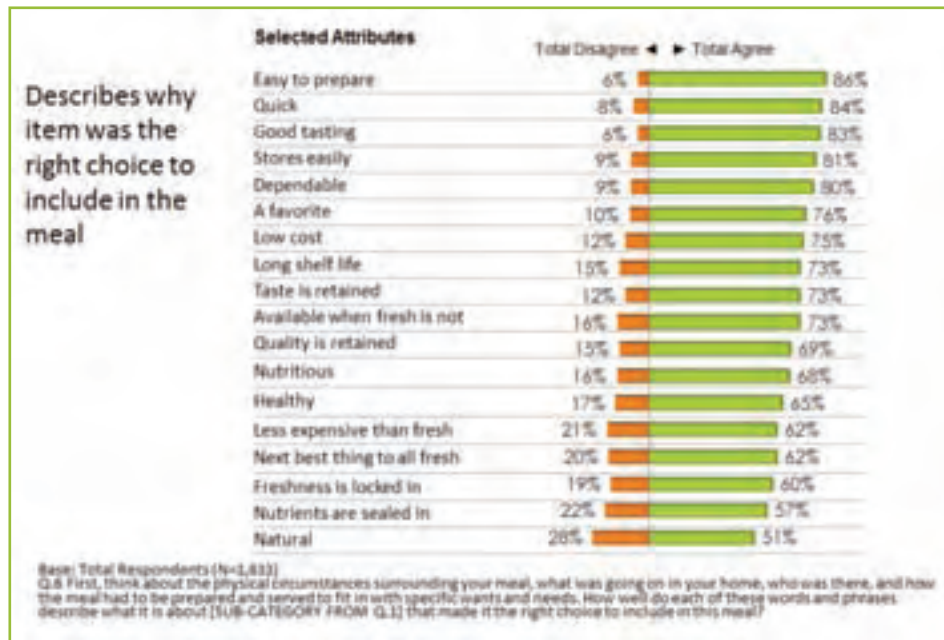
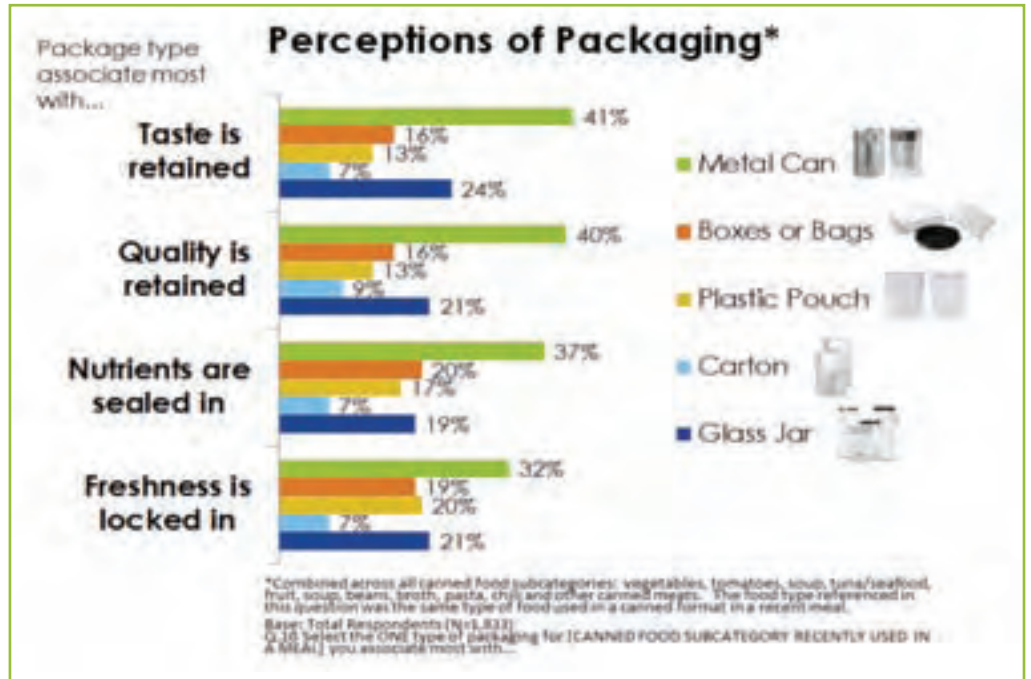


* CFA Omnibus Survey

inform current canned food consumers about the benefits of canned food products. The second is a national retail co-marketing programme that involves trade advertising, arming brand owners and retailers with the programme's key messages to share with consumers. The third component provides retailers and brand owners with the tools necessary to promote canned food benefits to consumers at the point of sale.

CMI president Robert Budway said: "The detailed research we've conducted over the past year underscores consumer loyalty to canned food products and a shared recognition about canned food benefits. While there are some gaps we aim to fill, there is also an opportunity to communicate strong, positive messages about canned foods with our customers, retailers and, of course, consumers." □

The table on the right shows consumers' perceptions of packaging while the one below details selected attributes of cans.



*Article contributed by Jim Peterson, vice president marketing and corporate affairs, Ball Corporation; Carolyn Takata, director of marketing, Silgan Containers; Michael Dunleavy, vice president of corporate affairs and public relations, Crown Holdings.

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A necessary tool

Imeta has a special focus on seaming tools



Can expert Evert van de Weg talks to two well-established companies about their can tooling activities

To produce even a simple can and to close it, tools are necessary. The complexity of the tools destined for cans has increased in parallel with demands for speed and changes in raw materials like steel, aluminium etc. Two specialist companies, Imeta, which is based in Parma, Italy, and Amador Varas in Badalona, Spain, provide an update about recent developments in this area.

Imeta is a specialist in tools for seaming. Roberto Baroni, sales manager, said: "Imeta was founded by GianPaolo Greci senior in 1964. Working as a sales manager for the company Superbox, now part of Crown, he found that in the 1960s many can makers had problems getting spare parts for their seamers. It was during this time that high-speed seamers from Angelus, FMC, Continental Can and other companies made their entrance into the market. However, importing the spare parts from the US was costly and the delivery delays were long."

This was reason enough for Mr Greci to start his own company and fill a gap in the market.

In a region with many can makers like Capolo (now Ardagh) and Superbox (now Crown), he had no trouble finding customers and his company quickly flourished. In 2004, his two children Monica and Guerrino Greci took over the company.

"Our company now has a turnover of approximately €9 million with 60 employees," adds Baroni. "To illustrate our international presence I can tell you that today we

make around 20 per cent of our turnover in Italy, around 30 per cent in the rest of Europe and the remaining part in the rest of the world. It means we have a vast network of agents representing us virtually everywhere in the world. We supply to all major can makers like Crown, Ardagh, Silgan, Ball, Mivisa, Nampak but also to many renowned can fillers like Nestlé, Masterfoods, Dole, Del Monte etc. Machine producers like Soudronic, Germann & Frei, Zacmi and others are also our customers. In total we have no less than 1,200 customers."

The Science of Seaming

Imeta specialises in what it calls the Science of Seaming. The company has carried out a lot of research and continues to do so in its seaming laboratory.

"We try to identify the best solution for every case and have a file of 1,800 different seaming profiles," explains Baroni. "We use advanced-technology materials like special high-corrosion resistant steel (eg for the seamers in the filling industry where the danger of corrosion is high). We also use powder-based sintered steel and special grades of steel for specific uses. We apply new surface coatings like Titanium Nitride, Titanium Carbide, Diamond Arm and Tungsten Carbides to reduce machine shutdowns and to improve the quality of the seaming operation. The stringent downgauging of cans has posed a number of challenges for us. It has meant looking for new seaming profiles, harder materials, new coatings that make tools last longer under critical conditions like higher temperatures etc. Everything becomes critical, there are hardly any margins left and things must be perfect."

Staying focused

Imeta has maintained its focus on seaming tools and supplies around 20,000 chucks and rolls per year. The company also supplies other products like complete dies for the production of open-top ends, beading sectors and noses, body-flanging punches, spin-flanging tools, curling

Imeta's manufacturing facilities



rings and sectors etc. In addition to this, it also supplies complete sets of change parts and spare parts for seamers, flanging-necking machines etc. "Our continuous strive for the best quality means a high level of investment," remarked Baroni.

Imeta has recently invested in new machinery like its high capacity Jones & Shipman Ultramat grinder and a new five axis milling machine DMG - DMF. "Much investment money also goes into new software for our technical department, such as the 3D Inventor 2013 and a new product data management database, as well as extensive training for our workforce," adds Baroni. "We try and visit all of our 1,200 customers at least once a year. All these visits mean a lot of expense for us, but we want to be on the floor of our customers. All these efforts have led to stunning growth of over 40 per cent in the last three years."

Amador Varas

In 1945 Amador Varas Peiró founded the company Amador Varas in Badalona, near Barcelona. The main market for the new company was as a supplier to the textile industry. Gradually the company got some orders for simple tools to deform finplate. When the textile industry in Spain took a heavy blow in the 1970s the founder decided to focus fully on making tools for the can making industry.

At first Amador Varas started as a tool supplier for local can makers but soon the company found customers in the rest of Spain and outside the country, building on the good reputation of the brand. The company is still a family firm with the third generation now managing it. Carlos Tamburrini Varas runs the technical department, Jaime Varas Duran is responsible for production and Sarah Tamburrini Varas is in charge of finance. "Spanish can makers now account for 30 per cent of our turnover, but the rest of our tools go to customers in and outside Europe," comments Carlos.

The company's commercial director Ignacio Benitez takes care of Amador's representation throughout the world with the help of different agents. "Our customers are sometimes producers of machines for the can making industry such as Soudronic, Alfons Haar, De Cepeda and others," adds Carlos. "However, our main customers are can makers in Europe, South America and North Africa."



A double die tool for aerosol ends



A twist-off tool

Regarding the type of tools, you see a big diversity. We supply tools for coil cutting lines, single and double dies for ends, conversion tooling for easy opening ends, tools for twist-off caps, peel-off ends, for general line cans like the aerosol or paint industry and in particular tools for DRD fish cans."



A secondary scroll tool

Fish cans

The fish can market remains an important one in Spain, according to Jaime Varas Duran. "Can makers like Crown, Mivisa, Ardagh and others make a lot of fish cans in Spain," he says. "We have supplied many tools in this area and have vast experience. We always say that we are not just tool makers, but also designers and the partners of our clients, developing their products. We feel the drive of our customers to use ever harder finplate in order to be able to downgauge cans further. Can makers cannot afford to lose valuable production time by a tool that does not perform well so the demands are higher."

Investments

The company continues to increase its technology level related to the production of parts made in Tungsten Carbide and is acquiring more experience in this field.

"The most recent investments have been focused on that purpose: grinding machines, welding machines, etc," notes Duran. "2008 and 2009 were not that good financially, 2010 was better and last year was one of our best ever. The first half of 2012 has been on that same high level. The Spanish economy is not in good shape at the moment but we are lucky to be involved in the food industry which is always a stable exception."

Carlos Varas agrees: "We have such a big workload that we need more capacity. Fortunately we are able to increase our premises by more than 25 per cent through the purchase of buildings from our former neighbour. We are finalising the construction of our expanded workshops in September. Together with the addition of some new engineers this will give us even more possibilities to serve our customers well," he concludes. □

Knight's knowledge

This month Jack Knight from INX International returns with a back to basics guide and provides a general description of the lithographic process and equipment

I want to start by providing a definition of lithography. Lithography is defined as a "printing process involving the use of aluminium printing plates whose surface is partly water repellent/ink receptive image area and partly ink repellent/water receptive non-image area." It is a process that uses the principle that ink and water do not mix. The printing plate is so constructed that ink is left on the image area of the printing plate and the water helps keep the ink from spreading on to the non-image area of the printing plate.

Lithographic equipment

Coater – a coating roller applies a uniform film of coating on to the tinplate sheets before printing. A coating line consists of a sheet feeder that delivers the sheets from a stack of metal to the coater, one sheet at a time. A coating roller, covered with urethane, transfers the coating on to the sheets. Special coatings are used on the inside of the sheet to either protect the metal from the contents filled into the aerosol or food can or to protect the contents from the metal. Depending on the design either a clear coat or a white coat is applied to the outside of the sheet as the printing surface, transparent inks over clear coat and opaque inks over white coat. The coatings are applied individually then conveyed through a thermal oven for 10 minutes which cures the coating at a prescribed temperature and after curing cools the sheets down. A conveyor carries the sheets away from the oven into an automatic stacker that piles the sheets on to a skid.

Printing press – a press line consists of a sheet feeder that delivers the sheets from a stack of metal to the printing press one sheet at a time. The sheets are then printed and followed by a coat of clear varnish that protects the inks from abrasion. The varnish also provides mobility through the can lines after the cans have been manufactured and reduces transit abrasion during shipment. After the sheets are varnished they are then conveyed through a thermal oven that cures the varnish at a prescribed temperature and after curing cools the sheets down. A conveyor carries the sheets away from the oven into an automatic stacker that piles the sheets on to a skid.

Lithographic printing press

Several different types of printing presses are used around the world. Some common types of metal decorating printing presses used are Hoe, Fuji, Harris, Mailander, Crabtree and Planeta. Though these presses have design and operating features that are somewhat different than the others all six function essentially the same way in terms of general lithographic principles.

An offset lithograph press has six main operating units. The following identifies them and briefly explains their function:



a. Feed table – the function of the feed table is to receive sheets of tinplate fed in by the feeder and then deliver them to the printing press properly positioned and in time with the press cylinder rotation to receive the inked image of the design being printed.

b. Dampening system – the dampening system functions to provide a controlled and continuous flow of fountain solution, a mixture of water and acid, to the printing plate. The fountain solution is attracted to the non-image area of the printing plate and repelled from the image area of the plate.

c. Ink distribution system – through a series of rollers covered with rubber, the ink distribution system functions to supply a continuous, uniform and consistent flow of ink to the printing plate.

d. Printing press cylinders – there are three cylinders on each printing press stand. Each cylinder performs its own separate and distinct function. The plate cylinder acts as a carrier of the printing plate. The blanket cylinder serves as a carrier that receives the inked image from the printing plate and transfers it to the sheets of tinplate. The impression cylinder functions as a pressure base or back up during the printing operation supporting the sheet of tinplate. The impression cylinder also houses the gripper assembly, which acts to control the position or registration of the sheets just prior to the blanket cylinder transferring the image to the sheet.

e. Discharge assembly – this unit takes the decorated sheet away from the blanket and impression cylinders and conveys it to the varnish coater and oven.

f. Drive mechanism – consists of an electric drive motor, drive shafts that provide the power needed to operate the five main operating units of the printing press.

Lithographic press configurations

Some lithographic printing presses are arranged to apply one colour of ink on a sheet during a "pass", this press is called a single colour press. Two colour printing presses apply two different colours during "one pass". This press is called either a two-colour press or a tandem press. There are also three, four, six and eight-colour printing presses.

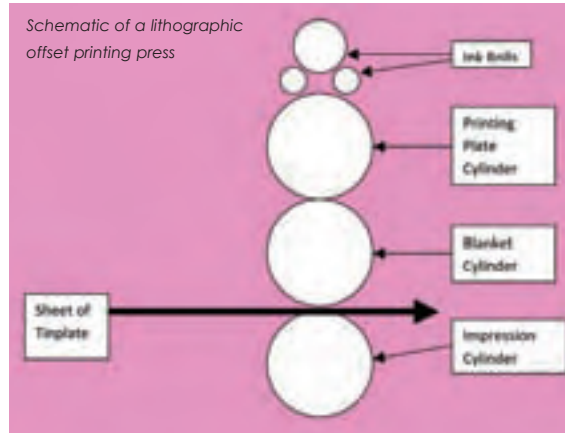
General explanation of the lithographic process

This explanation of the lithographic process is only meant to provide a general understanding of the offset printing process.

Printing ink of a specified colour is placed in the ink fountain located at the top of the press. The ink ductor roller transfers a controlled, metered amount of ink from the ink fountain roll and transfers it to the first of a series of ink distribution rollers. The distribution rollers transfer the ink from one roll to the next milling out the ink evenly across the width of the press rolls. The ink is distributed down through the ink distribution rollers to four ink form rolls. The four ink form rolls transfer the uniform ink film on to the printing plate.

Fountain solution is applied to the printing plate by the dampening system. The dampening system applies a uniform, continuous and consistent film of water on to the printing plate. The fountain solution is attracted to the non-image areas of the printing plate.

A rubber-surfaced blanket that is mounted on the blanket cylinder receives the inked image from the printing plate and transfers it to the sheets of tinplate. The sheets of



tinplate are fed between the blanket and impression cylinders in a controlled position to assure registration.

Offset lithography means the image on a printing plate reads from left to right. After the image is transferred from the printing plate to the blanket the image on the blanket reads from right to left or backward. The image is then offset from the blanket to the sheet of tinplate reading left to right. □

If you have a problem or process that you would like to discuss please feel free to contact me anytime via email at jack.knight@inxintl.com. I hope to see you all at Asia CanTech in Bangkok in October.



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Making cans *popular*



Alex Bouwer, Nampak Bevcan sales and marketing manager, discusses the beverage can market in South Africa

The South African beverage can industry has shown tremendous growth in recent years – thanks to technical and packaging design innovations, coupled with effective marketing strategies.

Furthermore, the beverage can's innovative printing techniques, larger apertures and exciting graphics invite the consumer to engage in a new way with cans, thus ensuring differentiation on the shelf. The fact is, the number of beverage packages passing through consumers' hands, daily either at home, at work or at play has increased.

Research from 'Edge Study 2011' has shown that 21st century consumers are a whole lot smarter and technologically savvy. They know what they want, how their purchasing habits influence the economy and affect the environment. At an individual consumer level, there is a significant commitment to saving the planet for future generations.

Consumers appreciate that the can is easy to store and transport and has an environmentally friendly nature as it is 100 per cent recyclable. The 72 per cent recovery rate in South Africa is much higher than any other form of beverage packaging.

The target market

Following extensive research on consumption of cans in major South African townships, Nampak Bevcan is driving activities on the trendy, social scene, to popularise the can and its benefits. Younger consumers prefer the can to other

forms of beverage packaging, due to its affinity to stay cooler for longer, allowing it to retain its carbonation. This is perceived as great value for money, resulting in greater taste and stronger refreshment.

The 440ml Castle and Black Label draught cans launched by South African breweries earlier this year are based on the same consumer driven demands for more beverages in cans. The 330ml and 440ml Castle Lite cans has been warmly welcomed by consumers as a refreshing and trendy form of beverage packaging, due to its innovative characteristics. These include the "ice cold blue lining" and "thermochromic snow castle" and funky Ice Cold campaign with rapper Vanilla Ice promoting the can. Such advancements increase the brand's popularity, which then translates into an increase in sales.

Nampak Bevcan's sales volumes have shown significant growth over the past 24 months. This growth can be attributed to many things such as the increasing preference for cans in the youth market, effective marketing and the growth in the South African beer sector.

The innovation around the slender (aka Sleek) can will soon put Nampak Bevcan at the forefront of the industry. This will afford old brands and products an opportunity to re-brand and increase their customer base. Bevcan is also continuously seeking ways to produce lightweight cans without compromising on quality. Equipment is constantly improved to meet demand. Lightweighting reduces plate thickness and therefore total metal utilised, thus reducing the impact on the environment.

A consumer campaign

As a tool to maintain the growth trend, Nampak Bevcan has adopted an extensive consumer facing marketing campaign to keep the CAN Do! brand at the top of consumers' minds. A series of promotions have been launched: 'I CAN Be Scene' and 'I CAN Be Famous' with the aim of engaging directly with the market through distributors and the consumers themselves.

Cans have become increasingly popular in South Africa and recycling rates are at 72 per cent



Over the past three years Bevcans' consumer marketing campaign has gone a long way to changing consumers' perception of cans, firstly by educating on can benefits, secondly by creating positive associations with cans. This was achieved with a CSI campaign called 'Every-Can-Counts' and a focus on national pride during the 2010 Soccer World Cup with the "Can Do Nation" campaign. More recently, in 2012 Bevcans has linked the beverage can to all things cool, funky and trendy with a highly engaging TV advertisement, radio, billboards and a strong social media drive. Cans are fast becoming the preferred beverage packaging in the township youth market.

CAN Do! further supports various green campaigns locally and internationally. Here at home, The Green Expo is held annually in Johannesburg and Cape Town. The main objective of the Green Expo is to raise public awareness of the benefits of recycling and leading a greener lifestyle. CAN Do! sponsors the Speakers' corner and engages the public in responsible dialogue to foster change.

Environmental awareness

Nampak and Collect-a-Can South Africa also join eight countries, from five continents, to commemorate international Canvirement Week every year in November. The aim of Canvirement Week is to educate consumers about one of the can's greatest advantages, its sustainability. This worldwide initiative further encourages consumers to take action by changing their purchasing behaviour and promotes the recycling message.

Nampak Bevcans continuously seeks to make a positive contribution to society and public education is the focus area the business has adopted. During the 2011/2012 fiscal year, Nampak contributed over R8.5 million (\$1m) to various educational programmes, assisted through the Every-Can-Counts initiative.

South African consumers are increasingly becoming environmentally conscious – and the educational programmes driven through various Nampak Bevcans campaigns have played a role in this awareness. These initiatives will soon make it second nature for individuals to commit to recycling. □



Nampak Bevcans launched a consumer campaign called CAN Do!



About Nampak Bevcans

Nampak Bevcans, Nampak's beverage can making division, is the only beverage can manufacturer in sub-Saharan Africa and is the continent's preferred provider of steel beverage cans and aluminium ends. It has access to the latest advances in technology through its association with Crown Holdings. Nampak Bevcans is trusted to supply leading global brands throughout the Southern African beverage industry.

Nampak produces packaging products in metal, glass, paper and plastic and tissue products primarily in Africa and Europe. The company has a presence in over 21 countries, extensive value-added services, significant capacity to delivery, a research and development facility and a proven innovation process.

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Breaking tradition

CanTech International is set to include more features, news and information from the filling industry. We kick off proceedings with a look at the canned wine market



Cans could help kick-start the wine market. That's the message from Kym Hamer, marketing manager new product development at Rexam, who spoke to Alec Peachey.

According to new research published by Wine Intelligence, UK wine consumers are surprisingly adventurous in their choices of wine packaging, which could eventually mean the traditional 75cl bottle may lose its stranglehold on the market.

The wine in can market has experienced steady growth and Rexam recently partnered with Accolade Wines to create cans for its Sparkling Collection range.

The new drinks (see new products on page 30) will feature alongside Echo Falls Spritz in a can, which launched last year.

"The first thing to say is that overall the wine market in Europe is quite mature and mainly flat. What we're seeing is that customers are looking for ways to kick-start that growth," notes Kym Hamer, marketing manager new product development at Rexam. "There are different can sizes that tend to be in demand for canned wine. The slim 200 and 250ml cans are the most popular sizes."

The canned wine market remains strong with the UK, Germany, Russia and Austria all experiencing growth. In 2011, Rexam saw sales of wine in cans increase by 44.5 per cent. The main target market for canned wine is younger females aged 18 to 34.

Finding a filler

Filling wine in cans requires careful matching between product and packaging.

"Although we're not experts in



Rexam teamed up with DIS to fill cans of Wild Pelican

filling we have found that some of the more traditional producers of wine will not have the infrastructure to fill cans," explains Hamer. "If that is the case we can tap into other customers within our portfolio that can help them. They are really important to us because they provide a bridge between the customer and us."

One of Rexam's filling partners is the Dutch company Dranken Industrie Sittard (DIS). Last year Rexam worked with DIS to install equipment that would allow it to fill wine in cans.

The installation helped create a smoother and more precise filling technique, and ensured that cans filled with wine under the Wild Pelican brand, were 100 per cent perfect when landing on the retailers' shelves for consumers' enjoyment.

DIS is able to fill a wide range of cans including slim 200ml and 250ml, as well as Rexam's 335ml sleek cans. The installation of the new machinery allowed DIS to undertake a number of filling stages to ensure a perfect product is canned, such as filtering the wine during unloading, measuring and maintaining the mineral and oxygen levels within

From independent research conducted in April 2011 with a target 18 to 34 age group, Rexam found:

- 54% of respondents thought that the idea of wine chilling better in cans was appealing
- 58% of respondents thought that a wine in a can multi-pack would be appealing for drinking single, small portions rather than opening a bottle
- 58% of people sampled thought that the idea of wine in a can was appealing, 67% of these thought it was highly appealing
- 55% of respondents agreed that wine in a can would be great for picnics or out of home drinking.



the wine and preserving the product before final filling.

Earlier this year DIS announced plans to install a fifth can filling line at its site in Sittard. The firm chose cans as its only packaging format around four years ago and is able to fill all available can sizes and aluminium bottles.

"We do work with other fillers but DIS have done a lot of work with us, specifically in the wine in can area. They also fill our Fusion bottles," notes Hamer.

Considering cans

Even though millions of regular drinkers buy wine in formats like bag-in-box, Tetra Pak, plastic bottles, smaller sizes of glass bottle and cans, the traditional 75cl option is still by far the most popular choice, according to Wine Intelligence research, with almost three quarters of consumers buying it regularly.

Hamer agrees. "I don't envisage that cans will replace bottles. However, that's not to say that more traditional wine drinkers wouldn't enjoy it out of a can," she says. "Cans can be used for certain types of drinking occasions. To the consumer cans offer advantages such as convenience, portion control and the opportunity to try different flavours and varieties. For customers and retailers it is not about replacing bottles, but instead creating a new market segment."



Multipacks of canned wine are a popular choice amongst consumers

Consumers base their decisions on a wide range of factors, including value for money, portability and environmental credentials.

It is fair to say that cans offer all three, but occasion and product image are the most important.

Wine Intelligence's associate director for publishing, Graham Holter, says the industry needs to give consumers reasons to switch from familiar glass bottles.

"The wine industry would have us believe that alternative packaging options have no detrimental effect on the wine they contain – indeed, they may even do a better job, in some circumstances, than glass," he says. "The UK bottle culture is not going to be smashed overnight, but a two-way dialogue between producer and end user could yet lead to a small but significant shift in the way wine is packaged."

It seems as though canned wine could play its part. □

Canned craft beer corner

Russ Phillips is the founder of CraftCans.com – a website that is devoted to canned craft beer. In the US there has been a growing number of craft brewers putting beer in cans and Russ will provide regular updates on developments in this area

In early August the Brewers Association, the trade association representing a bulk of America's breweries, released a mid-year report that provided more good news for the industry.

It showed that 2012 is the year in which the total number of breweries operating in the country, 2,126, is at an all-time high. The amount of craft beer sold in the country is up 12% and dollar sales are up 14%. With numbers like these it's not surprising that close to 1,300 breweries are in the planning stages with the hopes of opening and getting their piece of that pie.

When it comes to canning, the number of craft breweries doing so continues to rise. Close to 200 different American craft breweries are now canning their beers in some capacity – or close to 10% of the total craft breweries currently in operation.

In August, Colorado's Oskar Blues Brewery made headlines by expanding into Chicago's extremely competitive beer market. Widely regarded as the first craft brewery to can their own beer, Oskar Blues has been growing and expanding at a staggering rate for the past several years. This year they're celebrating a decade of canning and will be opening up a second production brewery located in Brevard, North Carolina.

Ball Corporation announced that they will be closing two US plants in response to a slowing demand for 12oz cans. Ball plans to focus more on speciality beverage can operations such as Alumni-Tek bottles, 16 and 24oz cans and others. Many American craft breweries are looking at 16oz cans sold in four-packs and a few are choosing 24oz cans. Oskar Blues Brewery and Sun King Brewing Company recently collaborated on a Belgian-style beer that was the first craft beer released in Ball's 16oz Alumni-Tek bottles. Ball supplies cans to eight of the 10 largest craft brewers in the US as well as to many of the other smaller craft breweries.

It was announced recently that Canfest will once again be held in Reno, Nevada on 3 November. The nation's first all-canned beer festival had been on hiatus after Buckbean Brewing Company, the brewery which had hosted the festival for the past three years, went out of business. California's Mammoth Brewing Company is now the festival's title sponsor.

CraftCans.Com's Can of the Month

Elevation IPA

La Cumbre Brewing Company

Albuquerque, New Mexico

Elevation IPA was recently released in 16oz cans that really do a great job showcasing a fabulous regional art design. This is the first canned offering from La Cumbre Brewing Company – but what a debut it is! Elevation IPA won the gold medal in the much-coveted American India Pale Ale category at this past Great American Beer Festival (something they made sure to put on their can). They beat 175 other entries in the category and once you open a can you can smell and taste why. This is a big, fresh-tasting American IPA with loads of pine and citrus notes. Outstanding example of the style!



CANNING: Princes supports British pea growers

Princes has confirmed its support for British pea growers faced with reduced crop yields due to poor weather conditions this year.

The food and drink group, which processes over 48 million cans of British-grown garden peas annually from farms close to its East Anglian canning site in Long Sutton, has reaffirmed its commitment to buy local produce.

Princes purchased two sites from Premier Foods over a year ago as part of its strategy of growing its food sourcing, processing and manufacturing operations in the UK and continental Europe. The sites produce a range of canned peas — garden, marrowfat and mushy — under Farrows, Batchelors and other brands. Princes also buys potatoes and carrots from local farms and is now the UK's largest manufacturer of canned British-grown vegetables,

purchasing over 40,000 tonnes a year from domestic growers.

Stephen Francis, director from Fen Peas said: "Our growers are deeply concerned about the effect that the weather has had on this year's crops and the associated impact on their businesses. Princes has pledged its long-term support for buying locally-grown produce and the presence of a stable and committed purchaser is a huge reassurance to producers in our area."



FOOD: McCall Farms highlights canned food benefits



Each label will have a 'Can fact' and a QR code that will direct consumers to the company's website for more information.

The company also plans to print the official "Cans: Infinitely Recyclable" logo on its labels in an effort to educate consumers about the environmental attributes of metal packaging.

McCall Farms cans locally grown fresh vegetables, including peas, beans, greens, okra, rutabaga and tomatoes, in southern-style flavour combinations.

The nutritional benefits of canned food are being highlighted by US-based McCall Farms.

The company, which is based in South Carolina, has worked with Crown since 1954 when the McCall family decided to build a 5,000 square-foot canning operation.

Since then, Crown Food Packaging North America has supplied metal cans for McCall Farms' portfolio of southern-inspired vegetables sold across the US.

McCall Farms is now working on a project to highlight the nutritional benefits of canned food on its labels.



EVENT: Get ready for drinktec 2013

The world's leading trade fair for beverage and liquid food technology — drinktec — is taking place from 16-20 September 2013 in Munich, Germany.

At this event manufacturers present the latest technology for production, filling and packaging of beverages of all kinds, and for

liquid food — also encompassing raw materials and logistics solutions. The event, which takes place at the Messe München exhibition centre, is expected to attract around 1,500 exhibitors from over 70 countries and approximately 60,000 visitors from more than 170 countries. Visit www.drinktec.com for more information.

BEVERAGE: Coca-Cola announces new operating structure

Coca-Cola has announced a new operating structure that will see the company organised around three major operating businesses.

They are: Coca-Cola International, which will consist of the company's Europe, Pacific and Eurasia & Africa

operations; Coca-Cola Americas, which will consist of the company's North America and Latin America operations, and; Bottling Investments Group (BIG), which oversees the company-owned bottling operations outside of North America.

BREWING: Heineken's APB bid accepted

Heineken is set to buy Fraser and Neave's (F&N) controlling stake in Asia Pacific Breweries (APB) — the manufacturer of Tiger Beer.

Through its wholly-owned subsidiary Heineken International BV, the Dutch brewer has agreed a final offer of \$53 per share for F&N's entire (direct and indirect) 39.7% effective



stake in APB. The deal is worth a total of \$5.4 billion.

Heineken has also agreed to pay \$163 million for F&N's interest in the non-APB assets held by APIPL.

When the proposed transaction is completed, the Heineken group will hold a 81.6% stake in APB and gain control of APB's business.

BEER: SABMiller opens fourth site in Nigeria

SABMiller has opened a new \$100m brewery in Nigeria.

The brewery is based in Onitsha, South Eastern Nigeria, and is the company's first 'greenfield' brewery facility to be built in the country. His Excellency Dr Goodluck Jonathan, president of the Federal Republic of Nigeria, attended the opening ceremony and formally opened the new brewery.

Work began on the Onitsha site in 2011 following an investment of more than US\$100 million, making it the largest single investment in Anambra State for almost 20 years.

The communities in Onitsha and surrounding towns stand to benefit significantly through the creation of employment and through indirect commercially-related activities and support services. Immediate direct job creation will see 180 local people employed, with that number

increasing to approximately 450 as production volumes grow.

The new brewery will commence production of beer and malt with an annual capacity of up to 500,000 hectoliters. The initial brand to be brewed will be newly launched Hero Lager, followed by other brands including Trophy Lager, Grand Lager and non-alcoholic malt beverages Grand Malt and Beta Malt.

Mark Bowman, managing director of SABMiller Africa, said: "This opening is an indication of our commitment to increase our capacity further and to consolidate our position on the continent whilst contributing positively to the local communities in which we operate."

The Onitsha brewery brings SABMiller's total number of sites in Nigeria to four, having first entered the market in 2009 through its strategic alliance with Castel.

Update for inRoll system

Quality By Vision has updated its inRoll tooling profile scanner so that it now measures necker tooling, necked and flanged cans.

The update, which includes changes to both the system's hardware and software allows can makers to not only use their inRoll to monitor and perform acceptance testing on seamer tooling (first and second op rolls and chucks) but now allows them to automatically measure profiles of necker and flanger tooling and even cans. The system can also monitor setup

and wear of the tooling and machinery by looking at the cans themselves in the first and second operation stage necking process as well as flanged cans. The system clearly displays a profile of the can (or the tooling) with automatic readings of the angle and radius dimensions on the profile, clearly pointing out where it deviates from the nominal profile and whether it is in or out of the desired



specifications. This capability is built in to all new systems and older inRoll systems can be upgraded to support this capability as well.

For further information visit www.qbyv.com

New system for handling cans

Container Handling Systems (CHSC) has released a new low-level depalletizer that can be used to carry cans.

The Model 1000(AC)-60 has a servo driven system which provides increased

flexibility, reliability and accuracies. The system provides improved flexibility in the range of layer heights that can be accommodated, improved accuracy in layer incrementing with heavy loads, such as full height pallets of glass bottles, as well as improving reliability through the reduction in the controls complexity.

The new system provides floor level depalletizing without the need for costly operator platforms and container lowerators.



It comes with a four point pallet lifting platform, servo driven main elevator and wide way pallet handling.

Other features include: perimeter guarding; right angle pallet stackers; zoned chain or air chain pallet accumulation conveyors; nose over chain transfers on accumulation table for difficult containers; servo driven sweep drive; wide range of PLC controls.

For further information visit www.containerhandlingsystems.com

Ovec launches CPG200

A new gauge from Ovec Systems can measure the compound on all beverage shells/ends in five easy steps.

Load - The CPG with up to 200 shells/ends per hour.

Configure - Quick easy change parts allow operator to move between sizes within minutes, using pre-defined test parameters.

Open - The curl is automatically opened on each shell prior to testing.

Measure Compound: placement is measured at a user defined number of points around the opened curl reliably and accurately to 0.01mm.

Analysis - All results including an image of each measurement is stored locally and/or exported to QA network.

The Compound Placement

Gauge system removes the operator's judgment from the test procedure, meaning that reliable and accurate measurements, accurate to 0.01 mm, are recorded for analysis.

As well as storing the measurement results for the shoulder height and cut edge, the image of the shell/end is stored to allow the actual shells to be viewed at a later date if required.

A calibration check before every test ensures that the system settings are correct for the shell being tested. Within seconds the system can be measuring a different compound type on a different shell size.

The system can be loaded with up to 48 sample shells or

ends. After loading the machine with a batch of shells and entering details of where and when the batch was produced, no further operator intervention is required. The curl is automatically opened prior to measurement of both shoulder height and cut edge. Flexible software has been developed for the CPG200, to accommodate a variety of shell/end sizes, colours and compounds.



For further information visit www.ovec.co.uk

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PRINTING & COATING MACHINES / LINES

- Mailander 122 - 2 col Print+UV oven 45"x38"
- Mailander 431 Coating line + LTG oven (1044x960mm)
- Crabtree Marquess Single col.+ UV oven 40"x 34"
- Crabtree Marquess 2 Col. Line+Coater+Ballard oven 40"x+36"

WELDING MACHINES

- Soudronic VAA K-100/120 auto.welders
- Soudronic VEA W 25K+tool 248mm dia
- Soudronic VEA W-K50 auto. welder
- Soudronic ABM 250sw, 73+99mm,+ABM 400/420
- Cevolani CBW 2150 Auto welder, 83mm

GENERAL INDIVIDUAL MACHINERY

- Cevolani BNA 489 - 3 Station Combination machine, 83mm dia
- Continental Can Scroll Sear, 1100 sheet width.
- Lubeca LW211 auto. one head seamer
- Ocsam double slitter
- FMI Beader tools 99mm, Revised
- MB 560 Beader tools 83mm
- Cevolani BQ48 auto Dbl. Die flanger dia 127+153 mm
- MB 151 auto Die flanger, tools 99mm dia
- Kling Hammer auto.Dbl. Die Flanger
- MB 334 CRS/F auto.seamer dia.52mm
- Deepdrawn cans, heavy duty Presses

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New Products

San Benedetto chooses Ball's sleek can



Italian beverage company Acqua Minerale San Benedetto is using aluminium sleek cans produced by Ball Packaging Europe for its tea products.

The drinks producer is the first to adopt the 33cl aluminium sleek can from Ball for its products. The company is launching sleek cans with its San Benedetto

lemon, peach and green tea flavoured ready-to-drink tea (RTDT) and for Tonic and Lemon Schweppes cans on the Italian market. Ball Packaging Europe, one of the leading beverage can producers in Europe, only recently presented the new packaging format.

Founded in Scorzè in the Province of Venice, San Benedetto is the first company in the non-alcoholic beverage market with entirely Italian share capital and is currently commercially active in over 80 countries across all five continents. Its leading segment is mineral water, followed by the RTD tea segment. Under license from

Schweppes, Acqua Minerale San Benedetto also produces and distributes in Italy the traditional international Schweppes brand.

Myriam Galmés, sales manager at Ball Packaging Europe, said: "It is the first cooperation between Ball and San Benedetto. I am happy that we can support San Benedetto with our sleek can in expanding their tea market. Ball expects several energy drink and tea producers to enter the market in Germany and the Netherlands with the sleek can soon."

For further information visit www.ball-europe.com

Big Soup cans from Heinz

Heinz has launched a new range of Big Soup cans in the UK. The company has added six new flavours to the range in an effort to drive sales and give consumers more choice.

The 500g cans feature premium cuts of meat such as Angus Steak, offering consumers a tasty and filling meal solution. The range's slogan is: 'Go Big or Go Hungry.'

The Heinz Big Soup cans will be available from 1 August in six different varieties: Angus

Steak & Potato; Simmerin' Sausage & Veg; Roast Chicken & Veg; Smokin' Chicken & Bacon; Angus Steak & Onion; Angus Steak & Veg.

Ruth Carberry, brand manager, Heinz Big Soup, said: "We launched the new Big Soup varieties as we recognise that consumers are looking for excellent quality soups that are big, chunky and tasty. Containing premium cuts of



quality meat, we are confident that consumers will love these no-nonsense, hearty flavours. They will also help retailers to profit from sales of the range as well as growing the wider category."

For further information visit www.heinz.co.uk

Sparkling wine in cans

Rexam has partnered with Accolade Wines to create cans for its Sparkling Collection range.

Accolade Wines has launched four new innovative drinks from the Hardys, Banrock Station and Stone's brands. The new drinks will feature alongside Echo Falls Spritz in a can, which launched last year.

The 250ml Slim cans, being produced at Rexam's

Gelsenkirchen plant in Germany, are targeted at existing wine drinkers as well as 25 to 35 year old females who are new to the wine market. The range includes two Hardys Bellinis (in strawberry and white peach flavours) and Banrock Infusions, a blend of wine and summer berries. Stone's Ginger Punch, a mixture of ginger wine and lemonade, is available in a limited edition Union Jack can.

Clare Griffiths, European marketing director for Accolade Wines, said: "Our new cans offer a level of convenience in the wine market that currently hasn't existed in the wine category with trusted recognisable brands."

Gary Aslam, European customer services, sales and marketing director at Rexam Beverage Can, added: "It is great to see the expansion of the wine cocktail range - we have enjoyed working closely with Accolade Wines to bring these cans to market and to develop this new category together."

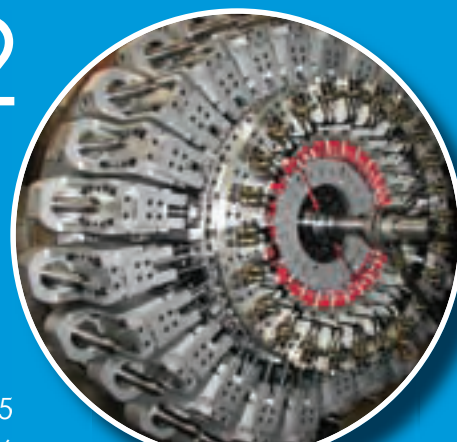


For further information visit www.rexam.com

Supplier Profiles 2012

The CanTech International Supplier Profile is the definitive reference guide to equipment, materials, tools and services for the metal packaging industry. From printers, inks and coatings, tool engineering and replacement parts, through to inspection and testing, full production lines and turnkey projects – everything for today's can maker can be found within these pages.

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The company

Altek supplies inspection equipment to the food, beverage and aerosol container industries.

Since its founding in 1964 by Tom Helms, the TECH® Products line of test equipment by Altek Company continues to supply safe, reliable instruments that are used by its customers from the development lab through to the manufacturing process.

Performance demanding clients such as Anheuser Busch, Ball Metal Container, Coca-Cola, Crown Cork & Seal, Metal Container Corp and Silgan Containers rely on TECH® Testers to satisfy their requirements for quality control equipment.

The products

TECH® provides its customers with the following categories of equipment:

- AXIAL LOAD testers for metal can and plastic bottle side wall strength
- BUCKLE (dome strength) testers for pressure resistance of cans and lids
- DOME GROWTH (seating plane) testers for measuring growth under pressure
- POP & TEAR testers for food and beverage convenience opening lids
- HYDROSTATIC testers for deformation and burst testing of aerosol cans
- MOBILITY/LUBRICITY testers for coefficient of friction testing of cans, can stock, plastic films and other media
- LEAK testers to determine the location and size of leaks in can lids.

TECH® also creates calibrated leaks in can lids and slugs that enable customers to test their high speed leak detection systems.

The future

TECH® is always willing to partner with new and existing customers to enhance current products or develop test and inspection equipment to meet their latest requirements.

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AMJ Industries

Company Description

AMJ Industries, Inc. is a world leader in the sales, service and rebuilding of both two and three-piece can making machinery. Not only does AMJ sell used machinery but offers complete lines, used machinery solutions and a variety of rebuild packages on single machines all the way to complete lines and including warranties with some packages. We supply used and rebuilt machinery solutions to our customers saving them time, money and effort.

Sales, Service and Rebuilding

AMJ Industries, Inc.'s knowledgeable sales staff assist customers with the simplest single machine request up to a complete plant project. AMJ's largest concern is that our customers get the best possible sales service. Our sales staff also look beyond customers' current needs and/or issues and have the foresight to consider potential future needs a customer may have based upon their current projects. Whether it be a simple can flanger or a complex machine integration AMJ's service department has the experience to fulfill most can companies needs. Unlike many other companies dealing in used machinery, AMJ staffs a complete service

department in our company.

AMJ offers a wide variety of rebuild packages varying from simple clean and paint projects all the way to labour intensive rebuild projects with warranty. AMJ rebuilds machinery for the largest can makers in the world and continues to do so for more than 15 years, for one very big reason; AMJ does not compromise quality.

News

Most notable on the sales front was the sale of one partial aluminium beverage can making line to which the buyer also contracted AMJ to refurbish the machines and modify some for 500ml can production. AMJ also completed the sale of several beverage can trimmers, Rutherford Decorators and Bruderer Presses. In the three-piece market AMJ has been primarily focused on the sale of Soudronic Welders and Angelus Seamers.

On the rebuild side of the business, AMJ has recently completed two Alcoa RT6, which were modified to run a tall can size, one Rutherford CD2 6 colour decorator, one Bliss 1103 Scroll Shear with Sheet Feeder and a project with Carando Pail Seamers and Expander for a major can maker in the US.

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Darren Hench

For global sales, service & support, visit:

www.appliedvision.com/sales.html



Applied Vision's latest product offerings include the new Cyclops family of self-contained autonomous vision systems for single lane applications, called the Power of One

Company Description

Applied Vision serves its customers with unsurpassed industry experience and accessibility, with more than 30 years of experience, over 6,000 installations and nearly 20 global locations.

The company designs and manufactures application-specific machine vision inspection systems for food and beverage containers, packaging and colour printing. It is the leading worldwide supplier of machine vision solutions to the food and beverage industry.

Applied Vision's engineers and scientists have been developing machine vision products since 1980. They have innovated three generations of inspection technology and installed thousands of successful solutions. Applied Vision's systems are sold through Original Equipment Manufacturers (OEMs), Value Added Resellers (VARs), full-service distributors and company direct.

Capabilities and Applications

Applied Vision's machine vision systems provide 100 per cent inspection at line speeds, automatically identifying defects and rejecting them from the production line. By continually providing process feedback, manufacturers can rapidly identify the cause of process defects. This dramatically reduces spoilage, downtime and cost for container manufacturers and fillers.

Through new installations or integration with existing manufacturing lines, Applied Vision leads the industry in the following machine vision inspection solutions:

- Beverage shell inspection
- Lined end inspection
- Converted end inspection
- Inside can inspection (ICI)
- Decoration inspection
- Mixed-label inspection (MLI)
- Food end & easy open end (EOE) inspection
- Bottle can inspection
- Cap and closure inspection
- Two and three piece food can inspection.

Products and Technology

Applied Vision's products and technology are the results of its decades of problem-solving focus and success. Its two product lines, Genius® Vision Systems

and KromaKing® Color Vision Systems, are currently used in hundreds of facilities around the world.

The Genius Vision System performs 100 per cent automatic inspections with extreme accuracy on high-speed lines in applications including inside can, converted end, food end, easy-open end, three-piece can, bottle can, shell and crown cap and closure.

The Cyclops inspection system delivers proven Applied Vision inspection expertise in the most proficient, intelligent, all-in-one system engineered to date. This self-contained autonomous vision system is suited for single lane applications, or the new distributed concept of inspecting anywhere value is added during the manufacturing process. We call that the Power of One.

The KromaKing family of colour and decoration inspection products include Decomaster, Decomatch, Decoscan, and the industry leading Mixed Label Inspector (MLI). KromaKing systems are capable of measuring multiple regions of colour in complex patterns including mixed labels, colour shifts, pattern defects and print registration errors.

VTRAC advanced process monitoring technology is an Applied Vision innovation available as an integrated enhancement in both Genius and KromaKing systems. With VTRAC, the system immediately pinpoints the upstream manufacturing component causing a defect and alerts line maintenance personnel to it. This enables faster troubleshooting and process correction than ever before, resulting in greater reduction in spoilage.

Global Support Infrastructure

Applied Vision's customers are worldwide container manufacturers and fillers including Ball Corporation, Boxel Corporation, Crown Cork and Seal, Diawa Can, Exal Corporation, Kian Joo, Pacific Can, Rexam Corporation, Seneca Foods, Silgan Containers, Sonoco Phoenix, Swan Industries, Toyo Seikan, United Can and others.

The company's solid commitment to its customers' global operations is represented by its network of nearly 20 sales, service and support offices, OEMs and full-service distributors in Asia, Australia, Europe, Latin America, the Middle East and North America.

Please see our advert on the back cover.



Bear Products

Company Description

Bear specialises in rubber, neoprene and urethane spare parts for the can making industry.

Statistics

Bear has successfully served the needs of the can manufacturing industry since 1982. Its customers include all of the leading can manufacturers, OEMs, turnkey operations and used equipment suppliers and engineers. Bear's technical department has more than 35 years of practical experience in designing and producing parts.

Products

Bear manufactures a wide variety of rubber, neoprene and urethane parts for can making equipment: suction cups, light tester seals, Borden testers, aerosol pocket seals, pocket unloaders, bumpers and pre-spin rings. We offer spare parts



for Rutherford, Borden/Alcoa, Continental/Cameron, Reynolds, Ragsdale, Standun and Concorde, and with the acquisition of moulds from the Bryant Rubber Co, we have many of the old equipment parts available.

Services

Bear maintains a large inventory of all regular stock items. Orders are shipped on the same day they are placed. We pay all ground freight charges for orders shipped within the continental US, and offer international shipping and on-time delivery. No charge samples of parts for testing can be provided upon request. We welcome all custom applications. Knowledgeable sales and engineering staff are always available to help with hard-to-find items and application problems. Bear has added a web page with our full catalogue and the added advantage of ordering on-line. We will confirm orders within 24 hours.

Bear Products

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Fax: +1 909 980 8195
E-mail: bearpad@mcn.org
Web: www.bearproducts.com

Key Personnel

Sales Department

Mary Anne Evo
Mary Arnette

Engineering

Herk Peterson

Quality Control

Jesus Baquerra

Since 1982—Producing
QUALITY PRODUCTS
For The Can Manufacturing Industry
Specializing In
Rubber, Neoprene and Urethane Products
For The Two- and Three-Piece Can

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PRODUCTS**

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Fax: +1 909.980.8195
email: bearpad@mcn.org
www.bearproducts.com

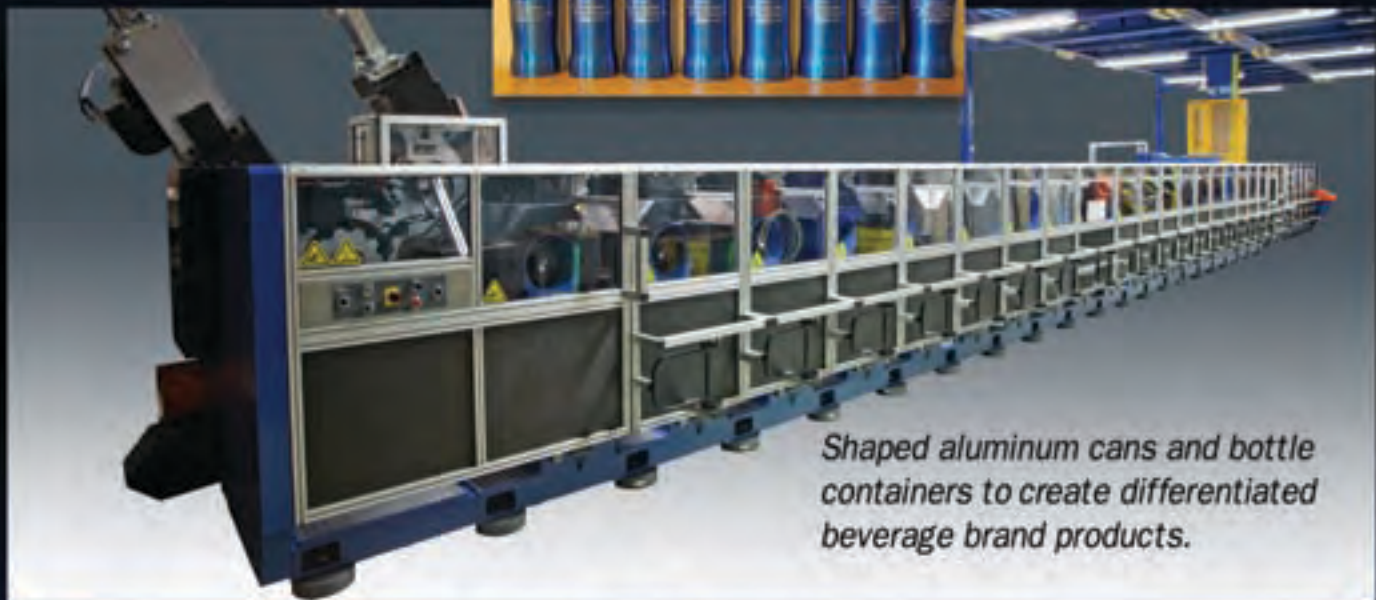
Distinctive Shapes for the World's Leading Brands

New Shaped Bottle and Can Container Solutions from Belvac

Belvac now provides a complete solution for all your shaped bottle and can manufacturing needs. From distinctive container concepts to manufacturing cell and container commissioning, rely on Belvac's thirty years of high speed die necking experience to drive the success of your new product venture.

High speed, high volume, cost effective shaped container solutions are the hallmark of Belvac's machinery, manufacturing, and service solutions.

- ▶ Cost Effective Differentiated Bottle and Can Containers.
- ▶ Aluminum or Steel for Beverage, Food, or Aerosol Containers.
- ▶ High Speed, High Volume, Lower Material Usage Solutions.
- ▶ Complete Support from Container Design through Manufacturing Start Up
- ▶ Wide Range of Height and Diameter



Shaped aluminum cans and bottle containers to create differentiated beverage brand products.

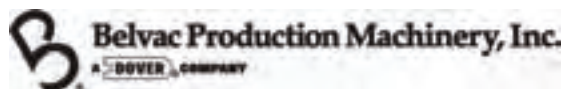
Belvac is a true strategic partner in all your efforts to build unique container solutions to grow and differentiate brand products. To speak with a Belvac representative about branded container opportunities call 800-4Belvac Ext. 6388, or by email: ShapingSolutions@Belvac.com



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Belvac

Company Description

Belvac is a world leader in the design, manufacture, service and continuous innovation of production machinery for the two-piece can industry. More than 5,300 Belvac machines that have been produced in the past 40 years are still running in can plants worldwide. The company has its headquarters and manufacturing operations in Lynchburg, Virginia, USA.

Belvac also has offices in Europe: Plzen, Czech Republic, Shanghai, China and agents in Japan, Singapore, Brazil and Korea. Belvac innovations have led to smaller footprint machine designs, decreased tooling expense, larger container handling, as well as better quality management and can sampling systems.

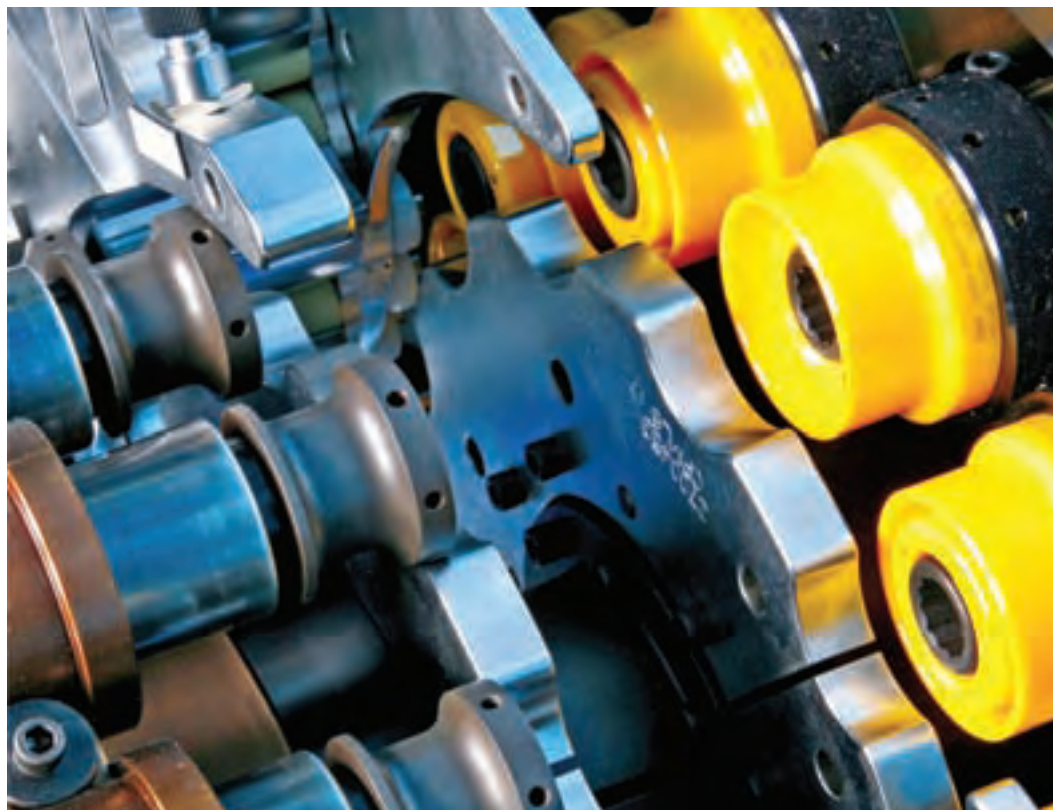
Products

- Die Necker Systems: 590, 595K VE, 595SK VE, 810K, The Belvac
- Bottle and Shaped Can Container Manufacturing Systems for Aluminium and Steel for the Beverage, Food, and Aerosol Industries
- Vertical Shaper for Bottles and Cans for the Beverage, Food, and Aerosol Industries
- Flangers
- Trimmers
- Reformers/Reprofilers
- Bottom Coaters

- Integrated Neck Lubricators
- Integrated Light Testers
- Integrated Pressco and Applied Vision Systems
- Upgrade Conversion Kits
- High Speed Selective Sorter
- Intelligent Manufacturing Systems

Recent Developments

- BCMS, Bottle Can Manufacturing system with Integrated Threading and Curling
- Vertical Shaper, for Aluminium and Steel Bottles and Cans for the Beverage, Food, and Aerosol Industries
- Bottle Container Design and Complete Manufacturing Cell Implementation
- The Belvac, Technologically Advanced High Speed Necker
- ACMS, Aerosol Can manufacturing system
- Necker Intermediate Infeed systems for multiple can diameters and retest inspection
- Quick Change Can Size Conversion Kits for Necker Systems
- High Speed Selective Sorter
- LED Light Tester
- Light Tester Conversion from Halogen to LED Light Array
- New multi-speed, Flexible Application Necker platform
- Intelligent Manufacturing Systems to Optimise Production



Belvac

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Key Personnel

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David Mammolenti

CFO

Jerry Krohn

Director European Operations

Geoff Bowlin

Director Marketing and Customer Support

Eric Hodge

Director Corporate Quality Assurance

Chris Davis

Sales Director, China

Eric Shen

Agents

Japan:

D.I. Engineering Parts & Service Corporation

Singapore:

D.I.E.C. Singapore PTE Ltd

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Stolle Machinery do Brazil

Korea:

Choi's International Corporation



Brookfield Engineering Laboratories



Brookfield Engineering Laboratories, Inc 11 Commerce Blvd Middleboro, MA 02346 USA Tel: +1 800 628 8139 Fax: +1 508 946 6262 E-mail: sales@brookfieldengineering.com Web: www.brookfieldengineering.com	Key Contacts President Donald W Brookfield CEO David A Brookfield	Process Sales/ Marketing Manager Steven Cicchese
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Company Description

Brookfield Engineering Laboratories, Inc, a world leader in viscosity measurement and control, began in 1934. Throughout its 78 years it has maintained a reputation for quality and reliability. With sales offices in England, Germany, China and India as well as a long established network of sales representatives in most countries of the world, Brookfield has the capability to provide strong support to its broad customer base.

For the can coating industry, Brookfield is providing a smooth finish for the can manufacturers with its AST-100 viscosity controller leading to greater efficiency and cost savings in the varnish coating operations.

The AST-100 automatically controls the thickness of the varnish overcoat of beverage cans, providing a consistent product quality with lower varnish usage. This helps to keep production at maximum efficiency while maintaining quality varnish coverage on every can. With improved efficiency, the AST has allowed the reduction in the overall use of varnish and driven down manufacturing costs. When multiplied by millions of cans, the savings are substantial and provide a pay-back on the instrument of less than one month.

The AST has worked so well that current users have purchased them for all of the decorators in their plant.

Quality and Service

Known throughout the world for the production of consistently high quality instrumentation, Brookfield has taken its commitment a step further by developing and maintaining a system that not only produces quality products and services, but provides clear documentation from start to finish assuring consistency to customers. Brookfield Engineering has 9001 Certification covering product design and development, production control, manufacturing and sales and marketing.

BROOKFIELD

Save Viscosity

Save Varnish

Save Money!

AST-100™

This in-line viscosity controller can stand-alone or integrate into existing control systems

Proven to reduce varnish use while maintaining good coating quality

Simple Clean-In-Place design with no moving parts

30-45 day ROI is typical

AST-310SY touch screen controller provides an easy to use graphical interface

TEL 800-628-8139 or 508-946-6200 www.cancoatingviscosity.com

CAN MAN

Can Man

Innovative Technology on Solid Ground

We identify trends in technology and transform them with profound knowledge of the business in successful products. So we develop our can making equipment in a trend-setting and future-oriented way, that generates new opportunities for can makers.

By entering the market with carefully designed and manufactured products, Can Man affected the trend of prices in favour of can makers, making operation and production more economical.

This is proven by our user-friendly welding body-makers with features such as the Silentium™ noise protection, fast automatic height change, thinnest copper wire with 1mm or integrated PowerCURE™ induction curing system for unbeatable savings of running costs and space.

Those who serve highly diverse markets constantly have to balance opposing needs. Our machines offer a degree of flexibility and reliability that is absolutely unique – and the key to lasting success.

The innovative strength of our engineers, the education of the staff assembling, testing and servicing your equipment and the excellent equipping of our suppliers, ranks among the best in the world and is essential for individual, not mass-produced machines.

We believe in and continue to work toward system solutions and services that reflect our responsibilities towards people and the environment; system solutions that are technically superior and deliver exceptional customer value.

Every Can Man product is SWISS MADE.

Can Man delivers all canbody-making equipment for production speeds of up to 1,200 cans per minute!

Products

- Slitter
- Feeder
- Welding-Bodymaker
- Induction Curing Systems
- Upgrades

Services**Pre-Sales**

- Consulting by a local partner
- Swisscan-tour (www.swisscan.net)
- Develop concepts, prepare focused proposals and provide 2D or 3D product layouts

Technologies

- Upgrade existing equipment
- Develop special solutions
- Build and set up single machines or key-turn production lines

After-Sales

- On-site service
- 24/7 support
- Fast spare-part service with transparent costs and 5% discount for every online purchase at www.shop.canman.ch
- Beginner and Refresher Training

Contact

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Fax: +41 62 777 444 1

E-mail: sales@canman.ch
Web: www.canman.ch



CHANGE CAN SIZES

without changing the ram



The NEW CMbE Sovereign Dual Stroke Canmaker

Imagine the time and costs you would save by making any beverage can up to 50cl with one ram (plus a 568ml promotional can on the same ram but with a minor stroke adjustment).

Come and speak to CMbE about improving your canmaking line and how we could work together for smooth running all round. www.cmbecanmaking.com


CARNAUD METAL BOX
ENGINEERING
With us, you can

Our canmaking technologies include • Die sets • Bodymakers • Trimmers • Decorator • Spray machines • Neckers • Seamer tooling



CarnaudMetalbox Engineering



Company Description

CarnaudMetalbox Engineering has been a world leading, innovative supplier of machinery for both the two- and three-piece can making, end making and seaming industry for over 45 years in its current location, although the company has been in existence for well over 50 years. The company is located across three sites in the UK and US and has service engineer support in both South America and Asia.

Facilities

The head office and manufacturing facility is located at Shipley in the north of England. The site covers over 62,000 sq ft with 35,000 sq ft of manufacturing facilities. Satellite facilities in Connecticut and Worcester provide specialist sales, service and technical support.

Products and Services

CarnaudMetalbox Engineering's products and services include:

- Cupper Die Sets
- 5000 Bodymaker
- 5500 Canmaker
- 550 Trimmer
- 3400 Necker with Flanger, Reformer, Light Tester & Vision Systems
- Spin Neckers & Flangers
- Inside Lacquer Spray Machines
- Decorators
- 8000 & 80 Precision Beaders
- 45/85D Spin Flangers
- 55 Liner
- 10/4 & 10/6 Seamers
- Advanced Seamer tooling for all manufacturers seamers
- All backed by a comprehensive spares and service team contactable 24 hours a day.

Recent Developments

CarnaudMetalbox Engineering are now offering a 24/26" Dual Stroke Canmaker. This is seen as a major development to allow quick can size conversions to accommodate the ever increasing can sizes being produced.

We have also successfully introduced the Sterling Necker, a low speed, lower priced multiple-stage die necking system for lower speed can lines producing two-piece aluminium or steel can production. Can manufacturers have access to a new, cost-effective, mid-range necking system. This latest addition to our Neckerrange can handle 1,800 cans per minute, ideal for small and mid-sized can manufacturers.

CarnaudMetalbox Engineering

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Chris McKenzie

Business Manager (Americas)
Paul Orsino

Business Manager (Seaming Systems)
James Wilkinson

Technical Manager
Daniel Egerton

Cazander



Cazander

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Web: www.cazander.com

Key Personnel

Managing Directors

Arnold Cazander
Tjakko Cazander
Alfredo Corcuera

Company Description

International business has been a strong feature of the Dutch culture for centuries and for the last 15 years Cazander has significantly contributed to this commercial spirit.

Day by day we extend beyond our borders to discover new markets, thus making our small country by the sea increasingly bigger.

Cazander is a supplier throughout the world for used can making and decorating equipment. We have exported 2,750 can making machines to over 400 companies in 80 different countries around the world.

The Cazander Brothers have been active in this niche market since 1996 and our customer base is still expanding.

Besides our regular business as usual we also focus on larger projects together with our partner

Veldkamp Technische Service BV, also from the Netherlands. In this combination we are able to dismantle, pack and load complete can making factory inventories. Few parties can offer the same package at this scale.

We are proud that we have been able to acquire our place as dealers in used can making machines in the internationally oriented world of the metal packaging industry, and that we can serve smaller, medium sized and large companies.

Cazander has sales offices in the Netherlands and Spain. We also have storage facilities in the Netherlands, where, from the foundation of our company, we have been able to use Veldkamp's workshop. Here, we are able to use the expertise of a large number of technical specialists who do many projects for Dutch can manufacturers as well as for international producers such as Crown and Ardagh Group.



Veldkamp



Company Description

A thoroughbred family business. For Veldkamp Technische Service BV this means that we greatly value our employees and our relationships. Through a sophisticated combination, we are able to be there for you all the time – moving, rebuilding and upgrading your can making and printing machines.

Our home is in Raalte, the Netherlands. From here Veldkamp is active worldwide as a technical service provider. We offer companies optimal solutions for technical work. From our well equipped workshop we provide overhaul, installation and construction of production machines. A flexible and trained team can also come to work at the customer's site.

Veldkamp is only too aware of the fact that the success of your enterprise depends highly on the continuity of your machinery and installations. This knowledge is at the basis of all our maintenance services. We guarantee continuity through preventive, corrective and large maintenance of your machines. By drawing on our extensive experience, we are able to actively contribute to your performance.

Our team of experts is there for you 24/7 to solve any possible troubles as soon as possible. Veldkamp is an all-round service provider, that gladly takes technical worries off your hands.

Besides our core business, we also participate in larger projects together with our partner Cazander Bros. & Sis. BV, also from The Netherlands. Whereas Cazander takes care of the sales activities, we can quickly bring in specialized teams for the dismantling, packing and loading of complete can making factory inventories. This setting has proven successful in large projects in Spain and the Netherlands.

Veldkamp offers you the opportunity to exploit the advantages associated with outsourcing. Based on our experience we offer you expertise and quality and as a result of our size we offer you capacity. We enable you to concentrate on your core activities following our ability to carry out all additional technical services.

Veldkamp

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E-mail: info@veldkamp.com
Web: www.veldkamp.com

Key Personnel

Managing Director
Edwin Veldkamp

Technical Director
Rene Verhoef

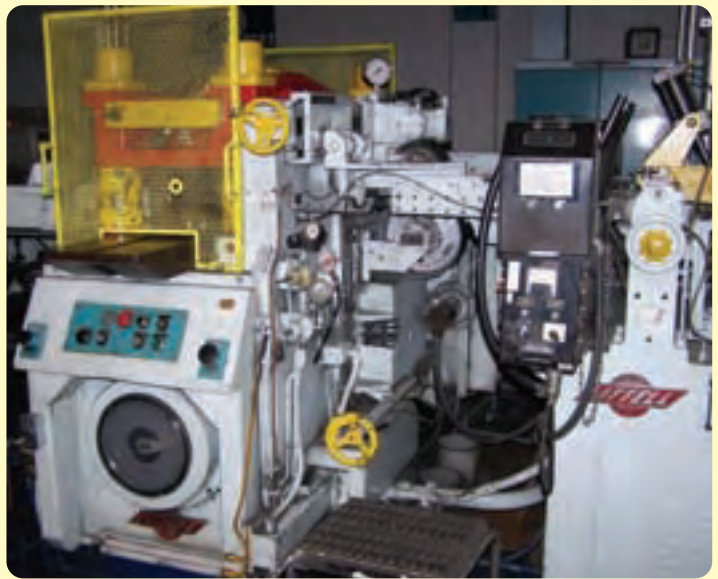
CONTAINER FABRICATION MACHINERY

WORLD'S LARGEST SUPPLIER OF QUALITY USED CAN MAKING EQUIPMENT

COMPLETE RECTANGULAR CAN MAKING
AND INTEGRATED FILLING LINE



COMPLETE 36 INCH COIL CUTTING LINE
WITH LITTELL FRONT END (2 IN STOCK)



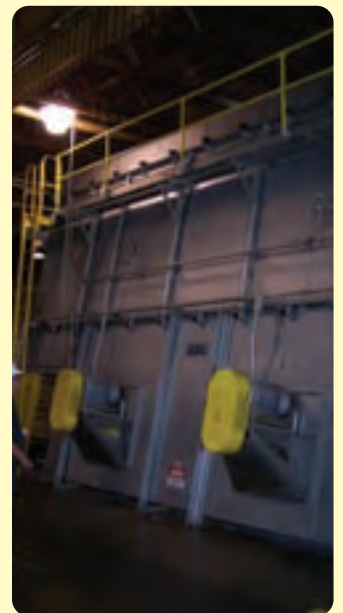
COMPLETE 3 LANE SEMI-AUTOMATIC
BAGGING STATION (9 IN STOCK)



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REYNOLDS DG-250 INSIDE SPRAY



Your one-stop source for quality used can making machinery!
Over 4,000 items listed on our website at www.canmaking.net

REYNOLDS RT-6 LIGHT TESTER



COMPLETE 603X700 COFFEE CAN MAKING LINE



COMPLETE 401X508 COFFEE CAN MAKING LINE



See all of our categories online under
"equipment listings" at www.canmaking.net

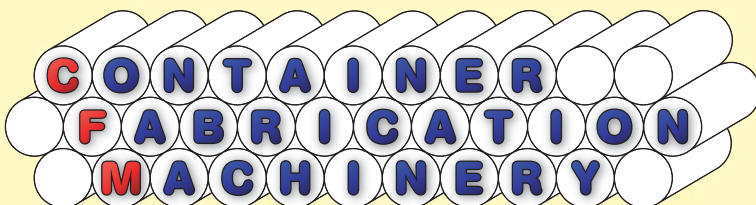
- BALERS/BRIQUETTERS/COMPACTORS
- BEADERS
- BLOWERS
- BODY BLANK AUTOMATIC FEEDERS (ROBOTS)
- BODY MAKERS/WELDERS-THREE PIECE
- BODYMAKERS-TWO PIECE
- BUNDLE TURNERS
- CAN AND END CONVEYING
- CAND AND END TESTERS
- CHANGE PARTS
- COATING EQUIPMENT
- CODERS, CONTACT/INKJET
- COIL CUTTING EQUIPMENT
- COMBINATION MACHINES (PARTER, BEADERS, FLANGERS, SEAMERS)
- COMPLETE-2 PIECE LINES
- COMPLETE-3 PIECE LINES (WELDED)
- COMPLETE-COIL CUTTING LINES
- COMPLETE-END PRESS LINES
- COMPLETE-PRINTING & COATING LINES
- COMPLETE-SCROLL SHEAR LINES
- CUPPING PRESSES
- CURING UNITS/SIDSEAM
- CURLERS
- DIE SETS
- ELECTRICAL CONTROL PANELS AND TRANSFORMERS
- END LINERS
- END PACKING STATIONS
- END PRESSES
- FILTERS - OIL & WATER
- FLANGERS (SPIN AND DIE)
- FOOD PROCESSING
- EQUIPMENT
- FORKLIFTS / VEHICLES
- INSIDE SPRAYERS (360 DEGREES COATING)
- MACHINE SHOP EQUIPMENT & ACCESSORIES
- MAGNETIC ELEVATORS
- MISCELLANEOUS CANMAKING
- NECKERS (2 PIECE, 3 PIECE, NECKER FLANGERS)
- OVENS-IBO & SHEET CURING
- PALLETIZERS / DEPALLETIZERS
- PARTERS
- PRINTING EQUIPMENT
- PUMPS / COMPRESSORS (VACUUM, H2O, AIR)
- QUALITY CONTROL EQUIPMENT
- ROTOFEEDS & MEF
- SCISSOR LIFTS
- SCROLL SHEARS
- SEAMERS
- SHEET AND END HANDLING
- SHEET FEEDER
- SHEET STACKERS
- SIDSEAM STRIPE SYSTEMS
- SLITTERS (SINGLE AND DUPLEX)
- STRAPPERS / BANDERS/WRAPPERS (STRETCH)
- STRIP STACKERS
- TANKS/CONTAINERS/PRESSURE POTS
- TRIMMERS
- UNCOILERS/UPENDERS/COIL CARS
- WASHERS-TWO PIECE CAN
- WATER CHILLERS/ COOLING EQUIPMENT
- MISCELLANEOUS PARTS

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Let **CFM** turn your used can making machinery into cash!

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WORLD'S LARGEST SUPPLIER OF QUALITY USED CAN MAKING EQUIPMENT

CONTAINER FABRICATION MACHINERY

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Key Personnel

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President

Paul Kliss
Vice President/
Asset Management

Bruce Glasper
Inventory Manager

Timothy Gray
Shop Manager

Julie Marquez
Office Manager

Visit our new website at:

www.canmaking.net

And see our interactive display of various American and European 2 & 3 piece can making equipment ranging from uncoilers, cuppers, body makers, printers, ovens, shell presses, coating and printing lines, slitters, welders, curing ovens, flangers, beadlers, seamers, palletizers, end making (scroll shears, presses, shells, EOE conversions), plant support, machine shop and many, many more...



Company Description

CONTAINER FABRICATION MACHINERY has the world's largest inventory of quality used can manufacturing equipment under one roof.

Gary Alexander and Paul Kliss, the company's president and vice president, have experience in every aspect of the can making industry and work with many of the world's largest can makers.

Products and Services

Our new facility in Stockton, California USA features an enormous indoor showroom stocked with a vast array of makes and models...

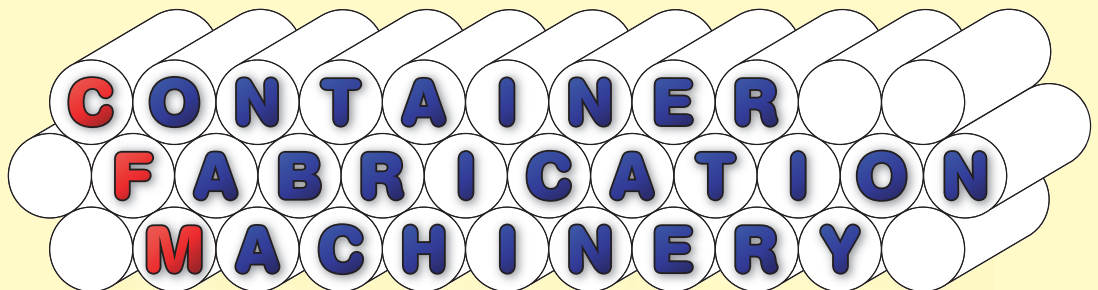
We are your one stop resource to the can making industry with a full line of services:

- Asset Management Programs
- Asset Recovery Programs
- Plant Liquidation Services
- Plant Auction Services
- ASA Certified Equipment Appraisals
- Complete Rebuilding Facilities
- General Plant Support Equipment

CFM buys and sells all types, models and makes of used can making equipment including plant support equipment.

Contact **CONTAINER FABRICATION MACHINERY** to turn your surplus and idle equipment into cash!

WE BUY USED CAN MAKING EQUIPMENT!



WWW.CANMAKING.NET



CMC-KUHNKE

Company Description

CMC-KUHNKE provides gauges and testers for canmaking and filling. Family owned and operated, CMC-KUHNKE is a progressive company, striving to stay on the leading edge of container manufacturing. Through customer-driven software and hardware improvements, CMC-KUHNKE continues to provide state-of-the-art gauges, testers and other metrology systems for process improvement.

Recent developments

The SEAMscan XTS - X-ray Tightness Scanner is a new, non-destructive tool for operator independent double seam tightness measurement. Designed specifically for can makers and brand owners, SEAMscan XTS delivers a high-resolution X-ray seam scope and a powerful automatic wrinkle inspection system, in a compact and user-friendly package.

Go Non-Destructive and Save Thousands



The XTS can save can makers and brand-owners hundreds of thousands of dollars each year simply by reducing product spoilage caused by traditional, destructive Double Seam Inspection methods. 100% of the Double Seam is inspected for Cover Hook Wrinkle (Seam Tightness) and dimensional measurements are collected while preserving the can for sale.

The XTS achieves this while still utilizing a method directly comparable to FDA accepted visual double seam measurement. Designed specifically for manufacturing environments, the SEAMscan XTS - X-ray Tightness Scanner is a complete Double Seam measurement tool. Take the guess-work out of Double Seam Evaluation, while reducing can seam inspection costs.

SEAMscan XTS* Series Measurements

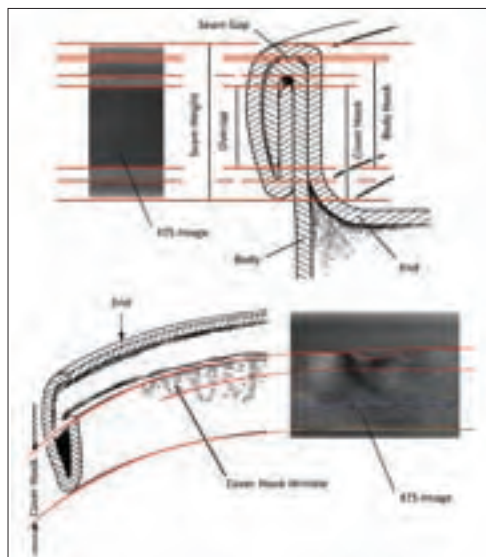
All measurements are non-destructive, resulting in no product spoilage as found with destructive teardown inspection.



Measurements:

- Seam Height
- Body Hook
- Cover Hook
- Overlap
- Seam Gap
- % Tightness
- % Primary Sealing Area
- Wrinkle Amplitude

360° Scan for Wrinkles: % Tightness and Amplitude. Assessment of inspection results by Operator / Supervisor.



No More Double Seam Teardowns

For the first time, operators no longer need to tear down can seams in order to see Cover Hook wrinkles. The SEAMscan XTS - X-ray Tightness Scanner* automatically scans 100% of the Cover Hook for wrinkles, measures, and reports an objective Seam Tightness value. Using patent pending technology, the XTS - X-ray Tightness Scanner's operator independent algorithm uses low-power, non-destructive X-rays to look deep inside the Double Seam.

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CMC-KUHNKE, GmbH

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Stop Rating Tightness -

Start Measuring Wrinkles

Human error is a thing of the past - at least where Double Seam Inspection is concerned. The X-ray Tightness Scanner measures the Double Seam dimensions and then uses a unique, patent pending process to actually measure the amount of Wrinkle inside the Double Seam. Cover Hook Wrinkle measurements are then automatically transferred to a computer database where real-time trend analysis may be performed.

Carefully calibrated X-rays pass through the Double Seam revealing subtle variation in Cover Hook formation. Computer algorithms then analyse any anomalies in the seam and objectively determine if the hermetic seal could be affected. Results may be displayed as standard % Tightness, and/or in new ways like % Primary Sealing Area and Average % Tightness. Since the system performs a virtual tear down of the Double Seam, we can actually see how the seam characteristics interact with each other, and new never-before-possible comparisons may be made.

Technical Innovation

As part of our commitment to measurement excellence, in April of 2012 the CMC-KUHNKE Technical Center opened in Albany, New York. In addition to providing training on CMC-KUHNKE equipment and testing customer samples, a SEAMscan XTS unit is available onsite for both customer testing and demonstrations. For more information, please contact us at +1 518-694-3310 or sales@cmc-kuhnke.com

Asia Can Awards 2012

The prestigious Asia Can Awards (past winners include Swan Industries, ORG, Kian Joo, Crown Asia Pacific) will be presented at the Gala Dinner on 30 October. Entry is free of charge and you can enter as many categories as you like.

The awards are open to all can and end makers that are based or distribute their products in Asia. To enter, please complete the application form (or complete it online at www.asia-can.com) and send your cans to the address below.



Join past winners from Thailand, China, Malaysia, Philippines, Hong Kong and across Asia.



ASIA CAN AWARDS 2012

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 with a brief description of the entry and the reason why you think it's a winner.

Family Name: Mr / Mrs / Ms / Dr. _____

First / Given Name: _____

Email: _____

Job Title: _____

Company Name: _____

Address: _____

Postal / Zip Code: _____ Country _____

Tel: _____

Send your sample can/s or ends to:

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



Heilbronn

Company Description

HEILBRONN Container Presses offers a wide range of innovative technology for the packaging and the pharmaceutical industry worldwide.

Based on comprehensive expertise and many years of experience in these areas, we develop individualised solutions for mechanical presses – exactly meeting our customers requirements. From the first consultation and engineering as well as assembly and line set-up up to a worldwide after sales service.

We never just present the first solution that comes along but always the one solution that suits you best. A solution that lets you produce more effective, efficient and therefore more economical.

Knowledge

Inventiveness, progressive, experience as well as expert knowledge makes us a valued partner for our worldwide customers.

We are not only delivering "commodities" but customer individualised solutions – based on a comprehensive and modular design kit.

Most important to us – besides reliable products and satisfied customers – are innovative technical solutions that lead to an increase in productivity in



Cupping Line from HEILBRONN Container Presses

our customers plant. Our goal is to become your partner in optimizing your production process. A partnership that is beneficial for all of us – focused on trustworthy working together on your important issues.

Products

Tailor made solutions for all requirements.

For your success, we offer all kinds of different machines for the production of cups and ends. Be it for beverage, food or general applications – from single machines up to complete cupping /DRD systems from one single source – including cupping presses, downenders, coil cars, decoilers, servo feeding units, innovative lubrication systems and cupping die sets. When using our complete lines you can be certain that all components of your production line are ideally matched.

In addition we also offer shell / end systems for the production of EOE – for high or low volume applications. Again, be it single machines or turnkey lines in co-operation with our partners.

History

For more than 30 years, we have been manufacturing presses and additional equipment for the packaging industry.

Our solutions have been constantly improved since then so that we can offer state-of-the-art technology with regard to reliability and productivity.

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Web: www.henko.com

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E-mail: sales@ecc-asia.com
Web: www.ecc-asia.com

Single Action Presses
Double Action Presses
Shell Presses
Conversion Presses
Decoiling Equipment
Cupping Lines
DRD Lines
General Lines
Press / Line Retrofit
PLC Control Systems

Shell Line from
HEILBRONN Container
Presses



Choose Henkel

For Sustainable Solutions

Henkel offers an extensive portfolio of environmentally sustainable products to lower energy usage, reduce chemical consumption and enhance front-end performance. Solutions include:

- Lubricants
- Cleaners
- Conversion Coatings
- Mobility Enhancers
- Process Control Systems
- Application Equipment

Backed by innovative technologies and technical support, it's no surprise that customers around the world look to Henkel for sustainable process solutions.

For more information, contact 866.332.7024 or visit:

www.henkelna.com/metals



Excellence is our Passion



Company Description

Henkel is the leading worldwide supplier of can making lubricants and cleaners to the two-piece can industry. Henkel has a proven track record of delivering new and innovative technologies to keep pace with can makers changing needs for improved efficiency, longer tool life, and more environmentally friendly processes. Henkel has experienced sales representatives located around the world to provide first-class products, service and technical expertise to the global can making industry.

Products

Henkel offers a wide range of lubricants, cleaners, sealants, and control equipment used in the process of manufacturing aluminium and steel cans for the beverage, food, aerosol, and general packaging industry.

- Post Lubricants
- Copper Lubricants
- Bodymaker Coolants
- Acid and Alkaline Cleaners
- Mobility Enhancers
- Maintenance Cleaners & Additives
- Can End Sealants
- Process Control Equipment

Recent Developments

Henkel has launched several new technologies for the metal packaging industry:

DTI® 9800 Post Lubricant: DTI® 9800 Post Lubricant is a key part of Henkel's integrated lubricant program and is formulated around the successful DTI® SNL-series cup lubricants. DTI® 9800 enhances cup lubricant performance for greater latitude in cup/can forming, extended tool life, and reduced bleed-through on finished cans. Field experience has shown enhanced productivity and low tear off rates, improved tool usage, and excellent can cosmetics.

Ridoline® 700-Series Cleaners: Henkel is continuing to develop our cleaner product line and is starting to rollout the Ridoline® 700-series cleaners, which employ an optimized surfactant technology and enhanced brightener which enables etching of the can with further reduction of hydrofluoric acid from the cleaner system.

ME-70 Mobility Enhancer for Beverage Cans: ME-70 is a new final rinse mobility enhancer for Europe, Middle East and Asia, which has improved features over standard mobility enhancers. ME-70 provides lower slip angles over conversion coating, and better water drainage properties. With these improved features, customers benefit from faster line speeds and fewer deco trips, as well as energy reduction from lower oven temperatures. Furthermore, ME-70 is formulated with environmentally-friendly raw materials and is REACH compliant.



US headquarters and R&D facility in Madison Heights, MI.

Henkel

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Andrew Hatch

Global Marketing Manager

Emily Mullins

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Bill Simmons

Sales Manager – South America

Anderson Guerrero

Sales Manager – Europe

Aziz Mabrouki

Sales Manager – Asia Pacific

Gao Bing



International Container Supply, Inc

"Quality and Reliability"

ICS is a worldwide supplier of precision tooling and spare parts for: Conversion Systems, Cupping Systems, Body Makers, Liners & Shell Systems.

100% Inspection
Expedited Deliveries!



Insert Score



Insert Score



Can Tooling



Tab Tooling

7333 Paragon Rd, Suite 100 Dayton OH 45459 USA
Email: customerservice@icstrading.net

Tel: 937-291-0228/
www.icscangroup.com



International Container Supply, Inc

"Quality and Reliability"

Company Description

International Container Supply, Inc is located in Dayton Ohio, USA. The company's equipment division provides turnkey installations for can and end manufacturing.

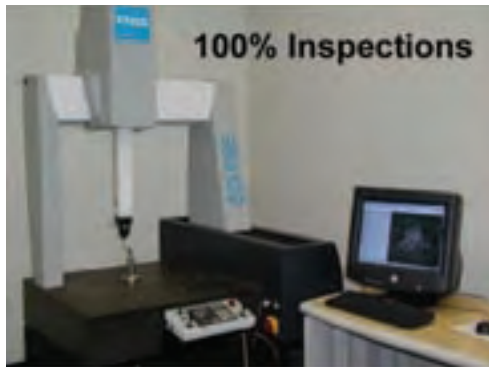
ICS dedicated engineering and technical service support ensures that its customers are provided with continued technical assistance and production efficiency improvements. The vast experience of ICS service professionals allows its customers to benefit by providing them with trouble shooting and consulting advice that allows them to reduce costs and maximise their production efficiency.

The company treats and views all customers as a long term commitment in supporting them to achieve their efficiency and production goals through continuous process improvement programs. Cost reduction programs through down-gauging metal, and maximising available coil and sheet widths help to improve the percentage of metal usage and reduce scrap.

ICS aims to eliminate process time and achieve the key goal of reducing the cost per 1,000 cans or ends, through improved metal economics and process improvement cost reductions.

ICS Tooling and Spare Parts Division

ICS precision tooling and spare parts division provides its customers with the quality and reliability required to ensure top production efficiencies at an affordable cost. The company provides complete dies and tooling for shell systems, cupping systems and conversion systems.



ICS also rebuilds existing cupping die, conversion and tab dies. The company offers a revolving rework service for can tooling such as punch sleeves, draw pads, and other can and cupping tools allowing its customers to maximise their tooling life.

All tooling is 100% inspected and certified. The company's investments in state of the art inspection equipment and its dedicated quality control team ensures and certifies that all tooling meets the perfection required of our industry. ICS has a fast turnaround, expediting program to assist its customers when fast deliveries are required.

The experience of ICS technical service department gives their customers the support and advice required to reduce down time and improve production efficiencies. Please contact ICS closest regional service team for any questions or requirements you might have.

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ibea

ibea

Ibea

Image Processing Systems

Pressure Inspection Systems

Vacuum Inspection Systems

Light Leak Tester

Automation/Handling

Ibea

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Service and Support

Twenty-four hour support and spare parts service go without saying. We operate globally, with our head office in Hamburg and sales agents throughout Germany, Europe, USA, China, Singapore and the Philippines guaranteeing quick response times and local resources. Another important development goal is to keep high customer satisfaction a constant. User software that is clear and easy to learn helps us in achieving this goal. After a short training course that is provided by ibea instructors, operators and machines are ready for use. Our systems work mostly at a self-learning pace and are therefore supportive to users when adapting them to their own product specifications. Above all, changes and extensions can be developed flexibly and quickly.

About the Company

Ibea was founded in 1991 with the goal of designing and developing, producing and integrating industrial image processing systems.

In addition to branch orientated optical measurement methods, other test systems, such as pressure or vacuum-measurement systems have been designed. Modern technologies such as thermographic measurement, including corresponding software, keep ibea competitive in this high-tech sector of test and inspection systems.

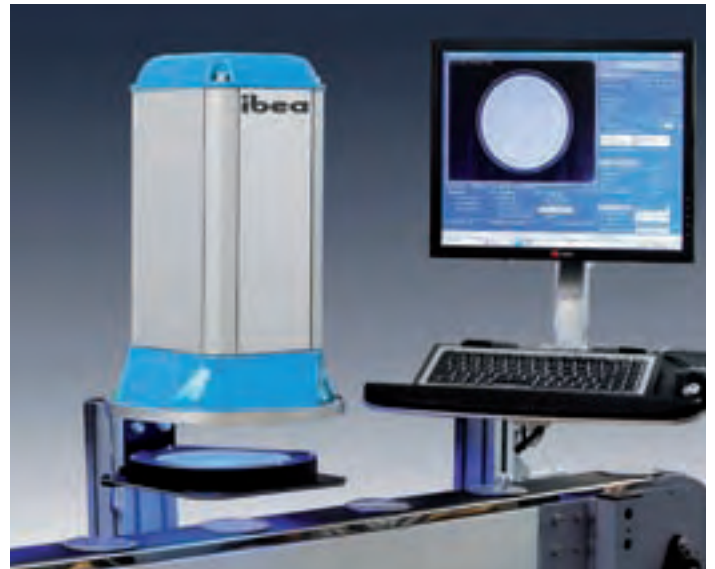
ibea has developed a unique discipline for making quality visual inspection systems in the metal packaging sector. ibea started out with optical inspection of industrially manufactured metal packaging and can call itself one of the leading system developers of standard inspection systems for this sector. We are building systems that help you to inspect your product quality.

Our clients' standards have always been – and still are – superior. ibea's entire equipment line satisfies these demands and we are proud to have made a name for ourselves worldwide for the following reasons:

- Surveillance of your product quality
- Optimisation of your production processes
- Highest system performance
- Easy operation and without maintenance effort
- Leader in technological development and durability.

Long lasting experience forms the basis of ibea know-how. It developed out of an extensive and diverse client requirement pool, plus a variety of installed systems – starting with smaller sizes and continuing up to complete industry installations.

We would be pleased to consult with you on your production planning, enhancements to your materials handling equipment, and optimizing your production processes.



ibea Ultra Compact ViS

The simplified generation of inspection systems for canmakers

Integrated PC inside the Imager!
No E-Rack needed, simple Plug & Play.

- Single lane inspection system for all round canmaker products (ends, easy open ends, easy peelable ends, shells, crowns, 2/3-pcs cans, tuna cans, closures or similar products)
- No restrictions compared to ViS-3 or ViS-4 (full speed and performance)
- Fully operational during inspection
- Full remote control via Intranet or Internet
- For parts up to 190 mm in diameter or 80 x 80 mm, height up to 200 mm
- Clockrate up to 3,000 parts per minute
- Up to 4 cameras (simultaneous picture grabbing)
- B&W or color cameras with up to 2x2 MPix
- Integrated modular color or white flashlight
- Build-in PLC & Power Down Box (3 rejectors per system, reject surveillance, mass error, system error, etc.)
- Easy-to-handle user software, more than 15 years of experience in packaging products
- Software with Indicator Browser for relaxing setups

DEVELOPMENT · INSTALLATION · INTEGRATION OF TEST AND INSPECTION SYSTEMS

Tel.: +49 +40 68 98 87-0
Fax: +49 +40 68 98 87-29
info@ibea.de
www.ibea.de

ibea[®]
we keep an eye on your quality

imeta

Imeta

Company Description

IMETA has been designing and producing chucks and rolls, upgrading kits and spare parts for seamers since 1964. The company's products for can making and canning industries are the result of in depth studies calling on extensive data banks of 1,800 seaming profiles. Imeta has an operating structure that brings together the passion for detail, typical and emblematic of the craftsman culture, and the technological element of an industrial concern.

Facilities

IMETA's headquarters and manufacturing facilities are located in Parma, Italy. Technical skilled agents are available worldwide.

Company News and Statistics

Founded in 1964, IMETA has about 60 employees and has been ISO 9002 certified since 1999.

Products

Production of chucks and rolls, spare parts and change parts for any brand of seamer. Engineering and production of upgrading kits for seamers: special cover feeders, gear driven lower lifters, inverter kit, end downstakers and much more. Manufacturing of tools for can and cover production: curling disks and sectors, beading sector and roller, spin-flangers, dies

for open top ends. Overhauling and trade of second-hand seamers and any can making machines.

Recent Developments

Following the great success of the Single Screw Cover Feeder for Angelus 40P, 69P and 29P, IMETA has developed a similar Feeder for the Angelus 50P model. As in the modern seamers, separating the covers is made by a revolving screw that will replace the two Parting Knives. Thanks to a very simple system with inclined surface, whenever there is a difference in cover curl thickness, the blade can be adjusted using a screwdriver.

The project is extremely simple, allowing you to dramatically reduce time and maintenance costs. With this conversion you will remove all the parts connected to the Cap Feed Crank, Links, and Centre Pusher, since the covers will drop down directly in front of the Cap Fingers. The group is optionally connected to an electro-pneumatic "No Can - No Cover" device which stops cover feeding, in a fraction of a second, if the next can is missing. This optional device will allow the removal of the NC-NC Knee Rod, the NC-NC Drive Hub and all connected accessories. This Cover Feeder is available for 50P, 53P, 59P, 58P models.

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Sales Manager

Roberto Baroni

Technical Manager

Gino Arturi

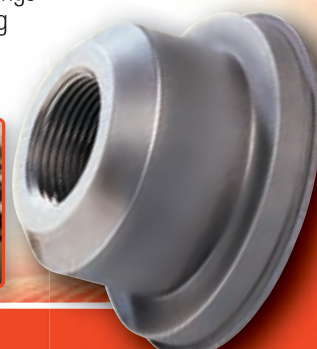


SEAMING CHUCKS AND ROLLS

Imeta offers chucks and rolls for any seamer made from different base materials:

- Stainless Steel AISI 440 for general application in canning;
- Tool Steel AISI D2 for general application in can making;
- High impact resistance Steel for E.O. weak lip chucks;
- Stoody Metal (Chrome & Cobalt alloy);
- Sintered Steel, Ceramic and Hard Metal.

To improve characteristics, Chucks and Rolls can be treated with surface coatings, such as Titanium coating and Chromium plating. Imeta customer service carries out seaming trials in laboratory, searching through a data base of over 1500 profiles. As an optional service, Imeta can provide rolls already assembled with the corresponding pins and bearings, set and lubricated, ready to be mounted. Ceramic Ball Bearings are available for many seaming rolls, including Shim-free assemblies for the Angelus P models.



InnoScan



InnoScan K/S

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Key Personnel

Manager, Inspection Systems
Gerf Nielsen

Company Description

InnoScan K/S, founded in 1988, specialises in dedicated inspection systems for easy-open ends and DRD cans for the can making industry as well as high-tech inspection systems for automatic quality control for pharmaceutical vials and ampoules.

Facilities

From its headquarters with offices, laboratories, production and assembly facilities covering an area of 1700 sq m, InnoScan handles in-house multi-disciplinary development and design of mechanics, optics, lightning, electronic hardware, and software under strict Quality Control.

Products

The company's main products for the can industry are optical leak detection systems. The OptoScan 5000 for on-press EO-end testing. The self-indexing stackable OptoScan 7000 modules for DRD cans

and the OptoScan 6000 for direct clamping to a DRD press outlet.

Recent Developments & Services

NEW! OptoScan 8500 end inspection system for both interior and exterior surfaces has been installed in Asia. The system inspects for defects in: compound, curl, perimeter, surface, tab and rivet. The system is designed for extended lifetimes at elevated temperatures and has no fans and no rotating HDs. One operator panel is networked with multiple inspection modules.

Improved sensitivity of 2µm on full panel and 1µm in rivet area – guaranteed, is offered with the most recent OptoScan 5000 EOE leak detection system. InnoScan provides full engineering support including installation, commissioning and running in. Standard products are customer adapted as required.

Leak & Surface Inspection

OptoScan 5000 EOE Inspection



- Does not rely on total darkness on the EO-end
- Highest sensitivity: 1µm/rivet, 2µm/panel
- Ejector built into downstream conveyor
- Fits directly on conversion press
- Low false reject rate: 1 in 10⁶
- High speed 800 st/min.

OptoScan 7000 Can Inspection



- Operates at press speed
- High sensitivity 5/50µm hole
- Any number of parallel lanes
- Does not rely on wear prone seals
- Automatic rejection of leaking cans
- Accepts cans directly from conveyor

OptoScan 8500 Surface Inspection



- Compound, curl, surface, perimeter, rivet, tab inspection
- Large diameters to 130mm
- Single operator panel for multiple networked inspection modules
- No fans - no rotating HD
- High temperature operation
- Low false reject rate





Intercan Group

Company Formation

Intercan is a privately owned company based in Milton Keynes, UK. Founded in 1986 by Managing Director, Peter Strode, Intercan specialises in supplies to the beverage can making industry and particularly on improving and upgrading equipment and systems. Intercan gained ISO9002 quality certification in 1995.

Products

From the early days of supplying replacement parts for decorators, Intercan has gone on to upgrade and develop components and systems for improving print quality and speed, through to supplying complete decorator machines.

Intercan works closely with a number of leading USA based companies developing and distributing their leading edge products to the can industry worldwide. Recently celebrating the sale of its 30th IPP8 Print Proofing Machine. Intercan has become the industry standard for off-line proofing and label development. Reconditioned Rutherford Decorators and Basecoaters are available.

The new Sovereign Advantage eight colour decorator is state of the art and will set the standard for the next 10 years of beverage can decorating.

The Sovereign Advantage programme is forging ahead with the licensing agreement that Intercan have with CMB Engineering and we look forward to further co-operation and development in this area.



The Future

Intercan is always working on new ideas to improve the efficiency and quality of beverage can decorating equipment.

If you print cans WATCH THIS SPACE.

YOUR CHOICE For 2-piece can decorating



Intercan Products and Services

NOT JUST SPARE PARTS

With over 26 years experience Intercan are able to offer a full service and technical package to work with can makers to upgrade and improve their printing and coating equipment and processes.

IPP8 PRINT PROOFING MACHINE

8 colour offline printing machine for two-piece cans including aerosols and tubes.

PRINTING CYLINDERS

Clamp and magnetic type for all cylindrically printed cans, tubes etc. Quick change, high precision cylinders available.

SPINDLE DISC ASSEMBLIES

For Rutherford decorators and basecoaters; new and service exchange, reconditioned units, all types; CMP, CD2, vertical tracking, air and vacuum hose, linear bearing, mandrel trip and mandrel trip with linear bearing.

SPARE PARTS FOR RUTHERFORD MACHINES

An extensive range of replacement parts for decorators and base coaters.

SERVICE, MAINTENANCE AND TRAINING

Specialising in Rutherford machines but with experience on many other printers. Routine maintenance, major overhauls/upgrades.

CERAMIC LASER ENGRAVED ROLLERS

New and exchange rollers for many machines. Particularly Rutherford and Concord decorator over varnish rollers and base oater rollers. All rollers to customer specific requirements.

SOVEREIGN 8 COLOUR ADVANTAGE DECORATOR

In partnership with CMB Engineering.

BESPOKE CAN PRINTING MACHINES

Working with customers we can design, modify or develop printing equipment to satisfy particular requirements.

MADE IN UNITED KINGDOM

The major part of all our products is UK designed and manufactured.

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Marion Dumbleton

Warehouse and Logistics Manager

Peter Hughes

Senior Technical Engineer

Darren Wiggins

Service Engineer

Matt Roberts

Personnel Manager

Charlotte Silverthorn

Customer Liaison

Lorraine Jagger

INX International Ink Co



INX International Ink Co

Metal Decorating Division

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VP International Division

Jonathan Ellaby

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Company Description

INX International Ink Co is the third largest producer of ink and coatings in North America and a global supplier as part of Sakata INX worldwide operations. We are the industry leader in metal decorating ink technology and offer a full line of inks and coatings for packaging, commercial and digital print applications.

Our products include metal decorating, flexographic, gravure, heatset, no-heat commercial, lamination, corrugated, sheetfed and UV/EB inks as well as UV/EB and aqueous coatings.

Company Statistics

- World's leading producer of metal decorating inks
- Industry leader in water-based flexographic inks
- ISO certification
- Headquartered in Schaumburg, Illinois, INX has over 20 facilities worldwide.

Products

- AP No-Var two-piece metal decorating inks
- AP LoVOC two-piece metal decorating inks
- AP Tactile two-piece metal decorating inks

- AP Fluorescent two-piece metal decorating inks
- AP Phosphorescent two-piece metal decorating inks
- INXCure TP ITX-free UV inks for two-piece food cans
- AP Retort two-piece metal decorating inks

Recent Developments

- AP Poly NoVar II next generation, non-varnishable two-piece ink system
- TP UV Fusion Hybrid ink system for flatsheet metal applications which require low migration (LM) and low odour
- INXPlus TP Thermal Cure (formerly TP LEC) thermoset ink system for flatsheet metal applications, film flexibility and low temperature cure
- MD UV Flatbed printer series, the first short run digital production solution for flatsheet and three-piece metal decorations
- CP100 UV digital cylindrical printer for short-run production of two-piece cans and bottles.

FLAT OR ROUND – THE DIGITALLY ADVANCED WAY TO DECORATE METAL.



MD SERIES FLATBED PRINTER

- Best in Class Performance
- Photographic Image Quality over 1200 dpi
- High Performance Speed up to 220 ft² per Hour
- Short-run Excellence for Metal & More

From early entry to advanced solutions, evolve with INX Digital consultation, technology and inks for digitally superior results.
inxevolve.com



CP100 CYLINDRICAL PRINTER

- Best in Class Image Quality
- UV LED Advanced Technology
- Produce Cylindrical Packaging in Seconds
- XAAR Patented Through-Flow Technology™
- Short-run Excellence for Cans, Bottles, Thermoses, Anything On-the-round

evolve
Advanced Digital Solutions



INX
DIGITAL



Company Description

IST METZ develops, produces and sells UV systems for the environmentally friendly curing and drying of solvent-free inks, varnishes, silicones and adhesives. UV systems from IST METZ are used in the printing industry as well as in many other industries.

The UV system's core components are all made in Germany: IST METZ develops and manufactures the reflectors, UV lamps, lamp housings and electronic power supplies inhouse and thereby guarantees consistently high quality.

Facilities

The IST METZ Group was founded in 1977 and is based in Nürtingen, Germany. Its worldwide sales and services network ensures local support.

With the UV Transfer Center (UVTC), the contact between manufacturers, users and industry partners has been further intensified. The UVTC is equipped with state-of-the-art printing and laboratory technology and supports newcomers to UV and experienced UV users alike with ideas and

expert knowledge, underlining the company's long-standing philosophy of offering "more than UV."

Recent Developments

The newest UV system for can makers is the BLK-6. A whole series of innovations that facilitate a high standard of efficiency are hidden behind the modern housing design, eg the new UV online sensor which is directly integrated into the surface of the reflector and measures the UV radiation efficiency before showing it in the operating display. Components such as the URS reflectors, the ELC electronic power supply device or the proven FLC quick-change lamp concept also play an important role in the performance of the UV system. When compared to conventional UV systems, extraordinary progress has been made in drying performance without any increase in UV lamp output. This means greater productivity with reduced operating costs. The BLK-6 carries the "energy-minimised UV printing" label, awarded by independent German trade association BG ETEM.

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The new UV system

BLK[®]-6

**Efficient.
Innovative.
User-friendly.**



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more³



INTERNATIONAL THERMAL SYSTEMS



Cleaning and Heat Processing Technology for the Metal Packaging Industry.

Partner with ITS for your cleaning, drying and curing needs.

Contact a representative today to arrange for an on-site consultation to learn how we can maximize production efficiencies and minimize energy consumption.

www.itsllcusa.com

[email: sales@itsllcusa.com](mailto:sales@itsllcusa.com)

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International Thermal Systems



Company Description

International Thermal Systems (ITS) is a global original equipment manufacturer of industrial process ovens, furnaces, washers and associated material handling equipment for applications in automotive, aerospace, power generation, battery manufacturing, building products, foundry and metal packaging industries.

The ITS core foundation lies in the design, manufacture, upgrade or retrofit of an integrated heat processing system. Equipped with proprietary technologies, ITS works with the customer, to meet precise requirements while maximising productivity and providing cost-effective space and energy conserving solutions.

The ITS team is honoured to have been awarded patents for ingenuity in process dryers, air flow circulation and product transfer applications. In a few cases, ITS equipment has revolutionised the entire industry heat processing methodology.

ITS was established with the merging of three well-known and well respected names in the heat processing, finishing and metal decorating industries; Industrial Heat Enterprises International (IHEI), Oven Systems Incorporated (OSI), and LTG Technologies, Inc.

Metal Packaging Equipment Division

Recognised for innovative technology. ITS installs a host of ovens, dryers, washers, thermal and thermal-regenerative exhaust air purification systems, catalytic exhaust air purification systems and secondary heat recovery systems specifically for the metal packaging industry.

ITS Can Washers Will Not Let Your Profits Leak Down the Drain

Precious chemical resources are recovered and re-used with our exclusive Belt Vacuum System. Roof mounted doors allow access to entire length of interior washer chamber so maintenance time and cost are lessened. Spray risers designed with ITS patented quarter-turn quick disconnects with full guide rails for easy maintenance and ensures operator safety.

The World's Most Popular Pin Oven

The patented Sigma Six is designed to produce product faster and more efficiently than any other Pin Oven on the market today. The design incorporates 60% fewer chain passes with 30% reduction in fuel consumption than a conventional pin oven and 2400 can per minute capacity without damage to can production.

We Stand Behind Our Convections

Internal Bake Ovens (IBO) utilises ITS air flow control above and below the tin line resulting in greater can stability and increased can output. Automated and manually adjusted supply duct systems available to accommodate various can heights. Boasts reduced energy consumption through the use of synthetic conveyor belt technology with 100% metal fine elimination.



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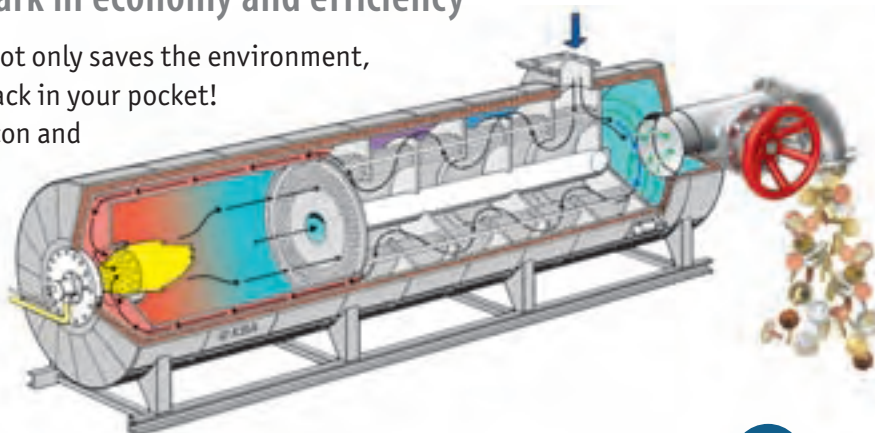


HighEcon and EcoTNV

The new benchmark in economy and efficiency

An investment which not only saves the environment, but also puts money back in your pocket!

KBA-MetalPrint HighEcon and EcoTNV air purification systems for the metal decorating industry.



Make the can
"greener"
and save your
money.

**For more information
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KBA

KBA-MetalPrint GmbH



Company Profile

KBA-MetalPrint is the technology leader in metal decorating and your experienced partner for multi-colour printing and coating lines and advanced drying technology for metal sheets and two-piece cans. The name KBA-MetalPrint stands for quality, innovation and continual technical development. We offer individual solutions tailored to the specific needs of each customer.

KBA-MetalPrint has its headquarters in Stuttgart and is a member of the KBA group, being one of the leading printing press manufacturers in the world.



Sustainable and innovative solutions for metal decorating

Resource saving - super light gauge 0.100mm

Energy saving - HighEcon technology saves the environment and puts money back in your pocket

Waste prevention - Intelligent sheet handling solutions

Time efficiency - Innovative changeover technology

Product range

- **MetalStar PR** continuous grip, multicolour printing presses with speeds up to 10,000 sph, available with two to 10 colours.



- **Mailänder 222** printing presses, robust - fast - reliable, with speeds up to 7,000 sph. Proven quality, robust design, outstanding reliability even with thick sheets up to 0.5 mm.
- **MetalCoat 470** and **480** coating machines for excellent coating quality.
- **HighEcon** energy efficient drying ovens, based on the successful ECO-TNV module with energy savings up to 70%.
- **BeltStar** and **PinStar**, two-piece drying ovens improve both curing quality and energy efficiency. Via advanced air flow technology it is possible to reduce the energy consumption by up to 25%.
- **UV curing systems**
- **Ovens for the drum industry**
- **Sheet management systems**
Stackers in modular design (single, double or triple box)
- **Pile turners**
- **KBA CleanAir** - exhaust air purification systems

KBA-MetalPrint Service

Four modules ensure maximum availability and production reliability:

Protect Spares: excellent line spare parts management

Protect Service: excellent line maintenance and servicing

E-retrofits: prevent downtimes due to aging electronics - safeguard production with our E-retrofits

Upgrades: optimisation of productivity and flexibility of the production line

Recent Developments

Downgauging to 0.100 mm on tin sheets

As part of the 'Technology Network', comprising ThyssenKrupp Rasselstein, Soudronic and KBA-MetalPrint, we help customers to reduce material costs. While KBA-MetalPrint printing and coating lines for 0.12mm tin sheets are already running successfully, we are now also offering technology to handle 0.100 mm tin sheets for our new printing and coating lines.

MetalCoat 480 - the new coating generation

Individual drives for lacquer head, coating cylinder and bottom cylinder provide maximum flexibility thus ensuring optimum and ultra-even lacquer application. Whether applying conventional coatings or UV varnishes, the new MetalCoat 480 is the ideal solution. Thanks to its reinforced bearings, it also supports use of a lacquer plate cylinder. The standard two cylinder lacquer head can also be replaced by a flexocoat system for optimum UV varnish application. New features especially designed to reduce changeover times make this currently the most efficient coater on the market.



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LITTELL

Scroll Sheeting Systems



*The Standard For
The Coil Processing
Metal Packaging Industry*

LITTELL, LLC
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Littell, LLC
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Littell, LLC

Company Description

Littell is the world leader in sheeting line systems. With over 300 systems installed worldwide, Littell's proven reliability of design together with factory supported service engineers, assures continuous and productive operation to the user.

Facilities

Littell's main factory is located in Schaumburg (near Chicago, Illinois, USA) with additional capabilities in Piqua, Ohio and Gaylord, Michigan. Our Representative Network has offices in the USA, Mexico, Europe, South America and the Far East.

Statistics

Founded in 1918, Littell employs a full staff of sales, engineering, aftermarket and manufacturing employees.

Products

With over 300 scroll lines installed worldwide, Littell sets the standard for the container industry in speed, accuracy, quality, and reliability. Supplying over 90% of the worldwide demand for this specialised equipment, our commitment to continual product development ensures process superiority and investment advantages for our customers. Recognised as the world leader in scroll sheeting systems, Littell continues to provide the industry with the latest in performance technology.

With speeds of up to 225 mpm providing output

ranging from 50-225 sheets per minute and the ability to handle coils weighing up to 13.6 metric tons, Littell's RSL-1, LM-1E & 2E and BR-4E & 5E models are designed to respond to the industry's demand for economical, high quality, continuous production.

Recent Developments

Littell is wholly owned by the Roberts family, based in Gaylord Michigan, which also owns Perfecto Industries.

Littell and Perfecto will be working together to focus on customer service and product offerings that meet the needs of the International markets they serve.

Littell's new precision straightener with small rolls and full length backups is now standard equipment on all new line shipments.

New non contact laser thickness gauge is now available as an option. This new device is a cost effective alternative to the typical contact gauge.

Services

- Supply of complete systems and auxiliary equipment
- Rebuild and upgrading of existing equipment
- Spare parts
- Line audits
- Installation and start-up services
- Customer training

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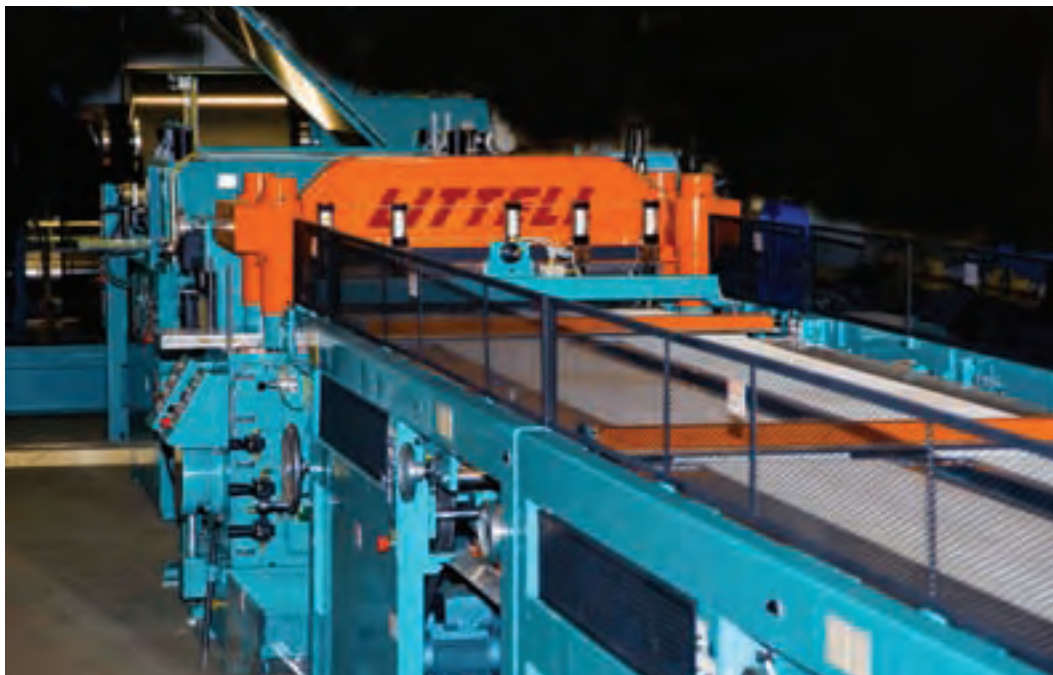
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Wallram Group

The WALLRAM Group is specialised in hard material applications offering products and service for different business areas.

Our main focus is on the metal packaging industry with the production sites of Wallram in Germany and Poland, LPT in the USA and LIZZINI (Precision Grinding Machines) in Italy.

A member of **ZK Holding**
Web: www.zk.de

The Company

LPT Lieb Precision Tools Inc started years ago as a specialist in providing ceramic tools and engineering for the metal container industry.

Today the recognised leader of ceramic necker tooling to the can industry worldwide, LPT also provides a full range of can tooling "from the front of the line to the back" using ceramic, carbide and tool steel.

To meet the increasing demand for our products, LPT is continuing to invest to increase capacity and product range.

The Benefit

We have the ability to provide your "Design til Implementation" needs. Our engineering staff has a unique knowledge that encompasses can manufacturing, tool design and material sciences.

This unique mixture of backgrounds allows us to do more than meet our customers' needs. It gives us

the ability to deliver performance that exceeds them!

Our Products and Service

LPT offers a full range of ceramic and carbide tooling for can making operations, including Necker, Bodymaker and Decorator tooling. We provide new and reworked and/or refurbished tooling to required quality standards.

We are an experienced technical resource to help find solutions to whatever problems our customers are experiencing. We troubleshoot not just tooling, but also quality, spoilage, productivity and cost problems.

We develop partnerships and processes to ensure the successful design of tooling systems. Through our dedicated employees and state of the art equipment, we guarantee the highest precision quality tooling to our customers.



WALLRAM GROUP
SOLUTIONS IN HARD MATERIALS

Can Tools & Engineering

... from Design to Implementation



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Company Description

Nordson Container Systems Group is a leader in providing complete system solutions for applying and curing adhesives, sealants, lubricants and coatings to two- and three-piece cans. Nordson also offers ultra-violet curing and induction drying systems.

Nordson Corporation is headquartered in Westlake, Ohio with manufacturing facilities throughout the world. Nordson is a global sales and service organisation with facilities for research and development, lab testing and technical support.

Products

- Advanced spray systems for two-piece and three-piece can lines include MEG® high speed spray guns, SPC fluid controls, iTrax® spray controller and process monitoring systems
- Specialised Dispensing Guns with fast, accurate material disposition
- High-performance Compound Gun
- Gun and Temperature Conditioning Unit (TCU)
- CleanSpray® system to clean airless spray nozzles automatically on line

- UV Curing systems for can manufacturing
- Powder coating equipment for metal tubes and cans
- Customised Lube systems to extend die life and greatly reduce amount of lube.

Recent Developments

- Integrated iTrax® system that combines spray monitoring, timing control and spray pressure control into one system
- iDry® Induction Compound Dryer for applying water-based end compounds at speeds up to 2,200 ends per minutes for aluminium beer and beverage ends. New Spin Speed Monitor function measures and monitors the rotational speed of each chuck on the spray machine
- CoolWave® 2 UV Rim Cure system for coating bottom rim of two-piece D&I cans for increased mobility and improved throughput
- ISC2 Induction Heating system for curing powder and liquid side-seam coatings on three-piece cans.



GREEN solutions for metal packaging.

Nordson offers a complete line of container coating and curing systems that can help you save money, improve productivity and meet ever-increasing environmental demands for sustainability.

From spray guns, controls and nozzles to induction curing ovens, our green solutions can provide savings of up to 15% in production costs through:

- Better quality
- Higher manufacturing efficiency
- Less downtime
- Lower coating material consumption
- Faster line speeds

What's more, continued innovation allows us to spray new types of coatings, creating solutions that meet industry needs now and in the future.

Going green is easy when you trust the precision dispensing experts – Nordson. Call our specialists today for an evaluation of your processes and a demonstration on how we can help improve them.

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