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BoomSafe™
PROTECTED

**AUTOMATION
COLLISION PREVENTION &
REMOTE OPERATION**

TRS Total
Rockbreaking
Solutions

ADVICE AND SUPPORT YOU CAN TRUST

BoomSafe™ PROTECTED

- ▶ AUTOMATION
- ▶ COLLISION PREVENTION
- ▶ TRUE REMOTE MULTI OPERATION

Developed specifically for hydraulic boom systems and designed to be inherently simple to operate and maintain, featuring easy onsite customisation, BoomSafe combines automated movement sequences and collision prevention with true remote multi-operation capability for your rockbreaker boom systems.

ALL MOVEMENTS SUPERVISED

Incorporating military grade position sensors, mounted in heavy duty housings which are fitted to the boom, stick and rockbreaker, as well as a rotary encoder to determine slew location, BoomSafe is able to determine the precise orientation and position of the boom system at all times. This enables BoomSafe to supervise and authorise all boom movements, including operator instigated movements, to avoid damage to the boom and surrounding infrastructure.



LOCAL CONTROL SETUP

Local Control Type:

Fire 1 Type:

Fire 2 Type:

Retract: Ramp Down:

Deadband:

Set Values:

Deadman: ON Run: OFF

Start: OFF Start: OFF

Fire 1: OFF Fire 1: OFF

Fire 2: OFF Fire 2: OFF

SENSOR SETUP

Slew Sensor:

Boom Sensors:

Axis	Raw	Dir	Limits Of Travel Scaled
SLEW:	0	Neutral	Set Left: Set Right: 100.0%
BOOM:	0	Neutral	Set Forward: Set Reverse: 90.0%
JOB:	0	Neutral	Set Forward: Set Reverse: 90.0%
WARNER:	0	Neutral	Set Forward: Set Reverse: 80.0%

Pass Check:

MOVEMENT COMMAND SETUP

Editing Movement Command: 1

Name:

Options:

Can start when axes are in range:

Axis	100.0%	90.0%	80.0%	70.0%	60.0%	50.0%	40.0%	30.0%	20.0%	10.0%	0.0%
SLEW:	<input type="checkbox"/>										
BOOM:	<input type="checkbox"/>										
JOB:	<input type="checkbox"/>										
WARNER:	<input type="checkbox"/>										

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. In addition, it has configurable inputs that can be set up to operate other plant equipment, for example, opening and closing a crusher cover.



INCREASE SPEED

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 movements 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.

PREVENT COLLISION

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, preventing movements which would result in the boom moving outside the safe work area. While preventing unsafe movement BoomSafe does not necessarily halt the boom operation, instead its Operator Assist function can automatically correct and adjust the human-initiated movements to direct the boom back into the safe work area.

REMOTE CONTROL ALL OF YOUR ROCKBREAKER BOOM SYSTEMS

With BoomSafe you can 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.

Each boom system can be assigned a unique remote operation password for security to prevent unauthorised access.

Integration with plant CCTV is available for a seamless multi-operation experience.

AVOID UNNECESSARY DOWNTIME WITH 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, so NO lifting equipment or mechanical disassembly is required for installation or repair of sensors or the BoomSafe control module.

BoomSafe will help you reduce downtime during scheduled boom or rockbreaker maintenance. As an example, when the rockbreaker tool needs to be replaced or rockbreaker changed, BoomSafe can be configured to accurately position the rockbreaker to specific locations and orientations so tool replacement or rockbreaker changeover can take place safely and quickly.

FACTORY FIT ON NEW BOOM SYSTEMS OR RETROFIT TO ANY BRAND OF BOOM

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

All commissioning takes place via a user-friendly touchscreen HMI and requires no specialised software, controls equipment, 3D modelling or CAD data.





TRS achievements

*Certificate of Excellence,
Product Promotion in 2013*

*Australian Rammer
Dealer of the Year 2014*

*Certificate of Excellence
in 2016*

*Certificate of Service
Excellence in 2017*

*Australian Rammer
Dealer of the Year 2017*

*awarded by
Sandvik Mining and Rock Technology
- APAC*

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