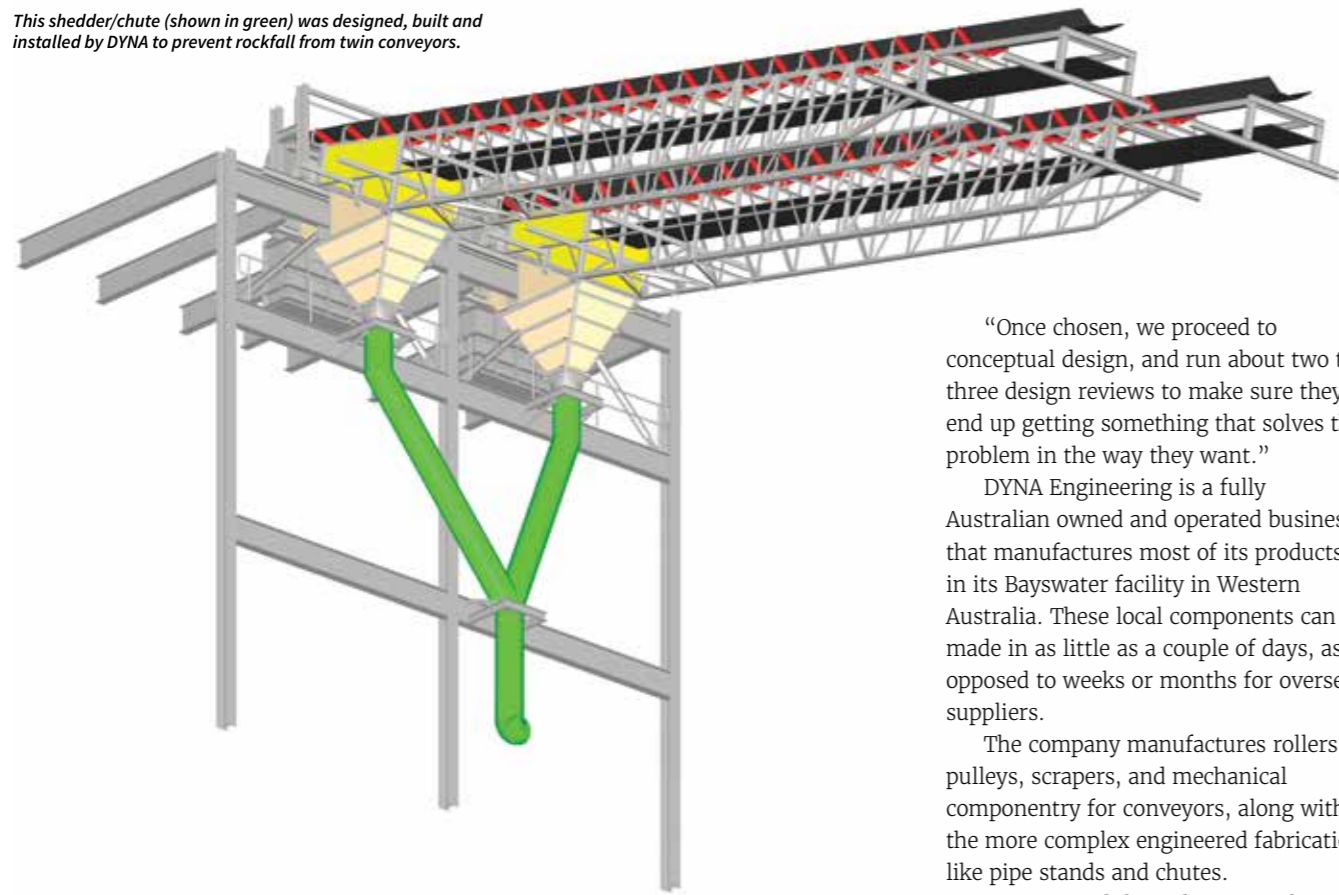


Unusual solutions for unusual problems

DYNA Engineering has undergone International Standards Office accreditation to prove users can rely on its mechanical engineering and locally manufactured products.

This shedder/chute (shown in green) was designed, built and installed by DYNA to prevent rockfall from twin conveyors.



UNLIKE REPLACING A ROLLER or installing a new belt, solving mechanical engineering problems can require a lot of thinking outside the box.

Because no two bulk handling sites are the same, what works in one application often just won't fit in another.

For example, a mine site might need to include a pipe as part of a vital upgrade but doesn't have the space for the required pipe stand.

That's where DYNA Engineering comes in. General manager Thomas Greaves told ABHR that when clients have a mechanical engineering problem, it

usually requires an unusual solution.

"We have provided this service for about 10 years. In most cases, an existing customer approaches us to see how we can help with a specific issue they have on-site," he said.

"After we get the enquiry, we have a meeting internally to brainstorm a few ideas to present to the customer. It's important to provide several options, as often factors that aren't always apparent at the initial scope can affect the decision-making process.

"We then work closely with all the stakeholders – the project managers, teams on-site – and run the concept by them again.

"Once chosen, we proceed to conceptual design, and run about two to three design reviews to make sure they end up getting something that solves the problem in the way they want."

DYNA Engineering is a fully Australian owned and operated business that manufactures most of its products in its Bayswater facility in Western Australia. These local components can be made in as little as a couple of days, as opposed to weeks or months for overseas suppliers.

The company manufactures rollers, pulleys, scrapers, and mechanical componentry for conveyors, along with the more complex engineered fabrications like pipe stands and chutes.

Greaves said the industry needs have been changing when it comes to accreditation.

"ISO (International Standards Office) accreditation is almost becoming an industry standard when bulk handlers look for vendors to conduct ongoing business with," he said. "Manufacturers need these accreditations to operate in the industry.

"Manufacturing and mining are industries with higher risks. Workers are handling dangerous equipment like drill presses and grinders, so safety is paramount."

DYNA Engineering has recently undergone the third-party accreditation processes. It has proven it meets the

quality assurance, environmental, and work health and safety standards.

Greaves said the accreditation gives stakeholders and customers even greater confidence that they can rely on DYNA.

"DYNA has always been near the ISO standards, and having the formalised audit proves that we have a level of commitment to the industry," he said.

The accreditation has also improved the company's risk management processes, as it used the opportunity to create a defined, methodical, and consistent documentation process.

"Over the last three years we have tripled in size. When you have a growing business, having a written procedure helps people get up to speed quicker and keeps things consistent," Greaves said.

The accreditation decision also came at an opportune time for the business, as the WA Government has begun to implement harmonisation laws for health and safety.

The ISO process gave the company an

opportunity to look at the new legislation and ensure its processes met the new standards. It has also incorporated a cloud-based software for documenting and controlling its systems. Each employee has access to the software, allowing them to bring all stakeholders through the manufacturing process.

If a safety event occurs, workers can also log it on a mobile app, which notifies the relevant people and keeps note of what needs to be actioned and investigated.

Greaves said a paper-based system for record keeping and management was a nightmare to work with.

"The cloud-based system is a lot more accessible for small-to-medium-size business," he said.

"Nothing can get lost, which makes it a major benefit for us," he said.

DYNA Engineering plans to continue growing and is looking to capitalise on the accreditations. It wants to leverage steady growth to help



DYNA Engineering's general manager, Thomas Greaves.

create more local manufacturing jobs.

"We're big on creating local jobs that provide local skills, which is why we have three apprentices and four trainees," Greaves said.

"By upskilling our workforces and holding on to our valuable employees, we can continue to provide technical assistance and reliable components." **B**