

TOTAL ROCKBREAKING SOLUTIONS (TRS)

has Boom Automation under control with BoomSafe®

When it comes to rugged mining locations, Western Australia's Pilbara region is high on the list of tough locations.

Stifling heat, ultra-hard rocks and abrasive dust ensure that any piece of machinery has to be built tough to survive.

Already recognised as the most reliable and cost-effective boom automation and remote operation system on the market, Total Rockbreaking Solutions' BoomSafe® has been proven over many years and many installations to be strong, reliable and durable in these difficult conditions.

TRS BoomSafe® has been developed specifically for hydraulic boom systems to provide safe and reliable remote operation and incorporates automated movements and advanced collision prevention to improve the

safety of any fixed pedestal boom system.

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

As its name suggests, BoomSafe® is designed to not only help miners improve their productivity, but this state-of-the-art boom automation and control system also helps to ensure workers go home safe every day. With simple remote operation connectivity, multiple rockbreakers can be operated from a single workstation from anywhere in the world through the plant network – without any operator being exposed danger.

With easy set-up and configuration tools, BoomSafe® will also help reduce downtime. High speed automated movement sequences can be configured and optimised by site-based maintenance staff using the us-

er-friendly touchscreen.

Safety and 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 either the local radio control or remote operation station are supervised by BoomSafe® to avoid damage to the boom and surrounding infrastructure, preventing all movements which would result in the boom moving outside the designated safe work area.

Additionally, BoomSafe's® unique 'Operator Assist' function automatically corrects and adjusts the human operator-initiated movements to direct the boom back into the safe

work area instead of halting the boom operation and requiring further operator intervention to continue.

Remote Operation

BoomSafe's® remote operation feature allows operators to control all of their network-connected rockbreaker boom systems from a single workstation – a truly multi-operation solution.

Remote operators can execute automated movements (such as 'Park', 'Deploy', 'Tool Replacement Position', 'Hammer Change Position') with a single button press, improving speed and precision.

For example, when parking on a small platform, BoomSafe® reduces the chance of equipment damage that could easily be caused by operator fatigue or error.

Customise onsite

Site maintenance staff can set up and mod-

ify BoomSafe® movement sequences and adjust the allowed area of operation when needed using the menu-driven configuration system.

BoomSafe® can also be integrated with other sensor systems on site, such as perimeter safety gates, traffic lights or truck detection systems. It also has configurable inputs that can be set up to operate and integrate other plant or equipment, for example, opening and closing a crusher cover.

Simple maintenance

If maintenance is required, all BoomSafe® components can be replaced in minutes using only hand tools on site without specialist technicians. Sensors are mounted independently to the boom hydraulic components and are easily accessible.

With TRS BoomSafe®, users can set the direction, acceleration, maximum speed, and minimum creep speed for each joint of the hydraulic boom independently. This level of control enhances the boom system's perfor-

mance, improves ease of operation for local and remote operators and reduces unnecessary wear and tear on mechanical components.

About Total Rockbreaking Solutions

Total Rockbreaking Solutions (TRS) is a wholly Western Australian owned company, focused entirely on the design, sales and service of hard rock mining boom systems, hydraulic power units and a large range of specialist hydraulic attachments for the mining, construction and recycling industries.

TRS' highly experienced in-house engineering and project management team specialise in the mechanical and hydraulic design of Australian made, heavy duty pedestal mounted boom systems complete with high specification hydraulic power units ideal for large scale mining operations. **AMR**

For further information please visit:
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- Specifically engineered for high duty, hardworking applications
- Australian designed and manufactured
- Heavy duty, quality components
- High reliability design reduces downtime
- High speed of operation minimises total rockbreaking time
- Protected by BoomSafe® - the industry leader in reliable rockbreaker control systems
- Simple to configure collision avoidance system and automated movements
- True multi-user remote operation available
- 'Zero - Tension' connecting hose solutions
- Various proven systems for safe and fast hammer or tool changing
- Models ranging from 22.5 to 25.8 tonne with reaches up to 17.8m



TRS HD Series

BoomSafe® protected Boom Systems

The TRS range of HD Series Boom Systems represents the next generation of pedestal mounted boom systems. Specifically engineered for the world's toughest mining environments TRS HD Booms maximise reliability and availability in high duty, hardworking applications.

Protected by our industry leading BoomSafe® automation and control system, operators can enjoy one-touch PARK and DEPLOY movements and maintainers can rest assured that collision with surrounding infrastructure is prevented with our easy to configure BoomSafe® Smart Limits® system.






PERFORMANCE | SAFETY | RELIABILITY | EASY MAINTENANCE

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