elastotec™ | magnefast™

Wear Panels Capability Statement



elastotec.com.au

Contents

Company Overview 3

Four Pillar Process 5

Our Clients 6

Our Wear Panels Range 7

Magnefast™ 8

Magnepatch™ 15

Lightduty™ 16

Bolt-on™ 19

Custom Engineered Solutions 20

Case Studies 21

Company Overview

Elastotec is a recognised leader in pulley lagging and advanced wear protection solutions for mining and bulk materials handling industries. Built on decades of experience in materials engineering and site-based problem solving, the company has developed a reputation for delivering high-performance solutions that improve safety, extend wear life and reduce maintenance downtime.

At the core of Elastotec's innovation is its patented magnetic wear panel technology, Magnefast™, which has redefined how wear liners are installed, maintained and replaced. This unique system eliminates traditional mechanical fixings, significantly improving both safety and efficiency on site.

Beyond supplying industry-leading products, Elastotec is committed to sharing engineering knowledge with customers through technical support and Lunch & Learn training sessions. These practical workshops help engineers, maintenance teams and operations personnel better understand wear mechanisms, product selection and best-practice application, enabling more informed maintenance decisions and improved asset performance.



Head Office

61 Somersby Falls Rd,
Somersby NSW 2250, Australia

Adelaide Office

Servicing South Australia,
Western Australia and Tasmania

Vietnam Manufacturing Plant

Ho Chi Minh City

Elastotec is committed to the production and development of the highest quality, longest lasting pulley lagging and ceramic wear panels for the global mining industry.

2010

Elastotec is established.
Develops industry-leading ceramic-to-rubber bonding technology.

2012

Developed autoclave-vulcanised ceramic lagging.
Guaranteed ceramic and pulley adhesion.

2014

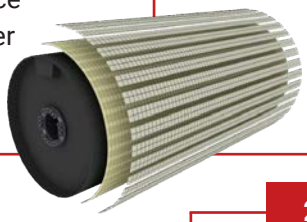
Introduced industry-first polyurethane lagging.
For cold bonded and hot vulcanised applications.

2015

Elastotec expands globally.
Expanded international partnerships, operations and R&D.

2016

Introduced Direct Bond Ceramic Lagging.
High performance with faster, easier installation.



2018

Manufacturing expands globally.
New Vietnam and Somersby facilities established.

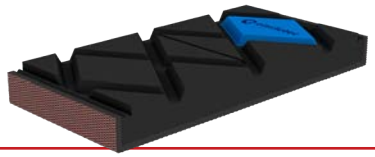
2019

Launched Magnefast™ Wear Panels.
Reduces liner wear and maintenance costs.



2021

Extreme Rubber Lagging developed. High wear resistance for heavy-duty pulleys.



2022

4 Pillars for Lagging Performance introduced.

Smart Pricing platform launched for easy quoting and stock checks.

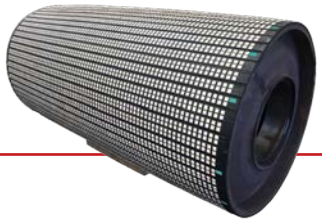
2024

Launched Lagging Select™ tool.
Supports correct lagging selection and improves performance.



2023

Crowned Lagging introduced.
Improves belt tracking.



2025

Developed the Wear Liner Cost Calculator
Enables data-driven wear and maintenance cost analysis.

2026

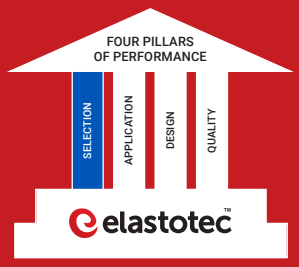
10,000+ Pulleys Lagged
Trusted by customers across mining and bulk materials handling.

Magnefast™ is Deployed to a Full Gold Wet Processing Plant
Demonstrating proven performance at scale.

Engineered Solutions from Design to Delivery

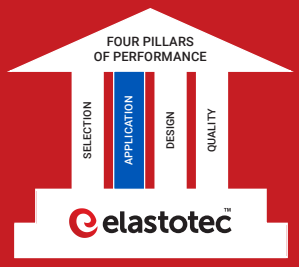
Elastotec delivers fully engineered wear protection solutions, combining material science expertise with practical, site-driven application knowledge. From initial assessment through to product supply and performance optimisation, every solution is tailored to maximise operational outcomes.

The company's approach is structured around its Four Pillar Process, ensuring consistent, high-quality results across all products.



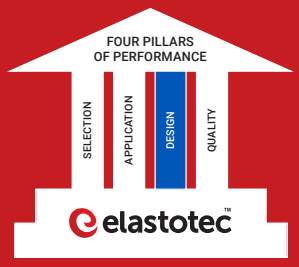
Selection

With so many options available, making sure you have the right solutions at the outset is crucial. We look at your systems, past performance, current conditions and various locations to see how the product is wearing.



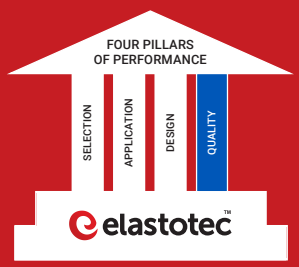
Application

Installing the wrong material or product is a common cause of failure, including higher wear, loss of panels and material hangup. Elastotec engineers each solution identifying and solving individual issues.



Design

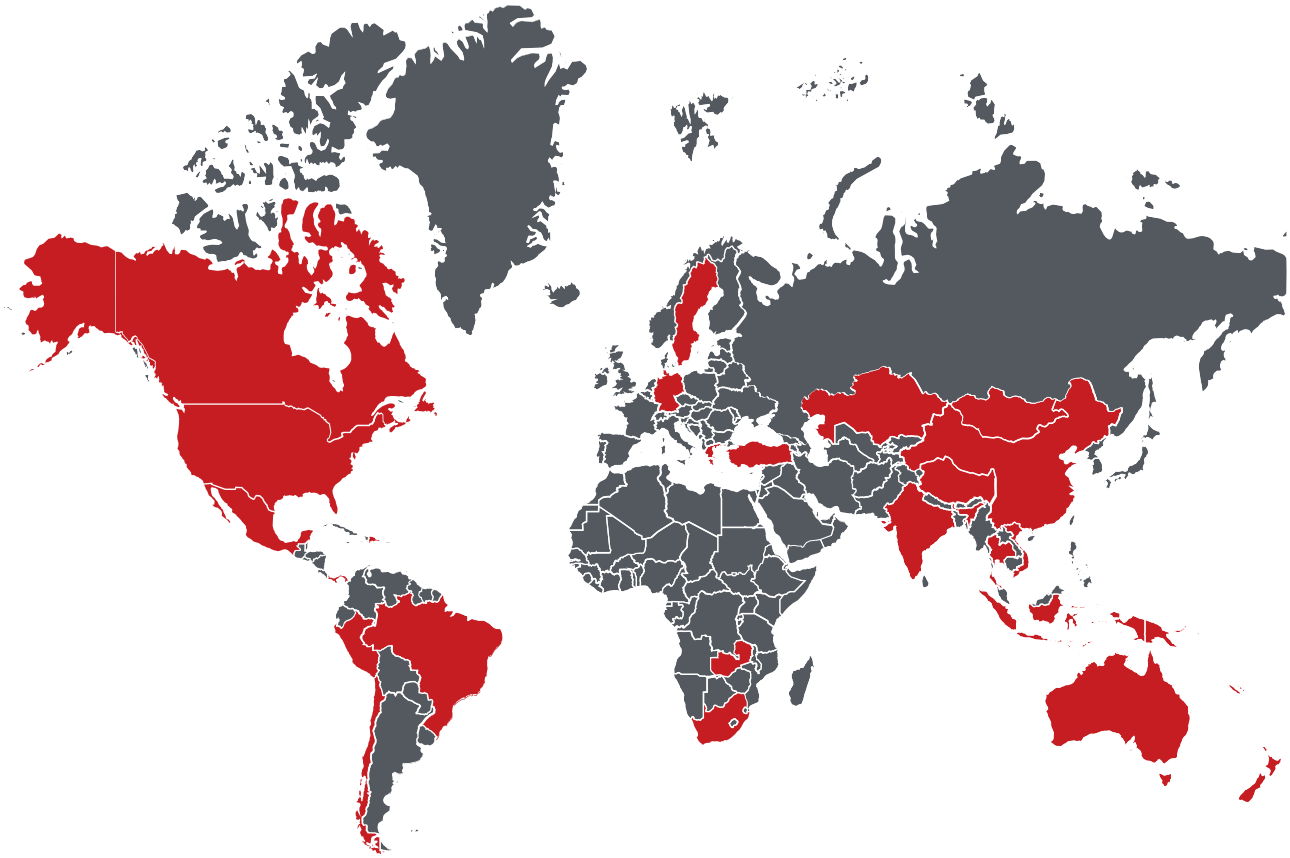
Elastotec is committed to ongoing research and development to ensure our pulley lagging and wear panel solutions meet the continued demands of mine site operations.



Quality

Independently audited systems that comply with ISO 9001:2008 ensure Elastotec products are manufactured to the highest quality.

Engineered to Perform - Anywhere in the World (From 110°c to -40°c)



Our Clients

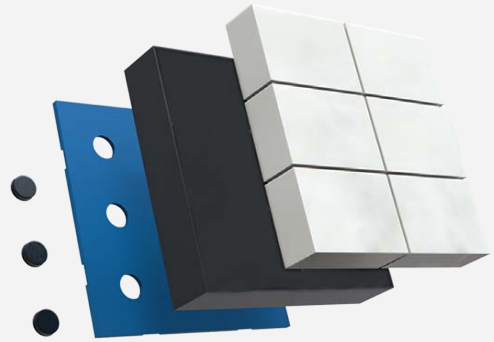
BHP
Fortescue
Evolution MINING
ENDEAVOUR MINING
FIRST QUANTUM MINERALS
Lycopodium
Continental
GLENCORE
PPI
Martin
HOLCIM
Freeport McMoRan Copper & Gold
MMG
thyssenkrupp
Newmont
NEWCREST MINING LIMITED
NEPEAN Conveyors
Metso:Outotec
PILBARA PORTS AUTHORITY
PROK
RioTinto
Teck
VALE

The Next Generation of Wear Panel Technology

Elastotec's Wear Panel range of solutions are engineered to deliver maximum durability, faster changeouts, and reduced downtime in high-wear mining environments.

Our flagship Magnefast™ system sets a new industry standard with its magnetic installation, improving safety and efficiency on site.

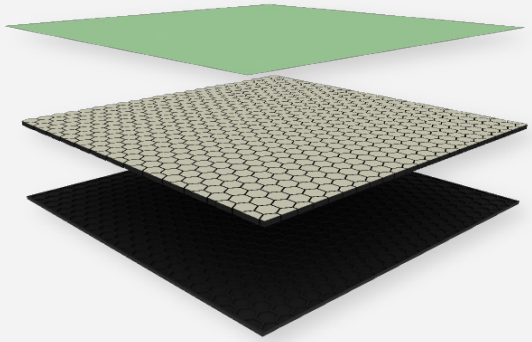
magnefast™



magnepatch™



lightduty™



bolt-on™



magnefast™

Existing wear solution problems such as bolted slow to install? Direct bond take up to 48 hours to cure? Installation that require tools, working on heights and hot works?

Elastotec's Magnefast™ is a breakthrough single-sided magnetic attachment system built for mining's toughest conditions.

By combining advanced ceramics, high-resilience elastomers and durable steel or thermoplastic backing plates, Magnefast™ Wear Panels are precision moulded for maximum strength and reliability. A 100% rubber tear bond locks the ceramic tiles in place so they stay secure, even under extreme impact and abrasion.

The result? Fast installation. Safer change-outs. Longer-lasting protection.

Magnefast™ Wear Panels are engineered to perform across a wide range of applications, delivering reliable protection and fast change-outs wherever material flow causes wear.

Ideal for:

- Chutes
- Launders
- Underpans
- Vibratory feeders
- Apron feeders
- Mobile surge loaders
- Deflectors
- Diverter Gates

Key Benefits:

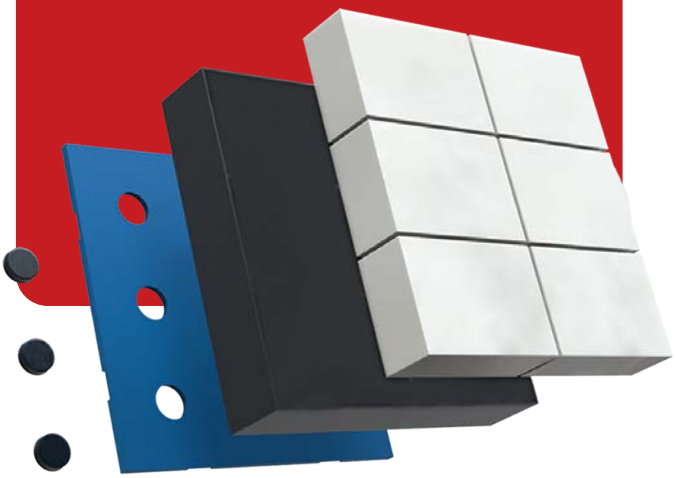
- Remove 1 SQM in as fast as 5 min
- Install 1 SQM in as fast as 2 min
- Rotate Panels to increase wear life
- No Build up
- No Gaps between panels
- Curved surfaces
- Wear surfaces for different applications
- No holes in steel walls
- No material leaks

Why Choose Magnefast™?

ROI that seems almost too good to be true

- **200%** Increase in Service Life
- Up To **80%** Less Labour Time
- Up To **80%** Less Shutdown Time
- Up To **80%** Less OH&S Risk

No hotwork, simple tools only

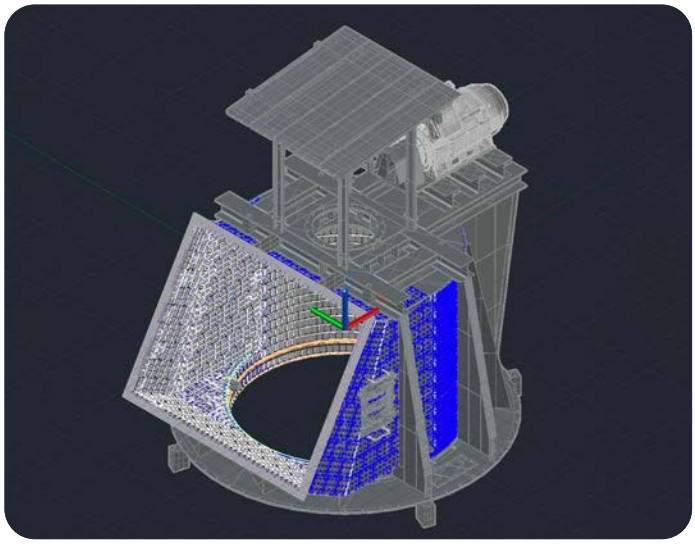




magnefast™

Designed for Demanding Environments

Magnefast™ has been engineered to perform in the most demanding mining and bulk handling applications, where abrasion, impact and material build-up present ongoing challenges.



Complex Shapes and Curved Surfaces

Magnefast™ can be applied to curved surfaces (>2m diameter) and other geometric shapes, its designed to enable feed holes and pipes to suit the job at hand.



Swing Walls / Deflectors

In applications such as swing walls and deflectors where impact is high, Magnefast enables rapid change out in position, getting operations back on line in a couple hours, not days.

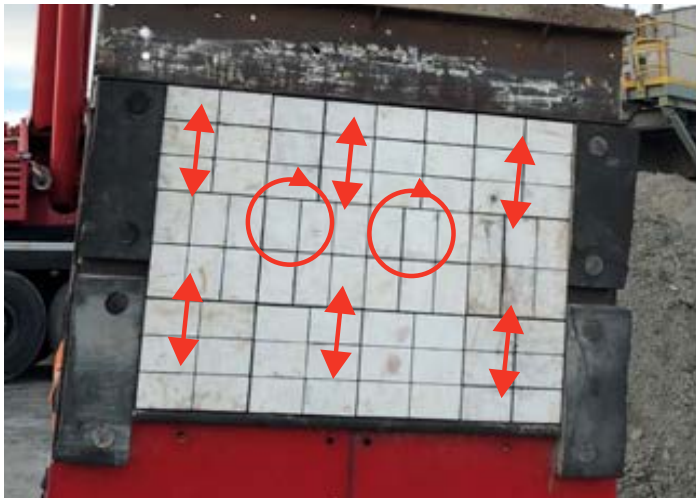


Maximise Wear Life

- Rotate panels by 180°
- Swap panels from high wear areas quickly & easily

Rotateable Wear Panels

Rotatable wear panels are a game changer for wear life maintenance. Magnefast enables sites the ability to rotate a wear panel 90’ which can extend a standard wear panels wear life by 300%. The Magnefast advantage also enables high wear panels to be swapped out with low wear zones, extending the systems replacement life, delivering the highest lifetime value for site installations.



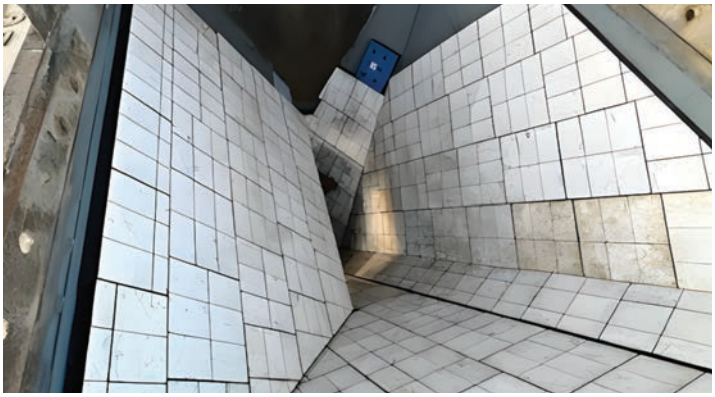
Apron Feeders

Apron feeders are high torque applications for wear liners, with Magnefast™ stepping up to the challenge. The ability for fast change out is why this 24/7 operations selected Magnefast™.



Transfer Chutes

Transfer chutes are subjected to constant impact and abrasion, making them one of the highest wear areas in a bulk materials handling system. Elastotec's engineered wear panel solutions extend service life, improve material flow and simplify maintenance to maximise plant availability.



Wet Processing: Slurry Boxes, Launders & Wet Chutes

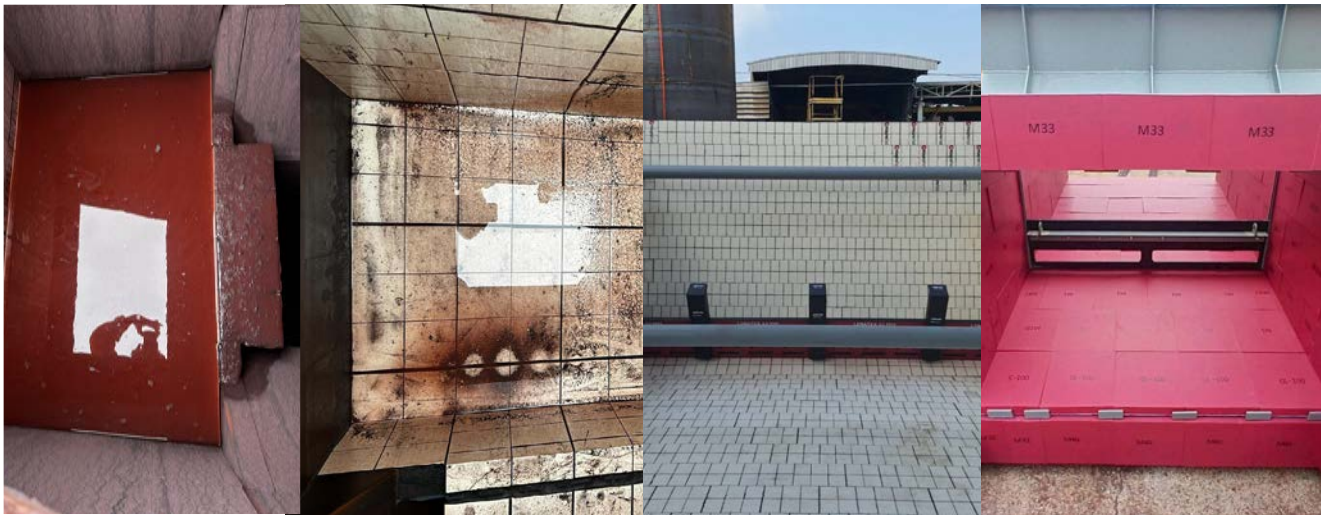
Traditional studded wear liners in wet plant create persistent problems. Designs need mounting holes, rubber lining, sealing washers and studs. Leakage around the stud holes causes ongoing cleanup and corrosion of adjacent equipment.



Magnefast™ removes these issues entirely. New wet plant can be designed without mounting holes or rubber lining.

- No holes in the steel wall
- No sealing washers
- No rubber lining
- No leaks

Using Magnefast means wet processing plants can be maintain a fully sealed system, with worn sections repaired in hours, avoiding costly shutdowns due to rubber lining curing times.



Diverter Gates

Diverter Gates often have no access to the back surface making studded panels impossible or have poor access due to rams. This makes Magnefast™ the perfect product for single sided application, utilising magnets to stick and go.







Engineering Solutions. Proven in the Field.



Scan the QR code for more information on our full range of wear panel products.

magnefast™

Design and Installation

Magnefast works in both Greenfield and Brownfield applications, with the Elastotec team able to support investigations in problems areas and developing customized solutions to fit each application. This can be to remove material build up, increase wear life, increase maintenance intervals, and decrease maintenance costs. Elastotec works with its partners to develop full service solutions that are engineered to perform.

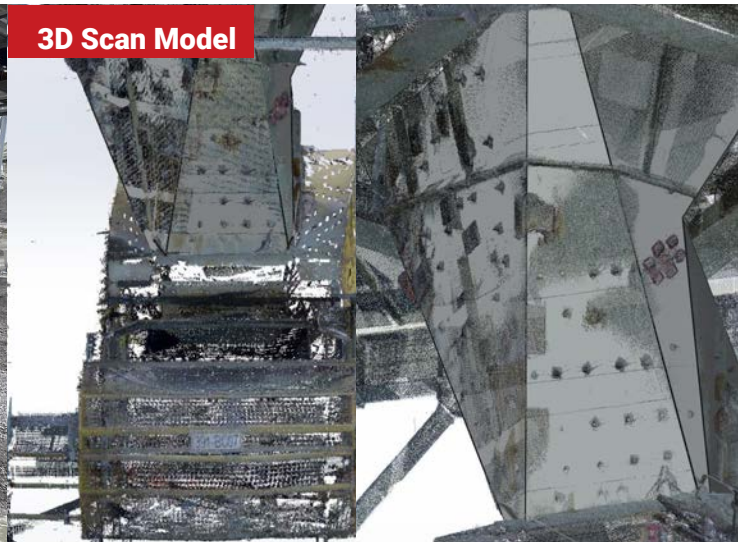
Site Assessment & Investigation



Laser Scan

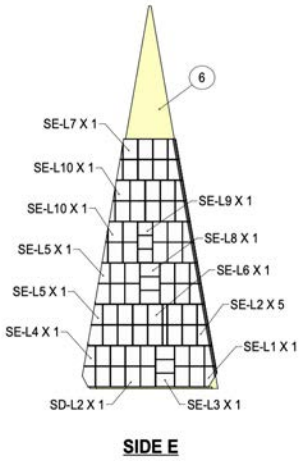


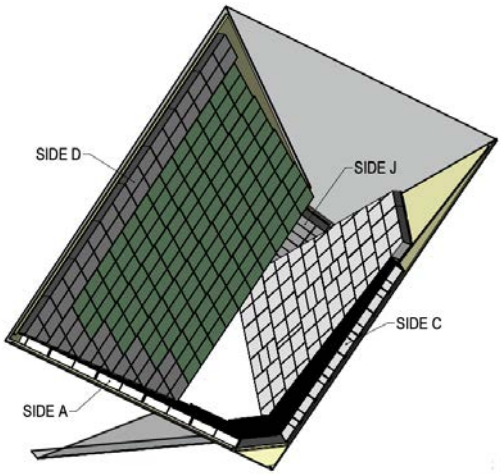
3D Scan Model

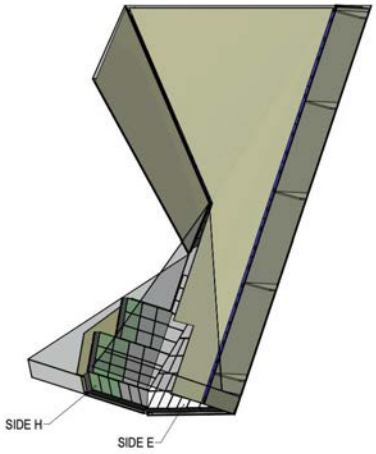


Design improvements & Wear Panel Map

Elastotec can map Magenfast wear panels for chutes free of cost saving time and money for engineering firms and sites.













Lunch & Learn Engineering Sessions Available.

Practical, application-focused training for engineering, maintenance and reliability teams to improve wear liner selection, wear management and asset performance.

Wear Liner Cost Calculator

Calculate the True Cost of Your Wear Liner System

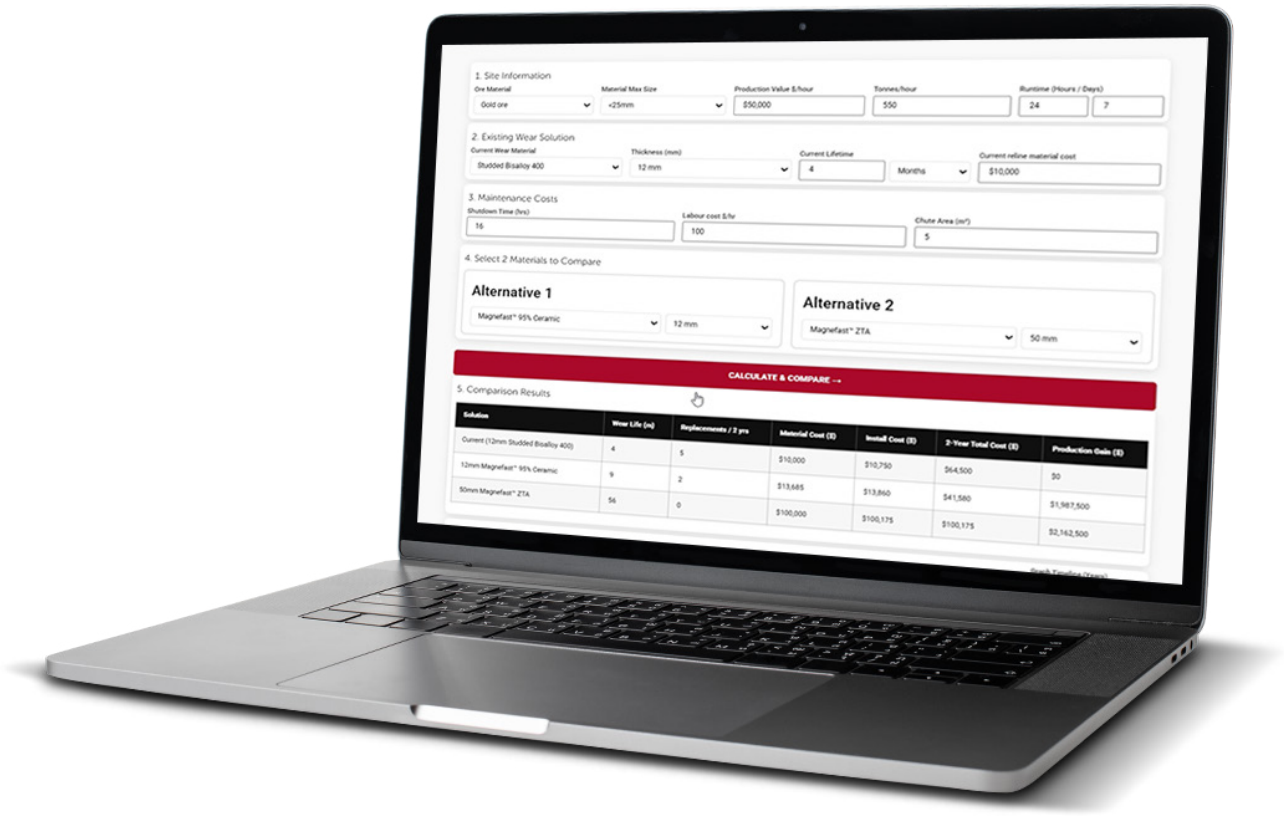
Elastotec's Wear Liner Cost Calculator is an engineering tool that helps operations compare wear liner solutions based on total cost of ownership, not just upfront purchase price.

Customised to your application, the calculator compares your current wear liner system against alternative materials and attachment methods, providing independent lifecycle cost analysis to support informed maintenance and procurement decisions.

Key Features

- Compare your existing liner against up to two alternatives
- Assess Direct Bond, Studded and Magnefast™ attachment methods
- Analyse steels, carbides and ceramic wear materials
- Estimate replacement frequency, maintenance & shutdown costs and ROI
- Generate a customised lifecycle cost report
- Independent analysis focused on the best financial outcome

Helping customers identify real value with data-driven engineering insights.



magnepatch™

Elastotec's Magnepatch™ is a fast, durable patch solution for worn chutes and equipment.

Designed to quickly seal holes in steel chute walls caused by abrasive wear, its strong embedded magnets hold firmly in place even while the system is running providing a reliable temporary fix until full repairs can be made.

Magnepatch™ Repair Panels are designed to deliver a strong temporary seal wherever steel surfaces develop holes from erosion.

Ideal for use in:

- Chutes
- Hoppers
- Transfer Points



Magnetic hold > 200 kg

Strong attachment for quick installation and reliable retention under impact and vibration.

Quick, tool-free install

No adhesives or welding required; mount the patch and resume operations.

Abrasion-resistant rubber and ceramic surfaces

Durable rubber protects against further wear around the repair.

Easy removal design

Recessed edges allow a pry bar to lift the patch when the job is done.

High visibility finish

Bright red outer layer ensures the repair is easily spotted for monitoring or inspection.

Ergonomic carrying handle

Molded handle simplifies transport and placement, improving safety and speed.

lightduty™

Elastotec's Light Duty Wear Panels are manufactured in a wide range of panel sizes and tile configurations, with Cold Bonded, Direct Bond and Hot Vulcanised bonding options to suit diverse wear applications and site requirements.

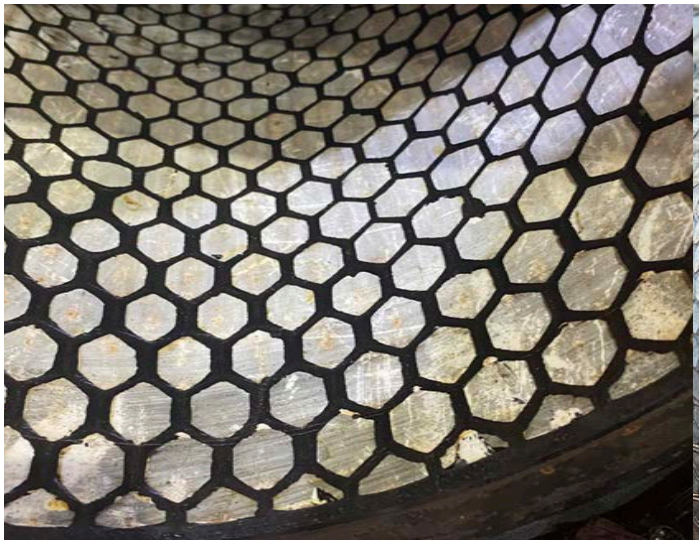
Hot Vulcanised Wear Panels

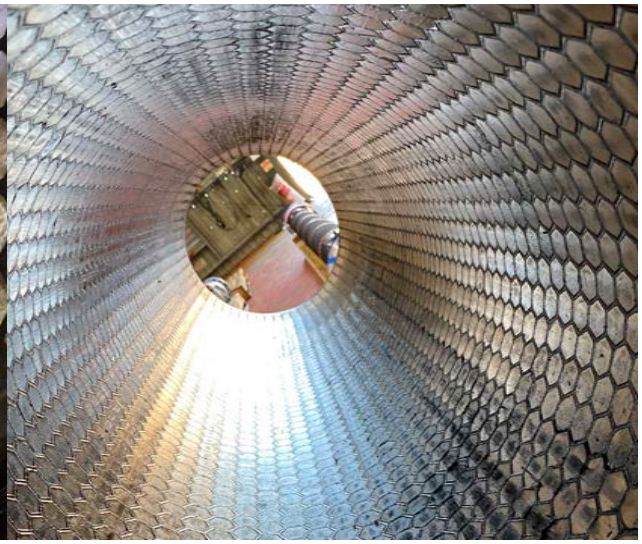
Elastotec Hot Vulcanised Wear Panels are engineered for maximum wear life in high-abrasion applications. Manufactured using a controlled hot vulcanisation process, ceramic tiles are permanently bonded to the structure or pipe creating a 100% rubber tear bond.

Ideal For:

- High-impact transfer chutes
- Cyclones
- Launders
- Pipes and tanks
- Conveyor transfer points
- Vibratory feeders
- Screen beams and underpans

- Superior ceramic-to-rubber bond strength.
- Excellent resistance to tile pull-out and cracking.
- High abrasion resistance for extended service life.
- Factory-manufactured for consistent quality.





Cold Vulcanised Wear Panels

Elastotec Cold Vulcanised Wear Panels provide a practical wear protection solution where on-site installation or maintenance is required. Designed with a CN bonding layer for reliable adhesion, they combine high-quality ceramic wear surfaces with simplified installation for maintenance and refurbishment projects.

Ideal For:

- Chute relines
- Cyclones
- Launders
- Pipework
- Conveyor transfer points
- Screen components
- Plant maintenance shutdowns

- Ideal for on-site installation and repairs.
- High abrasion-resistant ceramic protection.
- Strong adhesion to rubber and steel.
- Stable rubber properties for long-term performance.
- Available in NAT and FRAS for underground applications.
- Easy-to-handle panel sizes for faster installation.



Direct Bond Ceramic System

The Elastotec Direct Bond Ceramic System is a high-strength ceramic-to-steel bonding solution developed for severe wear applications where rubber-backed liners are not required. Combining a specialist metal primer with a two-part epoxy adhesive, the system delivers exceptional bond strength and long-term performance across a wide range of fixed plant equipment.

Ideal For:

- Transfer chutes
- Fans
- Hoppers
- Pipes
- Cyclones
- Process equipment
- General steel surfaces requiring ceramic wear protection

- High-strength ceramic-to-steel bond.
- Proven outdoor durability.
- Corrosion-resistant primer system.
- Suitable for complex geometries.
- Consistent application through approved procedures. Supported by Elastotec-trained applicators.



bolt-on™

Elastotec's Bolt On Wear Panels deliver proven wear and impact resistance in the harshest operating environments.

Designed for mining and bulk material handling applications, these panels combine high-performance ceramic tiles with a resilient rubber layer and a robust backing plate.

The result is a durable, precision-engineered liner that provides superior protection against abrasion, impact, and corrosion.

Available in a range of ceramic grades including:

- Aluminium Oxide (92% and 95%)
- Zirconia Toughened Alumina (ZTA)
- Silicon Carbide (SiC)

Bolt-On Wear Panels can be customised to meet specific application, performance and budget requirements, with backing plates available in mild steel.

Each panel is precision moulded to achieve a 100% rubber tear bond, ensuring the ceramic tiles remain securely fixed even under extreme conditions.



Secure Bolt-On System

Strong studded attachment and reliable retention under heavy impact and vibration.

High-Performance Ceramics

Choose from Al_2O_3, ZTA, or SiC for the right balance of wear resistance and toughness.

100% Rubber Tear Bond

Precision moulded panels ensure tiles stay firmly in place, even in extreme conditions.

Custom Shapes & Sizes

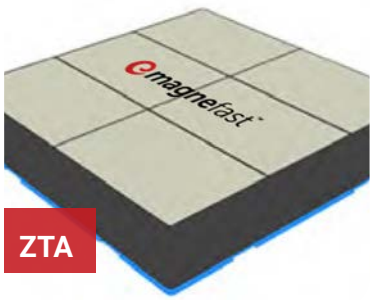
Cut to fit any profile, chute, or transfer point — available in both imperial and metric dimensions.

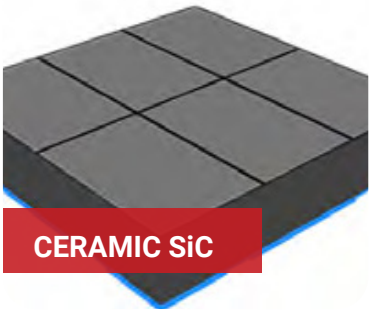
Proven Elastomer Technology

High-strength, high-resilience rubber delivers lasting impact absorption and wear protection.

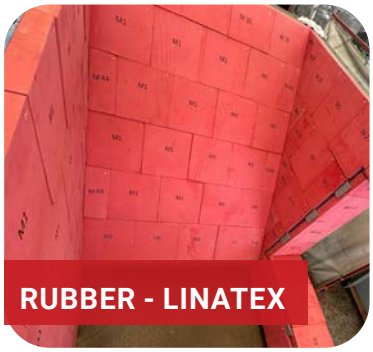
Custom Engineered Solutions

















Scan the QR code for more information on our full range of wear panel products.

Case Studies



Ravenswood

Problem
Cold-bonded rubber lining failed repeatedly in the 24/7 gold leach hoppers, causing steel breakthroughs and forcing temporary welded patches; the planned shutdown window was too short for a full conventional reline.

Solution
Magnefast™ ceramic liners installed via rapid mechanical fixing (no curing time), including steel re-skin and primer, completed within the four-day shutdown.

Outcome
Finished a full day early, plant back online ahead of schedule, crews satisfied with the ease of install, and long-term wear reliability significantly improved.

Iron Ore Export Port

Problem
30-year-old lower transfer chute at an iron ore export port required constant temporary epoxy ceramic patch repairs every 14-week (5-day) shutdown because the original Ni-Hard liners could not be fully replaced in the available time.

Solution
New mild steel chute body and skirt fitted with Magnefast™ 95% alumina ceramic liners, chosen for rapid magnetic installation, easy panel rotation/swap, and projected >500% longer life.

Outcome
After 6 Mt throughput, only 3–4 mm wear in the highest zones. Projected 78-week life in critical areas (600% improvement) and maintenance-free operation across six shutdown cycles, with future panel changes under one hour.



Case Studies



Mount Marion

Problem
Screen underpan chutes at a lithium mine needed liner changes every 13 weeks, with frequent hang-up, washdowns, hot work and scaffolding inside tight 48-hour shutdowns.

Solution
Magnefast™ ZTA (and later SiC) ceramic liners installed on a new steel skin using magnetic fixing — no studs, welding or scaffolding.

Outcome
Liner life extended to >104 weeks (>8×), 80% faster changeouts, hang-up and washdowns eliminated, and rollout expanded to all four underpans.

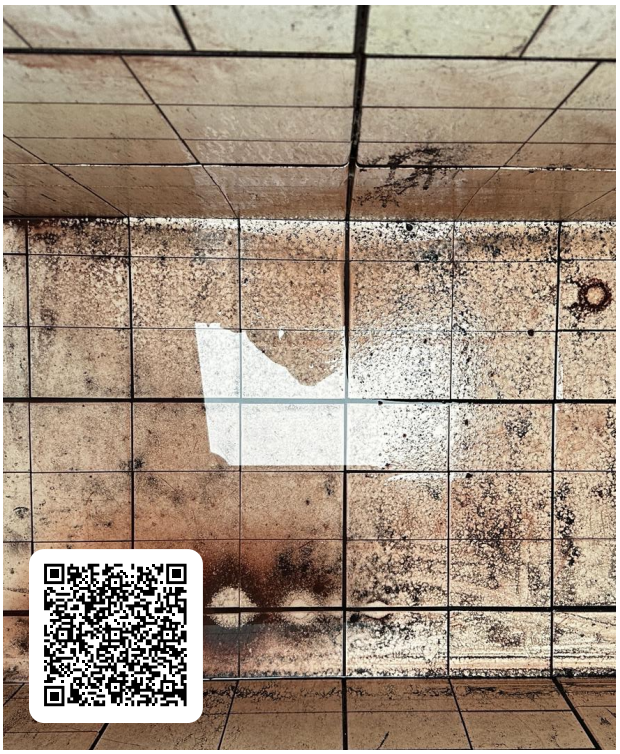
MMG Rosebery

Problem
A high-impact transfer chute was experiencing rapid wear, with white iron liners requiring frequent replacement, lengthy shutdowns and scaffolding for changeouts.

Solution
Elastotec replaced the studded white iron liners with Magnefast™ Ceramic Wear Panels, enabling faster maintenance while targeting longer liner life and reduced OH&S risk.

Outcome
Magnefast™ delivered a projected 300% increase in liner service life and 80% reduction in shutdown time, with panels able to be rotated rather than replaced to further reduce material and labour costs.





Olympic Dam

Problem
A high-velocity underflow transfer chute was experiencing severe wear, with existing white iron liners lasting only 10 weeks and contributing to forced shutdowns and intensive maintenance.

Solution
Elastotec replaced the studded white iron liners with Magnefast™ Zirconia Toughened Alumina Ceramic Wear Panels, targeting longer wear life, faster changeouts and reduced maintenance labour.

Outcome
Magnefast™ delivered a 500%+ increase in service life, with projected life of at least 12 months, while reducing both shutdown time and labour requirements by 80%.

BHP Whaleback

Problem
Sticky iron ore was building up on three screen chute underpans, creating severe bottlenecks, spillage, uneven wear and increased maintenance.

Solution
Elastotec Magnefast™ Wear Panels were installed to eliminate material hang-up and provide a reliable, low-maintenance lining solution.

Outcome
Material build-up was eliminated, creating a “set and forget” solution that improved feed flow, productivity and conveyor reliability while significantly reducing maintenance and downtime.



Case Studies



Holcim Quarry

Problem
A train load-out deflector required frequent relining, with existing rubber panels lasting only 10 months and changeouts taking over 12 hours with crane hire.

Solution
Elastotec installed Magnefast™ Wear Panels, enabling faster in-situ replacement and panel rotation while eliminating the need for crane hire.

Outcome
Service life increased by up to 600% to 60 months, while liner replacement time fell by 75% from 12 to 3 hours and crane hire was completely eliminated.

Cape Lambert

Problem
A 24/7 iron ore export operation struggled to maintain over 20 chutes within five-day planned shuts, with traditional bonded ceramic liners taking 12+ hours to install or repair and requiring frequent labour-intensive maintenance.

Solution
Elastotec Magnefast™ Ceramic Wear Panels, including ZTA panels in high-impact zones, were installed using a customised liner layout, reducing installation time to less than one hour.

Outcome
After the initial 14-week trial, the panels showed no visible wear or movement, with projected service life of up to 8 years, significantly reducing shutdown time, labour and ongoing maintenance.





Port Hedland

Problem
A 24/7 Port Hedland operation was experiencing frequent shutdowns, with studded steel wear liners lasting only 10 months and requiring 35 hours to replace.

Solution
Elastotec replaced the studded steel liners with Magnefast™ Ceramic Wear Panels, supplied as numbered, ready-to-install kits to simplify and accelerate chute relining.

Outcome
Magnefast™ delivered a 500% increase in liner service life and an 80% reduction in shutdown time, cutting liner changeouts from 35 hours to just 7 hours.

Lithium Mine

Problem
Highly abrasive lithium ore caused material build-up, reduced throughput and rapid wear, with traditional Ni-Hard liners requiring replacement every 14-week shutdown through labour-intensive changeouts.

Solution
The site progressively upgraded its screen underpans with Magnefast™ ceramic liners, using application-specific Al_2O_3, ZTA and SiC ceramics to target different wear zones while allowing the upgrades to be funded through existing OPEX budgets.

Outcome
Magnefast™ is delivering up to 8x longer wear life and approximately 80% faster liner changeouts, while reducing material build-up, labour requirements and lifecycle maintenance costs.



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