



**RUSSELL**  
MINERAL EQUIPMENT

**PRODUCT FOCUS** PF



## **RUSSELL 7 S** Mill Relining Machine

### **RUSSELL 7 Model S Mill Relining Machine**

**The industry's most trusted liner exchange machine**

As the centrepiece of the RME Mill Relining System, the **RUSSELL 7 Model S Mill Relining Machine** has earned the reputation of being the industry's most trusted workhorse performer globally.

Preferred by operators, RME's signature machine can always be counted on to deliver unrivalled productivity and safety, even in the most challenging of relining conditions.

The RUSSELL 7 Model S is our quality base machine. It is available in 2500 kg to 9000 kg capacities and field upgradable with a range of accessories and automation capabilities. This legendary reliability with future-proofing will be a remarkable advantage for improving mill availability and relining crew safety.



**440+**

Mine sites served by RME equipment and services.



**550+**

RUSSELL MRMs engineered, manufactured and delivered.



**860+**

THUNDERBOLT Recoilless Hammers sold.

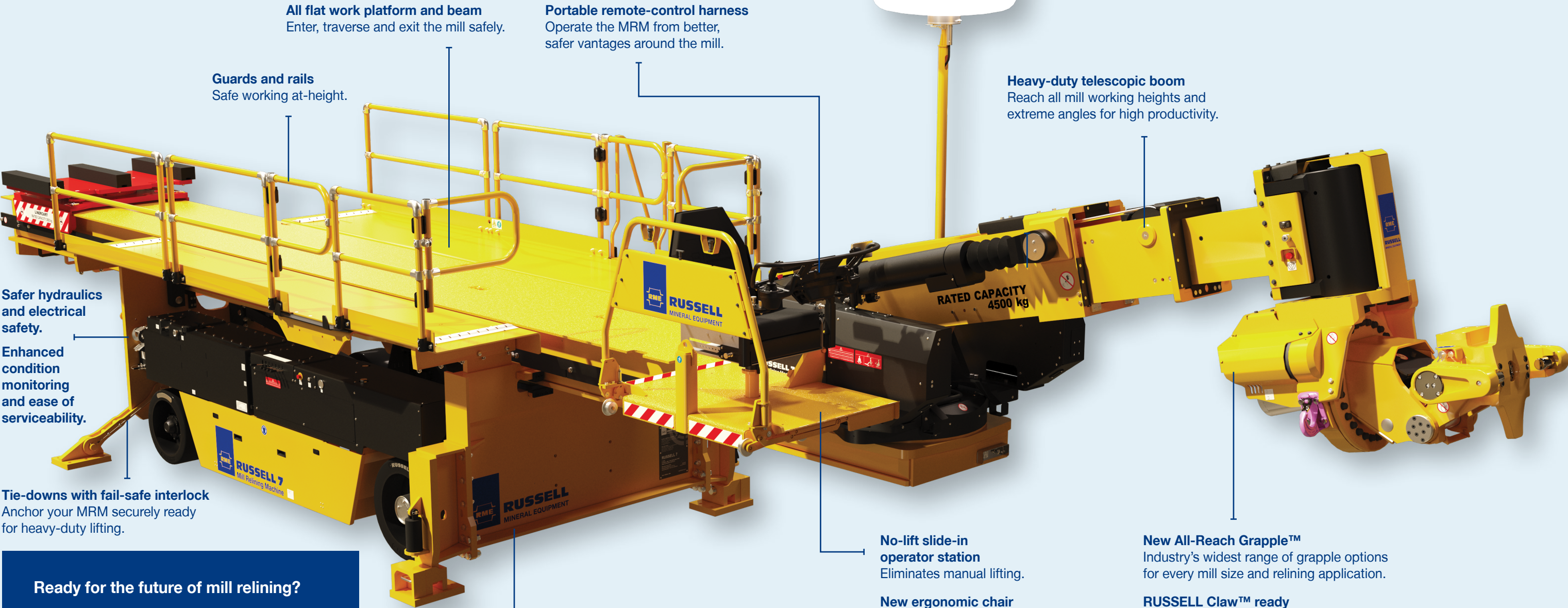
**fast, reliable, safe**

[rmeGlobal.com](http://rmeGlobal.com)



# RUSSELL 7 MODEL S Mill Relining Machine

Our signature liner exchange machine. Always fast, reliable, safe.  
Available in 2500 kg – 9000 kg capacities



**All flat work platform and beam**  
Enter, traverse and exit the mill safely.

**Portable remote-control harness**  
Operate the MRM from better, safer vantages around the mill.

**Guards and rails**  
Safe working at-height.

**Future-proofed upgradeable platform**  
Tried and trusted, all RUSSELL 7 MRMs are now fully-upgradeable to accommodate your current and future mill relining needs.



**Heavy-duty telescopic boom**  
Reach all mill working heights and extreme angles for high productivity.

**Safer hydraulics and electrical safety.**  
**Enhanced condition monitoring and ease of serviceability.**

**Tie-downs with fail-safe interlock**  
Anchor your MRM securely ready for heavy-duty lifting.

**RATED CAPACITY 4500 kg**

**No-lift slide-in operator station**  
Eliminates manual lifting.

**New ergonomic chair**  
For optimum comfort during long shifts.

**New All-Reach Grapple™**  
Industry's widest range of grapple options for every mill size and relining application.

**RUSSELL Claw™ ready**  
The new *master of muck-out* will grab knocked-in liners wherever they fall without manual slinging.

**Ready for the future of mill relining?**  
You will be with RME. Our RUSSELL 7 Model S MRM features a fully-upgradeable platform with hardware and software configuration flexibility for RME AutoMotion™ and RME INSIDEOUT™ Technology. This ensures RME customers are not left behind by technology advances which will enable safer, faster relining from outside the mill.  
Reach out to RME to learn more.

**New coating technology**  
Better protection in harsh conditions.

**Industry-best safety technology**  
eStops, base drive enable systems, LED work and emergency lighting, boom lift limiting, grapple release safety and more.

**Compatible with a wide range of grapple options and MRM accessories for boosting productivity and safety**



## BENEFITS

### Industry-best safety

The RUSSELL 7 S MRM is renowned the world over for having the most advanced safety systems. And now this tried and trusted machine offers optionality for removing operators out of harm's way and relining from outside of the mill.

### Trusted for productivity

Precision engineered to consistently achieve the liner exchange rates you need to make your shutdowns short today, with flexibility for securing even faster relining speeds through automation in the future, with only modest upgrades of the machine.

### Proven for reliability

For more than three decades we have engineered the RUSSELL 7 to improve concentrator performance and safety. Our Customers do not risk untested or unreliable technology. Instead they depend on RME to ensure maintenance predictability for every reline event.

### Superior service life

The unrivalled and fiercely robust RUSSELL 7 S MRM is better for the balance sheet because it is built to last. This lowers total cost of ownership (TCO) over the life of a higher performing, longer lasting asset.

### Improve mill availability

RUSSELL 7 S MRM is field-proven to excel at relining in a wide-range of grinding mill environments and now features enhanced configuration flexibility. This ensures RME Customers are future-proofed to leverage new technologies which can unlock new opportunities to improve mill availability.

### Comprehensive support

Supported by RME's Mill Relining Optimisation Program, RME 24/7/SERVICE and a collaborative systems engineering journey which leverages our 35+ year trusted evidence-based OEM expertise.

### Applications

Ideal for all mine sites and mill applications large, medium and small, especially those seeking to optimise their mill relining operations through automation technology in the future.

### Learn more

- RME *AutoMotion*™ Product Brief
- RUSSELL Claw™ Product Brief
- RME BOLTBOSS Product Brief

## Choose your RUSSELL 7

The RUSSELL 7 is the industry's most trusted and adopted mill relining machine. They embody everything RME has learnt over 35+ years and 550+ MRMs manufactured to deliver superior productivity, serviceability, safety and lower total cost of ownership.

And now, RME's modular systems engineering approach offers more models, for mills large, medium and small, so you are certain to find a solution to match your mine site needs.

It's never been easier to enter the world of advanced relining and achieve visible, defensible and sustainable improvements in concentrator performance and mill relining safety.

	RUSSELL 7 Model S	RUSSELL 7 Model S+	RUSSELL 7 Model R
Capacity	2500 kg – 9000 kg	4500 kg – 9000 kg	4500 kg – 9000 kg
7-axes of movement	Standard	Standard	Standard
RME <i>AutoMotion</i> ™	Upgrade-ready	Hardware-equipped	Fully-operational
Radio Remote Control	Standard	Standard	Standard
No-lift operator station	Optional for <i>AutoMotion</i> ™ mode	Optional for <i>AutoMotion</i> ™ mode	Optional for <i>AutoMotion</i> ™ mode
Hydraulic system redundancy	Levers – Standard	Levers – Standard	Levers – Standard
Power Slew Linercart	Optional	Standard	Standard
Motor	Single WEG W22	Dual WEG W22	Dual WEG W22
Automated Park / Deploy	Upgrade-ready	Standard	Standard
Liner visual detection camera	Upgrade-ready	Hardware-equipped	Fully-operational
RUSSELL All-Reach Grapple™ (ARG)	Optional	Standard	Standard
Additional Grapple options	HKS / Cylinder / Small Entry	HKS / Cylinder	All-Reach Grapple™ Standard
Grapple Pins	2-pin / 4-pin	2-pin / 4-pin	2-pin / 4-pin
Wheel Drive (WD)	2WD Standard / 4WD Optional	2WD Standard / 4WD Optional	2WD Standard / 4WD Optional
4 Wheel Steer (WS)	Standard	Standard	Standard
Tie-downs with safety interlock	Standard	Standard	Standard
Safety & productivity accessories	Upgrade-ready	Upgrade-ready	Upgrade-ready
SKYWAY / SKYPORT	Upgrade-ready	Upgrade-ready	Fully-operational
RUSSELL Claw™	Optional	Optional	Optional
RME BOLTBOSS	Optional	Optional	Standard





## Creating the future of mill relining

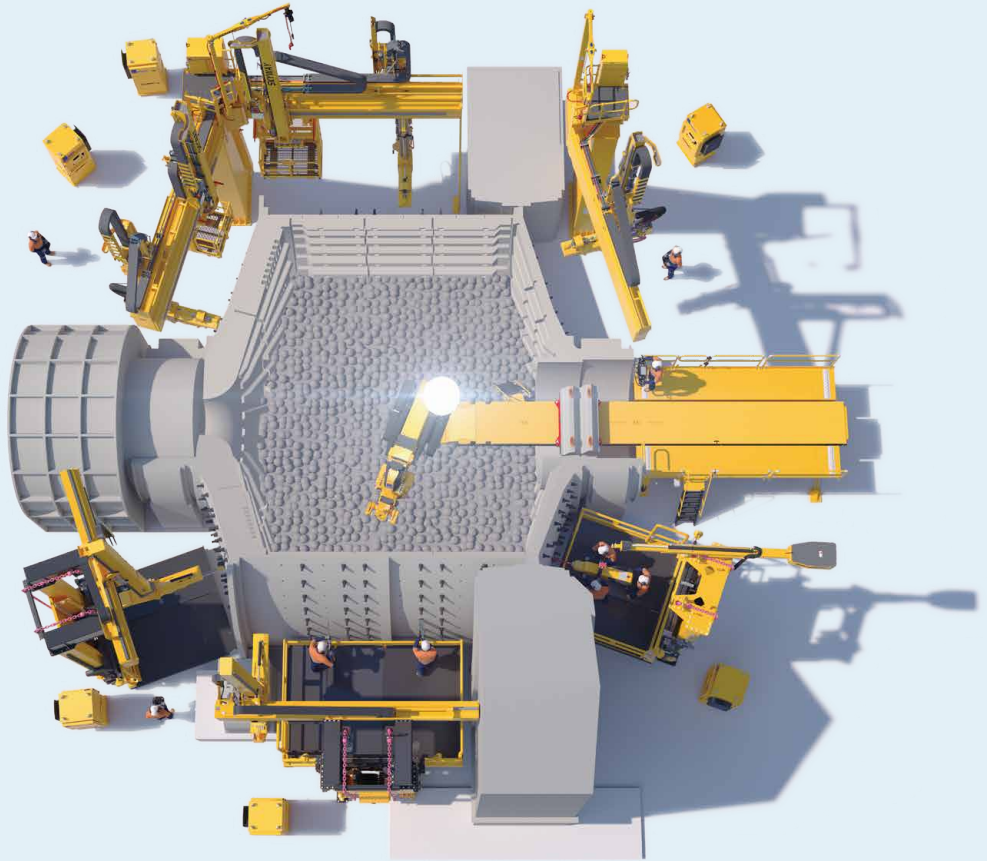
Mineral processors need to address issues that are more challenging and more urgent than ever.

On one hand they must reduce the risks that remain associated with hazardous mill relining. On the other, maximise mill availability for meeting the world's mineral needs.

It is this pursuit to improve safety and productivity that drives RME to innovate for our industry.

This has led us to envision a future where relining is performed with no one inside the mill at faster speeds than ever before.

And now this future is here.



## ADVANCE YOUR MILL RELINING – SAFELY

For almost 40 years, RME has led the world in the engineering of fast, reliable, safe technologies and processes for every step on the mill relining path.

Today the integrated RME Mill Relining System has advanced to incorporate autonomous capabilities.


At its centre is the RUSSELL MRM with an expanded range, a modular future-proofed platform and RME *AutoMotion*™ optionality.

Supporting it, stands the industry-proven THUNDERBOLT worn liner removal solutions and innovative RME *INSIDEOUT*™ Technology.

Together, they move operators out of harm's way and relining off the shutdown critical path.

Best of all, RME's carefully-staged systems engineering maximises current investments by enabling mine sites to adopt automation progressively at their pace, and as needs dictate.



RME's approach to mill relining automation prioritises safety at every step. First, we take mature and proven technologies and future-proof them with automated capabilities. Second, we take a systems approach to ensure no new risks are introduced inside and outside the mill. Third, we've developed a carefully staged and fully-supported implementation program which minimises technical and cultural change risks. Our approach is fast, reliable and ensures the safety of your reline crew. 

### Tarnya McBurney

Global Product Portfolio Manager,  
RUSSELL MINERAL EQUIPMENT

## WE ARE RME





**RUSSELL**  
MINERAL EQUIPMENT

# RME delivers innovation to the world

RUSSELL MINERAL EQUIPMENT (RME) is the global leader in the manufacture and supply of grinding mill relining technologies, services and support.

RME operates across 12 international Sales and Service Centres with a global reach of over 440 mine site locations.

RME's commitment to industry is to visibly, defensibly and sustainably improve our Customers' concentrator performance. We enable our Customers to remove fatal risk through innovative solutions.



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