

ABA Packaging Corp.

We want to grow with you!

To complement our wide variety of stock and custom packaging products, we offer complete decorating capabilities including color spray and frost coatings, screen and hot-stamp printing, custom label development and applications, anodizing, metalizing, and in some cases, off-set printing.

We maintain a strong support network for design, regulatory, engineering, and secondary packaging assistance and we are happy to provide referrals and work in unison with these experts to develop the most effective packaging products for our clients.

We are always investigating and seeking the most innovative products, especially those that are the best for our environment.

Let's discuss the best ECO packaging options that we supply that will suit your needs.

Key Personnel

- Charles Marchese, Marketing and Sales
- Michael Warford, New Business Development
- Liana Marchese, Regional Sales
- Justin Stavracos, Regional Sales

Ask Us About!

Let us help you find the most effective, appealing, and Eco-Friendly packaging options for your products. Offering a wide variety of packaging products, we have packages that are the right fit for you.

Major Products

- Stock and custom glass fragrance and treatment bottles
- Stock and custom glass and plastic jar packages
- Custom lux aluminum bottles and cans (including threaded neck and crimp styles)
- Stock and custom threaded and snap-fit aluminum jar packages
- Stock and custom plastic bottles
- Custom plastic tubes (mono & multi-layer, ABL and Polyami)
- Stock and custom plastic, metal, and wood caps and closures
- Stock and custom fine mist, treatment and lotion pumps
- Stock and custom droppers
- Stock and custom rollerballs/roll-ons
- Stock sampler bottles and vials
- Stock German Quality cosmetic pencil sharpener

Specialized Services

Custom Decorating of the products we sell.
Design, Regulatory, and Technical Assistance.

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See our ad on page 19

Accra Pac India

Accra Pac Group USA, established 1967 in Elkhart, IN, went on to become the second largest contract packager for aerosol and liquid products in the US & Canada. It was a pioneer in the concept of total packaging having a cutting edge with innovative technology serving the major fortune 500 firms in the food, automotive, household, personal care & pharmaceutical industries.



Accra Pac India Pvt Ltd, established 1979 in Vapi, Gujarat, has emerged as an industry leader in contract manufacturing of consumer products. It has grown steadily throughout the years, earning the respect of customers and suppliers alike for its responsiveness, accessibility, technical knowledge, product quality and deliverance.

Services Provided

- Turn Key Solution
- Contract Packaging
- Custom Formulation
- Research & Development
- Sourcing of Raw and Packing materials
- Materials logistics
- Testing facilities, including analytical & microbiological laboratories
- Manufacturing
- Quality Assurance and Quality Control
- Product Deliverance
- Process and Product validation and stability verification services
- Warehousing and Distribution
- Customer service and Marketing
- Flame Proof Walk-In Stability Chambers for Aerosols



Key Personnel

- Muunna Shah: Managing Director, muunnashah@accrapacindia.net
- N Leeladhar: CFO, leeladhar@accrapacindia.net
- Sahil Shah: VP - Sales & Marketing, sahilshah@accrapacindia.net
- Toronez Hataria: Sr. Customer Service Manager, toronezhataria@accrapacindia.net

Highlights

- ISO 9001, 14001 and 18001 certified company from TUV Nord Germany
- GMP certified, ERP software
- SEDEX approved, comply with SA 8000 standards
- Comply with NFPA 30B Safety Standards US-EPA approved
- Exporting to USA since 2005
- Stability Testing
- BOV filling

Markets Served

- Personal Care
- Pharmaceutical OTC
- Ayurveda / Herbal
- Cosmetics & Toiletries
- Household
- Automotive
- Industrial
- Speciality Products

Sales office—USA:

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sshahusa@AccraPaIndia.net

Corporate Office—Mumbai

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Manufacturing Plant—Vapi

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Aerofil Technology

Since 1988, Aerofil Technology, Inc. has been focused on delivering extraordinary value for their customers' brands. For many companies, Aerofil has proven the most attractive option when a decision is made to exit the manufacturing side of the business and outsource the production of aerosol and liquid products. This is due to Aerofil's reputation of being the most responsive, collaborative, and operationally excellent independent contract filler in the North American market. As Aerofil moves forward, they plan to remain an independent aerosol filler and not own any brands that compete with their customers. All of their R&D and innovation efforts are conducted jointly with their customers.



The Aerofil campus in Sullivan, Missouri includes a 400,000 square foot manufacturing facility, surrounded by four 30,000 square foot warehouses.

The campus features:

- 8 aerosol filling lines.
- 4 liquid filling lines.
- 4 custom special packaging lines.
- 2,500 square-foot, state-of-the-art Technical Center featuring R&D, Analytical and Microbiology labs.
- A 180,000-gallon propellant tank farm containing DME, 152a, 134a, 1234ze, CO₂, Nitrogen, Hydrocarbons, and multiple blends. On-line labeling, shrink sleeving and bundling at high-speeds.
- Aluminum and steel can handling capabilities.
- 52-trailer drop lot that allows Aerofil to pre-load trailers so your drivers spend less time waiting, and more time on the road.

The Aerofil Leadership Team has the perfect blend of expertise in Lean Continuous Improvement and experience in the packaging industry. With more than 300 years of combined experience, they are not only recognized as experts within the industry, but are the guiding coalition of their Continuous Improvement philosophy.

Investing in Automation

At Aerofil, we're always looking towards the future, investing in technology and processes that further improve our production capabilities through increased efficiency, quality, automation, and flexibility, allowing us to set new standards in aerosol production. This state-of-the-art aerosol filling line allows Aerofil and our clients to mitigate unskilled labor shortages, while catering to an increasingly diverse consumer base, along with rising SKU counts and the need for shorter run sizes. Along with the capability to fill more than 200 cans per minute, Aerosol Line 8's rich flexibility enables us to run steel, aluminum, or plastic cans on the line [valve placers are capable of running steel or aluminum valves], and the dual fillers and gassers on the line allow for rapid changeover or mixing concentrates and formulations directly in the can. Aerosol Line 8's advanced automation allows the entire line, from the unloading of cans to loading pallets on a truck, to be completed with just 5 operators at a time, yet yield a higher-quality end product than ever before. With the advances Aerosol Line 8 brings to Aerofil's production pipeline, we look forward to enabling our customer's success through faster inventory turns, an even higher quality filling process, and the flexibility to handle products of all shapes, sizes, and formulations.



Markets Served

- Personal Care
- Household
- Automotive
- Industrial
- Insecticide

Services Provided

- Aerosol filling
- Liquid filling
- Full service Technical Center
- Technical resource support
- Lab testing

Key Sales Personnel

- Ed Freesmeier, VP of Commercial
efreesmeier@aerofil.com
- Ryan Montgomery, Director of Sales & Marketing
rmontgomery@aerofil.com
- Jan Coffman, Sales Manager
jcoffman@aerofil.com
- Jessica Berti, Sales & Marketing
jberti@aerofil.com

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Aptar Pharma

The Go-To Drug Delivery Expert

For pharma customers worldwide, Aptar Pharma is the go-to drug delivery expert, providing innovative drug delivery systems, components and active material science solutions across the widest range of delivery routes including nasal, pulmonary, ophthalmic, dermal and injectables.

From Spray to Aerosol – Innovative Solutions for the Broadest Range of Topical Applications

Aptar Pharma’s Bag-on-Valve Technology Platform – The widest range of continuous dispensing
Aptar Pharma’s BOV continuous dispensing technology delivers a clean, superior product application based on our best-in-class barrier function, customizable flow rates and optimized convenient handling for the users. Our BOV enables for the widest product range from nasal to dermal and it offers strong brand portfolios through versatile application formats.

With our latest nasal actuator innovations, Pacifica Soft and Pacifica Duo, we offer highly convenient and flexible actuator choice to cover patients’ and consumers’ needs from baby to senior.

PureHale® – The industry’s first portable nebulizer-like device for upper respiratory care

Aptar Pharma’s PureHale® Technology Platform is the industry’s first cordless, ready-to-use, nebulizer-like device. Its innovative technology distributes a continuous fine mist that gently cleanses, moisturizes and soothes the upper respiratory tract. When used in combination with saline or other natural ingredient formulations, PureHale® helps prevent or relieve symptoms of upper respiratory system conditions such as coughs, colds, allergies, dry nose and throat, and other irritations.

Classic Line – The proven multi-dose Spray Pump System

Aptar Pharma’s Classic Line offers outstanding modular options to realize the broadest ranges of applications for nasal, oral, dermal and otic drug delivery. Its diverse actuator families can also fit your specific formulation requirements, from higher viscosities to liquid gels to suspensions and solutions.

Our Classic Line Spray Pump offers functional features such as upside-down use, dose counting pumps or the Child Resistant Senior Friendly (CRSF) closure for nasal sprays. The wide variety of choices allows for brand differentiation for both prescription products as well as over-the-counter solutions.

APFPlus – The topical spray dispensing for your preservative free formulation

The Advanced Preservative FreePlus pump from Aptar Pharma constitutes an innovative spray dispensing system for topical applications that provide superior microbiological protection and stability for sensitive formulations using purely mechanical means and granting a metal-free fluid path for safest products.

Variable spray characteristics of APFPlus specifically support topical applications for analgesics, cough and cold, dermal drug delivery, eye care and wound care.



Aptar Pharma
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Ball Aerosol Packaging

From aluminum slugs to aerosol cans and versatile aluminum bottles... Ball Aerosol Packaging develops personal care, household and beverage packaging products for everyday life. Ball Aerosol Packaging is a leading supplier of impact extruded aluminum aerosol cans in North America, South America, Europe and Asia. Ball also supplies impact extruded aluminum bottles to suit a variety of beverage, personal care and household needs. By enhancing product stewardship and our social impact, we are creating value for our shareholders, people and the planet. Founded in 1880, Ball Corporation employs more than 21,500 people across the world.



Locations

Ball Aerosol Packaging has a global presence with manufacturing and innovation centers in North America, South America, Europe and Asia.

Product Innovation

From ideation and design processes, to delivering a final product to consumers, innovation makes Ball Aerosol Packaging a global leader in aluminum packaging. We partner closely with our customers to understand their needs and provide solutions for their brands. The aluminum aerosol cans and bottles provide a perfect, 360-degree design canvas which is ideal to achieve stand out on the shelf. Some of our newer innovations include Ball's proprietary Eyeris® technique. Eyeris high-definition printing helps to visualize graphics in extreme details, and to accurately depict colors and texture. With Eyeris, brands are able to engage the consumer through exciting and vibrant designs, bringing the consumer into the brand story with graphics that seem so real they captivate the imagination.



Sustainability Leadership

As a global leader, Ball is always working to push our industry towards a more sustainable future. With our innovative ReAL® platform, we are helping our customers leverage the sustainability credentials of aluminum packaging to profitably grow their businesses. Our pioneering, lightweighting ReAL technology redefines how aluminum aerosol cans are made. We are able to incorporate recycled content, and to reduce package weight by up to 30% while retaining strength and structure, to achieve a significant CO2 footprint reduction. Because aluminum is a permanent material, it can be recycled endlessly, without any loss of quality. With 75% of aluminum ever produced still in use today around the world, the metal has a vital role to play in creating a truly circular economy.



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Berry Global

From overcaps and spray-throughs to trigger sprayers and pumps, Berry Global produces a wide range of spray and dispensing packaging solutions designed with the end-user experience front of mind. We work closely with each customer to find packaging solutions that elevate their products, whether it's helping customers navigate our stock options or partnering with our design and product development teams to create something custom.



We leverage our unmatched global capabilities, sustainability leadership, and deep innovation expertise to serve customers of all sizes around the world. Harnessing the strength in our diversity and industry leading talent of **47,000 global employees** across more than **295 locations**, we partner with customers to develop, design, and manufacture innovative products with an eye toward the circular economy.

Sustainability Leadership

We prioritize reducing material usage and sourcing sustainable materials as part of our long-term sustainability strategy, but we don't stop there. We work closely with our customers to provide sustainable design alternatives so that together, we can increase the utilization of recycled content and help you reach your sustainability goals.



Innovation Expertise

Innovation runs deep in our culture, and we continuously strive to offer packaging solutions that elevate our customers' brands and enhance the user experience.

- **Collaborative in-house design.** At Blue Clover Studios, our in-house design studio, designers and engineers work and collaborate together for a streamlined design processes, resulting in reduced time to market.
- **Advanced technology.** We partner with Digimarc technology to produce invisible watermark codes on packaging for marketing, production, and sustainability opportunities for our customers.

Overcaps & Aerosol Spray Systems

Top off your aerosol and non-aerosol products. Over 125 different sizes and styles available, from basic overcaps to advanced spray-through technology.

- Supports necked-in, straight-wall, aluminum, and DS container style cans
- Button sprayers, trigger sprayers, and patented U Straw sprayers offered for an assortment of can sizes
- Silk Screen, hot stamp/foil, and labeling options all available in-house
- Metalizing option also available



Markets Served

- Home Care
- Hygiene
- Industrial & Transportation
- Beauty & Personal Care
- Cannabis Solutions
- Agriculture
- Food & Beverage
- Building & Construction
- Filtration
- Food Service
- Healthcare

Berry Global

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Capmatic



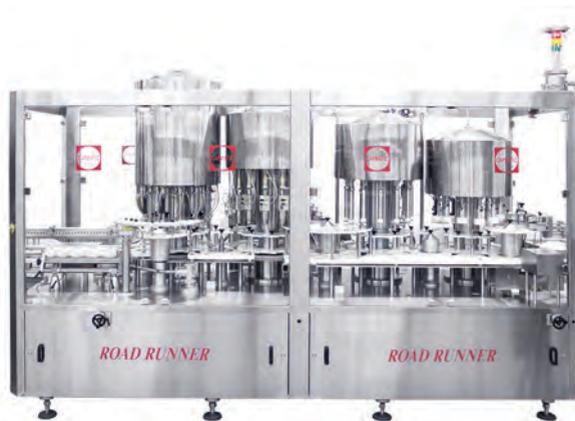
PRIMARY PACKAGING SOLUTIONS

Known for the unique European design and innovative packaging solutions, equipped to provide cosmetic manufacturers with a complete packaging system with unmatched machine quality; with over 55 years in the packaging industry, Capmatic® Ltd is an expert in designing and building monoblocks and complete lines (Fill, Plug & Cap) for the Pharmaceutical, Diagnostic, Health Care, Nutraceutical, Chemical, and Cosmetic & Beauty Care industries. Its' extensive experience in manufacturing equipment in compliance with FDA and the cGMP guidelines, Capmatic® Ltd. is devoted to providing high-quality custom built packaging solutions for the cosmetic industry.

Using the most innovative design, providing optimum customized equipment and overall product line performance, reliability, safety, ingenuity, and dedication, makes Capmatic® Ltd, a respected pioneer in the automated packaging industry.

Packaging Machinery For:

Nail Polish, Lacquer, Gelish, Glitter, Remover, Nail Glue, Cream, Balm, Perfume, Fragrance, Liquid Cleanser, Hand Sanitizer, Conditioner, Shampoo, Hair Color, Oil, Toner, Mascara, Lip Balm, Roll-On & Stick Deodorant



Products Offered:

- Unscramblers
- Sorters
- Cleaners
- Fillers
- Pluggers
- Crimpers
- Collar Placers
- Cappers
- Over Cap Cappers
- Pump Cap Cappers
- Labelers
- Custom Built Solutions
- Complete Packaging Lines
- Automations & Robotics

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CCL Container

CCL Container is the leading North American manufacturer of impact-extruded aluminum aerosol and specialty containers offering a complete range of sizes, shapes, styles and neck configurations. Its manufacturing operations use the most advanced processing systems in the industry today. State-of-the-art manufacturing lines produce finished containers from the 35mm travel size to the oversized 76mm format, with a total manufacturing capacity of 500MM+ units at 200 units-per-minute. Computerized multi-color in-line printing, color control and other critical functions yield containers of superior quality and uniformity.

Locations

CCL Container is headquartered in Hermitage, PA and operates three manufacturing facilities in North America. In addition to its Hermitage, PA plant, other locations include Cuatitlan and Guanajuato, Mexico. All are ISO 9002 Registered.

New Products & Technology

The CCL Product Development Team is unsurpassed in its ability to design and develop breakthrough solutions to the most complex challenges. They consistently uncover leading edge aluminum packaging solutions to help create the next great market success. BodyShapes™, CCL Container's innovative shaping technology for rigid aluminum packaging, allows for a variety of dramatic curves and contours throughout the entire length of the container.

Key Personnel

- Kimberly Kizer, Vice President of Sales and Marketing
- kkizer@cclind.com, 724-981-4519 ext. 357

Services Provided

CCL Container offers an unsurpassed combination of experience, expertise, resources, and capabilities for the development and manufacturing of innovative, brand-building aluminum aerosol containers. Complementing this are the company's equally impressive shaping and decorating abilities. Shapes range from soft, subtle contours to more dramatic cut angles. Design effects include metallic and pearl basecoats, brushed aluminum, high gloss, matte, textured and other finishes.

Markets Served

- Personal Care
- Hair Care
- Household
- Industrial/Automotive
- Agro-Chemical
- Pharmaceuticals
- Food
- Beverages

More About CCL Container

- Dynamic Graphics & Decorating
- Full Length Contouring & Shaping
- Exceptional, Responsive Services
- 100% Recyclable Aluminum
- Rust-Free Construction

CCL Container

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Chase Products Co.

A privately held company founded in 1927 as an insecticide manufacturer, Chase Products Co. began filling aerosol containers in 1946. Since then, Chase has had an active role in the growth of the aerosol industry worldwide, and has been responsible for many innovations in pressurized product development. Chase currently manufactures cleaners; polishes; air fresheners (including metered sprays); disinfectants; insecticides; paint, automotive, industrial and MRO products; personal care products; and seasonal and craft products. Chase's Santa[®] Snow, an aerosol with annual appeal, is carried by nearly every mass retailer in the U.S.A. and Canada.

Services Provided

Full manufacturing and filling capabilities, plus an in-house R&D laboratory; Legal & Regulatory department; Graphic Arts department; and EDI capability.

Production Profile: Five lines, including single and double index and rotary fillers and in-line and rotary gassers. Gas capabilities include straight hydrocarbon and hydrocarbon blends, nitrogen, CO₂, and 152a. All gas is pressure-filled.

Container Capabilities: All standard three-piece aerosol cans, numerous sizes of aluminum tubes, DS two-piece containers.

Valve/Cap Capabilities: All standard valves, a variety of standard and non-standard caps, including metered spray L-tips, FIBS and IBS spray-through caps and numerous specialty/hand-applied caps. Exclusive use of one-inch E-twist cap.

Label Capabilities: Plastic/poly on multiple lines, and standard cut/stack paper.

Pack-out Capabilities: Wide variety of standard corrugated options, wide variety of specialty hand pack-out capabilities for chipboard/display/point-of-purchase packages. In-house shrink wrap/multi-pack capabilities.

New Products

Chase's newest product line is Chase's Clean Home™ Disinfectants, NBE formulations offering profitable control brand alternatives for retail shelves. And the Chase's Home Value™ line is tailored for retailers looking for unique opportunities. This line provides a range of effective, attractively-priced products including household cleaners and polishes, bathroom cleaners, disinfectants, spray starch, Smooth Track® shave creams and KillZone® insecticides.

New Technologies or Patents

Green World N[®] is the first full line of EPA Safer Choice certified continuous-spray professional cleaning products. The six products are made from biodegradable CleanGredients[®] and utilize natural nitrogen as a propellant. ColorSpray[®] Ultimate Decorating Enamel is Chase's patented line of interior/exterior accent colors, which were formulated to protect the dry paint film from mold and mildew.

Markets Served

All markets, excluding FDA OTC products

Key Personnel

- Judith Albazi, President
- Ernesto "Ting" Hidalgo, VP Manufacturing
- Anthony Albazi, Corporate Sales Director
- Kevin Brandush, National Sales Manager, Professional Products Division

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See our ad on page 74



COS.MA.R Srl



Since 1982, Cosmar offers experience and innovation in the design and manufacture of traditional aerosol and BOV filling machines. Our product range includes semi-automatic machines for small scale production and fully automatic lines. The target, since the year of foundation, is to use the most recent technologies in the Aerosol sector.

Our company can design and manufacture “tailor made” lines for each customer. Speed, reliability, assistance, and improvement are Cosmar’s musts. World assistance is a warranty for Cosmar’s reliability, together with the high level of technology.

“Reduce time and productivity loss” is Cosmar’s motto. Cosmar is highly specialized in Bag- On-Valve filling as well as high speed traditional aerosol filling, with the unique bonus of a full electronic system, according to ATEX regulations and GMP rules.



Locations

Arconate (Milan area), Italy

New Products

- Bag-On-Valve electronic filling line
- Crimped Valve detection
- Cosmar Air-Q system
- Pharmaceutical technology
- High production rotary lines

Services Provided

- B.O.V. aerosol lines (laboratory or indexing machines, high speed lines)
- Traditional laboratory machines to high-speed aerosol lines
- Technical assistance all over the world
- Pharmaceutical equipment for medical devices and MDI process
- Spare parts & customer service



Key Personnel

- Fabio Barozzi (Managing Director)
- Mario De Palo (Industrial Director)
- Massimiliano Rugo (Sales Director)
- Claudia Zani (Marketing)

New Technologies or Patents

- Full electronic control of the ATEX Machines
- Diagnostic Remote control
- Indexing drive on brushless
- Multiple index to single index on the same machine

Markets Served

- Europe
- Aisia
- South America
- USA
- Canada
- Africa

COS.MA.R. SRL

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DS Containers

Founded in 2005, DS Containers was pleased to open the doors of its second facility in 2017.

Key Personnel

- Matt Kuehn: CEO
- John Duffy: Executive VP Finance, CFO
- Kevin Richards: VP Sales, Marketing, and Technical Support
- Andy Collantes: Director-Technical Services
- Jeff Pray: Manager-Quality and Food Safety
- Gina Bucciarelli, Jack Childers and Jack Finnell: Director of Sales

Products Offered

Two-piece PET laminated tin-free steel containers with no side seam, an integral dome, corrosion resistant interior and a contemporary shape. Customized printing in up to eight colors. Industry leading lead times and smallest MOQ's for printed cans. Six sizes available; 205 x 604, 205 x 710, 211 x 315, 211 x 413, 211 x 604, and 211 x 713. Now also offering debossing as an option for the 211 x 604 and 211 x 713 sizes with an all-around Spiral pattern as well as custom deboss pattern design opportunities.

DSC recently expanded into the aluminum aerosol can market. We have combined existing D&I can manufacturing methodology with the latest aerosol can necking and shaping technologies arranged in a unique modular line layout. The arrangement incorporates a coil-to-can process which produces cans at higher speeds with inherently high recycled content. Our aluminum can portfolio includes 45 and 53 mm diameters with various height options produced in manufacturing layout utilizing dual in-line decorators with multiple shaping machines. Our technology and approach provides reduced lead times and MOQ's while delivering unparalleled service and quality.

Markets Served

- Automotive
- Duster
- Food
- Household Products
- Industrial
- Insect Spray
- Paint
- Personal Care

Headquarters:
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Tel: 630-406-9600
Fax: 630-406-1438
www.dscontainers.com



DSC

DS CONTAINERS



See our ad on page 9

Formulated Solutions

Innovate • Formulate • Create

Formulated Solutions is now known as one of the most innovative contract manufacturing and formulation development companies (CDMO) in North America. With over 650 million units of annualized production capacity, Formulated Solutions exists to enhance consumer healthcare products through creativity and invention, delivering our Marketing Partners unmatched formulations, innovative packaging and cost effective reliable supply of semisolids, Aerosols, Bag on Valve, and our exclusive eN₂fused™ WHIPPED dispensing platform.

These days every contact manufacturer claims to innovate. We're different... We walk the walk! Every year we commit 30% of our research and development efforts to purely speculative development. Why? So that we stay on the cutting edge of consumer healthcare technologies, and are able to ensure that you, our brand partner, is in a perfect position to offer your customers differentiated products that they will love.

We have a reputation for creative problem solving. We open the doors no one else can. Our expert team of scientists and engineers will work alongside your in-house R&D, supply chain, or marketing staff to develop that difficult to formulate/difficult to fill consumer healthcare solution. Our uniquely inventive thinking creates tremendous value for our brand partners and makes us the ideal choice for full turnkey consumer healthcare CDMO solutions. Formulated Solutions does not market any of its own products, nor manufacture store brands.

Industries Serviced:

- Consumer Healthcare
- Branded Rx
- Medical Device
- NDA and OTC Monograph

Our pharma-grade facilities and manufacturing equipment are impressive, but we are so much more than buildings and machines. We are your invested consumer-focused partner. We want to help you create game-changing innovations that will result in products your consumers love to use and will drive your bottom line and our expert team of scientists and engineers stand ready to do so.

Formulated Solutions is and shall always be a company of people with the knowledge and dedication to provide our Marketing Partners, a single source solution for delivering quality and innovative products to market. We shall embrace changes and new opportunities as a vehicle to continually develop and grow sustainable relationships. As a company we shall never accept anything less than a culture that fosters creativity, growth and profitability for both our Partners and the company”

Our focus on innovation allows us to offer you, and your customers, products that other CDMOs simply can't.



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See our ad on page 18

Gerstung Aerosol

Gerstung Aerosol is a family owned custom packaging machinery manufacturer, established in 1960. Back then we introduced a revolutionary new method for pressurizing aerosol containers. The orbital shaking, combined with propellant filling, provides the action necessary to excel the absorption of propellant into water-based and viscous concentrates. With this preferred packaging industry method of gassing, it eliminates the need for additional product handling.

Our innovative products are engineered with simplicity in mind, ask the man who owns one. This pioneering technique has gained complete acceptance and contributed to the widespread growth of aerosols in existing and new markets worldwide.



6-Head Production Gasser/Shaker

Products

• Single Head Laboratory Gasser/Shaker

The precise cyclic motion lends itself to enhance absorption of propellant throughout the product more quickly and completely. This machine is designed for manual operation and is really great for testing products with CO₂.

• Manual/Automatic 6 Head Gasser/Shaker

This machine features the same simplicity of design as our Production 16 Head Gasser/Shaker. The precise cyclic motion lends itself to enhance absorption of propellant throughout the product more quickly and completely. This machine is designed for manual operation. Conversion parts would be available to modify for automatic production (20cpm).

• 4 Head Inline Production Crimper

The latest model of our 4 Head Crimper, incorporates our proven method of Inline can handling. With absolutely no motors, gears, springs, minimal CFM and nothing to adjust, this machine truly is INNOVATIVE! Capable of 4 cans every 4 seconds, 60 cpm, it can be attached to your current running conveyor. Crimps all 1" standard containers and will accommodate one can diameter with various heights, no change parts. Various can diameters are available.

Locations

- Stanton, CA – R&D
- Riverside, CA – Manufacturing, assembly and equipment staging facility

Services Provided

Installation Supervision

Key Personnel

Greg Gerstung, Greg@gerstungaerosol.com

Patents

Valve for Pressurized Dispensing Cans – 1989 and 1990

Markets Served

- Food
- Personal Care
- Household Products
- Insect Sprays
- Industrial
- Automotive
- Paint
- Pharmaceutical

Gerstung Aerosol
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Tel:760-780-9870



4-Head Inline Production Crimper



ITW Sexton



ITW Sexton has been a global leader in the design and manufacture of two-piece aerosol cans for over 60 years.

With a variety of styles and sizes from which to choose, ITW

Sexton's product line makes it easy to select the ideal packaging solution for a wide range of standard and customized containers; from high-pressure, specialty gases to low-pressure consumer goods. Backed by the ITW family of companies, ITW Sexton is the preferred supplier of specialty, high-pressure refrigerant gases such as R-134a, HFO-1234yf, R-410a, HFO-1234ze, and hydrocarbons across the globe.

Products Offered

ITW Sexton manufactures two-piece, tinplate steel containers in both high and low-pressure configurations. Available in 11 different sizes including 202, 211, and 300 diameters, our product line makes it easy to select the ideal packaging solution for a wide range of standard and customized containers. From our smallest 202x406 to our largest 300x1006, every ITW Sexton can is available in dome or step profile shape. Additional services include unlimited base coat color options, customized printing in up to eight colors, and our industry leading Patented Pressure Relief Device (PRD).

At ITW Sexton, we've earned ISO and U.S. Department of Transportation (DOT) certifications to ensure that every aerosol can is of the highest quality. With a devotion to quality that sets the industry standard, you can be sure that each one of our containers are structurally-sound and will deliver the safety and performance that your customers demand.



Key Personnel

- Elizabeth Dietrich – Business Unit Manager
- Brennen Auerbach – National Sales Manager
- Terry Widner – Customer Service Manager

Patented Pressure Relief Device

ITW Sexton's patented Pressure Relief Device (PRD) is the optimal choice for maximum aerosol safety and performance. By allowing contents to evacuate safely through the bottom, ITW Sexton cans with available pressure relief device remain intact in the event of over pressurization – reducing the likelihood of severe injury if the can is mishandled during use, storage, or transportation.

Our engineering team's persistent focus on the safety and structural integrity of our cans, combined with over 60 years of technical expertise securing and maintaining numerous DOT special permits, have made us the number one choice of high-pressure containers throughout North America, Asia, Europe, and Central and South America.



Markets Served

- Automotive
- Refrigerant
- High-Pressure/Specialty Products
- Industrial
- Household Products
- Duster
- Insecticide

ITW Sexton

3101 Sexton Road SE

Decatur, AL 35603

Tel: 888-739-8662 Fax: 256-351-8730

www.sextoncan.com

Lindal Group

LINDAL was founded in 1959 and today is one of the world's market leaders in aerosol dispensing technology. LINDAL Group offers a broad range of standard and custom aerosol dispensing solutions and have become a partner of choice for many of the world's most prestigious, innovative and trusted brands.

LINDAL's product offering includes a comprehensive range of valves, actuators, barrier packs and associated accessories that address the technical and aesthetic requirements of customers, enabling them to differentiate and excel in an increasingly competitive marketplace.

LINDAL continually invests in new facilities, infrastructure and equipment. The company recently invested \$25m in a landmark facility in Brazil, a project which represents the largest investment to date. The new facility will cover 12,500 sqm and employ approximately 130 people. This follows on from the recent \$20 million investment for the U.S. market for a 100,000-square foot, state-of-the-art production facility in Columbus, Indiana, which expanded the aerosol leader's product portfolio and production capacity, particularly for BOV.

Global Footprint

LINDAL Group continues to invest and grow its manufacturing footprint and sales office network so it can offer its customers exceptional service and supply.

Originally based in Germany, the LINDAL Group has expanded its presence across Europe and Middle East with manufacturing sites and sales offices in France, UK, Italy, Belgium, Spain, Switzerland, Ireland and most recently, Turkey.

In the Americas, LINDAL's presence covers all key markets from operations in Argentina, Brazil, Mexico to a state-of-the-art facility in North America.

LINDAL Group as 'one-stop shop'

LINDAL Group is a fully integrated product development service provider offering customers an extensive range of product design, development, engineering, manufacturing and supply services. Our extensive capabilities mean we can support customers from the ideation and concept creation stage through to the full innovation, development and industrialisation cycle into high volume manufacturer and supply.

LINDAL Group's commitment to new product innovation is reinforced by its ongoing investments in its Global Innovation Centre (GIC) in France and its manufacturing technology company, Leonhard Fischer GmbH in Germany. Through our innovation services, we help our customers differentiate their products and gain competitive advantage through rapid new product introduction processes.



LINDAL Group Holding GmbH
Brandstwierte 1, Neuer Dovenhof
20457 Hamburg, Germany
Tel: +49 (0)40 200075-100
email: marketing@lindalgroup.com

See our ad on page 4

Majesty Packaging Systems Limited

Established in 1988, located in Zhongshan city, Guangdong, China, Majesty is one of the biggest manufacturer of aerosol technology and dispensing solutions in the world, covering an area of 100,000 sqm with large production capacity at 6 billion sets of aerosol valves, 2 billion sets of dispensing pumps and 1 billion sets of spray caps annually.



- Global expansion: Thailand factory, Brazil factory, European factory
- 600 injection molding machines including Sumitomo, Milacron, Engel, Zhafer
- G.M.P workshop for pharmaceutical packaging production
- 2,000 sqm lab with advanced testing instruments
- In-house professional mold design and making workshop
- Certified with ISO9001, ISO14001, ISO45001, BRC, SMETA, C-TPAT



Our Products

Majesty offers the most range of standard Aerosol valves, Spray actuators, Lotion pumps , Trigger, Foamy pump, Mist sprayer for personal care, home care, pharmaceutical, food, industry products.

Now Available for All Plastic:



Foamy Pump



Trigger



Lotion pump

Majesty Packaging Systems Limited
No.21 Health road, Torch Development District
Zhongshan, Guangdong, PR China
majestyglobal.com
Tel: +86 760 8531 0888 /+86 760 2389 8533
Fax: +86 760 8559 8660
Email: gm@majestyvalve.com

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Scan for more informatio

McKernan Packaging Clearing House

For more than 60 years, McKernan Packaging Clearing House continues to offer the industry's highest quality packaging at a discounted rate along with the lowest minimums. McKernan began by buying and selling surplus packaging, growing their Best Value line. Eventually, a complete line of Wholesale Packaging was added. This ever-growing wholesale line includes over 1,200 line items with over 100 million packaging units in the warehouse...all ready to ship!

McKernan®

PACKAGING CLEARING HOUSE

Major Products

McKernan carries packaging components including aerosol cans, bottles, caps, trigger sprayers, foamers, sprayers, pumps, actuators, valves and much more. Whether you are looking for sophisticated and polished, bold and fun, or even simple designs, McKernan has something for almost everyone with unlimited opportunities to produce a truly unique package design. Get started today! Search our extensive online inventory at McKernan.com where you can order a sample, and most samples are free of charge. For details, call 1-800-787-7587 or 775-356-6111 or email Sales@McKernan.com



Best Value

McKernan's Best Value line contains top quality, unbranded packaging components that are offered at a discounted price. The majority of products in this line offer significantly reduced prices. The Best Value line has shipments arriving each day so there is always something new to find. This packaging is in stock and generally ships within 48 hours. However, you may need to move fast as these deals sell out quickly.

Surplus Specialists

"We Buy Surplus!"

McKernan also helps businesses repurpose their excess/surplus inventory by purchasing unused and unbranded components, such as bottles, jars, closures and more. McKernan coined the phrase "pre-cycling" because the program allows companies to recapture some of their initial investment and keeps excess inventory out of the landfills. McKernan is an environmentally responsible and smart solution to scrapping or traditional recycling. When you need to clear inventory in a short amount of time, call McKernan. For more information on this program, visit WeBuyPackaging.com or email Surplus@McKernan.com.



The McKernan Experience

Whether you are buying or selling packaging, when you call McKernan Packaging Clearing House, you will speak with a real person. Call 1-800-787-7587 or 775-356-6111 and the friendly staff at the front desk will connect you with a knowledgeable sales representative or surplus specialist for further assistance.

McKernan
P.O. Box 7281
Reno, NV 89510
Tel: 775-356-6111, 800-787-7587
Fax: 775-356-2181
Web: www.McKernan.com



Merris International

Merris International manufactures a wide range of paint filling, mixing and dispensing equipment and has been building strong and reliable machines for over 50 years.

Our latest pneumatic AeroColor P Series aerosol-filling machines enable pre-fill spray-paint cans (already containing propellant and specific additives) to be filled with individual paints.

There are two different Merris AeroColor filling machines to choose from, with the original compact electronic E Series and now the pneumatic P Series for cost-effective shorter runs and one-off fills.

Both series of Merris AeroColor machine are able to fill 600ml and 400ml aerosol cans simply by making a small adjustment to the can locator platform.

Products

- AeroColor P Series – Pneumatic Aerosol Can Filling Machine for retail paint shops and bodyshops
- AeroColor E Series – Electric Aerosol Can Filling Machine with large external paint hopper
- Spinmix 500x ATEX-Approved Paint Mixer with touchscreen controls for Zone 1 applications
- Spinmix range of Gyroscopic Paint Mixers for a variety of applications
- Minimix 1 Gallon Shakers to Automix 5 Gallon Shakers

Locations

County Galway, Ireland

Services Provided:

Manufacturing a range of paint mixing, filling and dispensing machines to suit many markets in Industrial, Retail, Medical, Laboratories, Aerospace, etc.

Key Personnel

Brendan McGrath, CEO Merris International

New Technologies

Our latest AeroColor P Series is a pneumatic machine with a streamlined case made from high grade stainless steel with easy to operate push-button controls. The Merris AeroColor P Series handles both 400ml or 600ml cans and is ideal for filling small to medium volumes.

Markets Served

Industrial, Retail & Domestic Paints, Automotive Refinish, Medical, Laboratories and Manufacturing while we are also able to adapt our technology to suit specialist requirements, such as modifying a version of our Spinmix machine to clean the jet engine filters in Boeing 737 aircraft.

Merris International

Milltown Business Park,

Gortnaloura, Milltown,

Co Galway, IRELAND, H54 DH28

brendan@merris.co.uk

Phone: 00 353 93 51017 www.merris-international.com



“Merris builds strong and tough. Our paint-filling and mixing machines are renowned for their robust construction and long-term performance.”

Brendan McGrath, CEO Merris International



The AeroColor P Series is the low cost aerosol-filling machine from Merris International

Montebello



Montebello Packaging is an international company serving clients worldwide. As a leading North American supplier to the pharmaceutical, cosmetic, personal care, food, beverage, industrial, automotive, and household packaging manufacturers, Montebello prioritizes customers needs and adapts to changing trends. Headquartered in Hawkesbury, Ontario with five state-of-the-art production facilities in Canada and the United States, Montebello offers packaging solutions to meet customer brand identity with functional and attractive packaging options. Montebello's Graphic Prepress Group and package decorating capabilities help our customers enhance their brand presence, and the Montebello Engineering Group coordinates engineering projects, new product development and new automation technology to support manufacturing operations. Montebello's Customer Service and Quality Assurance personnel are dedicated to meet the high-quality standards and service level our customers expect from a world-class manufacturer.

Aerosol Can Manufacturing Facilities

- Lebanon, KY: Montebello's newest facility consists of 120,000 sq. ft. dedicated to aerosol can manufacturing with two state-of-the-art aerosol can manufacturing lines coupled with 9-color decorating capability.
- Harrisonburg, VA: This 187,000 sq. ft. facility manufactures the majority of Montebello's 25mm, 35mm and 38mm diameter aluminum aerosol cans.
- Hawkesbury, ON: This 100,000 sq. ft. facility manufactures aluminum aerosol cans, and houses Montebello's Administration, Customer Service, Graphics and Corporate Quality Assurance Department.



Products and Services Offered

- Aluminum Aerosol Cans
- Aluminum Beverage Bottles
- Collapsible Aluminum Tubes
- Laminate Tubes
- Food Filling Facility (approval by Health Canada & The American Food and Drug Administration)
- Graphic Artwork, Prepress, Digital Platemaking, 3D Package Modeling, and Graphic Design

Key Personnel

- Jean Francois Leclerc - President
- Steven Macphail - Vice President of Sales
- Dennis Smith - Regional Sales Manager Aerosol Products

New Technologies or Products

- Aluminum bottles for Personal Care Markets
- Montebello Packaging has recently installed an industry leading laser trimmer for one of the high-speed aerosol can lines in the Kentucky facility. This new technology enables push button length changes, improved diameter change over lead-times, and improves overall accuracy and final cut profile. Their Graphics Department developed 3D modeling techniques that allows full 360 degree viewing of all product shapes they offer. The Quality Assurance Department at Montebello launched its Statistical Process Control Program in their Hawkesbury, ON, Lebanon, KY, and Harrisonburg, VA facilities. Benefits include a truly paperless environment, data input directly from the manufacturing floor, and a robust processing engine specifically designed to process manufacturing data to help ensure customers receive the best quality packaging available.



Montebello Packaging
1036 Aberdeen Street
Hawkesbury, Ontario K6A 1K5
sales@montebellopkg.com

The Swiss based Nussbaum Group is a leading manufacturer of sustainable aluminium packaging for more than 50 years. In its four plants in Switzerland and Germany, Nussbaum offers a wide range of attractive products and a large variety of formats, shapes and linings.

Advantages of aluminium packaging:

- 100% recyclable
- resistant, solid & unbreakable
- no rust
- diffusion proof
- light proof
- good conductivity
- availability nearly unlimited
- 3 x lighter than steel
- 4 x lighter than glass
- shapeable

Products and specifications offered

Cans - 15 formats Ø 22 – 66 mm

- Aluminium Aerosol Cans, 17ml – 650ml (Brimful volume)
- Aluminium Can-in-Can, 32ml – 290ml (Pouch volume)
- Aluminium Screw Cans, 15ml – 550ml (Fill volume)

Tubes - 11 formats Ø 12 – 40 mm

- Aluminium Tubes, 3ml – 200ml

Innovations

- **PCR/PIR Aluminium:** Nussbaum containers are also available made from recycled aluminium – 100% PCR or PIR - as well as in light weight made of aluminium alloy, meeting the environmental and cost-saving expectations.
- **Refill Screw Cans:** Refill instead of disposing – Nussbaum's Screw Cans are the perfect durable packaging for liquid personal care products. Consumers may simply refill and continuously use the same can, reducing waste and improving carbon footprint
- **Deo Roll Cans:** Sustainable Deo Roll Cans offered as standard Roll Can with snap-on ball system for single use or as Refill Roll Can with removable ball system with thread for easy and comfortable refill.

Services offered

- Wide selection of linings (e.g. BPA N.I., PAM and PAM alternatives)
- In-house prepress department
- R&D including tooling supply
- Certified in ISO 9001:2015 and ISO 15378:2017
- US Drug Master File
- DOT2Q registration

Industries Served

- Personal Care
- Pharmaceutical
- Food
- Industrial
- Home Care

NUSSBAUM MATZINGEN AG (HQ)

Frauenfelderstrasse 67
 CH-9548 Matzingen
 0041 52 3693911
www.nucan.com
nucan@nucan.com



Pamasol Willi Mäder AG

pamasol
Swiss Aerosol Solutions

Pamasol is one of the leading companies developing, producing and distributing aerosol machines. For over 55 years we have developed and produced everything ourselves in our high-quality facilities in Pfäffikon Switzerland. We offer a wide range of systems from laboratory to high speed rotary machines up to 600 cans per minute.

From installation, start-up, training to technical service support in the field, you can count on us. The Pamasol brand name stands for innovation, technical leadership and reliability as well as for custom made machines for customer needs, perfectly engineered and constructed for a long-lasting production.

We are providing aerosol solutions not only for 1" aerosol valves and cans, but Pamasol is also the leading company for BOV-systems (Bag-on-Valve) for salt water, cosmetics etc., for pMDI-machines (Pressurized Metric Dose Inhalers), high speed color filling machines, mass-flow fillers for dedicated products, special capping machines with cap orientation system and much more.

As a provider of Swiss Aerosol Solutions, Pamasol is the brand for working together to solve all your filling problems, no matter how challenging they are.



Pamasol Willi Mäder AG
8808 Pfäffikon SZ-Switzerland
Ph: +41 55 417 40 40
pamasol.com, info@pamasol.com

See our ad on pages 24, 75



Pharmasol

Pharmasol is an integrated Contract Development and Manufacturing Organization (CDMO) offering a complete range of services. Pharmasol has an unmatched combination of knowledge, experience, and capabilities in the highly-specialized field of pharmaceutical development and manufacturing of aerosols. We offer full service production of aerosols, liquids, creams, gels and lotions for the OTC, Rx, Medical Device, and Personal Care categories. We will work with you through every step of the process from formulation and clinical supplies, through scale-up and commercial manufacturing. Our highly trained and experienced staff welcomes large and small projects.



The Pharmasol team is experienced in all areas of manufacturing & development, including logistics, procurement, analytics, quality assurance, regulatory, R&D, packaging, and project management.

Markets Served

- Rx Pharmaceutical
- OTC
- Medical Devices
- Personal Care /Cosmetic

Research and Development Services

- Formulation Development
- Analytical Development/Validation
- Analytical Method Transfer
- Product Stability
- Technology Transfer
- Pilot Run/Clinical Trial Materials/Scale Up

cGMP Manufacturing and Packaging Services

- ISO-8 Clean-Room Manufacturing Areas
- Pilot Run / Clinical Trial / Scale Up
- Process Validation
- Commercialization
- Foams
- Aerosols (conventional, metered valve, steel or aluminum, 1-inch, 20mm)
- Alcohol and water based filling
- Liquids, Creams, Gels, Ointments
- Bottles
- Jars
- Tubes
- Flexible and Versatile Secondary Packaging

Every new project goes through a detailed project management and development process with carefully managed milestones and deadlines. Our clients have direct access to project team members who are professional and very responsive to customer needs.

Our experience has taught us that no two customers are the same. Our services can be as broad or as limited as your business needs dictate; from filling and packaging to “turnkey” product development, manufacturing and national product launches.

Pharmasol Corporation
One Norfolk Avenue
South Easton, MA 02375
508-238-8542
HKatzen@Pharmasol.com
www.pharmasol.com



PRECISION



YOUR SAFETY

You must feel safe with the products you use. Plus, you deserve to work with the Modern Aerosol Industry Founder and World Leader in Aerosol valves.

Indeed, PRECISION VALVE CORPORATION (PRECISION) is the inventor of the first mass produced aerosol valve in 1949. Since then, we have become the global leader in aerosol valves and a leading player in actuators and dispensing solutions.

You are on the safe side.



YOUR SERENITY

Whether you are a national brand, a contract filler or a multinational group, you can rely on a PRECISION local team and a regional or global supply. Today, PRECISION operates a multinational network of 17 facilities spanning 15 countries on 6 continents in Argentina, Australia, Brazil, China, France, Germany, Italy, Japan, Mexico, South Africa, Spain, Thailand, United Kingdom, USA and Venezuela.

PRECISION can rightly claim to be your only truly local partner of aerosol valves and actuators with a global presence

Your local partner, globally.

YOUR SOLUTIONS

Are you facing a new challenge? Searching for new solutions? PRECISION serves a variety of end markets, including personal care, household, food and beverage, industrial, automotive and pharmaceutical with an ever-growing product portfolio featuring valves, actuators, pumps, and other dispensing solutions. PRECISION's valve range consists of a comprehensive range of 1" male valves, tilt valves, powder, 360-degree valves, capillary valves, metered valves and Bag-On-Valves. In addition, PRECISION's actuator portfolio offers everything from standard buttons to innovative twist-lock actuators. PRECISION's broad choice of pumps includes trigger sprayers, lotion pumps, foamers, crimp, 20mm, and specialized pumps.

PRECISION provides a multi-skilled team of experts to support your aerosol and dispensing needs.

It all starts with YOU.



Precision North America
5711 Old Buncombe Road
Greenville, SC, 29609, USA
Phone: 1-866-686-8464
sales.pvna@precisionglobal.com
www.precisionglobal.com

See our ad on page 7

Stolle Machinery

Stolle provides solutions for the high-volume production of metal efficient 2-piece D&I aerosol cans, from a single machine to a complete plant or production line. As the world's leading supplier of canmaking machinery, Stolle has unprecedented experience in providing canmakers with the machines they rely on to produce cans with maximum speed, efficiency and profitability.

Locations

Headquartered in Denver, Colorado, Stolle has manufacturing and service centers strategically located around the world to serve canmakers, including in the USA (7 facilities), Europe (3 locations), Brazil (2 locations), China (2 locations), Vietnam, India, and Jordan.

New Products

Stolle invests significantly in developing new and improved machinery that benefit canmakers and consumers. Recent developments include a new design D&I bodymaker, a modular die necker machine, and continuing innovations in can decorating technology. Stolle also offers special versions of bodymakers specially designed to produce tall, thinwall D&I aerosol cans. Stolle Global Systems designed and built the world's first high speed D&I aerosol can line for a major U.S. manufacturer – a video of this project can be seen at www.stollemachinery.com/videos/Speedcan.html.

Services Provided

A complete line of machinery for the high speed production of 2-piece cans and ends, design and construction of complete can and end plants and production lines, machine rebuilding, OEM spare parts, rapid-response field service.

Key Personnel

- Gus Reall – CEO
- Robert Gary – CCO
- Ian Scholey – CTO
- Chris McAlpine – VP of Global Systems

Markets Served

High volume manufacturers of 2-piece beer-beverage, food and aerosol cans.

Stolle Machinery
6949 S. Potomac Street
Centennial, CO
303-708-9044
stollemachinery.com



STOLLE MACHINERY



Summit Packaging

Summit Packaging Systems recently celebrated its 46th year of supplying valve systems to the aerosol packaging industry. Its commitment to fully integrated manufacturing facilities continues to position Summit as the best worldwide source for aerosol valves with the highest quality, best service, and lowest pricing.

Featured Products

Nouveau Actuator

One piece designs, to include both foam and gel product formats.

- Two piece non-MBU, for AP sprays, or other tight spray pattern products.
- Two piece MBU to provide any pattern and particle size spray that may be desired.

Bodysurf

Summit's most recent Twist & Lock actuator, the Bodysurf, brings incredible value at a competitive price! The sleek design, combined with superior grip, makes operation effortless. With both tactile and audible cues, the operating position is never in doubt. Designed for manufacture, this actuator works flawlessly over a wide range of stem to curl dimensions, allowing for broader manufacturing specifications and reducing scrap. This market tested actuator is a proven winner!

Bag-On-Valve

Summit BOV's are available in every stem diameter and shank length available to ensure proper fitment and function with both standard or custom actuators and spray-through-caps. It also has the variety of mounting cup options required for any BOV products: Tinplate laminate; tinplate, tin free steel and aluminum with lathe cut gaskets; and all the available protective coatings such as epoxy, PET, microflex, etc. The company also offers several different multilayer laminate bag constructions with either a polyethylene or polypropylene inner sealant layer to ensure package and product stability and functionality.

In addition, Summit provides the full range of R&D services, laboratory sample product filling capabilities, as well as short and long term stability and performance testing required to bring your BOV product from concept to market.

Put Summit Packaging's expanding BOV technology, highly competitive pricing, and short lead times to work for you!

Key Personnel

- John W. Lynch – Sales Manager – ext. 150
- Scott Gilroy – Vice President – ext. 138
- Kevin Verville – Technical Service Manager – ext. 157

Summit Packaging Systems
400 Gay Street
Manchester, NH 03108-5304
603-669-5410

See our ad on page 80



Nouveau



One Piece Foam



One Piece Gel



Two Piece:
MBU or Non-MBU



Bodysurf



BOV

Terco

Terco, Inc. is one of the leading manufacturers of aerosol filling equipment. Since 1965 and with our years of experience in over 50 countries, we have developed filling systems from 5 to 450+ cans per minute. Our system for success includes a modular design configuration and regional technical support around the world (including both sales and spare part support).

In addition to the basic filling machinery, our product line includes a full range of equipment for aerosol production including container handling, conveying systems, waterbath systems, tip placing, cap placing, puck handling, and more. From a simple laboratory set-up to a completely integrated filling line our dedicated staff has the knowledge necessary to give your filling operations the most flexible filling system available.

With the popularity of pressurized barrier systems (including piston cans and bag-valves), we offer a full range of filling solutions to meet your product needs. Systems for dairy and pharmaceutical aerosols are also offered.

Key Personnel

- Dan Ahrens - President
- Bernie Brokke - Vice President, Sales

Services Provided

Filling systems for conventional aerosol, barrier systems, container handling, acuator/cap placement, puck handling and assembly machine.

New Products

Completely automated PLC aerosol filling machine with capabilities of automated product and propellant volumes, can diameter, can height, and indexing speed changeovers.

TERCO™
...for the competitive edge



Terco, Inc.
459 Camden Drive
Bloomington, IL 60108
Phone: 630-894-8828
Fax: 630-894-8846
sales@terco.com
www.terco.com

See our ad on pages 56, 75

Tri-Pac, Inc.

Customer Focused, Quality Driven



Tri-Pac, Inc.
Contract Filling & Packaging

Tri-Pac, Inc. is a turn-key Contract Development and Manufacturing (CDMO) partner for aerosols, foams, liquids, cream and gels specializing in Medical Devices, Topical OTC, Consumer Healthcare and Personal Care. Headquartered in South Bend, IN, Tri-Pac is located in a 65,000 sq. ft FDA Registered cGMP Manufacturing facility & 60,000 sq. ft. Warehouse. Tri-Pac houses explosion proof ISO Class 7 & 8 Cleanroom suites for aerosol, foam, liquid and tube filling and blending. We connect our unique competencies in manufacturing, sourcing, engineering, research and development and regulatory to create products that raise quality standards, lower costs and reduce environmental impact.

Facility

- cGMP, FDA, OTC, ITAR, EPA, Organic Facility
- ISO 13485, ISO 22716, ISO 14001, WHO GMP Certified Facility
- Onsite Analytical & R&D Labs w/ Rapid Microbial USP 61/62
- Cleanrooms – ISO 7 & 8, Explosion Proof
- Ultra Purified Water (UPW) System
- OSHA, EPA, IDEM, NFPA, NEC facility compliance

Services & Technology

- Turnkey Research & Development
- Analytical Testing, Quality Testing and Stability Study program
- Aerosol Filling (ISO 7) – Spray, Foam, BOV, Piston Barrier, Micro dosing
- Liquid Filling (ISO 7) – Liquids, Gel, Cream, Lotion
- Tube filling (ISO 8) – Liquids, Gels, Cream, Lotion, Pastes
- Blending (ISO 8) – Pilot, Turbine, Homogenizer, Side Sweep, Heat/ Cool
- Kitting, Secondary Packaging, Shrink Sleeving and Shrink Banding
- SAP ERP, SAP PPS, SAP WMS
- Kanban, Gemba, JIT

Markets Served

- Medical Devices
- Over The Counter (OTC)
- Consumer Healthcare
- Personal Care & Cosmetics
- Certified Organic
- Aerosol Sprays & Foams
- Liquids, Creams & Gels



Tri-Pac Line 7 – Shibuya Rotary Liquid Line



Tri-Pac Line 8 – Norden Tube Filling Line



Tri-Pac Analytical Lab 2 Agilent HPLC



Tri-Pac Tank E – 1,000 Gallon DCI Reactor/ Blending Tank

Tri-Pac, Inc.
3333 N. Kenmore St.
South Bend, IN 46628
Tel (574) 855 2197
Fax (574) 387 4704
sales@tri-pac.us
www.tri-pac.us

See our ad on pages 15, 74

Trivium Packaging

While our name is new, our quality, expertise and capabilities remain. Formed by the merger of industry leaders Exal Corporation and Ardagh's Global Food & Specialty business, Trivium Packaging offers customers around the world an extensive line of infinitely sustainable metal packaging including steel and aluminum aerosol containers, threaded bottles, beverage bottles, food and specialty packaging.

Our highly skilled teams are adept at collaboration, creating scalable, effective and sustainable aerosol solutions to meet every brand's unique needs. In addition, our unwavering commitment to quality ensures our products are as consistently defect-free as they are eye-catching.

Combining value-driven innovation, award-winning design, superior quality and an unmatched level of service, Trivium Packaging continues to exceed expectations for some of the world's most recognizable brands. We offer metal packaging solutions for a number of categories.

Categories Served:

- Beauty & Personal Care
- Beverage
- Food
- Home Care & Industrial
- Nutrition
- Consumer Health
- Paints & Coatings
- Pet Food
- Pharmaceutical
- Seafood



The Aerosol Experts

With decades of expertise in aluminum aerosol design, manufacturing and operations, no one is better at creating stand-out, high-quality packaging delivered on time, in full and with industry-best lead times.

A Global Reach

Trivium Packaging operates close to 60 state-of-the-art production facilities around the world, including dedicated research and development sites. At every location, we are committed to creating innovative metal packaging solutions that are designed for the products they hold, the people who use them and the planet we share.

Focus on Innovation

Our R&D Centre employs close to 100 scientists that work with our customers to define the most suitable specifications for every project – including down gauging. They also conduct rigorous testing of materials and coating. Our focus on R&D has allowed us to consistently bring new innovations to the packaging industry.

Contact Us:

Visit [TriviumPackaging.com/contact](https://www.triviumpackaging.com/contact)

For more information on our locations, product information, or to view our latest news visit [TriviumPackaging.com](https://www.triviumpackaging.com).



TRIVIUM
PACKAGING

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