



TRANSFORM THE WAY YOU WORK WITH ALLU

Materials processing is a complex series of chemical, thermal and physical work that produces large quantities or batches of a product. Not only does using the right attachment make for a safer operation, but it also reduces downtime, lowers operating and lifetime costs, and helps reduce the cost per tonne of material moved.

ALLU's range of screening products are designed to screen and separate a wide range of materials, allowing for the removal of oversized or undersized particles. Products can be tailored to the needs of the application.

"With ALLU the operators can transform their excavator, wheel loader, and skid steer into a multifunctional tool that will screen, mix, aerate and load all in a one-step operation," says Adam Leece, Technical Sales Representative at Total Rockbreaking Solutions.

"By using ALLU companies can reduce costs as there is less materials to landfills and processed materials can be re-used onsite," Adam adds.

Real World Application

Due to their old-current method being very time consuming and consisting of many steps, a company operating in the Kalgoorlie region hired an ALLU DH 3-23 with X75 blades to process stockpiles of gold ore for gold production.

Old-Current Method

The stockpiles of gold ore on the ground were loaded into a dump truck and were then transported 30km to 40km and tipped to the ground to make another pile. A loader would then come to pick up material and tip it into a static grizzly to separate the larger lumps-product from the small product.

From grizzly, the old-small product was taken to be processed in the mill for gold production and the larger lumps-products were then transported to a crusher to be crushed to a smaller, more useable product.

New Method with ALLU DH3-23 with X75 blades attached to a Komatsu PC490

The ALLU DH3-23 attached to a Komatsu PC490 goes next to the stockpiles on the ground and starts processing the material into two separate piles.

The processed fines pile is then taken to the mill for gold production while the oversize rock pile is taken to a crusher that will crush the oversize into a smaller and useable product.

With this method, the process of loading and transporting the material to the grizzly and the use of the grizzly is completely

avoided, saving time, money and equipment.

This method took the operator 19 minutes and 48 seconds to screen, calculating to an average of 211.88 tonnes per hour.

"It is not only the time savings but also saving on maintenance and labour cost as with the Allu DH3-23 bucket there is one less wheel loader and operator needed in this application," says Adam.

ALLU M Series

Designed for large-scale material processing and screening applications, the ALLU M Series bucket is compatible with large excavators and wheel loaders.

It's suitable for a wide range of applications in multiple industries including mining and quarrying, and it can be used for screening, crushing, mixing and loading

materials, amongst other tasks. Using an ALLU M series bucket can eliminate the need for material processing equipment, and it reduces the need for material double handling.

The ALLU M bucket contributes to environmental sustainability by reducing the need for transportation and separate processing of materials. Furthermore, the on-site screening and processing minimises waste and optimises resource utilisation.

By integrating screening and loading into one attachment, operations are streamlined, reducing the need for additional equipment and manual labour.

The bucket is designed for user-friendly operation, ensuring ease of use and efficient material processing.

Excavator Models

ALLU M series bucket mounted on excavators are recommended because of work speed and reach, resulting in almost double the processing capacity compared to a wheel loader as a carrier.

The carrier ranges from 50 to 160 tonnes, volume ranges from 2,82 to 8,67 cubic metres, weight ranges from 7000 to 14,000 kilograms, oil flow ranges between 300 to 440 litres per minute and there's a peak max pressure of 350 bar.

Wheel Loader Models

ALLU M series buckets mounted on wheel loaders are recommended when equipment mobility is one of the main criteria on the job. Operations at harbours, power plants and other bulk material storage areas will benefit from this machine.

Across the two models, the carrier ranges from 30 to 70 tonnes, volume ranges between 4,00 to 4,60 cubic metres, weight ranges from 8000 to 13,500 kilograms and capacity ranges between 250 to 350 tonnes per hour while there's a max pressure of 350 bar and peak oil flow of 400 litres per minute across both models.

ALLU D Series

The ALLU Transformer Screener Crusher D Series is a versatile attachment designed for material processing, screening and recycling across the construction, excavation, recycling, agriculture and landscaping industries. The attachment is compatible with excavators and wheel loaders, offering a wide range of benefits and functionalities.

It enables efficient screening of material into different particle sizes, and it can screen and separate various materials such as various soil types, sand, gravel, topsoil, compost, biomass and demolition waste, producing end products of different functions.

The ALLU D Series adapts and transforms according to the application, with interchangeable blades and segments able to meet the different requirements of the application. It's designed for high efficiency and productivity, eliminating the need for separate screening and processing equipment thus streamlining operations, saving time and costs.

The on-site screening and processing reduce the need for external transportation and minimises environmental impact.

AMR



MATERIAL PROCESSING & LOADING IN ONE STEP

Machine to Material - ALLU Transformer buckets offer the most portable processing solution available by allowing the machine to go to material pile instead of hauling the pile to the machine.

One ALLU can produce multiple fragment sizes with various blade and drum configurations.

For excavators and loaders from 8t to 160t.

ALLU
One Step Ahead

Scan for ALLU dealer locations in Australia: QLD | NSW | VIC | SA | WA
or visit attachmentspecialists.com.au/allu

