

# MODULAR CONVEYOR INNOVATION SET TO DISRUPT INDUSTRY

THE AUSTRALIAN DESIGNERS OF AN INNOVATIVE MODULAR CONVEYOR SYSTEM EXPECT IT WILL BE A GAME-CHANGING SOLUTION FOR THE RESOURCES AND BULK MATERIALS HANDLING SECTORS. **AUSTRALIAN MINING** REPORTS.



CONTAINERVEYOR IS MODULAR SYSTEM THAT WILL SAVE SIGNIFICANT OPERATING COSTS.

**F** Conveyor Manufacturers Australia (CMA) has developed a technology that it believes will be a disruptive force in the mining and bulk materials handling industries.

CMA was founded to introduce items of innovative conveyor technology to these industries, with particular focus on delivering benefits in the areas of time, business processes, performance, safety and the environment.

To this end, CMA has developed the Containerveyor, a modular conveyor system providing miners with an industry-first solution that considerably lowers capital and operational costs, as well as current installation times, while maintaining a high level of performance.

Uptake of the system is already

proving significant for CMA, with the company engaged in global projects exceeding more than 200km of the Containerveyor solution.

CMA co-founder Ben Smith said the company aimed to develop a simple solution with the Containerveyor, without being simplistic.

"It didn't take long to come up with the idea of Containerveyor. However, significant effort since has been invested into refining product quality; functionality testing; certification; and, ensuring the technology meets the varying needs and demands of our customers," Smith told *Australian Mining*.

"CMA is now set to disrupt the market with world-first conveyor technology for both surface and underground applications. It's truly game changing."

Smith believes there are several

benefits of Containerveyor that differentiate it from the competition, particularly its potential to save substantial costs.

Moreover, Smith reinforced that CMA focused on ensuring the performance of the system would match its cost-saving potential.

"If we don't support our customers to improve their business' operational performance then we don't deserve a place," Smith said. "We would rather someone not make a purchase than have them purchase something that doesn't maximise their chance of success."

## Cutting conveyor costs

The system is entirely built and fitted out offshore. Manufacturing costs are therefore lower when compared to traditional conveyor systems.

Smith said the modular system would arrive on mine sites in a

plug-and-play format, meaning the installation process required no specialist labour or skills.

"Drop the modules in place, connect the belting and you're away," Smith explained. "The installation of the system requires considerably fewer people, therefore, significant cost savings are realised, particularly in remote locations that are tough to get to."

The simplicity of the Containerveyor installation process also means the equipment is much quicker to install than conventional systems.

The faster installation time allows production to start much sooner than current industry standards, Smith explained.

"Moreover, miners may be able to avoid inefficient practices, such as trucking ore initially, while traditional conveyors are installed," Smith said.

Once installed, the Containerveyor's operating costs are further lowered when it is combined with CMA's Roll-Over Idler, as the conveyor doesn't need to be stopped for roller-idler maintenance and replacement.

Production and haulage can continue without interruption when the two solutions are used together, Smith explained.

"This directly improves utilisation and availability, and removes the need to short-dump or rehandle product while traditional conveyors are being maintained," Smith said.

The conveyor system's modular design also allows it to be relocated and reused elsewhere, delivering additional cost savings.

When mining areas move or haulage routes need to be relocated, the Containerveyor can be shifted to accommodate the change and re-used without loss or damage.

## Safety first

Owing to the modular nature of the system, Containerveyor is installed with simple cranes or tele-handlers, which almost entirely removes manual handling from the process.

Containerveyor provides a dedicated, covered walkway for workers to safely navigate for maintenance and inspection activities,



another element that boosts safety.

CMA designed Containerveyor so that a range of optional systems can be pre-installed into every module, including communications and monitoring equipment, smoke detection, fire suppression, piped services, storage for consumables and area lighting.

“In very hot or cold environments, thermal panelling can be fitted to all surfaces of the Containerveyor

to insulate the system and workers from outside temperatures and environments,” Smith added.

Containerveyor is also designed to be expanded through add-on or third-party systems for remote sensing and condition monitoring.

### Environmentally friendly

The conveyor solution, which can be buried for visual amenity, has been designed with the environment in

mind, a key consideration for mining companies.

Containerveyor can be completely enclosed to establish a controlled environment where noise, dust, vibration and harmonics can all be managed at the source.

“Our systems have been designed to address real-world environmental impacts. Environmentally, if you don’t notice our presence then we’ve done our job,” Smith said.

“Being a structural framework in its own right, the Containerveyor can be used to span surface features or elevated to form gantries to feed stockpiles or preparation and beneficiation plants.”


Containerveyor’s modular design significantly reduces its environmental footprint through fewer ground contacts and civil structures, reducing the need for rehabilitation of the land.

### Financial commitments

The modular and reusable aspects of Containerveyor mean that, for the first time, a surface conveyor system can be financed or leased to operations, with several institutions already indicating to CMA they will support funding of the solution.

“The ability to finance or lease systems now offers the industry the ability to enjoy lower operating costs from a surface conveyor, while avoiding the up-front capital cost of purchasing or funding a system,” Smith said.

This also provides a highly beneficial solution for those companies that would otherwise truck material (increasing operational costs), to avoid capital costs. It’s a real win for business’ trying to increase productivity.”

Containerveyor and Roll-Over Idler are covered by extensive International Intellectual Property (IP) protections. 



CONTAINERVEYOR IS DELIVERED TO SITE IN A PLUG-AND-PLAY FORMAT.

## INNOVATIVE. RESPONSIVE. PRODUCTIVE.

Conveyor Manufacturers Australia (CMA) is a leading developer of innovative conveyor technology. We are all about business and process improvement. Whether its time, cost, performance, safety, or environmental impact, our goal is to improve these factors for the businesses we support.

Containerveyor™ is our world first modular surface conveyor system. With its launch in Australia this month, we’re disrupting the status quo in the mining and bulk handling industries.

Our technology will:

- lower capital and operational costs
- significantly shorten installation time
- reduce stoppages
- improve utilisation and availability
- lower health and safety related risks
- minimise visual impact, noise, dust and other environmental concerns
- integrate with third party systems and components
- provide a cost effective replacement for trucking

Containerveyor™ modules are transported to, and arrive on site, in a ‘plug and play’ format ready to operate. Being modular, they can be relocated and reused elsewhere. Systems can be purchased, leased or financed.

*Let us show you how Containerveyor™ can impact your bottom line.*

*We listen and we respond.*



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