



PRECISION MIXING SYSTEMS



ABOUT US

Our aim is to provide best practice engineering services and mixing plants to the **MINING**, **CIVIL CONSTRUCTION** and **ENVIRONMENTAL** industries.

HISTORY

Aran International commenced operations in Australia in 1977 and has continued to deliver project success across the globe. The company gained early recognition for the innovative and functional design of machines and systems for the processing and storage of quarry products, grain, and stock feed. By 1982 the company developed a range of standard products including hot mix asphalt plants, aggregate screening plants and concrete batching plants.

By 1980, due to changing environments and operational demands, the focus moved to developing mobile and modular mixing plants and mixers for the mining, quarry and civil construction industries. A unique modular framework and functional design of plants enabled the company to have the widest global distribution of this machine type. The versatility of these machines enabled their use for a wide range of applications in industries and applications. Today, modern Aran plants redefine the concept of ultra compact high performance mixing plants.

DIFFERENCE

At Aran we live and breathe Innovation.

In 1979, Aran was the first to develop a fully self contained, self erecting, mobile continuous mixing plant with workable silo and hopper capacities all on one trailer unit. In 1984 Aran pioneered the use of continuous mixers for RCC dams and demonstrated the superiority of this process on the second all RCC dam which was built in 1984. In 2004, two Aran MODUMIX II-3



machines set the North American record for RCC placed on a dam between forms by achieving 14,630 cubic metres in a single day (20 hours).

In 1987 Aran was amongst the first suppliers of construction mixing plants to develop machines based around modules strictly in conformance with cellular shipping container rules.

Today, our commitment to innovation is stronger than ever, ensuring each project receives the most intelligent, well crafted solutions for ultimate project success.

APPROACH

A 'No Compromise' standard of engineering integrity is entrenched in our methodology. Our products and projects provide the best 'fit for purpose' solutions to our client's needs. Research and development is



closely linked to field operations, ensuring technology development is driven by practical solutions with the end-user objectives in mind.

PEOPLE

The success of the business is the result of our team. Technical and support staff effectively resource projects to ensure that they are well managed and executed. The engineering team constantly challenge boundaries to test, question and discover better and more innovative solutions to the most complex of problems.

In addition to a wealth of experience, the team is armed with specialised technical knowledge for developing unbeatable mixing systems for the mining, environmental and civil construction industries. Our people are passionate about providing clients the most advanced, world-class engineering solutions.

PARTNERSHIP

Partnering with clients from pre-feasibility through to final system commissioning minimises the risk of overlooking critical functions of system design and integration. Our collaborative approach results in long lasting relationships with clients. Referrals and repeat business is a result of our 'best practice' value engineered solutions.

ALLIANCES

Partnering with strategic alliances enables us to provide a complete suite of engineering services. Working with the latest technology and world class providers contributes to our highly successful project outcomes. This imparts enormous value to our clients to enable access to a breadth



Image courtesy of Keller Mine Fill

of services offered as an integrated package. Head Office is located in Brisbane, Australia with international offices established in Malaysia and Canada. We have an international network of agents to support and service our products globally.

SAFETY

Systems are designed to be intrinsically safe for operators and owners. Our focus on 'smart system control' ensures Aran plants deliver increasingly high levels of operational safety.

ENVIRONMENT

Systems are designed to embrace and respect the environment. Aran engineers are constantly striving to optimise the use of materials, maximise the recycling of water and minimise the space required for plant installation and operation.

EXPERIENCE

Over 45 years Aran has supplied highly developed products and completed a wide range of high profile projects for small and large clients around the globe. Some project and client examples include:

- Mining Backfill projects completed in Australia, Canada, Peru and Indonesia for companies including Barrick, BHP, Glencore & Vale.
- Dam projects completed in Malaysia, Venezuela and USA.
- Road pavement projects completed in Germany, UK, Finland, Australia and China.



A successful backfill operation relies on thorough pre-project studies and comprehensive plant design.



BACKFILL

Backfill is becoming an increasingly effective solution for mine stability control and recovery economics. Aran backfill solutions consider the mining method and available fill materials to determine the best fill option. Backfill options include paste, hydraulic or cement aggregate fill.

ENGINEERING SERVICES

Through strategic alliances, Aran provides a full suite of engineering services from conception of project and beyond. Whether green field or brown field projects, we adopt a holistic approach from defining project goals to providing 'fit for purpose' solutions.

Studies include pre-feasibility, feasibility, backfill selection, material testing, optimisation studies and plant auditing. System design includes plant configuration, distribution system, fill and barricades, lifecycle design, commission and operation and stability assessment.

PACKAGED SOLUTIONS

Aran provides total packaged solutions to include engineering services through to systems plant design, manufacture, installation and ongoing site maintenance.

Systems are fully flexible and can integrate with modular screening and crushing circuits, blending of multiple fill products, thickening, filtration and distribution pumping. The modular concept extends to include optional water recycling circuits and innovative plant hibernation and sequenced shutdown processes.

PACKAGED MIXING SYSTEMS

MODUMIX II is Aran's modular mixing system ideal for establishment on mine sites for periods greater than 12 months. The modular components connect together forming the total backfill system. The plants have a long life span and can be on-site for the life of the mine or relocated to another mine site.

ENVIRONMIX is Aran's mobile mixing system ideal for long or short projects requiring flexibility of location. The system is preassembled and transported at highway speeds on a robust mobile trailer unit. Mobility offers the flexibility to transport the system to multiple sites.



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HAZARDOUS

Minimising the environmental footprint is a top engineering priority.



Environmental responsibility is no longer a fashionable activity or project goal, it is a way of life. Aran's is passionate about restoring and renewing our environment to secure health and a sustainable future. Engineering services and mixing systems developed by Aran are employed to build dams to secure water supplies and generate hydropower, mix soils and wastes to rejuvenate construction sites, factories, polluted waterways and mining sites. Actively caring for the environment extends to ensuring Aran's activities and equipment minimise impact and generate a cleaner future for all.

REMEDIATION

Systems suitable for:

- Recycled Materials
- Soil Neutralisation and Stabilisation
- Reclamation of Waterways
- Chemical Immobilisation

WASTE DISPOSAL

Systems suitable for:

- Mine Closure using Paste Fill
- Tailings Stabilisation and Disposal
- Landfill Lining Preparation



CIVIL CONSTRUCTION

Consistent, accurate & faster output,
yields a more cost effective project.

QUARRIES

Systems are built with performance in mind. Aran's approach to packaging equipment for quarries has a high emphasis on functionality and reliability. Systems are robust and heavy duty. Designed with performance in mind, they are built to be dependable and operate with ease.

Systems include:

- Mixers for installation into new or existing quarry crushing, screening and blending plants
- Modular and mobile plants



DAMS & PAVEMENTS

Since the 1980's, Aran has been involved with dam construction on a global scale. With emphasis on environmental responsibility, Aran's solutions encompass leading edge technology and highly specialised equipment, ensuring water resources and hydro power generation solutions are built with a sustainable future in mind.

Systems suitable for:

- Roller Compacted Concrete
- Soil Cement
- Cement Treated Road Base
- Continuous production of structural concrete
- Paving Concrete for slip forming



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