



automation
customised solutions
maintenance
increased uptime

1300 921 498

totalrockbreaking.com.au

TRS / Total
Rockbreaking
Solutions

ADVICE AND SUPPORT YOU CAN TRUST

"Using the right attachment for the task is not only safer, it reduces downtime, lowers operating and lifetime ownership costs and, most importantly, helps you reduce the cost per tonne of material moved".

solutions that help you get the job done faster and safer



advice and support

With extensive industry-specific knowledge and experience we provide you with service, advice and solutions that meet the specific needs of your application and ensure you achieve the maximum return on your capital investment.

Our technicians are dedicated to maintaining your equipment in peak condition. They can offer you advice on correct operation of the equipment and matching the right tool to the job



application that are critical to achieving the highest level of production with the lowest possible operating costs. You can select the right tool for your application from a great range of genuine tools, parts and consumables that are readily available in our warehouse.

When a full turn-key solution, integration or varied application for equipment is required, our engineering and project management resources have proven record of delivering innovative, high-quality and cost effective solutions to optimise your operations.



automation and remote operation

Automation will increase staff safety and reduce downtime. You can now have the most advanced remote operator controlled, collision prevention and automated movement system, BoomSafe® factory fitted on new Boom Systems or retro-fitted to your existing Rockbreaker Boom.

remote monitoring

To enhance application knowledge and operator education all new Rammer Excellence Line of Rockbreakers come with the RD3 remote monitoring device.

RD3 uses the MyFleet Telematics service to remotely locate, track and monitor rock breaker usage, making it ideal for rockbreaker fleet owners and rental companies.



Founding directors:

*Jeff Jackson, Sales
Paul Ingleson, Engineering
Mark Godsell, Service*

RD3 is the first ever remote monitoring system for hydraulic rockbreakers.

RD3 provides real-time data on operating hours, service intervals, exact location of the rock breaker and how it is being operated.



increased uptime

Getting the work done reliably and on time is essential and therefore we have selected only industry leading manufacturers, allowing you to choose from a range of quality and reliable products that can operate in harsh conditions without missing a beat.

With features such as membrane technology, simplified maintenance, automatic lubrication and wear-parts that are quick and easy to change our products will help you reduce downtime and operating costs.

maintenance onsite and off-site

Maintaining a regular servicing schedule is the best way to ensure your equipment performs at its optimal efficiency, and to prolong the life of your investment. It also helps you avoid unnecessary downtime.

Our experienced technicians rebuild, service and repair hydraulic attachments and boom systems in all makes and models in our custom designed workshop in Canning Vale.

Four fully equipped onsite service vehicles are available whenever an emergency repair onsite is required.

attachment selection tool

To ensure optimal and safe operation it is important the attachment is within the lifting capacity of your carrier.

The Attachment Selection Tool on our website will help you quickly find the correct size attachment and maximise the life of your investment.

With hundreds of carrier models from the major manufacturers, our Tool will help you identify a range of suitable attachments for your carrier with just two clicks at totalrockbreaking.com.au.

authorised dealer

As the authorised dealer in WA for Rammer, Simex, ALLU, PneuVibe, Daehan, GTS and TEFRA, we can ensure that our existing and new customers receive the industry's highest-quality support, while enjoying the industry leading performance and reliability they have grown to expect from these products.

Browse our product range in this brochure and we look forward to working with you to find the best solution for your next project.



TRS achievements

*Certificate of Excellence,
Product Promotion in 2013*

*Australian Rammer
Dealer of the Year 2014*

*Certificate of Excellence
in 2016*

*Australian Rammer
Dealer of the Year 2017*

*Certificate of Service
Excellence in 2017*

*awarded by
Sandvik Mining and Rock
Technology*

reliability

Rammer has earned a reputation of providing efficient and reliable equipment giving customers the peace of mind that they can deliver what their promise to their customers.

With integrated smart technology and customer-focused features Rammer has created great experiences with customers and the fact that customers return to their local Rammer dealer to acquire more of its equipment speaks for itself.

Rammer hits harder

With Rammer's sealed high pressure membrane accumulator system constant and high breaking power is maintained at all times because the membrane accumulator is gas leakage proof. It does not require re-fill or any special sealing system making Rammer rock breakers a reliable and productive partner for your carrier, particularly in remote locations.

Rammer is not just hitting harder, it is hitting constantly harder.

reduced breaking times

Rammer's revolutionary 'Fixed Blow Energy' operating principle combines stroke length, blow energy and a patented idle blow protection feature, allowing rockbreakers to be adjusted to match individual carriers and applications, giving improved hydraulic efficiency and safety.

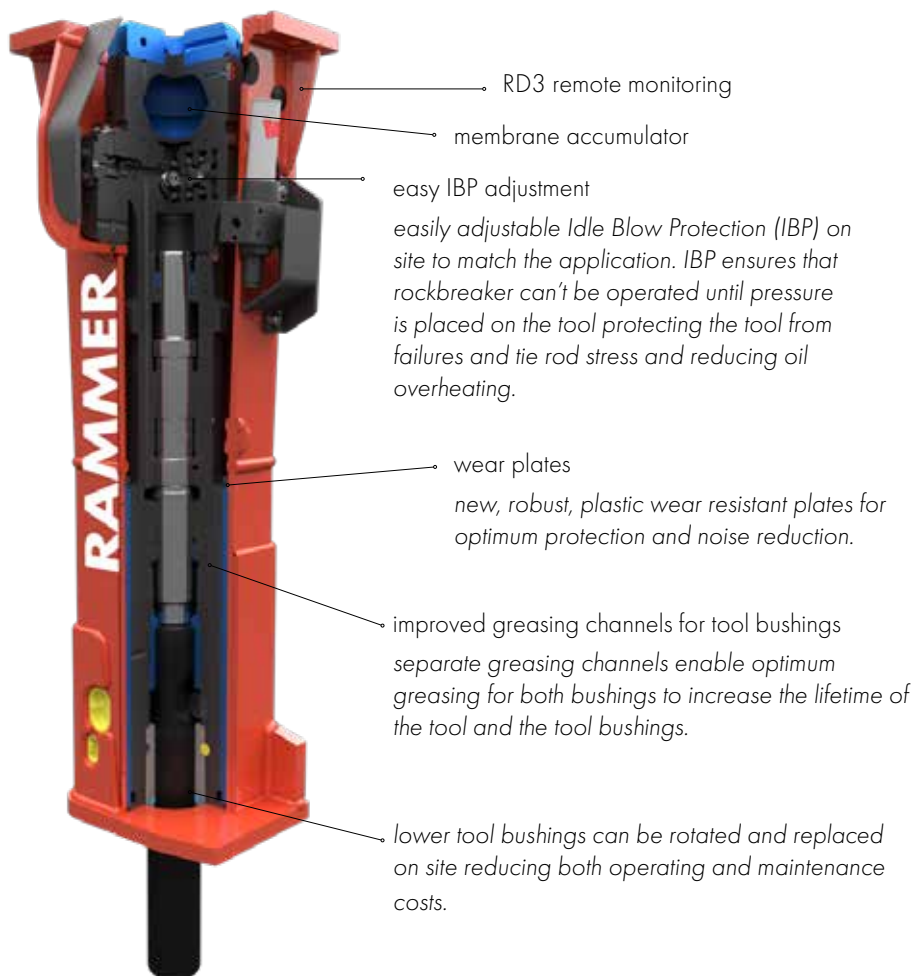
This simply means that every impact – from first to last – is at maximum power, regardless of oil flow or frequency, reducing breaking time and maximising productivity.

Rammer hits smarter

All Excellence line of Rammer rock breakers come with RD3 remote monitoring system and together with My Fleet platform you can monitor your rockbreaker fleet remotely 24/7.

With this cloud-based system you can pinpoint the exact location of your equipment, monitor correct usage and operating hours to manage service periods for proactive and preventative maintenance.

Rammer rockbreakers are suitable for carriers of 0.6 to 120 tonnes.



"Without advancements in hydraulic technology the excavator market in Australia would be very stagnant and boring.

Did you know that Australia leads the way in adopting such attachments?"

*- Ron Horner,
tradeearthmovers.com.au -*



4 things to consider before buying a rockbreaker boom system

To maximise the return on this investment and ensure optimum performance, it is important to consider the following before purchasing a new rock breaker boom system:

1 ensure the hydraulic rockbreaker is correctly sized for the application. Consider the rock hardness, rock size, expected duty (number of rocks per hour) and the physical size of the chute or crusher inlet.

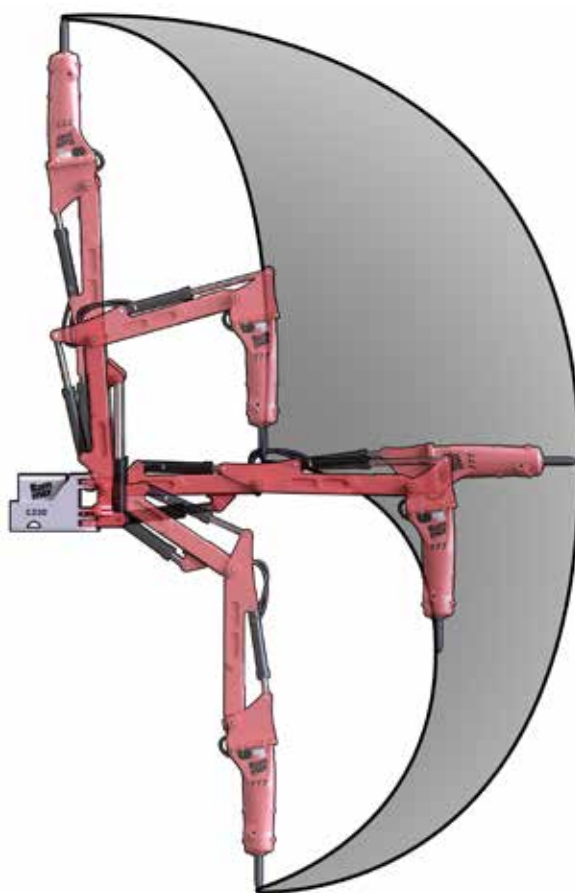
2 the boom size and reach must be correct. Too light for the application will lead to higher maintenance costs and a reduced effective life of the boom. Conversely, over-sizing the rock-breaker and / or the boom system will increase the initial capital cost and have a flow on effect on the cost of support structures and foundations.

3 the position, elevation and working slew angle of the boom system need to be assessed. Correct positioning of the boom can make a big difference to the useability and maintainability of the system.

Ideally, the normal working area of the rockbreaker should be well within the maximum and minimum limits of the boom reach.

4 the availability of advanced safety and remote operation systems such as BoomSafe® options and readily available tools and spare parts.

Read the full article on totalrockbreaking.com.au/downloads



Rammer booms

Rammer is a leading boom supplier and hydraulic rock breaker manufacturer with more than 40 years of experience in supplying hydraulic boom systems for the mining industry and quarries world-wide.

Due to high volume production Rammer Booms are extremely economical compared to other boom systems on the market and standard spare parts and tools are readily available globally.

Rammer Booms are specifically designed to maintain optimum crusher throughput and extend the life of the crusher.

The Rammer Boom system range is wide, with 40 models from 1 tonne up to 18 tonne heavy duty models, with reaches from 1 metre up to 17 metres.

automation remote operation collision prevention



smart boom technology



increase safety

Safety is a primary objective for all modern mines. Increasingly, mine operators are turning to technology and remote operation to reduce the exposure to risk for operators and nearby personnel.

Developed specifically for hydraulic boom systems BoomSafe® combines automated movement sequences and collision prevention with true remote multi-operation capability for your rockbreaker boom systems.

reduce downtime

Featuring easy onsite customisation and maintenance BoomSafe will help you reduce downtime as movement sequences can be configured and modified by site-based maintenance staff using the user-friendly touchscreen.

increase speed

Automated movements can be executed with a single button press, improving speed and precision.



automated movements

Automated Movement Commands such as 'Park', 'Deploy', 'Tool Replacement Position', 'Rockbreaker Change Position' or any other common or difficult movement sequences can be configured and modified by site-based maintenance staff using the user-friendly touchscreen.

Operators can execute the automated movements with a single button press.

collision prevention

At the heart of BoomSafe is an automated Collision Prevention System allowing your maintenance staff to set up a safe work area where the boom is allowed to operate.

All commands from the local Radio Control or Remote Operation System are supervised by BoomSafe to avoid damage to the boom and surrounding infrastructure and prevent movements which would result in the boom moving outside the safe work area.

remote operation

Remotely control all of your rockbreaker boom systems from a single workstation.

For larger sites, multiple workstations can share control of a group of booms on a first-come first-served basis.

customise onsite

Your site maintenance staff can set up and modify BoomSafe movement sequences and adjust the allowed area of operation when needed.

BoomSafe can also be integrated with other sensor systems on site, such as perimeter safety gates.

simple maintenance

If maintenance is required, all BoomSafe components can be replaced in minutes using only hand tools. Sensors are mounted separately to the boom hydraulics and are easily accessible.

factory-fit or retro-fit

BoomSafe is available factory fitted on new Boom Systems or can be retrofitted to any brand of boom without making changes to hydraulic components.





"GTS Diamond Rock Saws can be used in rock excavations, concrete cutting and demolition applications and unlike many other tools it produces less noise, no vibration and in the end you'll have a beautifully finished product that looks like polished rock".

- GroundTec -

the ultimate cutting machine

GTS Diamond Rock Saws are perfect for a range of excavation, concrete cutting and demolition applications and unlike many other tools it produces less noise and no vibration.

GTS Rock Saws suit 1.5 to 40 tonne excavators, with cutting depths from 410mm to 950mm and cutting width from 8mm to 13mm.

applications

- Trenching
- Boundary cutting
- Grid cutting
- Trimming
- Swimming pools
- Dimensional block profiling
- Demolition
- Footings
- Concrete cutting
- Rock and stone cutting

blades

Blade sizes vary from 1,000mm to 2,000mm and can be used to cut:

sandstone, reinforced concrete, basalt, granite and shale.

Repairing and replacing the diamond segments can be done on site with propane torch and solder.

Different height segments available for when the segments wear.

features and benefits

Bi-directional blade rotation cuts forward and reverse

180° rotating head bracket provides

rotation without the need to disconnect saving you time and money.

Instant brake system improves safety.

Offset extension is ideal for boundary cutting.

No case drain line required saving costs.

Built in water spray system keeps diamonds cool and minimises dust pollution.

Rotating shield minimises water spray to protect surroundings.



demolition

made easy

// *Having hired a Rammer Multiprocessor in the previous demolition job, and seen its reliability and power with a maximum crushing force of 144 tonne it made sense to enquire about owning my own Rammer Multiprocessor".*

- Focus Demolition -

simplified maintenance

The new range of Rammer Demolition Attachment Tools have been designed to meet the specific and ever-changing needs of various demolition applications, including primary and secondary demolition, crushing, cutting and material separation.

These versatile tools have features such as:

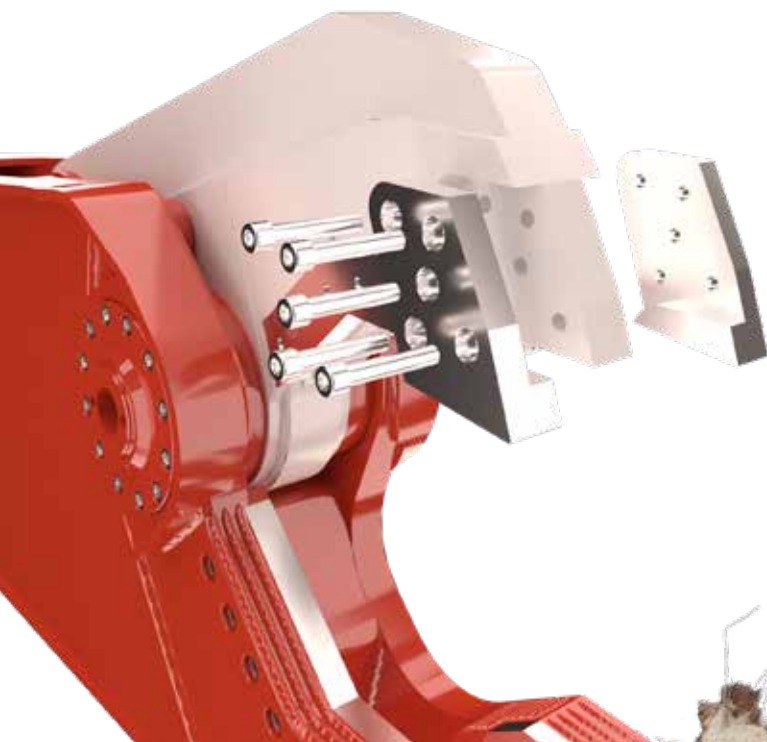
- central pin adjustment to prevent jaw deviation,
- jaw design that allows crushed material to fall away from the cutting or crushing area,

- cutting blades that have four usable and reversible sides and
- tips that can be replaced without welding.

These and many other features will help you minimise maintenance and maintain high productivity levels during the whole demolition task.

scrap shears | cutter crushers | grapples
rotating pulverizers | fixed pulverizers

**Ram
mer®**



increase productivity and reduce waste

When your task is trenching, milling, profiling, construction of underground utilities, tunnel excavation or quarrying, Simex technologically innovative attachments help you work more efficiently, safer and reduce waste.

self levelling planers - constant milling depth



Whether your task is to remove the entire layer of asphalt or cement or just remove horizontal road markings, Simex planers will make it quick and easy featuring:

- Constant milling depth regardless of the ground contour.
- Perfectly even surfaces with side-by-side milling.
- Reduced dust with built-in water tank that is built into planer's frame rather than being mounted remotely ensuring safe and quick operation.

Available in a range of models that reach a maximum width of 1,200 mm and depth of 350 mm. Multi-fit bracket to fit any skid steer or loader.

swinging planers - safe operation

The strong protective structure of Swinging Planers prevent material from being thrown forwards ensuring safe operation on any surface either horizontal, vertical or inclined milling and cutting.

crusher buckets - turn waste into usable material

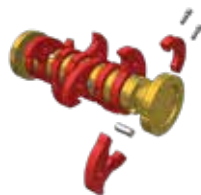
Turn crushable waste material such as bricks, concrete, glass, reinforced concrete, natural aggregates, tiles and asphalt slabs into usable material on your construction/demolition site.



Or dispose with improved efficiency, as the crushed material takes up less space, utilising the full capacity of the truck.

Due to Crusher Bucket's rotor crushing design can also process sticky materials such as clay, wood, humid or wet products and plastic.

Crushing teeth are easy to change to produce crushed material in different sized pieces: 0-50/100mm.



Suitable for excavators and backhoe loaders between 7 - 55 tonnes. CB range can be mounted on skid steers.

twin headers - low noise and vibration

When conventional digging systems are too weak and percussion tools have little effect choose Simex Twin Header Rock Grinders.

Twin headers are ideal for:

- trench work in hard and compacted ground,
- concrete and rock wall profiling,
- dredging and demolition,
- quarry work with a variety of rock, including limestone, gypsum or schist with rocks having a hardness of up to 85 MPa.



Twin Headers produce very little vibration making them perfect for vibration sensitive work.

Suitable for excavators between 1.5 - 70 tonnes.



trenching wheels - fixed section trenching



Simex Trenching Wheels are ideal for small fixed-section trenching i.e. for the laying of utilities up to a maximum depth of 800mm and width of 30-250mm on asphalt, concrete and rock.

Featuring a high level of visibility, wheel protection at all depths and hydraulic piston motors with direct drive, Simex Trenching Wheels provide you with safety and high performance when precise cutting on hard or compacted surfaces is required.

Suitable for skid steer loaders, backhoe and compact track loaders.

vibrating compaction wheels - maximum safety

With Simex Compaction Wheels a firm, even and extremely compact bed will be achieved that is essential for the durability of the trench preventing the road surface from caving in, maximising road traffic safety.



Compaction Wheels are available in different wheel widths that are quick and easy to change. With the ability to change the wheel pads you can compact trenches of different widths from 200mm to 400mm.

Suitable for skid steer loaders, backhoe and other loaders.

asphalt floats - ten times quicker



With Simex Asphalt Floats you complete tasks cleaner and up to ten times quicker than manually as asphalt is simply placed on the ground in front of the Float and spread directly.

Asphalt Floats have a maximum paving width of 1.70 metres and depending on the model, they can extend laterally up to 1.02 or 1.62 metres outside the wheel i.e. for sidewalk asphalt surfacing.

Suit skid steer loaders, as well as backhoe loaders and front-end loaders with a max width of 1600mm.

SIMEX

screens, mixes and loads in one go wet or dry

Catering for applications of all sizes, and capable of processing any material that can be screened and sorted, the ALLU transformer buckets:

- transform materials into valuable products
- make processing jobs more efficient
- make jobs more environmentally friendly
- minimise the need for transportation of waste or replacement materials.

material processing revolutionised

There is no longer need to bring both an excavator and a screener on site when the ALLU transformer can screen, pulverise, aerate, mix, separate and load the materials you work with.

And best of it all, ALLU transformer will process just about anything; topsoil, excavated, waste and contaminated soil, clay, peat, bark, compost, bio-waste, demolition and construction waste, milled asphalt, glass, coal, oil shale, lime stone and several other materials.

Unique design of screening blades and combs ensure the screening bucket is clog-free and maintains good production even with wet materials. A range of blade and drum sizes are available to provide fragment sizes of 10 – 105 mm depending on drum and blade set up.

To further improve efficiency ALLU comes with the data reporting system, Dare that reports production data such as bucket

count, processing time, total working time and processed tonnes for analysing and optimising working efficiency. It also reports on hydraulics, time elapsed, parts temperature and bucket angle.

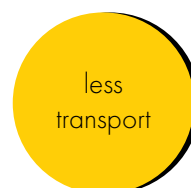
reduce waste and increase your bottom line

Over the recent years, disposing of your construction waste has become a lot more expensive. Landfill levy rates have increased in WA from \$8 per tonne in December 2014 to the current \$70 per tonne.

Rather than allowing waste to become an increasing cost, you can choose ALLU that help you reduce the waste volume and recycle the waste on site.



feed materials can be transformed into valuable products that can be reused onsite



need for transportation of waste or replacement materials will be minimised



reduced number of process steps will save you time

safe and efficient compaction

Australia's best known and most reliable excavator mounted compactor plates, PneuVibe are efficient and safe solution for a wide range of applications, from working in narrow trenches to large backfill operations.

With optional clamping devices you can also drive posts from 50mm to 300mm in diameter.

The range consists of eight models, all of which deliver a class-leading frequency and centrifugal force-to-weight ratio, providing the most efficient means for vertical and inclined compaction.

All PneuVibe compactor plates include as standard a priority flow valve which protects the hydraulic motor from excess oil flow from the excavator. This feature allows the compactor to be swapped between excavators without having to worry about checking the oil flow to the compactor, perfect for a hire companies with many excavators.

PneuVibe compactor plates can be simply connected to your machine's existing hydraulics and if you have existing hydraulic hammer piping on your machine, connecting the compactor plate is even easier.



PneuVibe
COMPACTION

simple and smart



An award-winning quick hitch offers a simple comprehensive solution which uses a positive locking system rather than a gravity locking system thus making this crucial safety feature 'active' and not 'passive'.

features:

- multiple Safety Locking Features.
- in the event of hydraulic failure, the bucket remains secured on both pins due to the active safety system. However, the extra free movement indicates to the operator that there has been a loss of hydraulic pressure.
- the bucket cannot become detached whilst digging as the operator must intentionally go through the release sequence within the permitted release zone.
- The Smart Valve system does not allow the bucket to be detached unless in the fully crowded in position.



360°
rotation

trouble-free operation

designs and sizes to
meet your job require-
ments

Daehan is the leading manufacturer of hydraulic grapples with a large range of specially designed grapples for applications in landscaping, recycling, forestry, rail laying and construction.

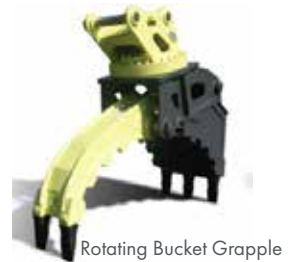
All grapples come with multiple size choices to suit your job requirements.

Daehan grapples are manufactured from hardened, wear resistant special steel, PT 60 from POSCO ensuring durability and reliability even in the toughest conditions.

features that ensure
trouble-free and safe
operation

The operator has full control of the rotating speed of the grapples with unlimited clockwise and anti-clockwise 360° rotation. An enclosed cylinder check valve is part of every grapple to prevent the dropping of material whether it is wood, demolition debris, waste paper, scrap or garbage.

A specially designed swing bearing ensures durability and the large cylinder delivers more power. An oil flow control valve and motor protection mechanism ensure any hydraulic issues will be minimised.



what our customers say

“ I chose a Rammer rockbreaker for its reliability, durability and proven record in our Byford quarry. Other brands were considered but due to the remote operation the Rammer sealed accumulator system is far more reliable than the piston accumulator that is offered by competing breakers needing more frequent maintenance and regular charging of the gas system”.

- Steve Della Bona, Director of the WA Limestone -

“ Features like these and the fact that this demolition application also needed a tool with 360 degree rotation, a standard feature on the Rammer RD2525 Multiprocessor, gave us peace of mind that we could carry out all tasks as efficiently as possible”.

- Jadd Brown, Director of Focus Demolition -

“ Demolition jobs vary and having a versatile demolition tool such as the Rammer RD2019 Multiprocessor available saves us time and money as it enables us to complete different types of jobs without having to obtain a whole new assembly”.

- Jim Cross, Director of Cross Verwijmeren Pty Ltd -

“ Total Rockbreaking Solutions was invited to address an audience of 80 Reliability Engineers and Metallurgists from a range of Rio Tinto sites at the Perth Convention Centre to explain the benefits of membrane type accumulators and also to provide suggestions to improve the efficiency of fixed boom systems by reducing total cycle times.

- Rio Tinto's internal Community of Practice (CoP) Forum August 2014 -



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