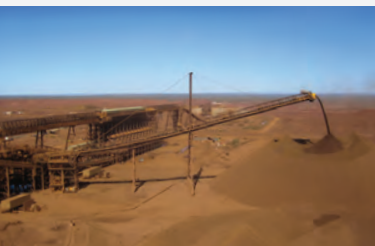




// ONE BRAND // ONE SOURCE // ONE SYSTEM



Industrial Solutions
Mining



HEMATITE IRON ORE

Building the future

Every industry is different, as is every plant. The processing of raw materials, minerals and ores requires plant machinery and equipment to be operating efficiently at all times. REMA TIP TOP Industrial Solutions gives iron ore plant operators a complete range of conveyor belting and components, wear protection and surface protection solutions tailored to the specific needs of your plant.



Mining



Coal



Copper



Gold



Iron Ore



Lithium

IRON ORE

In the early 2000s global commodity markets grew dramatically, driven extensively by the urbanisation and industrialisation of emerging economies in Asia and Latin America. This was particularly evident in industries like iron ore. China continues to be one of the largest consumers of base metals, particularly for its steel mills and power generation.

The key challenges ahead for the iron ore industry are the rebalancing of supply and demand, stabilising global iron ore prices; domestic and international government decisions effecting sourcing of raw material; and the continued focus on operating costs for mine operators. REMA TIP TOP's core products in conveying solutions, wear and corrosion protection are tailored to, and proven in the iron ore industry around the world.

Heavy duty wear protection systems feature high abrasion-resistance characteristics that increase the lifecycle and maintenance cycle of your plant and machinery many times over. Our conveyor maintenance products, services, technologies and analytical tools improve the efficiency of your assets, reducing maintenance costs and improving availability, while our Automotive group of products keeps your vehicles' tyres on the road longer and improves their safety outcomes.

HEMATITE ORE

The mining, production and export of high-grade hematite ores currently accounts for approximately 50% of global iron ore production.

High-grade hematite is often referred to as "Direct Shipping Ore" or "DSO" because it is mined and beneficiated using a relatively simple crushing and screening process before being exported for use in steel mills.



Minerals

YOUR REMA TIP TOP PRODUCTS & SERVICES PORTFOLIO



Belting



Pulley Lagging



Impact Bed/Bars



REMA Technology & Monitoring



Wear Rubber Linings



Idlers, Rollers & Trackers



Bearings*



Pulleys



Skirting Systems



Safety Equipment*



Belt Cleaning Systems



Ceramics



Adhesives



Heavy Wear Protection



Rubber Steel Plates



Anti-Caking



24/7 Service



Engineering



Tools Repair System



Fluoro-polymer Linings



Coatings



Corrosion Rubber Linings



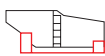
Brick Linings



Combined Linings



Mill Lining

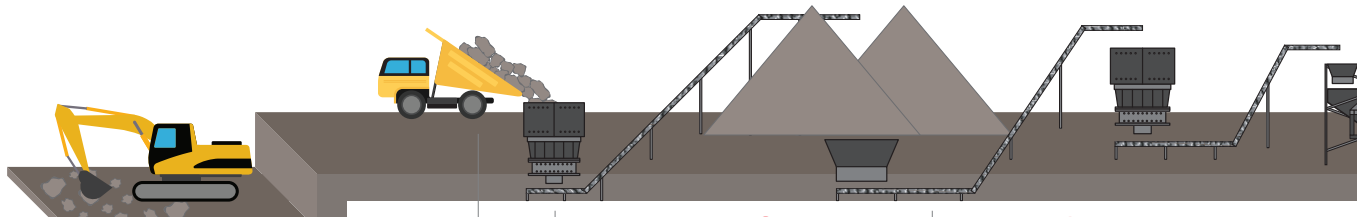


Screening Mats



Vulcanisation Presses

*Please contact your local REMA TIP TOP representative for availability



- 1 EXCAVATION**
- WEAR PROTECTION**
 CERAMICS
 • REMALOX
 • REMALOX HD
- RUBBER LINING**
 • REMALINE
 • PERFORMANCE LINE
- POLYURETHAN**
 • REMATHAN

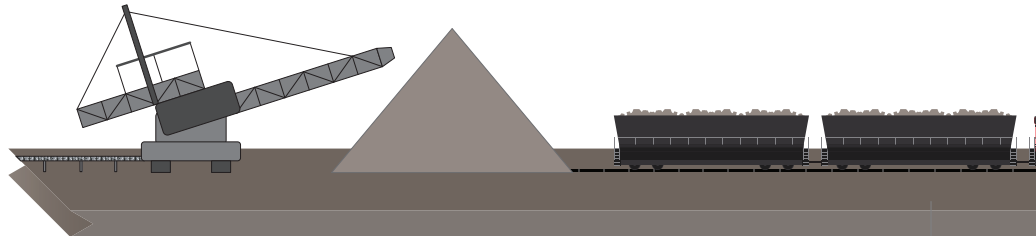
- 1 TYRES**
- TYRE REPAIR**
 EMERGENCY SEALING
 • SEALASTIC
- PREVENTIVE SEALING**
 • TT-SEAL XXL
- PERMANENT REPAIR**
 • RADIAL PATCH RAD100 SERIES
 • CEMENT OTR

- ROM PRIMARY SIZE CRUSHER**
- WEAR PROTECTION**
 CERAMICS
 • REMALOX
 • REMALOX HD
- RUBBER LINING**
 • REMALINE
 • PERFORMANCE LINE
- POLYURETHAN**
 • REMATHAN

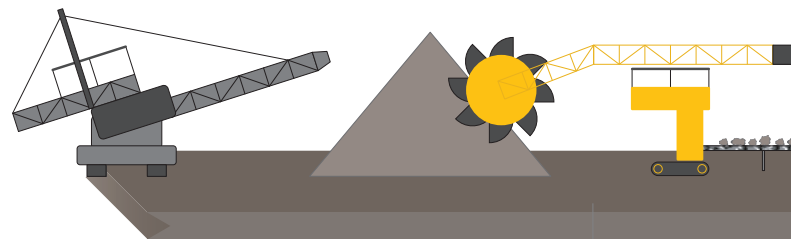
- ROM BELT**
- CONVEYING SOLUTIONS**
 PULLEY LAGGING
 • REMAGRIP
- SKIRTING RUBBER**
 • REMASKIRT
- FEEDING SYSTEM**
 • REMASLIDE
- ANTI CAKING**
 • REMATHAN
- BELTING**
 • STEEL CORD
 • FABRIC
 • SOLID WOVEN

- COMPONENTS**
 • IDLERS
 • ROLLERS
 • TRACKERS

- TECHNOLOGIES**
 REMA MCUBE
 • BELT THICKNESS MONITORING
 • SCS STEEL CORD SCANNING
 • RIP GUARD DETECTION



- TRAIN**
- WEAR PROTECTION**
 RUBBER LINING
 • REMALINE
 • PERFORMANCE LINE
- CERAMICS**
 • REMALOX



- EXCAVATION**
- WEAR PROTECTION**
 CERAMICS
 • REMALOX
 • REMALOX HD
- RUBBER LINING**
 • REMALINE
 • PERFORMANCE LINE
- POLYURETHAN**
 • REMATHAN

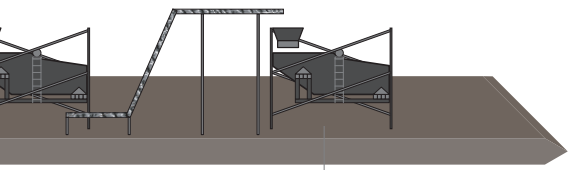


PIPING



CONVEYOR SYSTEM

Hematite Iron Ore Process



EXCAVATION
PRODUCTS & SOLUTIONS 1

CRUSHING
PRODUCTS & SOLUTIONS 2

MATERIAL HANDLING
PRODUCTS & SOLUTIONS 3

SCREENING & CLASSIFICATION
PRODUCTS & SOLUTIONS 4

TRAIN LOADING & TRANSPORT
PRODUCTS & SOLUTIONS 5

SHIP LOADING
PRODUCTS & SOLUTIONS 6

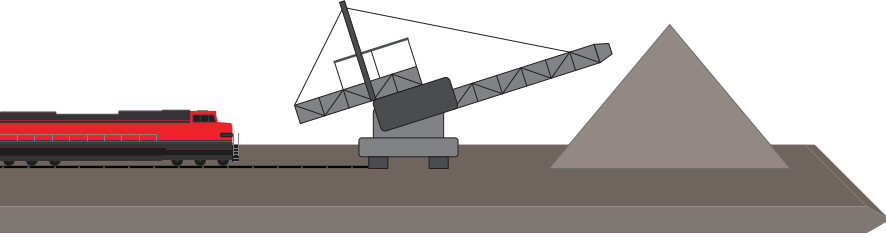
CLASSIFYING SCREEN 4

WEAR PROTECTION
RUBBER LINING
• REMALINE
• PERFORMANCE LINE

CERAMICS
• REMALOX
• REMALOX HD

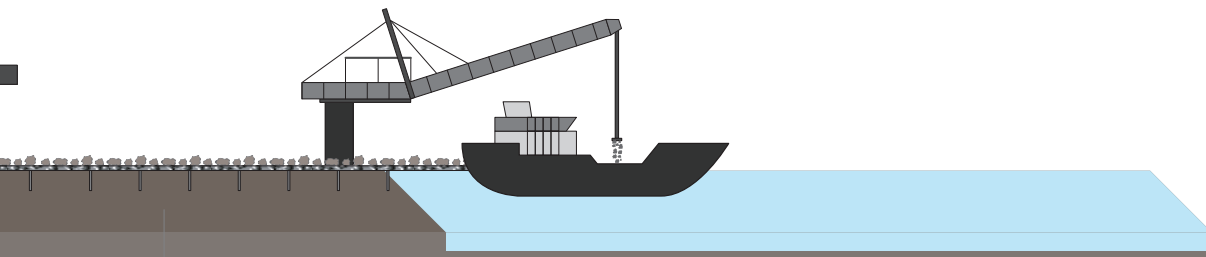
SCREENING MATS
• REMASCREEN

DRIVING
ER



TECTION
NG

ANCE LINE



CONVEYOR 6

CONVEYING SOLUTIONS
PULLEY LAGGING
• REMAGRIP

SKIRTING RUBBER
• REMASKIRT

FEEDING SYSTEM
• REMASLIDE

ANTI CAKING
• REMATHAN

BELTING
• STEEL CORD
• FABRIC
• SOLID WOVEN

COMPONENTS
• IDLERS
• ROLLERS
• TRACKERS

TECHNOLOGIES
REMA MCUBE
• BELT THICKNESS MONITORING
• SCS STEEL CORD SCANNER
• RIP GUARD DETECTION



Mining



Coal



Copper



Gold



Iron Ore



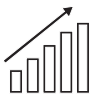
Lithium

CASE STUDIES

METHODOLOGY

Reduction in belt change-out times

An iron ore port facility was experiencing inefficiencies as a result of their methodologies and response to conveyor maintenance. At the time replacements were prepared



Increased production time

43%

Less downtime operations



Immediate response to all breakdowns

and executed case-by-case which resulted in long shut-downs and risks with readiness and responsiveness. As a result, REMA TIP TOP implemented new belt and stock management, standardised equipment, upgraded and engineered equipment and introduced a new methodology. This resulted in a 43% reduction in replacement windows with an immediate response to all breakdown scenarios.

REMA MCUBE

Monitoring belt condition for efficient change-outs

The REMA scan portable steel cord belt scanning unit is used to monitor a conveyor belt's steel cord condition. As the first of its kind in Australia, a REMA TIP TOP service

30mins

Set up in under 30 minutes

10mins

Accurate condition reports in under 10 mins

team in the Pilbara installed the scan unit to provide more accurate information on the condition of the steel cord belt to help our customer make informed decisions about belt change-outs. The initial trial of the REMA scan unit accurately mapped the number of splices, their location and their condition and cord damage. The site's management was impressed with the speed and ease of the data collection to produce a simple report in under two minutes.



Minerals

BELT TRACKING

Reducing belt mis-tracking

An iron ore port facility was experiencing a high amount of belt mis-tracking and drift switch trips, which resulted in significant downtime and decreased production.



80% reduction in downtime



Increased production



Reduced tracker maintenance costs/repairs

REMA TIP TOP conducted an initial survey and adjustment of the idler alignment and proceeded to install effective, custom engineered, fit-for-duty belt tracking units. The installation of these units has resulted in an 80% reduction in tracking related downtime, which has increased production.

SERVICE

Rapid response times

At a Pilbara port facility a steel plate lodged itself in a conveyor transfer chute, tearing 100 metres of wharf belt.



Rapid reponse maintenance team

100m

Insert delivered in just over 2 days

0

Incidents

REMA TIP TOP's maintenance team assessed the damage and made the decision to carry out a 100 metre belt insert. The repair was completed in just over two days and the conveyor system was back in operation. The customer was extremely impressed with REMA TIP TOP's rapid response maintenance team being able to restore the port's most critical conveyor belt so quickly and without any incidents.



Driving your Performance

OUR SERVICE PROMISE

The REMA TIP TOP group of products are specifically designed with your plant and assets in mind. From wear and surface protection to conveyor technology and components, our products paired with our service solutions warranty to dramatically increase the lifecycle of your assets, lower your maintenance costs and improve the availability of your system.

For decades we have been working on-site with our customers and partners in the development of industry best practice installation, maintenance, and upkeep strategies to optimise your site beyond the benchmarks of your competitors. From developing methodologies and undertaking engineering audits, to implementing data collection technologies and tapping into The Internet of Things, we have the know-how and experience to keep you up and running longer, safer, and more efficiently.



// ONE BRAND // ONE SOURCE // ONE SYSTEM

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