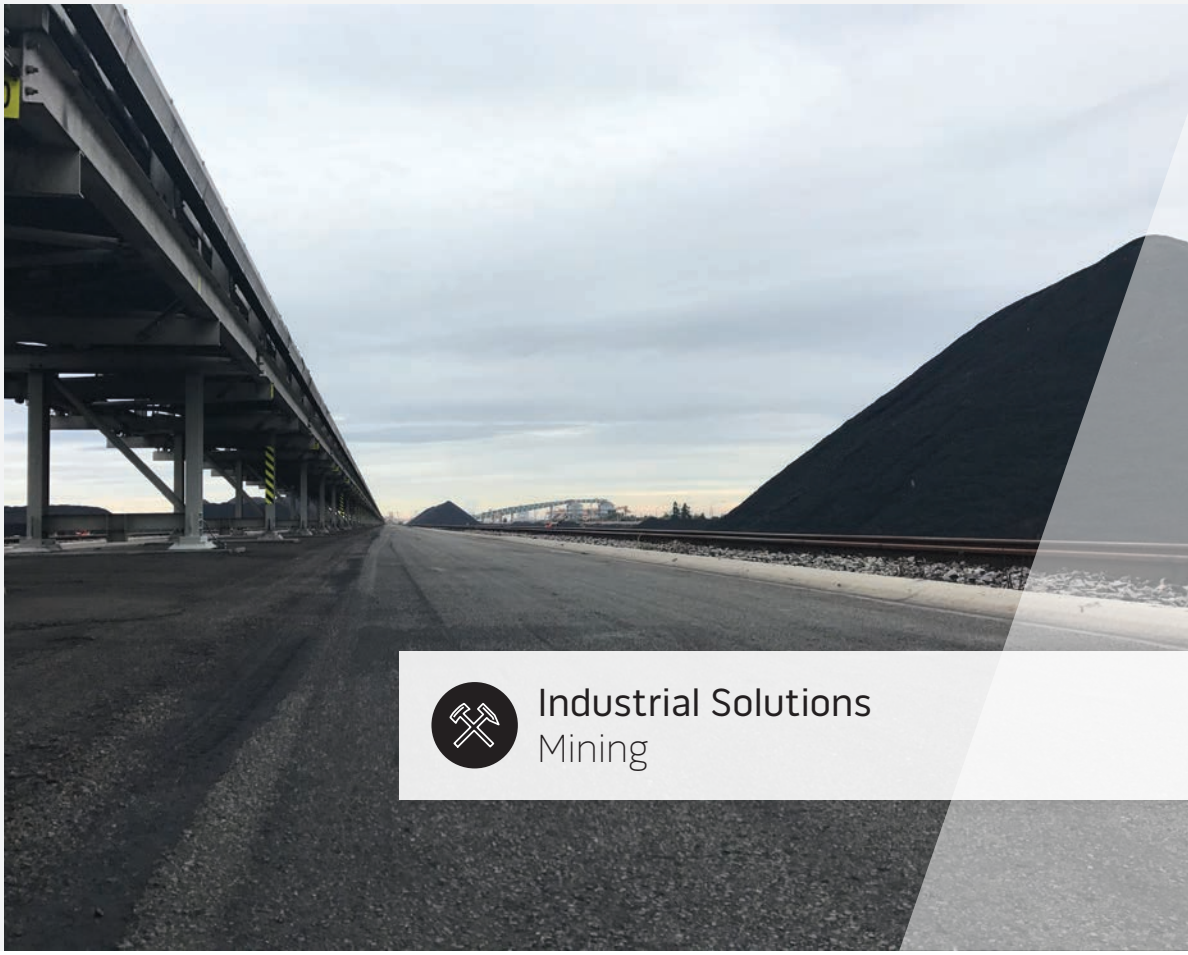
REMA TIP TOP

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



Industrial Solutions
Mining

COAL

COAL

Sustainable solutions for the coal industry

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 coal mine 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

COAL

For a very long time, the coal industry has been a critical player in the development of industries, energy generation and innovation for the future.

Some of the key challenges in a shifting economic, political and social environment centre around the sustainability and maintainability of coal plants and equipment, and in technology-based improvements that drive efficiencies.

One of REMA TIP TOP's core global values is the mantra of 'repair, don't replace', which speaks to our approach in delivering products and services that improves the lifecycle and availability of our customers' assets.

Our range of conveyor maintenance products, services, technologies and analytics tools increase the efficiency and availability of our customers' systems, while our wear and corrosion protection systems protect our customers' plant and keep machinery running far longer than its normal lifecycle.

Specialised products like REMA dust covering systems also improve the environmental outcomes for our customers, and OTR tyre patches and servicing reduces your reliance on new tyres and keeps your vehicles on the road longer.

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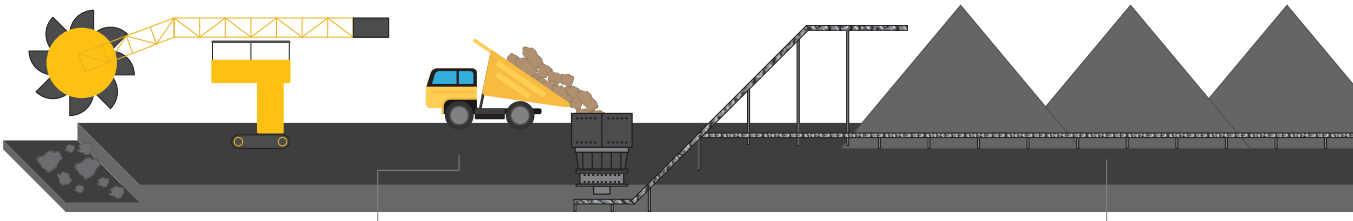
Minerals

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 TYRES

TYRE REPAIR
EMERGENCY SEALING
- SEALASTIC

PREVENTIVE SEALING
- TT-SEAL XXL

PERMANENT REPAIR
- RADIAL PATCH RAD100 SERIES
- CEMENT OTR

ROM PRIMARY SIZE CRUSHER 1

WEAR PROTECTION
CERAMICS
- REMALOX
- REMALOX HD

RUBBER LINING
- REMALINE
- PERFORMANCE LINE

POLYURETHAN
- REMATHAN

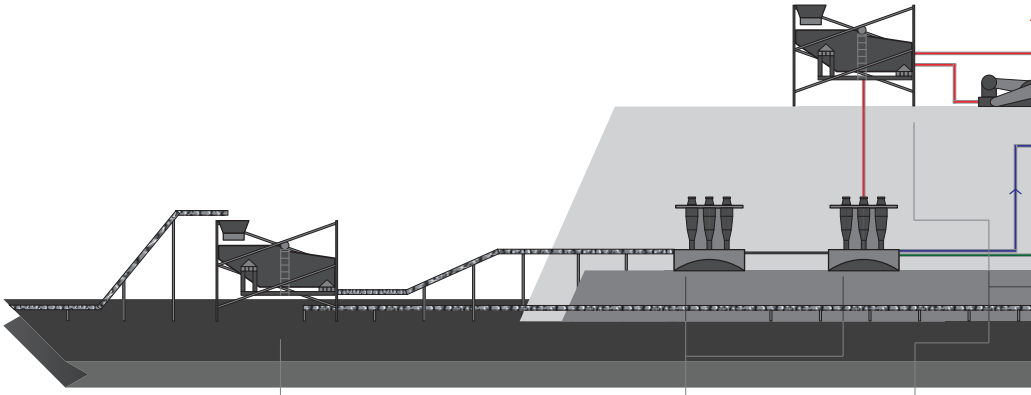
CONVEYOR 1

CONVEYING SOLUTIONS
PULLEY LAGGING
- REMAGRIP

SKIRTING RUBBER
- REMASKIRT

FEEDING SYSTEM
- REMASLIDE BARS
- IMPACT BEDS

ANTI CAKING
- REMATHAN



2 SECONDARY CRUSHER SCREEN

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

POLYURETHAN
- REMACOAT

SCREENING
- REMASCREEN

3 DENSE MEDIUM CYCLONES

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

POLYURETHAN
- REMACOAT

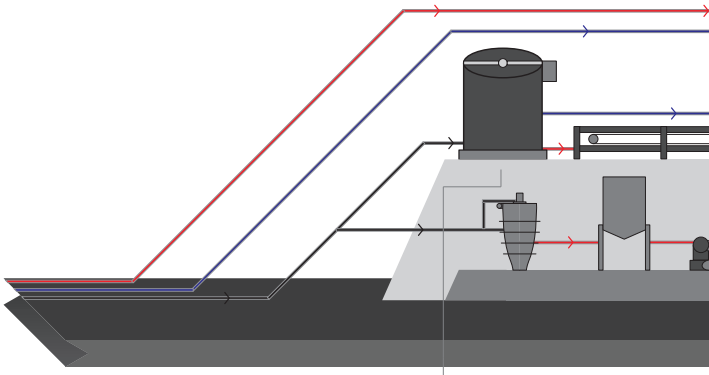
CERAMICS
- DIRECT BOND TILES

DRAIN & RIN

WEAR PROTE
RUBBER LININ
- REMALINE
- PERFORMANC

POLYURETHAN
- REMACOAT

CERAMICS
- DIRECT BOND



3 FLOATATION CELLS

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

POLYURETHAN
- REMACOAT

CORROSION PROTECTION
RUBBER LINING
- CHEMOLINE

4

W

- P

CORROS

PIPING

CONVEYOR SYSTEM

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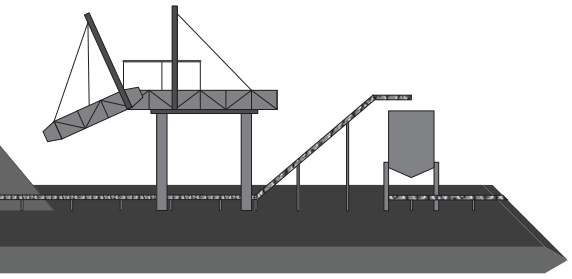


Coal Process

PRODUCTION FEED 1
PRODUCTS & SOLUTIONS

PRE-TREATMENT 2
PRODUCTS & SOLUTIONS

CLEANING 3
PRODUCTS & SOLUTIONS

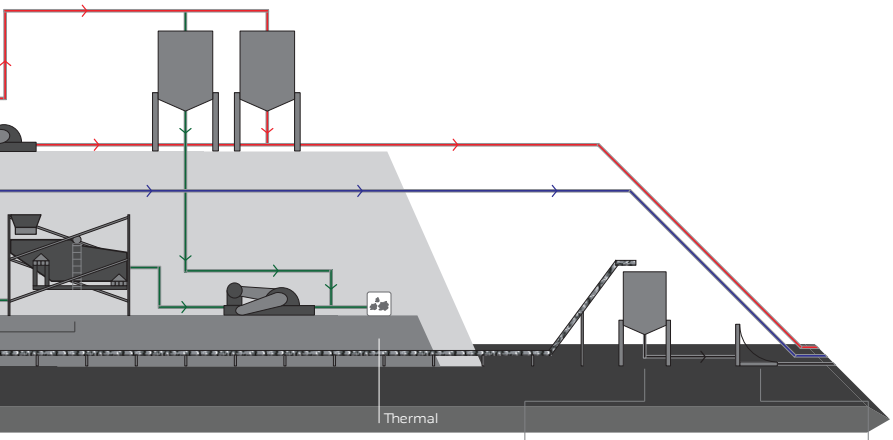
SUBSEQUENT TREATMENT 4
PRODUCTS & SOLUTIONS

SHIP LOADING 5
PRODUCTS & SOLUTIONS

BELTING
- STEEL CORD
- FABRIC
- SOLID WOVEN

COMPONENTS
- IDLERS
- ROLLERS
- TRACKERS
- CLEANERS

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



SE SCREENS 4

CTION
G
CE LINE
N
TILES

2 CYCLONE

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

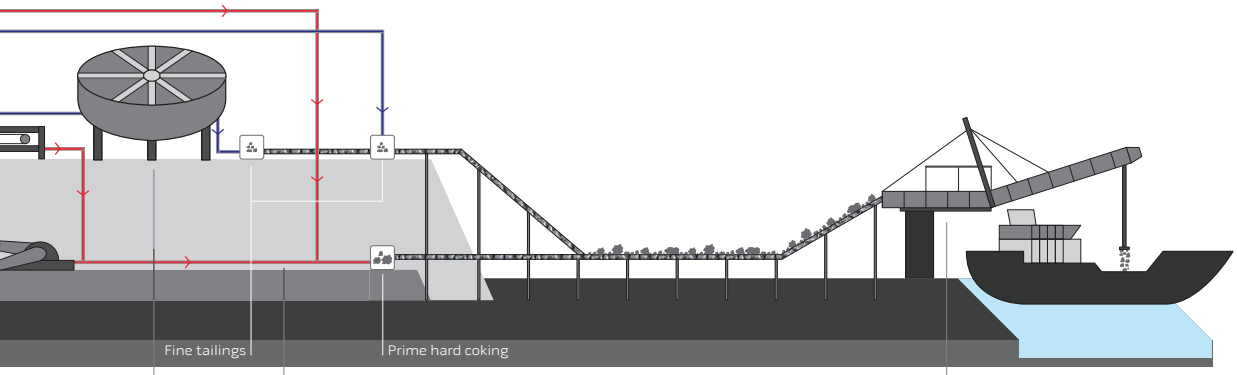
POLYURETHAN
- REMACOAT

CERAMICS
- REMALOX
- DIRECT BOND TILES

2 CLASSIFYING SIEVE BEND

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

POLYURETHAN
- REMACOAT



THICKENERS

EAR PROTECTION
RUBBER LINING
- REMALINE
ERFORMANCE LINE

ION PROTECTION
RUBBER LINING
- CHEMOLINE

PIPING 3

WEAR PROTECTION
RUBBER LINING
- REMALINE
- PERFORMANCE LINE

MINERAL PROCESSING
- DUNLOP HOSES

5 SHIP LOADER

WEAR PROTECTION
CERAMICS
- REMALOX
- REMALOX HD

Mining

Coal | Copper | Gold | Iron Ore | Lithium

CASE STUDIES

REMALOX HD 35

Reducing wear and extending lifetime of discharge chutes

At a coal terminal in China, a discharge chute was experiencing a high degree of abrasion and wear.

2 month — Previous lining: Steel

18 month — Lifetime with REMALOX HD 35

x9 — Increase in lifetime

It was previously 20mm steel-lined, and was subject to a service life of approximately 2 months. The chute was relined with REMALOX HD 35 – a steel-backed rubber and ceramic composite, which extended the service life of the transfer chute to over 18 months.

UNIGRIP CR-L

Reducing slippage and increasing service life

A coal handling prep plant in China was experiencing slippage on one of its main transfer belts, causing downtime and reduced throughput.

2 years — Ongoing service life

Perfect for wet conditions

Long service life

The solution was the installation of UNIGRIP CR-L, a pulley lagging material with ceramic inserts. Perfect for wet conditions, UNIGRIP has a higher coefficient of friction and a very long service life.

This pulley remains in service more than two years later.

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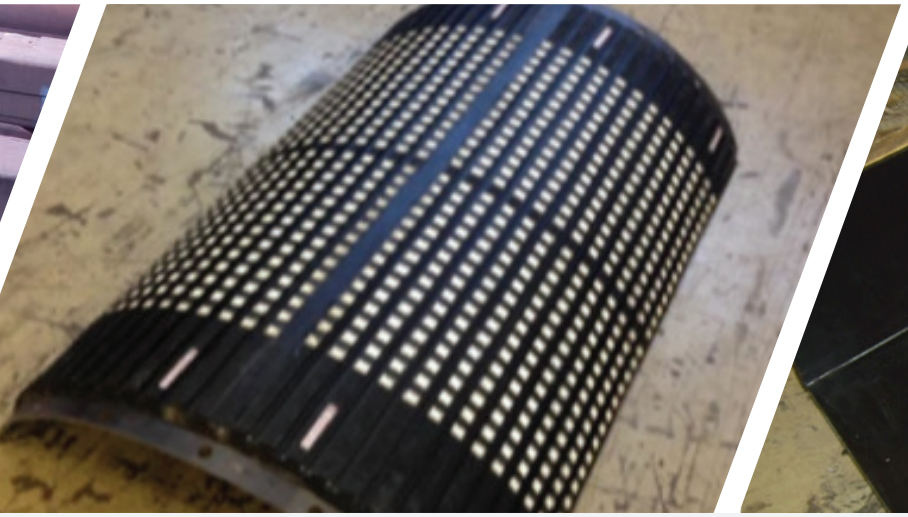

Minerals

INNOVATIVE PRODUCT SOLUTIONS

Low noise rollers

Following a successful trial of low-noise rollers, REMA TIP TOP changed out 4,500 rollers for an Australian coal mining customer.

4500 Low noise rollers installed

75% Reduction in noise

The initial trial was undertaken in September 2016 after proactive noise testing found improvements were needed to meet community and environmental expectations. Independent testing found that the change out reduced roller noise by 75 per cent. Our unique condition monitoring techniques continue to be utilised on site to monitor roller performance and proactively implement maintenance strategies.

MAINTENANCE EXPERTISE PAYS DIVIDENDS

Reducing cost, increasing availability

In January 2015, a coal mining client in Queensland, Australia approached us about its conveyor availability issues.

Reliability engineering approach

98% Conveyor availability

41% Reduction in maintenance costs

REMA TIP TOP implemented a reliability engineering approach to track and analyse the data of all aspects of the conveyor components.

In taking up our data-driven recommendations we have been able to improve the conveyor availability to 98 per cent, and reduce maintenance costs by more than 40 per cent.

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 out service solutions warranty to dramatically increase the lifecycle or 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.

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REMA TIP TOP AG
Gruber Strasse 65 · 85586 Poing / Germany
Phone: +49 8121 707-100
Fax: +49 8121 707-10 222
info@tiptop.de
www.rema-tiptop.com

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