

April 2022  
Vol.29 No.8

# what's new in **Food** technology & manufacturing

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H046

**WHAT'S NEW AT  
AUSPACK 2022?**

Floorplan & exhibitors | AUSPACK Leaders Forum | Products on show + more





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# AUSPACK 2022

17-20 MAY

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# Let's meet face to face

at **AUSPACK 2022**

17—20 May 2022,  
Melbourne, Australia

[www.auspack.com.au](http://www.auspack.com.au)

AUSPACK 2022 will see the processing and packaging industries reconnect for the first time in over three years.

The event owned by the Australian Packaging and Processing Machinery Association (APPMA) will be held in Melbourne, Victoria, from 17–20 May at the Melbourne Convention and Exhibition Centre (MCEC).

See new releases and up-to-date products, materials, technology, equipment, processes and machinery from the industry's leading suppliers.

Hear from a line-up of industry-leading speakers and get involved in the discussions on the post-pandemic recovery.

The Solutions Seminar Series is free with the exhibition pass and gives visitors access to a program of workshops, discussions, presentations and case studies. There are two drop-in theatres on the exhibition floor to provide visitors with an opportunity to hear from industry experts on topics such as Industry 4.0, sustainability, the circular economy, techniques and ideas for increased profitability, recycling, risk management, packaging design and more.

The speaker line-up includes Joe Foster, the Managing Director & Co-Founder for O F Packaging and CEO of Close the Loop Group, James Balzary, CEO for TilliT, Karin Blacow, Food Safety Specialist for Intralox, Jozef Ceh, the Digital Transformation Manager for SMC Corporation, Wilfrid Marie, the CEO for IMA Dairy & Food Asia Pacific and many more.

## Leaders Forum

A new addition for 2022 is the AUSPACK Leaders Forum with a program of keynote presentations and panel discussions designed for CEOs, Managing Directors, C-SUITE, Directors and anyone involved in key strategic decision-making.

The six themes across the two-day forum are: Future Technology, Future Workforce, Future Supply Chain, Sustainability and The Circular Economy, Investment and Collaboration, and Adapting and Diversifying for Commercial Success.

Hear directly from a line-up of thought leaders including: Nicholas White, CEO of Flavour Makers, Margaret Stuart, the Director in Corporate Affairs & Sustainability for Nestle Oceania, Paul Chatfield, Vice President – Marketing for Mondelez International, Rose Herceg, President Australia & New Zealand for WPP, Christian Ruberg, Future Digital Manufacturing Lead for CSIRO and so many more.

To purchase tickets for the AUSPACK 2022 Leaders Forum, visit [www.auspack.com.au/visit/whats-on/auspack-leaders-forum/program](http://www.auspack.com.au/visit/whats-on/auspack-leaders-forum/program).



## Opening times:

Tuesday, 17 May 2022 — 09:00–17:00

Wednesday, 18 May 2022 — 09:00–17:00

Thursday, 19 May 2022 — 09:00–17:00

Friday, 20 May 2022 — 09:00–15:00

## Free seminar program:

Tuesday, 17 May 2022 — 10:00–15:45

Wednesday, 18 May 2022 — 10:00–14:00

Thursday, 19 May 2022 — 10:00–12:00

Friday, 20 May 2022 — 10:45–14:00

<https://www.auspack.com.au/visit/whats-on/solutions-theatres/auspack-seminar-program>

## Ticketed Leaders Forum:

Tuesday, 18 May 2022 — 7:30–18:30

Wednesday, 19 May 2022 — 7:30–16:00

<https://www.auspack.com.au/visit/whats-on/auspack-leaders-forum/program>

## Location:

Melbourne Convention & Exhibition Centre

## Registration:

[www.auspack.com.au/register](http://www.auspack.com.au/register)

## Exhibition

At AUSPACK many hundreds of exhibitors will demonstrate and explain their products and services to the thousands of visitors. Brands in the processing, packaging, materials, components and materials handling sectors will be on display.

Throughout this magazine you will be able to see many of the exhibitors' products that will be on show at AUSPACK 2022.



Please visit the team from *What's New in Food Technology & Manufacturing* on stand H046.





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## STAND H195



### Plastic smart alternatives

The 2025 National Packaging Targets means all packaging needs to be 100% reusable, recyclable or compostable.

This means it is a critical time for businesses, regardless of size, to think about their packaging needs and start planning the switch to packaging that will meet government guidelines.

Biogone is helping businesses make the switch to plastic smart alternatives. Biogone's products not only meet the 2025 targets, they go beyond and will biodegrade away should the plastic not be recycled and sent to landfill instead.

Biogone has a wide range of cost-effective, landfill-biodegradable and home-compostable packaging and shipping materials. This includes machine and hand stretch wrap, pallet caps, bubble wrap, pallet strapping, mailing satchels, packing tapes and much more.

The range could provide a solution to dealing with the current rate of 84% of plastic ending up in Australia's landfills.

**Biogone**

[www.biogone.com.au](http://www.biogone.com.au)



## STAND A175

### 1D/2D code reader

ifm's O2I500 multicode reader is simple to use, like a sensor, and detects 1D and 2D codes.

It delivers reading results even in extremely difficult conditions, reading up to four different codes in milliseconds, which helps ensure efficient and high-quality production.

Thanks to the one-button teach function and the viewfinder, it makes the product immediately ready for use, saving time and costs.

In addition to this, the reader can be configured via an app or using the ifm Vision Assistant software.

The device has an exchangeable ifm memory stick, which can be used to save or load complete configurations of the multicode reader. This simplifies device replacement and the set-up of several units for the same application.

The integrated optional illumination with polarisation filter ensures sufficient contrasts to detect codes even in the case of shiny surfaces such as metal.

The ifm O2I500 multicode reader is designed to combine robustness, compelling design and intuitive handling.

**ifm efector pty ltd**

[www.ifm.com/au](http://www.ifm.com/au)



## STAND i082

### Palletising gripper

The TecAir Palletising Gripper is designed to replace older design robot palletising grippers and provides over 30% savings in compressed air usage.

Designed in-house using the latest in Piab COAX vacuum cartridges, the gripper is suitable for users with multiple SKUs and multiple stacking patterns. The dust-tolerant vacuum cartridges alleviate problems with cardboard dust build-up and all component parts are easy to access for maintenance.

The gripper can be supplied as an upgrade to an existing unit or complete with a new frame, pallet arms, etc.

Once the communication module has its address programmed, the gripper will work with existing software, no reprogramming needed.

If this design doesn't suit a user's application, TecAir can design a bespoke gripper using the same technology as used in the Palletising Gripper.

**TecAir**

[www.tecnair.com.au](http://www.tecnair.com.au)







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## STAND F025

### Transverse slicer solution

Summit Machinery is exhibiting four machines on its stand at AUSPACK 2022 — one of those is the new FAM Volantis.

The Volantis is a transverse slicer solution for cutting potatoes, vegetables and fruit into slices, strips and dices.

It is equipped with the latest generation 24-knife slicing wheel, offering a high cut precision, quality and consistency.

Dedicated infeed systems for products like potatoes and green beans have been designed for maximum produce stability during cutting. The infeeds also allow full flexibility fitting the machine in both new and existing lines.

Features include hygienic design, easy access for cleaning, reduction of wear parts, easy-to-replace feed belts and increased output, which are all designed to reduce total cost of ownership (TCO) and provide a short return on investment.

The unit provides processors with consistent product quality at maximum capacity up to 6 tph. Thanks to the powerful and efficient motor, it can easily handle capacity fluctuations even during production spikes. The extended selection of cutting tools available for use on the machine allows processors maximum product differentiation.

Food safety features include its advanced hygienic design, full stainless steel execution, including motors, smooth surfaces in the product zones avoiding dirt traps, invisible electrical wiring and fully enclosed bearings avoiding grease contamination.

Other features for operators include easy access for cleaning and attention to ergonomics for changing parts and cutting tools. An intuitive, programmable touch screen allows easy changeover between cut shapes and sizes. It is designed to ensure optimal cut consistency between operators, shifts and even factories. The machine also offers operator safety thanks to the Haake trapped key locking system.

The machine is easy to maintain and low in maintenance thanks to limited wear parts and the use of durable components such as only one high-efficiency motor to drive both v-belts.

Thanks to its design and cutting principle, the machine produces uniform, smooth cuts with minimal breakage, slivers and off-cuts. As such, product loss can be reduced to a minimum and the shelf life of the products can be increased.

The use of water is limited to a minimum and for specific applications is even no longer necessary. High-efficiency motors make this machine an energy-efficient cutting solution.

**Summit Machinery Services**

[www.summitms.com.au](http://www.summitms.com.au)



## STAND B080

### Single-dose packaging solutions machinery

Single-dose packaging solutions provider ARANOW has a wide range of machinery for producing stick packs, sachets and shaped pouches. These packs are suitable for single-serve liquids such as sauces, oils, creams and gels, as well as powders and granules such as coffee, instant tea, sugar, spices and protein powders. In the pharma industry they can be used for ointments and analgesics. ARANOW machines are suited to both the food and pharma industries and comply with GMP standards.

Manufactured in Spain, the ARANOW vertical form fill and seal machines are available from 2–10 lanes and can package up to 600 single serve packs/min. Convenient tear-open options and shaped tops can be utilised for easy opening and maximum squeeze, ensuring that contents are fully dispensed. A vertical lap seal allows full printing capabilities on front and back for marketing and instructional purposes. There is also a range of transfer options for packing into cartons, multipacks and point of sale display cases.

ARANOW is represented in Australia, New Zealand and Pacific Islands by JL Lennard, who offers customer support with technical advice, spare parts and service.

**JL Lennard Pty Ltd**

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## STAND B185

### Skin packing machine

The MECAPACK FS930 SMF thermoformer is the latest multiformat and skin packing machine from Linco Food Systems.

With a robust full stainless-steel modular construction and clean hygienic open design, features include high skin with product protrusion capabilities, forming by blowing, vacuum and blowing, or plug assist, top film web with pre-heating station and precisely controlled motion by servo-driven gripper chains, and multi-format processes such as flex/flex, rigid films, and skin processes all in the one machine with vacuum and gas as standard.

The MECAPACK worldwide patented ergonomics pack with quick unlock/lock functionality and quick-change interchangeable forming, sealing and cutting station components makes it possible for operators to make complete format, size and process changes in minutes all without tools.

Skin packing capabilities include semi-rigid film base, rigid film base, or skin-on-board and skin-on-paper based products. Options are also available for sealing plate automatic release system for easy changeover without tools, integrated printing system, print registered film operation, and pack-in-line outfeed systems.

The MECAPACK FS930 SMF multiformat and skin machine can work with many film types and structures including modern recyclable, mono-material, bio-degradable and compostable films, and is a complete flexible machine for all thermoforming packaging needs.

Visit Linco Food Systems at stand B185 at the AUSPACK exhibition for a full review and demonstration of the FS930 SMF thermoformer and the O<sup>2</sup>6000 Intelligent Motion tray sealer.

**Linco Food Systems**

[www.linco.com.au](http://www.linco.com.au)



## STAND D190

### Wastewater treatment technology

A compliant and sustainable wastewater treatment system will ensure efficiencies across any business in the food and beverage industry. Australian wastewater treatment company Aerofloat has patented dissolved air flotation technology in its AeroDAF, which combines proven traditional dissolved air flotation principles with patented design elements. The outcome is an innovative product that can save money and time for food and beverage businesses across Australia.

The AeroDAF uses a unique tank with a 60° conical bottom and conical top and a patented hydraulic float removal system to funnel waste float material from the top of the tank. Unlike traditional DAF wastewater treatment systems, mechanical scrapers are

not necessary, creating a mechanically simple, compact solution, which can be more affordable for the industry. The unique design also means the system can be serviced without pausing operations.

The added benefit of remote monitoring capabilities on Aerofloat's products gives operators remote visibility and control over the plant if required. Operators can also call on Aerofloat's engineers to run system checks, make adjustments and offer advice from anywhere in Australia.

Aerofloat's innovative designs make it a suitable partner for both large and small businesses needing to upgrade or rebuild their wastewater treatment system. Its engineers work with major shopping food courts, restaurants, breweries and food processing plants to ensure the solution is suitable for each user's needs.

While the AeroDAF forms the cornerstone of the DAF product range, Aerofloat has multiple products on offer across the industry. Aerofloat works closely with each user to understand their unique needs and works with them to find a solution that will continue to serve the business now and into the future.

**Aerofloat (Australia) Pty Ltd**

[www.aerofloat.com.au](http://www.aerofloat.com.au)





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# AUSPACK 2022 Exhibitors





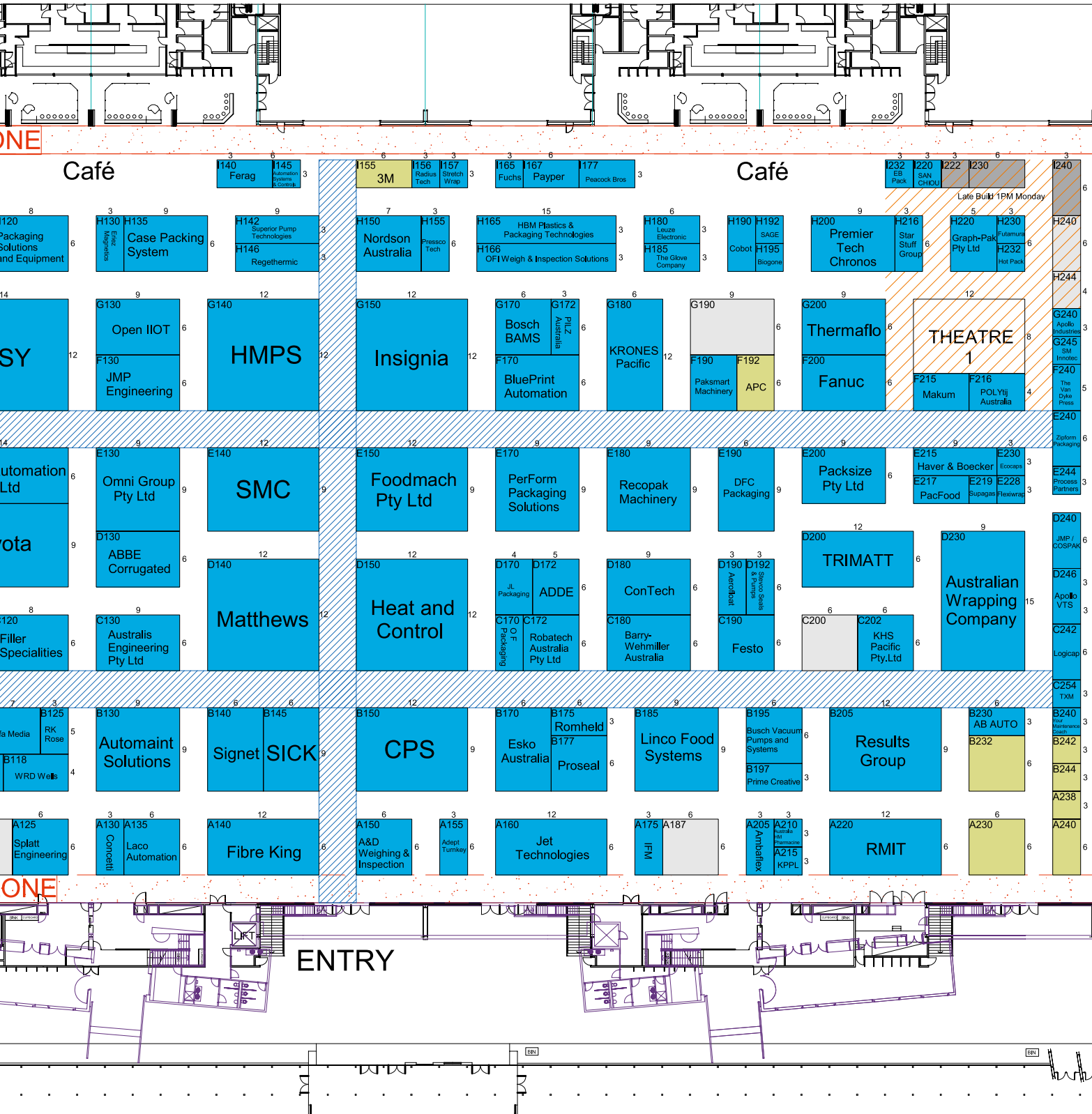


# AUSPACK

PACKAGING + PROCESSING

MELBOURNE CONVENTION & EXHIBITION CENTRE

17 - 20 MAY 2022



# AUSPACK 2022 Exhibitors

Exhibitor	Stand number	Exhibitor	Stand number	Exhibitor	Stand number
3M	i155	Bosch Australia Manufacturing Solutions	G170	Flexiwrap	E228
A&D WEIGHING & INSPECTION	A150	Bosch Rexroth	A080	Food & Beverage Industry News	B197
Abaris Printing	E170	Brenner International	i050	Food Process Machinery	i034
ABB Australia	G085	Busch Vacuum Pumps and Systems	B195	FOODMACH	E150
ABBE Corrugated	D130	CAMA GROUP	G060	Fuchs Lubricants Australasia	i165
Adept Turnkey Vision Systems	A155	Case Packing Systems	H135	Fulun Packing Manufacturer	E015
ADM Packaging Automation	B100	Central Innovation Pty Ltd	H045	Futamura Australia P/L	H230
Adventpac	D080	Centreline Engineering	B116	General Processing Systems	i105
Aerofloat	D190	Clayton Industries	i100	Gold Peg / Natec Network	E025
AmbaFlex Asia Pacific bv	A205	Cobot Pty Ltd	H190	Graph-Pak	H220
Andrew Donald Design Engineering	D172	Combilift	H050	Haver & Boecker	E215
Apollo VTS Asia Ltd	D246	Concetti S.P.A	A130	HBM Plastics & Packaging Technologies	H165
APPMA	C030	Contech	D180	Heat and Control Pty Ltd	D150
A-SAFE Australasia	D045	CPS	B150	Hipex Ptd Ltd	D055
Asset Packaging Machines	E002	D&D Barry Pty Ltd	F035	HMPS	G140
ATS Applied Tech Systems	H049	Detmold Group	A055	Hotpack Packaging Ind. LLC	H232
Austbrokers AEI Pty Ltd	H102	DFC Packaging	E190	HRS Process Solutions	F022
Australia HM Pharmachine Group	A21	Diverseco	I040	IFM	A175
Australian Filling & Packaging Machines	H165	EB Packaging SDN BHD	i232	INOX Australia	E055
Australian Wrapping Company	D230	Ecocap's S.r.l a Socio Unico	E230	Insignia	G150
Australis Engineering	C130	Ekato Corporation	C004	Intralox	C100
Automaint Solutions	B130	Elliott Automation	D047	J.L. Lennard	B080
Automation & Packaging	G040	Enoberg S.r.L	G106	J.L. Packaging Pty Limited	D170
Automation Systems and Controls Pty Ltd	i145	Eriez Magnetics	H130	JBT - Proseal Australia	B177
Axellent Australia	C115	Ernest Fleming Machinery & Equipment	A075	Jet Technologies	A160
Barry-Wehmiller Australia	C180	Esko Australia	B170	JMP Engineering	F130
Becker Pumps Australia	H100	Fallsdell Machinery	F060	Johns Adhesives Pty Ltd	H040
Biogone	H195	FANUC	F200	KHS Pacific	C202
Biosteam	A110	FB*PROPAK	E065	Klockner Pentaplast	F020
Biotec Solutions	B035	Ferag Australia	i140	Konica Minolta Business Solutions Australia Pty Ltd	D020
Blue Parrot   Skywire   Zebra	i110	Festo	C190	Krones Pacific	G180
Blue Print Automation	F170	Fibre King	A140	Kuloday Plastomers	A215
		Filler Specialties	C120	LACO Automation & Service	A135

The exhibitor list was correct at time of printing. For more information, visit [www.auspack.com.au/exhibitors/](http://www.auspack.com.au/exhibitors/).



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# AUSPACK 2022 Exhibitors

Exhibitor	Stand number	Exhibitor	Stand number	Exhibitor	Stand number
Lantech Asia Pacific	B045	PerForm Packaging Solutions	E170	Sidel Group	A105
LAPP	G105	PFG Victoria Pty Ltd	C025	Signet Pty Ltd	B140
Leuze electronic Pty Ltd	H180	PharmEquip Pty Ltd	G055	Slimstock	H047
LINCO Food Systems	B185	PILZ Australia	F172	SM Innotec	G245
Logicap	C242	PKN Packaging News	B120	Smalte Conveying	E030
LUCID Vision Labs, Inc	A050	POLYtij Australia	F216	SMC Corporation	E140
Mach Australia Pty Ltd	G035	Premier Tech	H200	SMI S.P.A	G106
Machine Knives (Aust) Pty Ltd	B115	Pressco Technology Inc	H155	SMIG	G106
Makum Pty Ltd	G075	Process Partners Pty Ltd	E244	Splatt Engineering Group LTD	A125
Markem-Imaje	F070	Profilium	H034	Star Stuff Group	H212
Matcon Limited	I105	Protection Experts	H114	Sterling Robotics	I060
Matrix Process Solutions	C055	PRYDE MEASUREMENT PTY LTD	D048	Stevco Seals and Pumps	D192
Matthews Australasia	D140	Radius Technology	I156	Stretch Wrap NZ Ltd	I157
Minipack International Pty Ltd	D100	Reactive Engineering Pty Ltd	H080	Summit Machinery Pty Ltd	F025
Molenaar Australia	E100	Recopak Machinery	E180	Supagas	E219
Narrowtex Australia	H112	Regethermic	H146	Superior Pump Technologies / Dynapumps	H142
Netsch Australia PTY Ltd	I102	Result Group of Companies	B205	Technomik Pty Ltd	E045
Nordson Australia	H150	Rhima Australia	C065	TecnAir	I082
Nupac Industries	D065	RK Rose+Krieger	B125	The Glove Company	H185
O F Packaging	C170	Robatech Gluing Solutions	C172	The Van Dyke Press	F240
OFI Weigh & Inspection Solutions	H166	Robot Spares	I104	Thermaflo Limited	G200
Omni Group	E130	Robotic Automation	E080	TigerPak Packaging	B025
Opal Group	C080	Romheld Automation	B175	Toyota Material Handling	D115
Open IIOT	G130	SAGE Group	H192	Trimatt Systems	D200
PAC Food Pty Ltd	E217	San Chiou Corporation	I220	Triton Commercial Systems	I045
Packaging Solutions & Equipment	H120	Schenck Process Australia Pty Limited	D022	TRONICS	H070
Packserv Australia	B015	Schmalz	H110	TXM Lean Solutions Pty Ltd	C254
Packsize Pty Ltd	E200	Scholle IPN	G100	VISY	G110
PacMatix Pty Ltd	G080	Schur Star Systems	I070	WF Media	H046
Pattyn Pacific	H106	SCHUTZ Australia Pty Ltd	C015	Workflow Ltd	C014
PAYPER	I167	SELECT EQUIP	B055	WRD WELLS	B118
Peacock Bros.	I177	Selpak	E115	Your Maintenance Coach	B240
Perfect Automation	B070	SICK	B145	Zipform Packaging	E240

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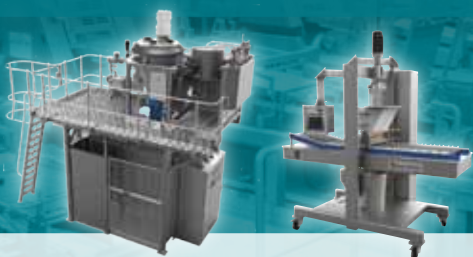
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17 + 20 MAY 2022





# AUSPACK 2022

## Leaders Forum Program



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## Wednesday, 18 May 2022

07:30–07:40	Opening Remarks
07:40–08:10	<p><b>Business Trends Report: The 10 trends your business needs to know for 2022 and beyond</b> The last two years have been exceptional and the world is likely changed for good. The next two will be critical for businesses to survive, adapt and thrive. Explore the political, social, environmental and economic trends your organisation absolutely needs to know to build your strategy for 2022 and beyond. <b>Speaker:</b> Rose Herceg, President — Australia &amp; New Zealand, WPP</p>
08:10–09:00	<p><b>CEO Leaders Panel Breakfast: Where are we at and what's next?</b> Join business leaders for a high-level, in-depth discussion on future strategy for the industry as they share their experiences and insights on:  <ul style="list-style-type: none"> <li>What are the critical steps for recovery to readiness for the next normal?</li> <li>What role will technology play in transforming businesses?</li> <li>What growth opportunities exist across global and domestic markets?</li> </ul> <b>Panellist:</b> Nicholas White, CEO — Flavour Makers</p>
10:00–10:30	International Keynote Presentation: Sustainability innovation
10:30–11:15	<p><b>Panel Discussion: Future packaging, recycling &amp; the circular economy</b> There is both disruption and opportunity for the processing and packaging industry when it comes to sustainability. With new regulations coming into effect in Australia, it's critical to be agile: innovating and adapting to increasingly changing regulatory and consumer needs and providing progressive solutions to help Australia minimise its waste.  <ul style="list-style-type: none"> <li>What is the packaging industry's responsibility when it comes to waste and how is it tracking?</li> <li>What steps can businesses take to shift to a circular economy from design to operational systems?</li> <li>What opportunities for growth and collaboration are out there?</li> <li>How do we change consumer behaviour through packaging recycling messaging?</li> </ul> <b>Moderator:</b> Brooke Donnelly, CEO — Australian Packaging Covenant Organisation (APCO)  <b>Panellists:</b>            Jean Baillard, General Manager — TerraCycle            Paul Chatfield, Vice President, Marketing — Mondelez International            Richard Smith, Director of Sustainability — AMCOR</p>
11:15–12:30	Networking/Time to visit exhibitors
12:30–12:50	<p><b>Keynote Presentation — Industry 4.0: taking value chains to the next level</b> Whilst Australia's most successful SMEs have Industry 3.0 well under control, 4.0 is more challenging and not many businesses have fully, successfully achieved it.  <ul style="list-style-type: none"> <li>What insights are in the Industry 4.0 toolbox to build competitive advantage, whatever your manufacturing sector?</li> <li>What can we draw from the Industry 4.0 maturity model to take value chains to the next level based on: visibility, transparency, predictive ability and adaptability?</li> <li>What new technologies, such as low-cost secure IoT networks featuring intelligent machine vision, or autonomous design platforms featuring AI are on the horizon?</li> </ul> <b>Speaker:</b> Christian Ruberg, Future Digital Manufacturing Lead — CSIRO</p>
12:50–14:00	<p><b>Panel Discussion: 4.0, 5.0 and the Future of Technology</b> Lights out business processes, highly automated manufacturing and self-managed supply chains will become a reality in the not-too-distant future.  <ul style="list-style-type: none"> <li>What is working already in 4.0 and how has it changed the Australian processing and packaging industry to date?</li> <li>What roadblocks have organisations faced in adopting 4.0 and how have they overcome them?</li> <li>How close is industry 5.0 really?</li> <li>What are the practical implications for the industry and how does your business prepare for this game-changing next wave?</li> </ul> <b>Panellists:</b>            Christian Ruberg, Future Digital Manufacturing Lead — CSIRO            Allan Frydman, Founder &amp; Managing Director — DC Works            Simon Dawson, Director, Industrial Transformation — IMCRC</p>
15:30–16:30	<p><b>Panel Discussion: How can manufacturers get a seat at the table as part of Australia's infrastructure investment explosion?</b> The Australian Government has announced a \$4bn infrastructure stimulus package to help secure jobs and support the national economy to bounce back after COVID-19, with the goal of unlocking the potential of every area, embedding sustainability and resilience into infrastructure decision-making and driving a step change in industry productivity and innovation. The opportunity for manufacturers across the supply chain to embed their products, collaborate and diversify their business as part of this growth is enormous. So where do you start? Join our panel discussion to understand:  <ul style="list-style-type: none"> <li>What opportunities exist for the processing, packaging and manufacturing industries?</li> <li>What investment channels are out there and how do you access them?</li> <li>How can you create a coalition with other manufacturers for greater 'pulling power' and commercial success?</li> </ul> <b>Panellist:</b> Emma Greenhatch, CEO, Agribusiness Food Network and Director — Turbine Sunshine Coast</p>
16:30–18:30	Networking cocktails

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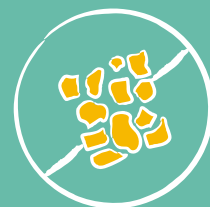
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# AUSPACK 2022

## Leaders Forum Program



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### Thursday, 19 May 2022

07:30–07:40	Opening Remarks
7:40–08:10	<p><b>Keynote Presentation: The emerging landscape for Australian manufacturing</b></p> <p>Australia's success as a manufacturing nation has a lot of untapped potential. To recover from the effects of the pandemic, supply chain disruption and the drive for sovereign capability, over the last three years the Australian Government has provided \$1.3bn in additional stimulus to support manufacturing innovation and growth.</p> <ul style="list-style-type: none"> <li>• What trends and insights are driving the industry for 2022 and beyond?</li> <li>• Where does your business fit with state and federal policy priorities?</li> <li>• How do you access and unlock funding for your business to advance your manufacturing capabilities?</li> </ul> <p><b>Speaker:</b> Kate Whitehead, Managing Director — Avant Group Pty Ltd</p>
08:10–09:00	<p><b>CEO Leaders Panel Breakfast: Risk, resilience and rebalancing organisations</b></p> <p>Join business leaders for a high-level, in-depth discussion on the organisation and workforce of the future:</p> <ul style="list-style-type: none"> <li>• Developing organisational flexibility and agility and why it is the key to responding to changing market conditions?</li> <li>• What strategies are working around risk, resilience and rebalancing organisations 'post' pandemic?</li> <li>• How will collaboration futureproof your organisation?</li> </ul> <p><b>Panellist:</b> Diem Fuggersberger, Founder &amp; CEO — Berger Ingredients    More panellists to be announced.</p>
10:00–10:30	<p><b>Keynote Presentation: Packaging and Ecommerce — What's your organisation's share in a \$62bn market value opportunity?</b></p> <p>The market for e-commerce goods has changed drastically over the last decade, expounded by the COVID-19 pandemic. The demand for product packaging solutions to handle shipping and logistics, as well as to create a unique customer touchpoint, has grown alongside it, with a total market value of \$61.55bn expected by 2025.</p> <ul style="list-style-type: none"> <li>• Have you maximised your organisation's growth opportunity and share of the e-commerce market, wherever you are in the supply chain?</li> <li>• How does packaging impact your customers' experience and have you overlooked this for functionality?</li> <li>• What would your organisation need to change to support the next five years of growth — from warehouses, freight, technology and data to inventory?</li> </ul> <p><b>Speaker:</b> Brendan Stayte, Solutions Consultant — Australia Post</p>
10:30–11:00	<p><b>Keynote Presentation: NPD as an integral part of your corporate strategy</b></p> <p>As customer and consumer behaviour changes, offering new products, adapting and diversifying has become a forced focus for organisations looking to create sustainable competitive advantage.</p> <ul style="list-style-type: none"> <li>• What are the key steps required when establishing a new brand or product to market?</li> <li>• How do you strategically position a new brand or product for long-term success?</li> <li>• How do you create compelling creativity that is timeless, adaptive and achieves ROI?</li> </ul> <p><b>Speakers:</b> Belinda Anderson, Head of Marketing Own Brand — Coles Mikey Hart, Creative Director — Hulsbosch</p>
11:00–12:30	Networking/Time to visit exhibitors
12:30–14:00	<p><b>Leaders Lunch &amp; Panel Discussions: Traceability, transparency and the future supply chain</b></p> <p>The recovery of Australia's supply chain post pandemic, trade tensions, geo-political issues and fast changing consumer buying preferences is critical. Disruption caused by an increasingly volatile business landscape means organisations need more resilient supply chain networks, flexibility and agility. Sustainability expectations both from regulatory, customer expectation and a CSR perspective require a transparent and circular value chain.</p> <ul style="list-style-type: none"> <li>• How will traceability improve efficiency, resilience and competitiveness?</li> <li>• What technology solutions are paving the way for a transparent, traceable supply chain?</li> <li>• What does the future supply chain look like and what steps can you take today to prepare?</li> </ul> <p><b>This session will feature two expert panel discussions:</b></p> <p><b>Panel One will cover the opportunities presented by industry adoption of 2D barcodes across Australian retail:</b></p> <p><b>Panellists:</b> Jennifer Keegan, Head of Retail and Product Portfolio Delivery — Woolworths Group Andrew Steele, Director, Retail — GS1 Australia Greg Calvert, Co-Founder &amp; Director — FreshChain Systems</p> <p><b>Panel Two will explore advanced identification technologies for traceability:</b></p> <p><b>Panellists:</b> Gavin Ger, Joint CEO &amp; Commercial Director — Laava David Inderias, Co-Founder &amp; CEO — Fresh Supply Co. Luke Wood, CEO — Escavox</p>

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# AUSPACK 2022

## Leaders Forum Program



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### Thursday, 19 May 2022

14:00–15:00	Networking/Time to visit exhibitors
15:00–15:30	<p><b>Keynote Presentation: CSR and the Real World</b></p> <p>Corporate Social Responsibility comes in many forms, from carbon footprint, fairtrade and modern slavery to company culture, diversity and inclusion.</p> <p>CSR has gone well beyond a feel-good box-ticking exercise and has moved into the realms of essential business strategy for ALL organisations, B2B, B2C, large or small and wherever you sit in the supply chain. Not only do your CSR policies allow your business to enact positive change, they grow your customer loyalty, trust and your bottom line.</p> <ul style="list-style-type: none"> <li>• Is your CSR policy as good as it gets? How does your organisation better meet society's expectations, and go from having good intentions to meaningfully delivering on them?</li> <li>• Does your organisation have an intention delivery gap?</li> <li>• How can a strategic CSR policy hit the sweet spot of social and environmental impact as well as profit?</li> <li>• How do you measure the value of CSR in tangible returns that make sense to all stakeholders: employees, customers, partners and shareholders?</li> </ul> <p><b>Speaker:</b> Margaret Stuart, Director – Corporate Affairs &amp; Sustainability — Nestlé Oceania</p>
15:30–16:00	<p><b>Keynote Presentation: Future workforce: Do you have the right people in your organisation to be a company of the future?</b></p> <p>Automation, upskilling and attracting the new generation of skilled professionals in an industry not deemed as 'sexy' are key challenges facing the future of your organisation. Investing in your human talent is as critical as investing in machinery or technology.</p> <ul style="list-style-type: none"> <li>• What will your business look like in 3, 5 and 10 years' time and do you have the strategy, skills and resources in your organisation to reach your goals?</li> <li>• How do you futureproof your workforce?</li> <li>• How do you ensure growth, diversity and competitive edge through human talent?</li> <li>• How do you merge people and technology on a strategic level?</li> </ul> <p><b>Speaker:</b> Melissa Crawford, GM Future Workforce — Vector NZ</p>

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Building on the success of its predecessor, the TranSlicer 2520 Cutter processes all the value-added, fresh-cut salads and vegetables that have gained real estate in retail fresh produce departments recently. Leafy vegetables, celery, leek, carrots, cucumbers, parsley, honeydew and other fruits are easily reduced by interchangeable slicing wheels which produce the chosen cut with precision.

The cutter can make all the trending cuts: flat and crinkle slices, julienne or shredded and more. Many innovative style cuts can be produced and processors are using this equipment to capture the consumer market for pre-prepared salads, chopped vegetables and fresh, cook-at-home meal kits.

Interested in size reduction, slicing and cutting solutions? Urschel is sold exclusively by Heat and Control in Australia and will be available to answer any questions at stand D150 at AUSPACK 2022.

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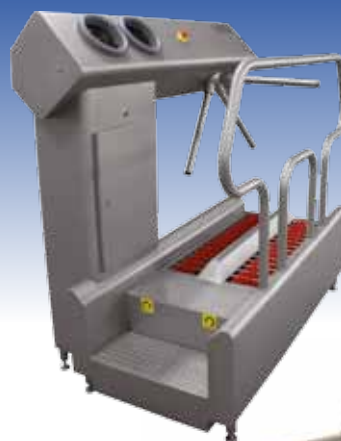


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# Maintaining viscosity and texture by direct injection

*Dr. Hans-Joachim Jacob, Senior Process Engineer and Customer Application Specialist, ystral gmbh*

## Caution when dispersing proteins

Proteins form agglomerates with a strong adhesive force when mixed with liquids. These must be broken down again by dispersing. In the process, shearing irreversibly damages the protein, which is already hydrated at this point. In many cases, local overheating can even occur. The product will not have as high a quality as it could have. However, it does not have to be this way, as special machines from ystral allow agglomerates to be avoided and the texture to be maintained.

The market for protein products is growing steadily. Competitive athletes, as well as private individuals, are increasingly turning to these products when doing sport. The production of yoghurt or desserts requires additional milk proteins. Proteins are important building blocks for tissue and organs. They are present in increased concentrations in food for persons in a weakened state or patients subject to enteral feeding. They are even processed in cosmetics or the feed for farm animals and domestic pets.

## Manufacturing issues

However, processing the powdered proteins is not that simple. They stick, foam and clump together. Moreover, the viscosity increases very strongly at the moment at which the powder is introduced. If, for example, caseinate is added a little too quickly, the result is the consistency of a Swiss cheese fondue. You can draw metre-long threads from it.

Proteins are highly cohesive. This can be seen most impressively in the processing of gluten — also known as wheat gluten. As soon as you turn off the mixer in the gluten suspension, the entire protein flocculates together and you could take it out in one tough piece. Most proteins are also highly adhesive. Milk protein was used for centuries as casein glue to glue wood or other components. Consequently, it also sticks very well to machine parts. When cleaning splashes off painted surfaces, the paint may come off, rather than the caseinate, which has set. And cleaning machines is every bit as challenging.

If you disperse protein solutions because you have to break down the lumps and agglomerates formed during mixing, the viscosity and texture of the already hydrated protein component will be destroyed. In addition, the air contained in the powder is dispersed into stable microfoam — extremely undesirable.

However, dispersing is not always undesirable; on the contrary. Proteins have a complex structure with primary, secondary, tertiary and quaternary structures. When making firm yoghurt, it is essential not to destroy the natural protein texture. When making stirred yoghurt, you want to work it in a controlled way. In the case of stirred yoghurt, only the superordinate structures are dispersed in a very targeted way (smoothing) in order to prevent whey from separating in the bowl at a later stage. In the case of drinking yoghurt, much more dispersion is required to irreversibly prevent gel build-up and to set the desired drinking viscosity. This

controlled structure manipulation is done very effectively with ystral In-Line Smoothers.

Whereas protein structures were previously often selectively broken down by enzymes (proteases) or acids during the production of spray emulsions or protein concentrates, the use of these machines can significantly reduce their required concentration, a considerable application advantage.

However, the dispersion of lumps and agglomerates is always critical. If agglomerates are formed during when the powder is introduced, they inevitably get into the gap between rotating and stationary machine parts, stick and overheat locally. The consequences range from a yellowish discolouration and black specks to a slightly burnt taste of the end products. How can all this be prevented?

Here is the solution: agglomerates must not be allowed to form! Furthermore, no powder should be able to stick between rotating and static parts! Air must already be separated from the liquid when the protein powders are introduced. The introduction of the powder must be controlled in such a way that no localised instances of excess concentration can occur. Finally, the system must be easy to clean without disassembly.

All these requirements are met by a special version of the ystral Conti-TDS. This machine was developed for highly adhesive and agglomerating powders and can easily process all protein types and, of course, protein isolates, concentrates or protein combinations with other powders. It is used in protein production and also in protein



*Ystral In-Line Smoother for the targeted dispersion of protein solutions or yoghurt*



*Ystral Conti-TDS for the aspiration and dispersion of proteins*



*Separation of the powder particles on their way into the wetting zone under vacuum*

processing. The dissolving processes can be cold or hot. The areas of application range from the production of enteral nutrition to spray emulsions for baby food or muscle-building preparations, stirred yoghurt, drinking yoghurt and cosmetics. With these machines, blood protein is introduced in the production of dog or cat food, for example. Soy, faba bean or pea proteins are processed in the production of cutting-edge plant-based trend products. Proteins are used as nutrient solutions in the production of organic crop protection products.

### Effective vacuum application

What is the main issue and how can it be solved? The main issue is always powder agglomerates, which form immediately when the protein is added to the liquid and whose subsequent dispersion damages the already hydrated gel.

Protein powders consist of individual particles. Even if these particles come into contact with each other, there is air between the particles — even a relatively large amount of air. At least 75% of the powder volume is air. This fact can be exploited to solve the problem because air expands in a vacuum.

The Conti-TDS creates a high vacuum precisely in its wetting zone. With this vacuum, it sucks the powder into the liquid. Regardless of whether the powder is sucked in from a bag, a hopper, a container or a silo, the vacuum increases along the suction path into the wetting zone. The air between the particles expands more and more as the vacuum increases. As a result, the distances between the particles in the powder stream, which is flowing at an increasingly higher speed, become larger and larger. The particles are already separated before wetting.

In the wetting zone, the powder particles come into contact with the liquid at speeds of almost 100 km/h and under extreme turbulence. They are individually wetted in their entirety and are broken down colloiddally. Agglomerates do not form. Further dispersion is usually not necessary — unless this is desired in order to break down the structure in a controlled manner.

In contrast to other Conti-TDS designs, there is no dispersion at the moment of wetting. The powder does not come into contact with any rotor or stator. It is sucked directly into the liquid that is flowing at a high speed (direct injection).

The powder flow is controlled in relation to the liquid flow and its existing protein content, in order to exclude local over-concentrations caused by a suction process that is too rapid. In the case of protein concentrates or protein combinations, this is done by means of control valves. For isolates and pure proteins, nozzles are used for this purpose.

### Air is separated

The air previously contained in the powder and released after the powder wetting coalesces into large air bubbles under the centrifugal effect of the rotor and is transported together with the liquid to the process vessel, where it escapes via the surface of the liquid. In this way, it is not dispersed into a fine foam again.

One very impressive example is the recombining of egg yolk or whole egg powder in the production of mayonnaise or even sweet fillings. Immediately after the egg yolk powder has been added, you can see the large air bubbles escaping. Although the volume of the powder is far greater than the volume of the liquid into which it is introduced, the filling level in the process vessel rises only to a minimal degree. You can see large air bubbles

with a diameter of about 10 centimetres escaping. After the introduction of the powder has been completed, the machine is left to run for a few minutes to deaerate. This enables you to achieve a deaeration to less than one per cent residual air in the product without using a vacuum container.

### Design and ATEX

The process is characterised by a particularly gentle and particularly fast complete wetting and a maximum utilisation of the powdered ingredients. The machines are, of course, designed according to all the principles of hygienic design, equipped with FDA-approved elastomers and also 3A certified.

They are CIP- and SIP-compatible, can be easily dismantled and are available in four different sizes, from 4 to 90 kW.

Proteins are basically organic and, therefore, dust-ex powders. Therefore, the machines have an ATEX classification. The areas in which the protein powders are processed are often not designated as Ex-zones at all. In this case, the machines are also available in an ATEX category outside non-ex/inside dust-ex for processing dust-ex powders when installed in a non-ex area.

Conti-TDS machines are characterised by the fact that proteins are broken down better compared to other methods and the quality of the end products is increased.

They offer considerable rationalisation potential by reducing production times and lowering production costs.



Ystral GmbH  
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# Stepping up production of powder protein products



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Discover how a leading Australian manufacturer of sports nutrition products implemented a system that enabled not only scalable growth potential, but also had the flexibility to handle an increasing range of ingredients.

True Protein is a family-owned business based in Sydney that manufactures a wide range of natural sports

nutrition products, including protein powder blends and pre- and post-workout supplements. Established in 2014, the company now produces over 300 products and 12 protein flavours made from globally sourced ingredients.

Specialising in producing 100% natural products which have essential amino acids to assist muscle growth and healthy antioxidants, the company's products contain no added sugar, artificial flavours or preservatives.

Prior to the implementation of the Matcon powder handling system, the company's original process consisted of two lines:

- Line one comprised a small vertical mixer which was emptied by the operator into small drums. These drums were manually fed into a hopper which supplied a small screw conveyor filling a 250 g pouch auger packing machine.
- The second line consisted of a larger version of the first line. However, on this line there was a 600 L vertical mixer hopper feeding an inclined bucket elevator which in turn fed a 1 kg bag filler running at 6–8 bags per minute.

This production set-up was labour-intensive and inefficient with numerous manual handling process steps. Product recipe changeover was slow due to the amount of equipment cleaning needed when switching recipes and floor space was also tight, limiting the company to smaller volume, campaign-style production.

To meet an escalating order demand and growth ambitions, True Protein purchased a larger building next door to its existing premises to cater for its expected 50% growth in production capacity and sought a new production set-up that could support their requirements.

## The solution

From the outset of project discussions, True Protein liked the simplicity and flexibility that the Matcon IBC system offered. The company could see the opportunity to improve efficiency and production capacity, whilst significantly reducing the number of manual handling steps. Future product formulations could also be easily introduced into the manufacturing process.

The Managing Director of True Protein, Ben Kierath, had previous experience of a Matcon system at a major company in Europe and recognised the benefits that could be achieved from installing a new Matcon IBC system, including:

- handling multiple flavours and batch sizes in one shift due to the quick changeover now possible during blending;
- reducing cleaning time as IBCs can be washed 'offline' before being put back into production;
- enhancing product integrity as previously hard-to-handle powders, such as whey powder, could now be discharged without risk of segregation using the Matcon Cone Valve.

The Matcon team worked closely with the team at True Protein to determine the most process efficient layout tailored to their needs and Matcon supported this by providing 3D model drawings. The existing building structure was put to good use — the mezzanine floor was used for the sack tipping of raw materials into the IBCs and the side wall was used for raw material storage.

Together a system was developed and designed to increase flexibility and efficiency of production, whilst also addressing the following key areas for improvement:

- Reduce manual handling
- Reduce down-times with off-line cleaning
- Rapid recipe changeovers
- Implement a system that enabled scalable growth potential and flexibility to handle a wider range of ingredients

The Matcon system included the following process equipment:

- A raw ingredient IBC Filling System that loads the batch ingredients into an IBC. These ingredients include whey powders, various flavours and minor ingredients.
- Multi-sized IBC Blender accommodating IBCs from 1000 to 1500 L
- Batch feed system discharging to a Pouch Packing Machine
- IBC Wet Wash System
- 1000 and 1500 L stainless steel IBCs

The benefits of the system include:

- Improved product security
- Faster recipe changeover and blending times
- Packing efficiency

## The results

"Since going live with the Matcon IBC Blending System, True Protein's manufacturing capabilities have become more streamlined and efficient. The Matcon system enables trusted cleaning procedures that gives us absolute confidence when it comes to changing from one formula to the next. Ensuring we eliminate any chances of allergen cross-contamination is essential to our business," Kierath said.

"Creating a safe working environment is our number one priority at True Protein and installing a Matcon IBC Blending System has really contributed towards creating a safer workplace.

"The Matcon IBC Blending System allows us to blend much larger batches than our previous system, providing significantly increased efficiency due to reduced batch preparation, cleaning and blending times."

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## STAND E065



### Tailored processing and packaging engineered solutions

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strategic partnerships with world-leading equipment manufacturers and suppliers, including Della Toffola, Bertolaso, APE, Z-Italia, AVE, Alpha, Frilli, Matrix and Barison.

The company can deliver technology for packaging, bottling, canning and labelling solutions by partnering with leading global equipment manufacturers and suppliers, while providing a high level of support and capabilities.

FB\*PROPAK has a number of installations successfully operating in Australia and New Zealand. With a qualified team of engineers, brewers, distillers and packaging technicians, it can supply, customise and install brewing, packaging and distilling equipment.

It can provide solutions for Australasian and international businesses operating in the food and beverage sectors, including beer, spirits, alcoholic mixes, soft drinks, kombucha, sports drinks, water, fruit juices, olive oil, dairy and food.

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## STAND B080

### VFFS machines

ROVEMA, a German manufacturer celebrating 65 years of manufacturing vertical, form fill and seal machines, now offers solutions for packaging fresh produce and frozen foods. The REVO series of VFFS machines is available in both continuous and intermittent motion versions, suitable for a variety of bag formats and styles.

Fresh produce such as carrots, onions and potatoes can be packaged in pillow bags using the recyclable LDPE or stand-up bags in kraft paper with organic barrier properties. Typical throughputs are 80 bpm for 500 g baby potatoes and 50 bags/min for 1000 g carrots. A special machine with inclined filling tube can be used for delicate products.

Frozen foods benefit from an ultra-hygienic machine design and heated IP65 electrical cabinet. Frozen berries and frozen vegetable cuts in typical 300 g bags can be packaged at 120 bpm, while frozen fries and seafood in 500–1000 g bags can be packaged at 80–100 bpm. Thin PE films and kraft paper with water vapour barrier properties can be successfully used on the range of machines handling bag widths up to 380 mm.

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## STAND B055

### Pre-glued sleeving machine

The Keymac K101 pre-gluing sleeving machine has been enhanced with the launch of the K101S pre-glued sleeving machine.

In response to increased demand for sleeve trays and pots at higher speeds, Keymac has launched the K101S Sleever which sits in the range between its exiting K101 (up to 50–60 packs/min) and KCM range 120 sleeves/min.

The K101S machine has the same compact footprint and size range capability as the K101 but can achieve speeds up to 70–75 packs/min. The machine is fully adjustable without the need for costly change parts and has been specifically designed for a 5 min changeover by operators.

Key features of the machines include: can receive trays back to back; speeds up to 70–75 packs/min; small footprint of only 1.5 m; simple, low-maintenance design features; runs all five-panel pre-glued sleeves designs; and robust construction.

The Keymac range of products is available in Australia exclusively through Select Equip.

**Select Equip**

[www.selectequip.com.au](http://www.selectequip.com.au)





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## STAND B100



### Coffee gusset bag packaging machine

The ADM-DP31 premade coffee gusset bag packaging machine has a unique set-up for fully opening and filling a gusset bag of coffee beans and large products such as cookies with ease. Controlled by an intelligent touch screen, it offers many functions and an extensive program designed to meet users' coffee packaging needs.

It's simple to operate on all sizes and suits all material types, including 250 g, 500 g and 1 kg sizes using laminated, PET, foil, kraft paper bags and many more materials.

Features include quick bag-size changeover, outfeed conveyor inline or return options, automatic bag infeed drive, bag support and shaker, and automatic program set-up.

The machine has a food-grade stainless steel construction, anodised aluminium parts, and guarding and interlocks to AS4024 standards. It uses a Panasonic control panel and interface with components from brands such as Omron, Schneider, SMC and SICK.

**ADM Packaging Automation**

[www.admpa.com.au](http://www.admpa.com.au)



## STAND B070



### Wrapping solution

Perfect Automation has installed its second high-speed box motion fully automatic Omori Flow Wrapper line already this year.

Previously achieving 140 ppm on a manually fed Omori Flow Wrapper, Perfect Automation's customer required speeds of 300 ppm for a very delicate product. High-speed performance can be tricky to navigate with many variables impacting final speeds. The company has now upgraded its nutraceuticals customer to Omori's Complete Aligning and Fully Automatic S-56000X-BXS High-Speed Box Motion Flow Wrapper system delivering a hermetic seal at 300 ppm.

Having undergone strict and strenuous testing criteria for light and difficult products, the packaging of frozen dried yoghurt weighing only 1 g with a crumbly exterior was a challenge. Achieving minimal seal testing criteria of 80 kPa for 3 min in a finished leakproof pack was no easy feat. With the high-density barrier film made up of 12  $\mu$ m PET, 7  $\mu$ m aluminium, 45  $\mu$ m LDPE for product protection, Omori box motion technology allowed for optimal sealing of products adverse to moisture and oxygen with no impact to the 300 ppm rate required.

Perfect Automation will be presenting and demonstrating more from Omori on stand B070.

**Perfect Automation**

[www.perfectautomation.com.au](http://www.perfectautomation.com.au)



## STAND D150

### Multi-spectrum metal detector

Using a metal detector at the end of a production line allows a processor to easily comply with global and industry safety standards, and meet the demands of quality and safety-conscious retailers and consumers.

Choosing the right metal detector is an important decision. For many processors, developing and maintaining an effective, verifiable inspection process is no longer an option. The CEIA THS/MS21 is claimed to be the world's only multi-spectrum metal detector. It has unique detection capability and sensitivity of magnetic, non-magnetic and even stainless-steel metal contaminants and is available in a USDA-approved design.

CEIA Metal Detectors are suitable for all manner of food products and detect foreign objects while operating simply, efficiently and at high speed, while also collecting and retaining important production run data.

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## STAND B205

### Backing linerless technology

At AUSPACK 2022 Result Group will be showcasing the Ravenwood linerless and vision inspection technologies, which can provide a combination solution for the packaging of fresh produce.

The NOBAC 5000 linerless labelling machine and Vision system both work in synergy for the labelling and inspection of all foods including fresh fruits and vegetables. Both machines can be standalone or seamlessly integrated for the labelling and inspection of packs.

The NOBAC 5000 system is fully automatic and offers a full spectrum of benefits associated with sustainable labelling practices. It can tackle almost any type of packaging challenge — from fish to meat, fresh fruits and vegetables, plant-based goods, dairy, ready meals and bakery products.

It also offers great versatility in terms of label materials including cardboard, paper and synthetics suitable for stretch-wrap trays, top seal trays and vacuum skin packs (with protrusions). Only one machine is needed for multiple applications.

The latest variant to join Ravenwood's linerless ranks is the 5000L fresh produce applicator. The 5000L applies 'Fruit Lid' linerless labels to carton board trays. When combined, the food-grade fruit lid and tray form a complete pack for labelling and packaging of fresh fruit and vegetable products. The pack concept replaces the need for plastic flow wrap and single-use plastic bags. As a result, the entire pack is highly sustainable and 100% kerbside recyclable.

#### Result Group

[www.resultgroup.com.au](http://www.resultgroup.com.au)



## STAND D065

### Pick and place sidebot

The Wyzo sidebot is a high-speed pick and place robot that is programmed to work safely side by side with humans without protective barriers or performance compromises. The solution is suitable for users making their first steps into automation or those looking for versatility and flexibility.

The compact and agile sidebot is designed to fit anywhere on the production floor. At less than 0.5 m<sup>2</sup> and just 1.80 m in height, it can easily be moved from one workstation to another, which can eliminate bottlenecks and enable fast ROI.

With picking speeds of up to 90 cycles/min and a payload of half a kilogram, it provides a valuable and innovative pick and place solution in terms of speed and operation — designed to increase speed while reducing costs.

Suitable for applications where a collaborative robot (cobot) does not have sufficient performance, the sidebot is designed to allow companies of any size to automate a process that is still manual.

#### Nupac Industries Pty Ltd

[www.nupac.com.au](http://www.nupac.com.au)



## STAND F172



### Access permission and operating mode selection system

As machinery keeps advancing and becoming more complex, the need for clearly defined responsibilities and clear operation levels is critical. Imagine

having one system that clearly controls the access permissions for your machine. One system that allows your employees to avoid errors by using clear permission levels. One system that means no more passwords that are hard to remember or need to be written down. One system that removes the need for countless different keys. One system that also enables safe operating mode selection on your machine.

The modern access permission and operating mode selection system PITmode combines security and safety functions in one system.

Functions include: group-based rights management; customisations for users; company-specific coding; simple recipe management; blocklist for keys; key actions are logged (audit trail); temporary permission; and safe operating mode selection.

With flexible permission levels and clear, straightforward operation levels to prevent operator errors, users can protect their employees and increase productivity.

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## Learning the recipe for streamlining food processing

With 30 years' experience, Earlee Products is an ingredients supplier to Australian and global food manufacturers. The company partners with food and beverage manufacturers across Australia and the world, using technical expertise to solve challenges and identify new opportunities in the food innovation space.

Renowned for its ability to improve and enhance food products to capitalise on changing consumer trends, Earlee Products has the ability to customise methods to solve food problems. Whether enhancing taste, texture or visual appeal, improving manufacturing cost efficiencies, offering cleaner, more sustainable alternatives or ensuring food safety, quality and functionality, the company applies science, technology and creativity to innovate better food outcomes.



### The challenge

Earlee Products produces a wide range of lines for different customers, which meant production is changed frequently throughout the day causing disruption to crews and workflow. Wet and dry production are completely different processes involving long and time-consuming changeovers. The company found it hard to have the correct lines in place to reduce changeover and lead time.

When TXM first started working with Earlee Products, all departments and department leaders had no real understanding of 'lean' and its benefits. Employee buy-in was therefore a key challenge to make the project a success.

TXM found departments were like silos; they only really talked to each other when there was a problem that needed solving. The siloed communication created a considerable barrier to the success of the project, and this needed to be handled in a way that would engage staff from all departments.

### The TXM lean solution

Value Stream Mapping was used to identify the departments and their communications channels. This highlighted the lack of communication between departments. The mapping session identified which products would limit the number of changeovers and which work needed to be prioritised each day.

TXM then created a lean crash course program for every single employee to get them buying into the project and giving an understanding of lean and its benefits. Senior Management undertook a week-long intensive lean masterclass on lean implementation and what it would mean for the success of the project.

Every single employee was put through a 40-minute lean training session. Managers of all departments were brought together showing their roles and how they would contribute to the transformation.

This accelerated learning, and progress of the teams at Earlee Products allowed them to get runs on the board

fairly quickly. The operations manager was appointed Lean Champion with other supervisors becoming quasi-Lean Champions for their departments.

A communications structure and daily meetings were introduced across all departments to communicate issues and raise concerns. Extensive visual management was introduced across all departments with daily stand-up meetings. Proper work standards were introduced with the work now being spread across teams/departments.

Each department now has its own continuous improvement (CI) board where a CI Initiative is worked on each month as a way of continuing their lean journey and empowering new employees in a new culture.

### The results

TXM Support at Earlee Products delivered outstanding business improvements over 12 months:

- DIFOT increased from 70% to 98% within 9 months.
- Realigned roles were implemented in the business.
- Production waste is monitored and has reduced by half over the last 18 months.

"The TXM Consultant is an enthusiastic mentor who was able to take our entire company on the lean journey. He built sustainable and meaningful platforms for our team enabling a continuous improvement environment," said Michael D'Allura, Commercial Manager at Earlee Products.

"The consultant mentored the team through the implementation process ensuring full understanding and followed up with a comprehensive assessment to track our progress and opportunities."

TXM will be available at AUSPACK 2022 on stand C254 where there will be copies of Tim McLean's book *Grow Your Factory, Grow Your Profits: Lean for Small and Medium Sized Manufacturing Enterprises*.

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Cheese Wrapping



Can Seaming



## STAND B118



### Colour-coding hygiene plan

Wells Hygiene and Vikan AS, Denmark, outline some key factors for getting the full benefits out of a colour-coded hygiene plan for cleaning and food handling tools and equipment.

The plan must be systematic, consistent, simple to use and keep the user in mind. For food-contact applications, always choose a colour that contrasts to the foodstuff being processed. Blue is a good food-contact colour as there are minimal blue foodstuffs. Therefore, if a cleaning tool finds its way into the product, it is more likely to be visually identified.

Don't combine colours on individual tools or tool groups. Instead, use the same colour for both handles and broom or squeegee heads, for example. Limit the number of colours as much as possible. Don't try to assign different colours to each and every step. If the colour-coding system is too complicated, it will not be easy to use.

Use different shades and contrasts to make it easier for colour-blind staff to differentiate colours. Use good signage (using images or multilingual text where necessary) to help make sure the system is used correctly. Implement the colour-coding system within all the zones affected at the same time.

Make sure all managers understand the system and train all staff. Make sure the tools are stored in the area where they are actually used, and use colour-coded storage, such as Wells 5S shadow boards and wall brackets.

Always inspect and replace cleaning equipment and food handling tools as soon as they begin to show any signs of wear, and regularly monitor and review the colour-coding plan.

Wells Hygiene/Vikan can develop a custom-designed colour-coding plan to suit users' hygienic requirements.

**WR&D Wells Pty Ltd**

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



## STAND G140



### Robotic tray loading system

The HMPS robotic tray loading system can handle a range of vegetable punnet styles, sizes and weights. Punnet styles include flow wrapped trays, top sealed trays and clamshell punnets. Weight ranges are from 200 g up to 1 kg, with speeds for smaller variants up to 180 packs/min.

The six-axis ABB robot with quick-change vacuum grippers allows for multiple tray counts and configurations. The system can pack into either standard cardboard retail trays and/or RPC plastic crates. Trays or crates can be supplied from external equipment, or HMPS can include an integrated magazine, tray dispensing system for a complete packing solution.

Filled trays are conveyed to the HMPS Robotic Palletiser, which includes an integrated gripper designed to handle stackable cardboard trays and plastic crates.

**HMPS**

[www.hmps.com.au](http://www.hmps.com.au)



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## STAND H049



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### Digitalisation procedural process approach

ATS Applied Tech Systems has launched Digital Rising, a strategic procedural approach to manufacturing digital transformation that enables manufacturers to attain their digitalisation goals through the development of an integrated strategy with clear transformational goals.

Digital Rising facilitates the design, implementation and support of digitalisation initiatives that drive improved business performance through process improvement and increased agility.

Grounded in a deep knowledge of manufacturing systems, the ATS Digital Rising process delivers a blueprint for users' shop-floor digital transformation and sets out a plan for implementation, identifying practical actions to achieve broad workplace adoption. These may include digitalisation of traceability, serialisation, OEE analysis, recipe management, resource scheduling, digital work management, document control, digital quality and more.

The solutions enabled by the process deliver the flexibility required to respond to supply chain disruptions and demand fluctuations that are increasingly affecting small and medium manufacturers in the FMCG and related CPG industries across Australia.

To ensure that the user's business goals are achieved, the system takes a holistic approach, considering both manufacturing and enterprise domains, to ensure investments in digital transformation initiatives are complementary and are aligned to a single vision to maximise their potential.

Digital Rising is supported by the ATS Global experience across traditional, modern and innovative technologies, combined with in-depth knowledge of integration and communications; users will be presented with solutions that best fit their requirements, rather than a solution based around a limited selection of technologies.

ATS Applied Tech Systems is a division of ATS Global B.V. Netherlands.

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## STAND C190

### Simplified electric drives

Pneumatics continues to be the tool of choice for simple movement and positioning tasks. However, in an increasingly digitalised world, electric automation and a continuous flow of information from the workpiece to the controller and the cloud are becoming indispensable. This enables users to reduce commissioning time, ensure cost-efficient production and handle shorter product life cycles. The savings in ongoing operations can therefore offset the higher investment costs of electric automation solutions.

With the Simplified Motion Series, Festo offers an automation solution that bridges the gap between easy-to-install pneumatics and smart electric automation to make a user's production more efficient through simple plug and work.

The series consists of different electromechanical components with an application-optimised combination of motor and servo drive, known as the integrated drive. This means that no external servo drive is needed and users can commission the system quickly and simply. The drives are suitable for simple movements between two mechanical end positions, without sacrificing optimised motion characteristics, gently cushioned travel into the end position or simplified press-fitting and clamping functions.

Neither software nor a PC is needed for commissioning with the plug-and-work principle, as all the parameters are set manually on the actuator. Users can connect the Simplified Motion Series directly to the controller using digital I/O (DIO) or IO-Link, which are both integrated as standard.

At AUSPACK 2022, Festo will demonstrate 'plug and work' and how the new electric drive series combines the simplicity of pneumatics with the benefits of electric automation.

**Festo Pty Ltd**

[www.festo.com.au](http://www.festo.com.au)



## STAND H142

### Positive displacement pump series

The Universal 3 Series is the latest addition to the Waukesha Cherry-Burrell positive displacement pump family by SPX FLOW. They are engineered to perform in food and beverage, dairy, pharmaceutical, personal care, chemical and many other industries.

The pump series comes in 11 different sizes and offers the following features: standard 316L stainless steel body and cover, standard 304 stainless steel gear case; operating pressure capacities up to 500 psi (34.5 bar); temperatures of up to 149°C for standard pump configurations; and multiple seal options.

The series also features Waukesha '88' alloy rotors that can be run with close clearance to the 316L stainless steel fluid head without galling or seizing should inadvertent pressure surges cause contact. This results in low slip operation thus providing high efficiency, good priming ability, metering capability and flow control.

Other features include: front loading seal design sealed from product zone; assembled and tested in Delavan WI, USA; and many options are available including an aseptic configuration.

Superior Pump Technologies and Dynapumps are authorised distributors for SPX FLOW Waukesha Cherry-Burrell, APV, Bran-Luebbe and Johnson Pumps. The companies hold a large stock of genuine pumps and spare parts.

Superior Pump Technologies is also a Certified SPX FLOW Repair Centre.

**Superior Pump Technologies**

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**STAND B145**



## Artificial intelligence solutions

SICK sees artificial intelligence as the key to enter a new era of sensor intelligence, which means the possibility to solve more demanding tasks; quickly adapt to changing conditions; and easily recognise patterns more quickly.

Valuable data is collected by SICK's sensors, interpreted by its algorithms so users can focus on the big picture, optimise their workflows and make efficient use of their resources.

The company can help to unlock the full potential of intelligent sensors with deep learning solutions.

Deep learning is a subset of artificial intelligence that enables computers to mimic human decision-making and problem-solving. Its deep learning solutions can help users to be more precise and flexible. The company can help to provide users with the key to solve technical challenges in many applications.

For example, bottle-washer machines in the beverage industry need to know if they clean new or returned glass. Selecting the appropriate program has previously been done manually to prevent potential downtime. Now, by using the InspectorP62x 2D vision camera combined with the Intelligent Inspection SensorApp, bottles are easily classified into new or used glass in the infeed zone of the cleaning machine.

Learn more about AI solutions by visiting the company on stand B145 at AUSPACK 2022.

**SICK Pty Ltd**

[www.sick.com.au](http://www.sick.com.au)



**STAND E025**

### Batch cooking system

An R&D scale of the ShearTherm cooker with integrated M4E (Magnet 4 Emulsion) will be on display stand E025 at AUSPACK 2022.

The ShearTherm batch cooker is designed with high shear mixing flexibility for high powder content recipes to achieve homogeneous, fully hydrated, blended and cooked product.

The 'M4E' (Magnet 4 Emulsion) system optimally creates fully hydrated dispersions and emulsions with magnet technology.

Suitable for processed cheese, cream cheese, mayonnaise, sauces and more, the system is designed to provide flexibility and control of mixing and cooking.

Now manufacturing batch cookers featuring the direct steam injection technology from its Gold Peg RotaTherm continuous cookers, Natec Network has a wide range of cooking solutions suitable for low to high viscosities, for homogenous products or with large particulates, for pasteurisation and UHT with production rates from 100 kg/h, right up to 10,000+ kg/h.

The company also has a FreeTherm batch cooker, which is designed to blend, cook and de-aerate a wide range of products.

For processed cheese, it has filler and formers — the FreePack for IWS (Individually Wrapped Slices – retail style) or the FreeSlice for SOS (Slice On Slice – foodservice).

Gold Peg is the Australian partner of the global Natec Network. Simon Donnelly, Gold Peg MD, will be on hand at AUSPACK to discuss visitors' food manufacturing requirements.

**Gold Peg International Pty Ltd**

[www.natec-network.com/australia2022](http://www.natec-network.com/australia2022)

# TXM

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## STAND C172

### Tear strip solution for packaging

The Vivo 18 allows tear strips to be applied to cardboard packaging by direct adhesive application. The same application head can be used to produce silicone release liners cost-efficiently.

High-quality hot melt coatings form the basis for practical tear strips and secure silicone release liners on shipping packaging made of cardboard or paper as well as film. The new Vivo 18 coating head offers the properties needed for this: it is narrow, fast and delivers a precise adhesive application.

Precise means a uniform adhesive application from start to finish — with precise edge definition and clean cut-off. The coating head achieves uniform adhesive application through optimised distribution of the adhesive in the nozzle. The negative-closing jetting element and the ability to finely adjust the nozzle alignment to the substrate ensure a clean cut-off.

Packaging manufacturers can apply unglued tear strips directly to cardboard using the coating head. This is because adhesive application from a width of 2 mm is uniform and precise even at speeds of up to 200 m/min, thus ensuring good adhesion. For silicone release liners, the production speed can even be increased to 250 m/min. Format changes in the application width are easily carried out via exchangeable masks in the nozzle.

The coating head is narrow at 32 mm. Two heads can be mounted next to each other to save space, for flexible variants up to a maximum of two silicone release liners and one tear strip. In addition, the tapered nozzle ensures that adhesive can also be applied close to folded cardboard or the existing tear strip.



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## STAND B185



### Tray sealer

The MECAPACK O²6000IM is the latest multiformat and skin packing tray sealer from Linco Food Systems. It has a compact and robust full stainless-steel construction and clean hygienic open design.

Features include Mecapack's Intelligent Motion brushless motors full servo-drive system for smooth and customisable trays and products transfer through the machine; minimised and optimised power and energy and gas consumption; single-and/or double-lane configurations; easy access to all components for easy cleaning and maintenance; quick format and tool changes, and multi-format processes including seal only, vacuum and gas and seal; and skin packing with top film pre-heating for higher efficiency and speeds.

Options are also available for tooling change and storage trolleys printed registered top web, pre-heating station for top web for skin application, integrated tray denesters, upstream and downstream conveyor solutions, integrated printing systems for the top web, automatic filling stations, integrated tray turners or inline systems at exit, and top lid application systems.

The O²6000 Intelligent Motion Multi-Format and Skin machine is suitable for all types of solid, pasty or liquid products, and can work with many film types and structures including modern recyclable, mono-material, bio-degradable and compostable films.

The complete and flexible machine is suitable for users' tray sealing packaging needs.

Visit Linco Food Systems at stand B185 at the AUSPACK exhibition for a full review and demonstration of the O²6000 Intelligent Motion tray sealer.

**Linco Food Systems**

[www.linco.com.au](http://www.linco.com.au)

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## STAND D022

### Centrifugal sifters

KEK Centrifugal Sifters provide a high-capacity sifting and screening solution for producers handling food and other powdered material.

With high-speed, high-efficiency sifting and screening performance, the sifters screen material to remove unwanted material and de-risk from contamination. Material that isn't to the required size is separated out.



Other features include: quick and easy to clean, with hygienic cantilever design; new Paddle assembly design to provide an even more hygienic view; cantilever shaft also ensures no oversize bearing or seal; 30-second screen changes, via easily

removable sifter screen for inspection and cleaning; additional easier inspection, cleaning and maintenance, due to oversized end door; and operator friendly — no tools typically required for stripping down and cleaning.

Available in models that can process from a few kilograms per hour to over 90 tonnes, the range includes gravity and inline pneumatic conveying designs.

The KEK Centrifugal Sifter K650C model will be on display on the Schenck Process stand D022 at AUSPACK 2022.

**Schenck Process Australia Pty Ltd**

[www.schenckprocess.com.au](http://www.schenckprocess.com.au)



## STAND H114

### Shipping container desiccant

The Absorgel Hanging desiccant is Absortech's premium shipping container desiccant. Calcium chloride and starch powerfully combine to absorb up to 300% of the unit's weight in moisture. Measuring 145 x 1520 mm, it is a highly versatile unit that can be hung vertically in container recesses using the patented AbsorHook and adhesive pad or hung horizontally using embedded grommets, making it suitable for wide and/or high loads.

The unit is easily installed with the AbsorStick allowing access to the container roof without need for a ladder. Moisture is captured in a gel form that will not leak.

It can be used alongside the transport of agricultural products, textiles and leather products, wood and paper, electronics and machinery.

Absorgel Hanging is part of a suite of desiccants from the Absortech Group that affirm the Group's commitment to sustainability. The desiccant range has achieved its carbon neutral goals through product redesign, the minimisation of single-use plastic componentry and the introduction of the circular economy program. Unavoidable carbon emissions are offset via Gold Standard projects of Sustainable development.

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**INNOVATIONS FOR SOLUTIONS**





# Food traceability about to get fruity

**A**ustralian Table Grapes are leading the way in food traceability — benefiting from a \$650,000 project investment that will help to protect this valuable export by developing producer-to-consumer traceability.

Table grapes are Australia's largest fresh horticulture export. Interestingly, valued at \$800 million in total, with \$623 million export product. 90% of Australia's table grape exports are generated by producers and exporters based in the Victoria region of the country alone.

Managing such a vast market across the entire Asia Pacific region is not without its challenges. Positioning the unique flavours and quality of the Australian Table Grapes with both importers, retailers and most importantly consumers is paramount to simply selling more table grapes and demonstrating the higher quality of the produce.

To date, true visibility and full transparency throughout the supply chain has been an elusive target. But societal, economic and legislative pressures have put pressure on this area to mature, and new technology around digital identities stands to revolutionise supply chains and the industry itself.

<img>

It's therefore understandable why the Australian Table Grape Association (ATGA) has been taking steps to address this need for greater transparency. Working together with Australian-based Result Group and its traceability partner EVRYTHNG, a Digimarc company, ATGA has embarked on a new traceability system, funded by Agriculture Victoria.

The implementation of this new technology has enabled ATGA to mass serialise individual items by digitally printing unique identities onto each carton and also extending the process to Poly Bunch Bags and Clam Shells at a unit level. Coupled with enhanced computing power and cloud storage, this enables all of the information around the product's life cycle to be accessed by simply scanning a code — delivering true end-to-end visibility for the first time at not only a consumer level but also through all points of the supply chain, from farm to importer to retail distribution and store.

Technology provider and traceability company Result Group applies unique serialised GS1 Digital Link-enabled QR code labels to export table grapes, allowing the automated collection of data from farm and supply chain. This can then be shared with consumers to authenticate the food's precise origin and engage with the brand through an open platform smartphone scan. No special apps are necessary, and both business customers and end consumers can gather the data required without the need for any change to devices, either smartphone or industrial scanner.

The Active Digital Identity embedded in the QR code labels ensures each one is unique and traceable — an important innovation in combating all manner of food fraud. The labels carry critical international traceability data, based on GS1 current standards, covering consumer pack units, cases and pallet codes, as well as time and temperature logging, which will be captured through the EVRYTHNG Product Cloud database.

The implementation of this new traceability system has far-reaching benefits across the board. In addition to enabling table grape producers and exporters to be sure of the safety and quality of the produce being delivered to consumers, it also allows for enhanced planning and logistical management, facilitating increased capacity and responsiveness in a fast-moving global market — helping to leverage the value of Australian Table Grapes.

There is no doubt that the use of this technology stands to revolutionise the agriculture industry as a whole — giving consumers the data they demand, providing clear insights across the supply chain and giving the industry and brand owners the tools to enhance business operations, all of which will deliver far reaching benefits.

Follow this link to find out more about this breakthrough technology for product digitisation: <https://resultgroup.com.au/traceability-authenticity-and-consumer-engagement/>

Result Group  
[www.resultgroup.com.au](http://www.resultgroup.com.au)





STAND G130

# Open IIoT group to exhibit 'smart' demo at AUSPACK 2022

Open IIoT is on the road again and can be seen live and in action at AUSPACK 2022 in Melbourne.

Started in 2018, the Open IIoT group is made up of a group of Australia's key players in the automation and manufacturing industry: SMC Corporation, NORD Drivesystems, Balluff, Beckhoff Automation, ZI-Argus and recent addition KUKA Robotics.

The cohort was formed to promote and assist with the adoption of Industry 4.0 among manufacturers. Together they have used their expertise in pneumatics, drive technology, sensors, automation, systems integration and robotics to create a fully operational demonstrator (demo) unit. This demo unit showcases all the Open IIoT members' components working together in unison communicating their 'smarts' to an Industry 4.0 software platform.

An Open IIoT spokesperson said: "As component suppliers with a global presence we have a wealth of knowledge and examples in various countries, industries and applications. The adoption of Industry 4.0 was well established in Europe (where most of us have our head offices) but the pace of uptake in Australia left us with concerns.

"For our businesses and the Australian economy, it is vital that the barriers to implementation be removed and that we get our manufacturing section up to speed with digitisation as soon as possible."

The demo unit is designed to demonstrate the benefits of full IIoT integration in a visually accessible way. This is illustrated by programming the unit system to circulate various sized boxes based on their size, colour, texture, RFID and external labelling. The demo unit provides a high-level overview of Industry 4.0 in practice and shows how implementing IIoT can provide the user



*Jozef Ceh, SMC Corporation Australia  
New Zealand Digital Transformation  
and Industry 4.0 Manager*



*Jim Wallace, Balluff Australia  
Sales Manager*

with intelligence that can increase production, reduce downtime, help predict trends and allow for adaptability within the business.

Visitors to the Open IIoT Stand G130 at the AUSPACK 2022 exhibition will be able to see first-hand how the collaboration of automation components can create a comprehensive IIoT end-user system, complete with a production dashboard that unlocks the power of the system data collected. Key areas such as predictive maintenance, energy savings, horizontal and vertical networking, dynamic changes and data analytics are brought to light through this unique creation.

## **Seminar series: Quick wins for Industry 4.0 implementation**

Open IIoT members Jim Wallace (Balluff Australia Sales Manager) and Jozef Ceh (SMC Corporation Australia New Zealand Digital Transformation and Industry 4.0 Manager) will be hosting a seminar at AUSPACK 2022, which is titled: 'Quick wins for Industry 4.0 implementation'. Visitors to this informative session will hear from Jim and Jozef as they explore the 'quick wins' to get users out of the starting blocks and into Industry 4.0 implementation. Much like the goal of Open IIoT, this interactive seminar aims to make the journey to Industry 4.0 as simple as possible by cutting through the jargon and sharing real-life examples.

Open IIoT  
[www.openiiot.com.au](http://www.openiiot.com.au)

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## CASE STUDY

### Shaking things up

When silos, hoppers and bins stop flowing, productivity drops along with it. Using a hammer to break up bridging may seem like a short-term solution, but it comes with significant safety risks. Oli Vibrators offers an alternative fix.

A tell-tale sign that something isn't right with a process's flow are hammer marks and chipped paint on a silo, bin or hopper.

Poor flow can be caused by a number of reasons, whether it is moisture ingress into the product or silo design leading to ratholing and bridging. Whatever the case may be, the flow-on effects can bring significant productivity penalties and safety hazards.

Mark Thompson, General Manager at Oli Vibrators, said it can be common for companies to attempt to manually restart the flow. "Occupational health and safety hazards abound when doing this. Not only is it bad for your bones to be swinging around a large hammer constantly, but it's also not good for your hearing — we aim to preserve the structure and person," he said.

"On top of this, a lot of hoppers are elevated, with only small ladders leading up to them. That means you'll have someone in a precarious position, high above the ground, swinging heavy objects. It's a recipe for disaster."

Dents in expensive equipment can further aggravate bad flow, as the engineered metal is bent and warped out of shape through sustained abuse.

It's also a poor use of labour resources. Not only are employees wasting energy and time on heavy manual labour, but customers and transport workers will be waiting for the load to finish — adding to costs incurred. Industries involved in bulk solids handling also tend to be ones that can't afford to have their supply chains held up — concrete needs to be laid and food needs to be distributed.



As part of his job, Thompson visits sites that are struggling with flow issues in their vessels and helps them find a long-term, effective solution. "It starts with a phone call," he said. "We head out onto site and find out what would help improve productivity at the site in the best way possible."

"We service pretty much any industry you can think of — our products can be found in industrial estates, farms and factories all around the country."

Oli Vibrators specialises in industrial vibration technology, providing quality European-built industrial vibrators, electric vibrators, frequency converters and aerators. The company has operated in Australia for more than two decades and has built up expertise in providing the right tools for the job. Specialists will find the right vibrator or aerator for a site, using the supplied dimensions and weights involved. Oli's experts will collaborate with the site's staff to find the most effective and economical product from its range each to correct and maximise flow.

Thompson said the company is proficient in the knowledge of its products and how to properly apply them. "Our staff have worked with silos and materials handling for years and we have enough case studies under our belt where we can use previous experiences to find new solutions," he said.

The company stocks industrial vibrators, electric vibrators, frequency converters and aerators. Each component is tested at the company's manufacturing plant before it goes to the user site to ensure every installation is as reliable as possible.

**Oli Vibrators**  
[www.olivibrators.com.au](http://www.olivibrators.com.au)



## STAND H166



### Product inspection equipment

OFI is an Australian manufacturer of product inspection equipment for the food industry.

OFI designs and manufactures its checkweighers and metal detection systems here in Australia and have recently being awarded the "Made In Australia" accreditation for its weigh and inspection systems.

OFI provides equipment such as: checkweighers, metal detectors and X-ray inspection systems for various industries to help streamline production processes.

With 25+ years of experience working with industrial users, it works in partnership with both domestic and international manufacturers to provide best-in-class components to ensure maximum uptime in users' production lines and ROI.

In most cases, its product inspection systems are designed specifically to suit the user's exact requirement whilst maintaining core flexibility in both mechanical and software design to allow additional customisation.

**OFI Weigh & Inspection Solutions Pty Ltd**  
[www.ofiinspection.com.au](http://www.ofiinspection.com.au)





## STAND H180

### Measuring and switching multifunctional sensor

The ODT 3C sensor from Leuze is designed to handle both measuring and switching tasks. The 2-in-1 solution is therefore suitable for a wide range of automated industrial applications.

With the ODT 3C from Leuze, only a single device is needed: the innovative sensor can perform both switching and measuring tasks in the machine control, which makes it an efficient and economical 2-in-1 solution.

The sensor transmits measurement values and extensive diagnostic data via IO-Link. The data includes temperature values, warnings and signal quality. It features black-and-white behaviour ( $< \pm 3$  mm at 150 mm). The operating range can be easily adjusted via the teach button, line or IO-Link.

The sensor also offers functional reliability: active ambient light suppression prevents faulty switching, even when exposed to direct light from LED hall lighting systems. LEDs that are easily visible from all sides allow users to quickly read the status of the sensor. Two independent switching outputs and sensor models with warning output or a small light spot (pinpoint) round out the sensor's functions. This enables plant operators to use the ODT 3C flexibly in a wide range of applications.

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STAND F022

# Pumping particles is no problem

*Matt Hale, International Sales & Marketing Director, HRS Heat Exchangers*

**P**umps are an integral part of many food processing facilities, but care must be taken to select the correct pump for both the product being moved and the process requirements. Physical damage to the product, as well as the influence of factors such as pressure and shear stress, must all be taken into account. When you wish to pump large solid items, such as fruit and vegetables, these challenges become even greater.

There are many types of pumps on the market, including rotary lobe, rotary piston, reciprocating positive displacement, progressing cavity, peristaltic hose and air-operated double diaphragm designs. However, not all of them are capable of maintaining product quality at a reasonable cost while keeping the required pressure in the system (in particular, progressive cavity pumps can break the product, while double diaphragm pumps result in a low pressure drop). Furthermore, traditional pumps can be expensive to maintain while lobe pumps have low flow rates.

To overcome these difficulties, HRS developed the BP Series of hygienic reciprocating, positive-displacement pumps, which are suitable for a wide range of difficult-to-handle food products, including whole peppers, strawberries and baby carrots, as well as sauces, dips, fruit purees and many others.

Positive displacement pumps have an expanding cavity on the suction side of the pump and a decreasing cavity on the discharge side. Liquid flows into the pump as the cavity on the suction side expands and is forced out of the discharge side as the cavity collapses. The HRS BP Series Piston Pump



*The HRS BP Series is a range of hygienic reciprocating, positive-displacement pumps.*

is operated either hydraulically or pneumatically (depending on available air supply pressure) and incorporates a separator fitted between the piston and the hydraulic chamber to ensure that there is no contact between the product chamber and the hydraulic oil (if fitted).

The standard BP Series has an adjustable flow rate of between a minimum of 200 L/h and a maximum of 12,000 L/h and features a high pressure drop of up to 30 bar. It is suitable for a wide range of high-viscosity, shear-sensitive and large-particle-containing fluids. Clap valves allow pumping of whole fruits or vegetables and an alternative piston pump with a pneumatic cylinder can be supplied for low pressure applications of less than 5 bar.

Over the years three additional models have been added to the BP Series range:

- BPM Series — a skid-mounted, mobile version allowing it to be used

across multiple production lines.

- BPSC Series — designed for highly viscous products, and those which are produced and packed at low temperatures, it features a screw conveyor to feed the pump inlet.
- BPH Series — a horizontal version with a vertical inlet and a ball valve instead of a clap valve.

The HRS BP Series is designed to meet many challenges, whether processing whole fruits or vegetables, delicate dairy products like creams and sauces, highly viscous materials such as hummus or larger particles such as coleslaw or fruit compote.

*HRS Heat Exchangers Pty Ltd  
[www.hrs-heatexchangers.com/anz](http://www.hrs-heatexchangers.com/anz)*





## STAND G085

### Collaborative robot

There is a growing industry requirement for user-friendly, safe, collaborative robots that can work alongside humans in environments such as production, logistics, warehousing and even health care.

ABB has now launched its GoFa cobot (short for collaborative robot) — which is designed to deliver class-leading reach and advanced and comprehensive safety features to work seamlessly with humans. It's easy to set up and operate — a common feature across all of ABB's collaborative robots.

GoFa stands for Go far. Go faster. Go further.

The cobot is designed to be a collaborative partner for high payload applications up to 5 kg. Engineered for speed, safety and ease of use, the cobot enables businesses to go faster and go further.

The cobot can glide across a factory floor for parts transfer, material handling, inspection, picking and storing, or to take on those mundane, repetitive tasks to free up workers to attend to other essential processes.

See ABB's new award-winning GoFa collaborative robot at AUSPACK 2022 on Stand G085. Visitors to the stand can discuss the wide-ranging possibilities or personalised demos can be booked with GoFa, which is now available at ABB's Melbourne office.

**ABB Australia Pty Ltd**

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### History of a flexible bagger

ROVEMA's SBS vertical form-fill-seal machine was originally designed in the 1970s and consisted of two parts — a vertical bagger and coupled horizontal bag-top closer. The units were used throughout Australia in the 70s and 80s mostly for packing coffee into block bottom bags that required a tin-tie (folded metal strip) closure.

Fast forward to the 1990s, the SBS (as it's now called) made its debut at Interpack, Germany, as a high-speed, form-fill-seal bagging machine capable of all the functions of a standard vertical FFS machine, with the added flexibility of not just one, but a variety of top closures.

The versatility of the SBS has been well proven, and today there are over 700 SBS machines installed in manufacturing plants worldwide. There are several installations locally in Australia and New Zealand, and soon into Papua New Guinea, for packaging loose-filled products such as dried fruits, sugar, pasta, coffee and flour.

The machine can also handle delicate products such as biscuits and pastries using a technique with minimal drop height or dedicated product stacking and inserting, all whilst maintaining product integrity.

Available in single- and twin-tube formats, the machine has a selection of more than 40 different styles of top closures. With versatility in bag format, it can package up to 160 bags/min.

ROVEMA has also invested in research and development to ensure its bagging machines keep up with the new packaging designs and formats. It works closely with packaging film suppliers to ensure sustainable packaging films can be used on all its equipment without any loss of performance.

For example, kraft paper is one material that offers basic tear prevention and insect protection. Coated with a thin water-soluble sealing emulsion, it offers a slight water-vapour barrier and a similar product shelf-life to traditional packaging films, yet is suitable for paper recycling. For products that have a higher moisture content, fats and oils, such as chocolates and pastry, Rovema has tested kraft paper films with seal coatings of 70 g and proved that they perform as well as traditional laminated films. Kraft paper film containing less than 5% additives are suitable for paper recycling collection. Over 250 different sustainable films have been tested.

ROVEMA GmbH is based in Germany and has been designing and manufacturing machines for over 60 years. For 47 of those years, JL Lennard has been the local Rovema agent partnering with customers in Australia, New Zealand, Fiji and PNG, for their packaging projects, managing supply, installation and training as well as post-installation service and ongoing technical support.

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## CASE STUDY



STAND A105

### Optimising a French sauce and condiment operation



Sidel and Serac have worked to assist Lesieur in its bottling operations in the northern region of France. The French company, which produces oils, sauces and condiments, was looking to boost the productivity of its bottling and reduce scheduling constraints. Sidel's expertise in bottling and Serac's in filling and capping meant that the sauce company was able to boost productivity and efficiency, while also introducing a recycled bottle to its product range.

Three Sidel Serac Combis were installed at the Coudekerque plant, with blowing, filling and capping functions. The lines are able to produce bottles from 500 mL to 3 L and the speed ranges from 15,000 bottles per hour all the way up to 30,000.

The plant previously had seven bottling lines, operating at a relatively low speed. With the redevelopment of the facility with the new machinery, there were only five lines. However, despite this, the capacity is higher thanks to the higher operating speed.

The reduction in production lines also meant that the plant is easier to move around. Mould changing time was also shortened, resulting in production downtime being minimised.

The operation's sustainability increased not just through the use of recycled plastic but with the amount of plastic in each bottle also being reduced. Electricity use was also lowered through optimisation of the oven and lamps, and the reduction in blowing pressures for bottles.

"We have developed an excellent partnership with two historic suppliers, Sidel and Serac, who have proven their expertise in the oil bottling field, while also leveraging the experience of the technicians who have been onsite throughout the project. With this three-sided partnership, we are sure to take a big step forward," said Christophe Lance, Plant Manager at Lesieur.

Sidel Oceania Pty Ltd  
[www.sidel.com](http://www.sidel.com)

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## STAND H192

### Smart manufacturing tool

The TilliT smart manufacturing tool combines asset performance, work order execution, digital workflow, quality management and production scheduling all in one place.

Automation is not new and there is myriad of options available to today's manufacturers to improve production. Most of these approaches are focused at the equipment level, look to optimise a single process and require significant capital investment. For technology and software systems, they often have to be built from the ground up with specialist skills, take a long time to deploy and can be a challenge to support long term.

TilliT combines equipment management with task orchestration to operators in a simple-to-use, scalable subscription licence model for all sizes of manufacturer.

It is 'no-code' platform that incorporates five tools into one to provide operations, quality and maintenance managers with greater control over their factory processes using real-time information.

Suitable for the food production industry, the system has been used at Lifestyle Bakery. According to the bakery, the system was able to remove all of its QA paperwork and blend process efficiencies and QA systems together to provide a clearer picture of how its lines were running, and having real-time data has helped with compliance.

**TilliT**

[gotillit.com/](http://gotillit.com/)



FMCG Industry Solutions has launched a test kit for gluten, expanding its product portfolio for food allergens. The AgraStrip Gluten G12 is a lateral-flow device for on-site factory testing to verify the presence of gluten in the environment or products.

The kit uses a next-generation antibody called G12 that targets the most immunotoxic proteins for consumers intolerant to gluten. Call us now and learn how to prevent allergen cross-contamination.



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## STAND E002

### Liquid filling machines

The ASSET Packaging Machines single-, twin-, four- and eight-head liquid filling machines are designed for ease of use and versatility across a wide variety of industry and product needs. With the ability to fill liquids of various viscosities between 5 mL to 5 L and multiples thereof, its Australian-made machines can provide a consistent filling process down to 0.05% variance thus quality assurance for volume control. Its interchangeable nozzles and cylinders ensure that users can continue to meet the needs of their growing and changing product base, which include easy volume and container changes for the life of the machine.

The company works with start-up businesses providing single-cylinder liquid filling through to multinational operations with eight-head filling systems. It provides bespoke liquid filling production solutions, with Australian-made, in-house manufacturing and servicing to ensure ongoing support.

ASSET Packaging Machines has operated within Australia as a manufacturer of liquid filling machines and associated automated production lines for over 30 years.

**Asset Packaging Machines**

[assetpackaging.com.au](http://assetpackaging.com.au)







## STAND G180



### Ozoniser for water products

The Kronos Ozonomic ozoniser works on the principle of dielectric-barrier discharge to break down oxygen into ozone molecules, which can be added to drinking water before filling. The solution is suitable for producers of packaged water who are looking to sterilise water without leaving any residues.

The solution doesn't need a separate oxygen supply as it converts oxygen to ozone through the use of compressed air. A downstream stainless steel injection system is operated at a pressure of 2–3 bar, which allows for efficient ozonisation pressure even with high water temperature or pH value. The typical amount of ozone added to still water is 0.4 mg/L of product.

After the water has been treated in various modules of the Hydronic series, it is passed through the Ozonomic, which ensures its microbiological stability, so that a conventional process can then be used for packaging it without impairment of quality and product safety.

The ozone sterilises the water itself and, at the same time, it also disinfects all container and closure parts coming into contact with the product.

**Krones (Thailand) Co Ltd**

[www.krones.co.th](http://www.krones.co.th)



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## CASE STUDY



STAND B177

### Sealing solution for raw dog food maker



Proseal tray sealing technology has enabled natural dog food specialist Naturaw to automate its packing process in order to meet strong demand for its products, further enhancing the overall quality of the packaging while maintaining the company's commitment to eco-friendly packs.

Producing fresh, natural, raw dog foods, Naturaw uses only high welfare meat from British farms and all products come in compostable packaging. With fast-growing sales, the company needed to replace the hand-packing operation that placed rigid lids onto the trays with a much faster automated solution. In particular, the use of the rigid lids could not consistently achieve the necessary hermetic seal to afford the fresh products maximum protection and extended shelf life.

The Proseal GT0s MAX inline tray seal machine is now able to seal trays at up to 60 packs per minute. In particular, Proseal's E-seal technology provides an energy-efficient seal system that delivers an increase in seal force to ensure a good seal.

Equally important, Naturaw was able to use Proseal's Test Kitchen facilities to confirm full compatibility of its trays with the sealing process.

"The service from Proseal has been impeccable," commented Tom Johnson of Naturaw. "With the GT0, we can not only meet current demand but have the capacity to further increase production ahead of a fast-growing market — and we can be assured that our customers are receiving their high-quality dog food in the best possible condition."

"Sustainability is a vital part of our offering, so it was especially vital that our new automated system could still handle our carefully chosen eco-friendly packaging. Thanks to Proseal's Test Kitchen, we were able to fully confirm the GT0's suitability prior to purchase."

The Proseal GT0s MAX combines high throughput and rapid two-minute tool changes in a compact design that can maximise use of space in its chassis to increase seal capacity. The tray sealing machine is incorporated into a fully automated line at Naturaw's factory at Thorp Arch, West Yorkshire, that also comprises tray denester, filling system, sleeve, checkweigher and metal detector.



The machine's hygienic, food industry-approved construction includes full washdown protection. A user-friendly menu-driven control panel featuring step-by-step prompts, error and status displays, and batch pack counter, ensures ease of set-up and operation.

Proseal Australia  
www.prosealaustralia.com



## STAND E150

### Filling and capping machine

The Mengibar MassFlow Filler-Capper flexible and stable filling technology from the EU is being introduced to Australia, with comprehensive technical support from Foodmach.

Mengibar specialises in filling and capping for explosive environments and works with FMCG brands to help them meet ATEX regulations. It is suitable for difficult-to-fill products such as highly viscose, high-foaming, swirl-fill, hot, explosive, corrosive, abrasive or volatile liquids from low to high pH using its patented technology.

The solution is claimed to save between 8 to 10 tons of product loss per year using Mengibar's scientifically accurate filling algorithms and dispensing technology.

Capping stations for screw-on caps and dosing pumps feature torque control using 'hybrid magnetic clutches' developed by Mengibar from a combination of 'synchronous' and 'magnetic hysteresis' principles in one single clutch. The improved accuracy helps to improve quality control.

Fast recipe-driven changeovers and even faster cleaning are designed to increase the user's line efficiency by up to 20%. Thanks to the Mengibar 360° CIP drain pan that covers the entire filling area, cleaning and product priming are done with the filling stations opened simultaneously, generating a high flow at high pressure.

The MassFlow Filler-Capper can provide production rates of up to 30,000 bottles/h. When Foodmach installs a filler, it's integrated for full Industry 4.0 connectivity.

See this machine in action at AUSPACK 2022, integrated with laser coding from Markem-Imaje.

**Foodmach Pty Ltd**

[www.foodmach.com.au](http://www.foodmach.com.au)



### SHARK-BRC METAL DETECTOR

OFI design and locally manufacture the SHARK-BRC metal detector utilising the German engineered Shark series metal detector sensor head. Cassel-Inspection have developed the Shark series over the past 25 years and have the most advanced detection capability currently available.

The SHARK-BRC was developed to ensure our customers have the highest level of detection capability and safety whilst inspecting their products. The SHARK-BRC complies with all food safety standards including HACCP and BRC compliance.



Our SHARK-BRC is supplied with the following features, as standard;

- Fully enclosed inspection tunnel
  - Failsafes to include, reject verification, bin full, bin door open, pack block sensors, low air, rejecter fault, conveyor speed control and reject tracking
  - Intralox modular belting system, FDA compliant and heat resistant up to 120°
  - Stainless steel design for wash down applications, including a large lockable bin with inspection window
  - Intuitive user interface with auto setup, user log in levels and data recording
- Our Metal Detectors are manufactured in Melbourne and supported throughout Australia by our local service support teams.



For more information, please contact our office on

1300 989 079 or email: [sales@ofiinspection.com.au](mailto:sales@ofiinspection.com.au)





## STAND D150



### Air fried food manufacturing system

Heat and Control has developed the AirFry System (AFS) to help food manufacturers take advantage of new product opportunities in the growing market for air fried foods. The system brings together technologies designed to create lower oil content food products.

The system can be used to create air-fried/oven-fried products with the taste, texture and appearance of fried foods without using traditional (submersion) frying methods.

It provides a continuous means to produce a 'fried-like' product by applying a controlled volume of topical oil, followed by pressurised high-velocity cooking atmosphere from an impingement oven.

The system uses Spray Dynamics oil application equipment to ensure complete and uniform coverage of the product while keeping oil use to a minimum. This is paired with Heat and Control's AirForce Impingement Oven, which features uniform airflow and high levels of process parameter adjustment to ensure uniform and fast air fry time. The system works with standard batter and breading application systems.

Users have the option to install a complete new system or retrofit their existing impingement ovens with a spray applicator system.

**Heat and Control Pty Ltd**  
[www.heatandcontrol.com](http://www.heatandcontrol.com)



## STAND E140



### Anti-static ioniser gun

The IZG10 anti-static ioniser gun can quickly neutralise static and offers a low residual charge, using AC-type high frequency to apply the voltage. The product features LED lighting to help users find and remove both static and dust particles.

Two operating modes are offered — continuous and pulse blow — so that both continuous ionising and air options can be used depending on the user requirements. The flow adjustment valve and indicator allows the ionised airflow to be adjusted on the gun and controlled numerically.

The product is lightweight at only 200 g and has been ergonomically designed to be comfortably held for long periods of time.

**SMC Australia | New Zealand**  
[www.smcanz.com](http://www.smcanz.com)



## STAND H050



### Electric multidirectional forklift

Combilift has launched the Combi-XLE. It is a multidirectional forklift with a 5-tonne lift capacity. The product is emission-free due to it being an electric vehicle, and due to the lack of combustion engine and hydraulic transmissions, servicing is required less often which can reduce ongoing costs. The product uses water-based paint to reduce pollutants used during its building and runs quietly thus reducing noise pollution.

It has been specifically designed to work in tough environments so it features high ground clearance, large, cushioned front and rear tyres, and a large cabin. Its design also allows for it to operate inside and outside, thus facilitating multiple use cases without users having to expand their fleet.

The product has all-wheel traction that is designed to enhance breaking while reducing tyre-wear and load swing and the steering system provides a smaller turning radius, resulting in an improved user experience for the operator.

**Combilift**  
<https://combilift.com/>



## STAND G105



### Custom engineering services and drag chain cable range

LAPP Australia will introduce its drag chain cabling and custom engineering services at AUSPACK 2022.

Highlights on stand G105 will include the range of industrial and electrical cables on the Australian market, including: ÖLFLEX power and control cables; SKINTOP cable glands, as used widely in the food and beverage industry; ETHERLINE data communications systems for ETHERNET connections; UNITRONIC data cables; EPIC Connectors; SILVYN robust cable protection and supply systems; HITRONIC super-fast fibre-optic cables; and FLEXIMARK cable marking systems.

LAPP will also be displaying its low smoke zero halogen (LSZH) cables, as well as cables specifically designed for high heat or low temperature and refrigerated environments.

Complementing this range will be its drag chain cables range. LAPP ÖLFLEX flexible drag chain cables (also known as energy chain cables) are designed to be used in applications that are constantly moving. They can ensure the fail-safe supply of energy, data and impulses and are engineered to guide and protect cabling. Such integrated systems are suitable for automated manufacturing, robotics and industrial manufacturing.

Value-add services to further enhance the range include: Servo Connect solutions engineered to help users drive momentum and futureproof factories, as well as custom cables, fabricated to individual company specifications.

Additionally, a representative of TOSIBOX will be on Stand G105 to explain and demonstrate the benefits of remote access solutions to ensure dataflow within operational technology networks. LAPP is an authorised TOSIBOX distributor in Australia.

**LAPP Australia Pty Ltd**

[lappaustralia.com.au](http://lappaustralia.com.au)



## STAND E150

### Wraparound case packer

Pack sizes keep changing, and it can be a headache to have to adjust the case packer every time this happens. Foodmach has now created a flexible wraparound packer to solve this challenge.

Foodmach took on board all its customers' case packing pain points and went back to the drawing board to redesign the wraparound case packer from the ground up.

The result is the new Foodmach Robomatrix Wraparound Packer, with servo adjustment. It features a fixed height magazine, so adjusting the pack size is easy. Changeovers are tool-free and generally take less than 10 min.

It runs both wide and narrow face cluster packs and is claimed to be technically different from anything on the market. It's suitable for handling the variations in poorer board quality of heavily recycled boards.

Foodmach case packers are specifically designed for hygiene. There are no hollow frame sections, which are impossible to clean, and no horizontal surfaces where product can accumulate. They're made from quality stainless steel for presentation, hygiene and longevity, unlike other case packers made from mild steel.

When Foodmach installs a case packer, it's integrated for full Industry 4.0 connectivity.

Key benefits include: RSC/shelf ready/wraparound; max production 30 cases/min; complete flexibility; fast changeovers < 10 min; 'Clean Design' framework for hygiene; Industry 4.0-ready; intuitive controls; small footprint, modular design; stainless steel construction; and local support.

See how Foodmach integrates case packing with Markem-Imaje's versatile range of coding and labelling equipment at AUSPACK 2022 on stand E150.

**Foodmach Pty Ltd**

[www.foodmach.com.au](http://www.foodmach.com.au)

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## CASE STUDY



STAND C202

### Machine washes and racks kegs for brewery with pub

Once one of the biggest beer capitals in Europe, Dortmund's brewing tradition goes back over 750 years; however, the art of brewing has gradually waned in significance in the last few decades.

Bergmann Brauerei brewery has, however, upheld the trade in the Ruhr metropolis since 2007 and recently invested in a KHS Innokeg AF1-C1 with a washing and a racking module for returnable and non-returnable kegs.

Founded in 1796, the brewery has developed popular beverage brands in the Ruhr metropolis but the operation was shut down from 1972 until 2005, when microbiologist Dr Thomas Raphael procured the trademark rights and again fired up the tanks. Since then, the brewery has experienced a steep upwards trend, and in 2017 construction of a new brewery complete with its own pub was finished. Now, 10 styles of beer are produced at the brewery, from strong beer through pilsner to dark and export beer.

When it came to purchasing equipment for his new brewery, Raphael opted for an Innokeg AF1-C1 keg washer and racker from his neighbour, KHS, which is located just a few kilometres away. "The local proximity of KHS is of course ideal. Ultimately, it was the technology of the new kegging system that had us convinced, however," Raphael explained. "It's compact, efficient and has a very high standard of hygiene."

With its new kegging module, the brewery fills up to 35 stainless steel kegs per hour. Thanks to its space-saving design, the machine easily fits into the small brewery. It also provides more independence and flexibility. "We can now rack beer on our premises in a very short time indeed and thus quickly react to increases in demand. This is a great advantage," Raphael said.

KHS has trained the brewery's personnel so that they are able to perform minor maintenance work and do any possible repairs themselves, among other things. Using the Remote Diagnostic Service, the brewery has access to technical support at all times, even without having KHS employees onsite. And should the need arise for more complex assistance, KHS is just a round the corner.

KHS Pacific Pty Ltd  
[www.khs.com](http://www.khs.com)



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