

# INNOVATIVE ENGINEERING THE FASTEST EVER INSTALL OF A PACKING LINE





## A POWERFUL PARTNERSHIP



Cockburn Cement, an Adbri Ltd company, is a leading supplier of cement products to Western Australia's mining, agriculture and construction industries.

In 2017, the company awarded its tender for a new packing line to global technology developer HAVER & BOECKER. While the choice of technology may have been easy, the installation was not without its challenges. Powered by innovative thinking and engineering expertise, the partnership overcame all constraints to execute one of the fastest ever installs of a high capacity HAVER & BOECKER packing line without any supply interruption.

#### Choosing the right technology partner

Cockburn Cement's Kwinana packing plant is one of seven Cockburn Cement manufacturing and distribution facilities located around WA.

When the plant's grey product packing machine and associated palletiser were approaching end of life in 2017, the company began a competitive tender process to upgrade its equipment.

Having experienced the quality and performance of HAVER & BOECKER equipment, Cockburn Cement selected HAVER & BOECKER's 14 spout ROTO-PACKER® RVT14 – the latest in high capacity packing technology – to replace the incumbent technology.

Adam Scata, Operations Manager, Cockburn
Cement said: "The technology implemented in
HAVER & BOECKER designs sets them apart from
the competition.

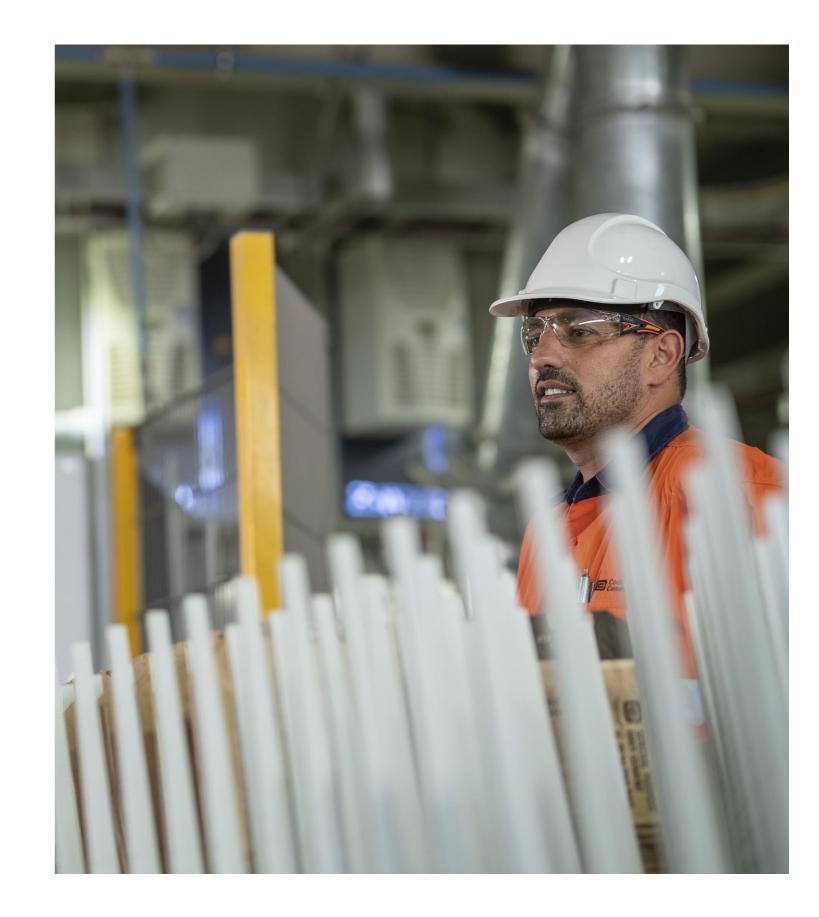
"Their machines are well known worldwide and are utilised across our business and joint ventures."

The RVT14 is capable of quickly changing from one product to another requiring only 15 minutes of downtime – significantly faster than the older machines.

Dinesh Kapadia, Engineering Project Manager, Cement and Lime, Adbri Ltd said: "With HAVER & BOECKER's advanced technology we were confident we could meet our objective of producing 4,800 bags per hour.

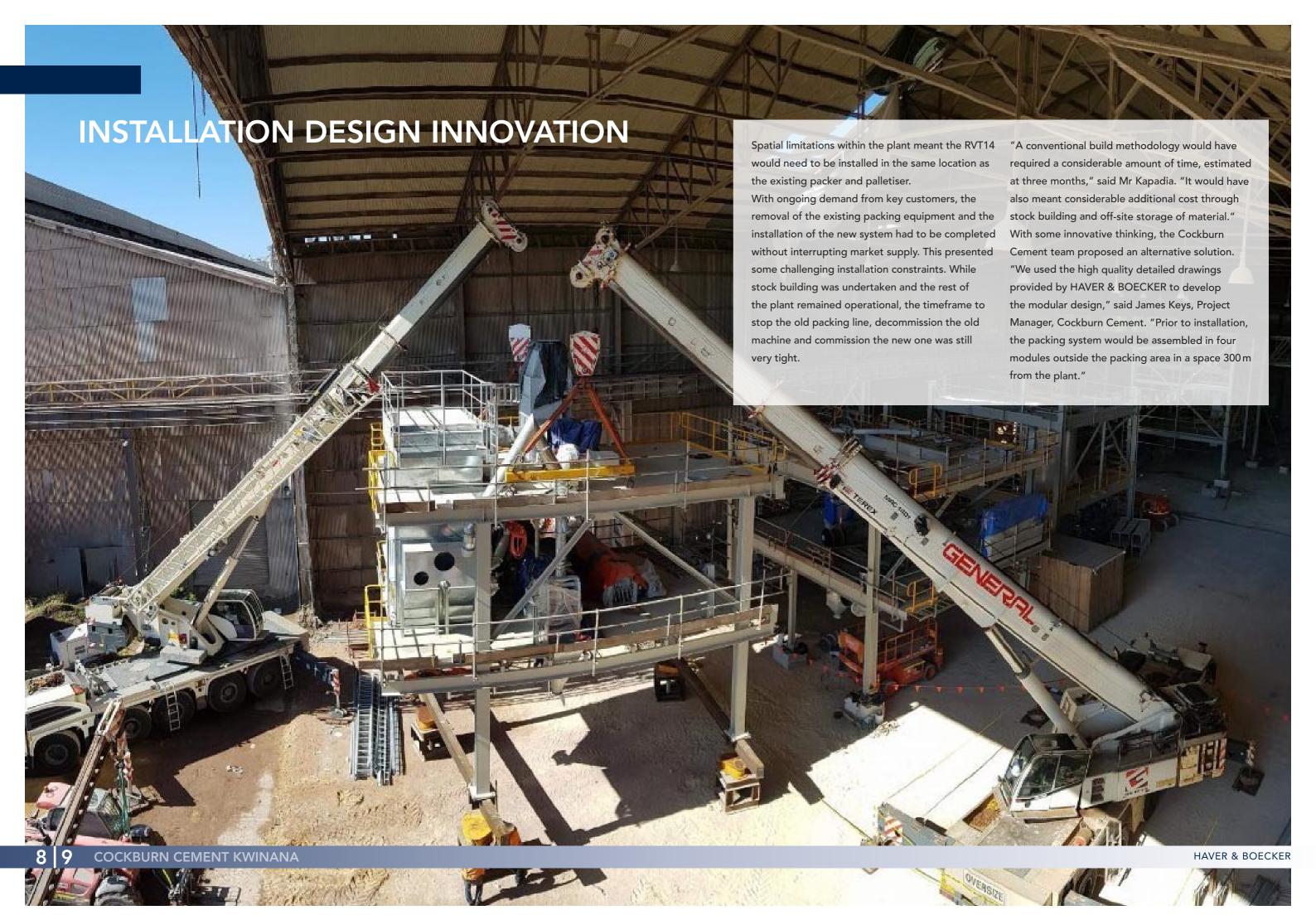
"It also gave us the opportunity to continue with a standardised technology for ease of operation and maintenance as well as spare parts inventory."

The RVT14 also requires less maintenance, creates less waste and produces cleaner bags.



COCKBURN CEMENT KWINANA
HAVER & BOECKER





## RAPID HIGH CAPACITY INSTALL

Once assembled and ready for installation, the modules were transported by SPMTs (Self Propelled Modular Transporters) from the assembly area to the installation site. Demolition of the existing machine was carried out in 48 hours giving a clean floor for installation of the new machine by crane. At any one time, HAVER & BOECKER had up to three technicians onsite to supervise.

"The Cockburn Cement team developed a great working relationship with the HAVER & BOECKER technicians from the managing directors through to the onsite installation teams," said Mr Scata. From powering off the old machine to commencing the wet commissioning of the new equipment was just 42 days – the fastest ever install of a high capacity HAVER & BOECKER packing line. "By implementing the modular design, the production time off-line was significantly decreased in comparison to a traditional build," said Mr Scata. "HAVER & BOECKER provided ample support to meet site installation needs and were very committed to ensuring deliverables were achieved post commissioning."

#### INSTALLATION DESIGN INNOVATION

### Adding value

According to Adam Scata, Operations Manager, Cockburn Cement: "The modular install had its risks but Cockburn Cement together with HAVER & BOECKER managed them well."

"They provided excellent support to our team as the innovative modular design concept was deve loped."

This included the packing machine layout which, designed in close consultation with the Cockburn Cement project team, ensured the footprint of the machine was the best achievable fit within the packing shed.

"The HAVER & BOECKER technicians also supported the incorporation of the blend back

system to recycle all flush and waste material. This eliminated any waste going to landfill, offering both cost savings and sustainability gains," said Mr Scata.

Further efficiencies were realised by implementating a double pallet stacker to increase throughput. A pallet scanning system was also installed to improve quality control and health, safety and environment factors by ensuring stable stacks in warehousing.



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