

MAKURI

TECHNOLOGY

CORPORATE OVERVIEW

EDITION 3
Sep 2025

A Message from the CEO

For all owners, operators, and maintainers of highly demanding mining plant & equipment assets. This is an introduction to Makuri Technology and the technology we have developed and some of the very special people who make it all happen

We believe that the mining industry has a real need for high-performance wear parts that can both significantly reduce Total Cost of Ownership (TCO) but also

increase mining sustainability and that's what we care about

We look forward to partnering with you to deliver safe, sustainable and measurable reductions in the TCO of your assets to ensure the sustainability of our industry.

Ian J. Wilson
Founder & CEO



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Let's partner to unlock the value of your assets and create more sustainable mining.

Why Us

What We Do

We design, manufacture, and supply high-performance wear liners and parts for heavy-duty mining and process applications to the highest standards of safety and quality that provide significant benefits in both reduction of total costs and operational risks.

We Guarantee our Work

A range of Guarantees are provided to ensure that not only are our products best in class, but also that maximum value is obtained which can be proven and measured by reductions in operating cost/tonne or /hour, or on a Total Cost of Ownership (TCO) basis. – see our MAK-Sure 3 Level Guarantee section.

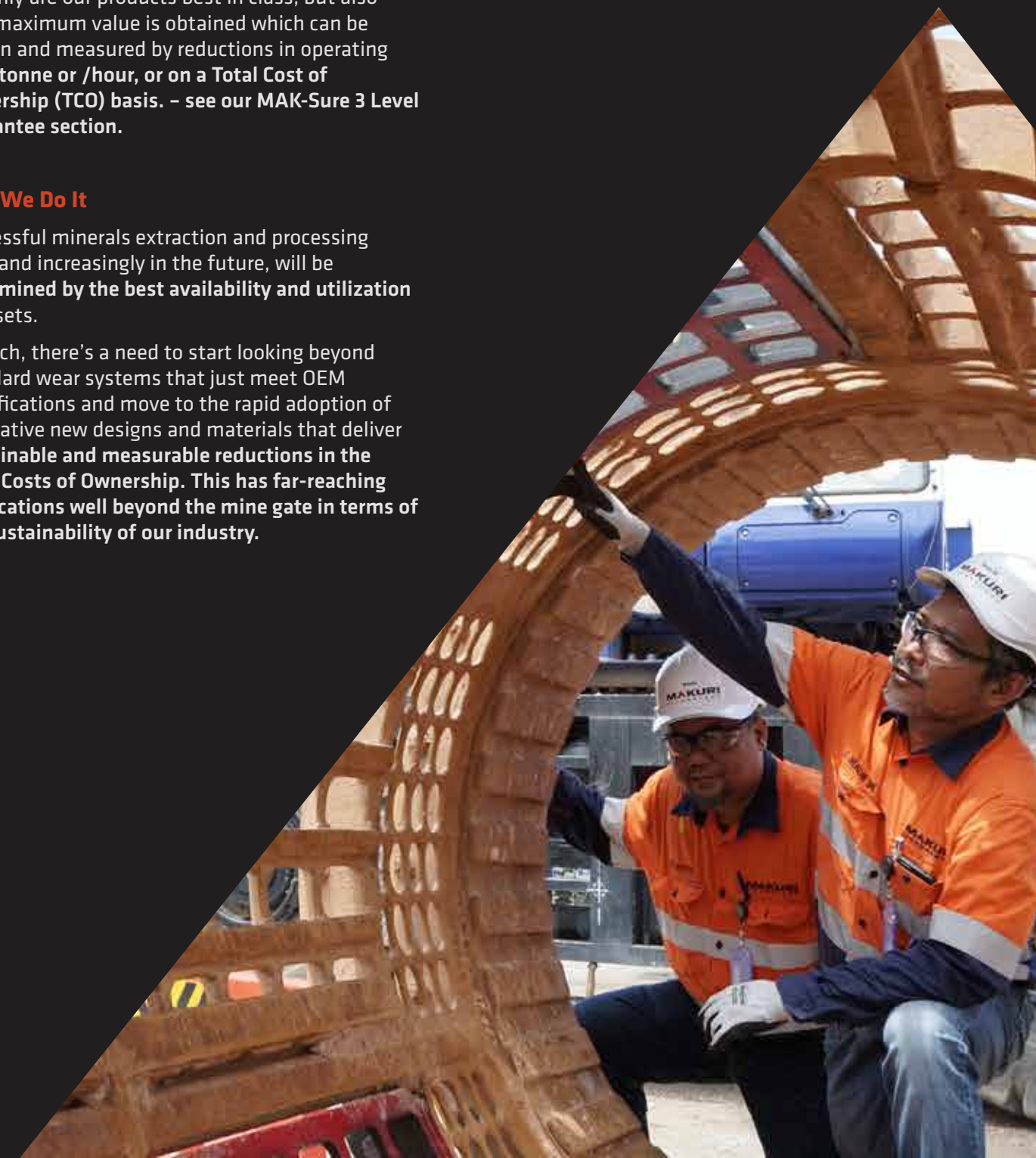
How We Do It

Successful minerals extraction and processing now, and increasingly in the future, will be determined by the best availability and utilization of assets.

As such, there's a need to start looking beyond standard wear systems that just meet OEM specifications and move to the rapid adoption of innovative new designs and materials that deliver sustainable and measurable reductions in the Total Costs of Ownership. This has far-reaching implications well beyond the mine gate in terms of the sustainability of our industry.

Supply Chain

We have several very carefully diversified supply chains along with our specialized subsidiary and affiliate companies. This allows us to provide the proper management and systems to ensure that engineering, manufacturing, and procurement is done to the highest levels that meet or exceed international standards.



About Us

Our Team

We pride ourselves with having the best team in the game for doing the challenging and innovative work that is required to offer the guaranteed results that we do.



Ian J. Wilson
Founder & CEO

Having worked in the management and maintenance of earthmoving and both mobile and fixed mining equipment for over 40 years, from both the end-user and suppliers' positions, at some of the largest and most remote mining locations in the world, has given me a unique insight into both the difficulties and needs of the industry. I formed these group of companies and sought out the best people I could find to deliver something that was needed now more than ever in terms of making our industry more sustainable by realizing the full value of installed assets often in areas where others have chosen to ignore or don't have the expertise to deliver on. That is what we do and we do



Brett Holmes
**GM Australia Operations
Technical Director**

Brett has a very strong engineering and design background and is an internationally known and respected subject matter expert in the optimization of process plant front end assets and especially crusher liner cavity profile optimization to deliver maximum equipment performance and lowest



Desy Windanarni
Director & Chief Administrative Officer

Desy has a very strong management and administrative background and worked on a large remote mine site for nearly 10 years as the administration manager for a large strategic supplier



Malcolm Sligo
Special Account Manager

Malcolm has a very strong foundry and mining maintenance background and also another internationally known and highly regarded subject matter expert on process plant front end liner and materials applications.



Nugraha Pamungkas
**Manager
International Business Development**

Nugraha (Nug) is an engineer with over 25 years of extensive process plant maintenance experience. He has worked at the most preeminent copper and gold mines in Indonesia, Mongolia and Kazakhstan. He is well known and highly regarded for his energy and getting things done. He is highly customer focused and the man to work with on your process plant front end issues.



Dianto
Key Account Manager & QC Inspector

Dianto has over 20 years of heavy fabrication experience, including the last 10 years making fixed and mobile mining equipment. He brings extensive engineering, CAD design, planning and fabrication quality control expertise to the group



Viba Laban
Commercial & Logistic Specialist

Viba Laban is our global logistics coordinator and is based in our Denpasar office. She has worked at large mine sites for international freight and logistics operations. She knows what it means and takes to get the goods there on time.



Idrus
Commercial Supervisor

Idrus has been in the purchasing & commercial field for over 5 years and highly experienced in optimizing procurement processes



Made Wiryadana
**Manager
Indonesia Business Development**

Made has extensive onsite mining application experience across Indonesia for over 20 years. He specialize in the front end



Robby Zieda Hilmi
Engineering Manager

Robby is based in Indonesia and has elevated skills set with FEA and all CAD engineering applications and has extensive design experience with chutes and liners of all types



Khurram Hamid
R&D Manager

Khurram Hamid heads the R&D Centre in Singapore, leading innovation in robotics, wear measurement systems, and 'Smart' tooling for the mining and manufacturing industries.

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At The Makuri Group,
we pride ourselves
with having the
best team!

Our Standards

Makuri Technology has published Occupational Health, Safety, Environmental and Quality Management policies.

We understand the challenging and difficult nature of our working environments and commit in all ways possible, both large and small, to minimize the negative impact our business and personnel have on the environment.

We are also committed to ensuring the quality of goods and services we provide meet the highest possible standards and prove to be the lowest total cost of ownership for our customers when specified and used correctly.

Finally, we believe that a profitable, safe, healthy and environmentally responsible operation can have a leading and positive impact on all our

Our Practice

We at Makuri Technology feel that with our combined expertise in our core business areas that we can give back to the mining industry in the form of better business practices and understanding of industry issues. This is done via our handbooks which are open to the industry as a knowledge base resource to be managed by us via Blogs, updates, and free downloads.



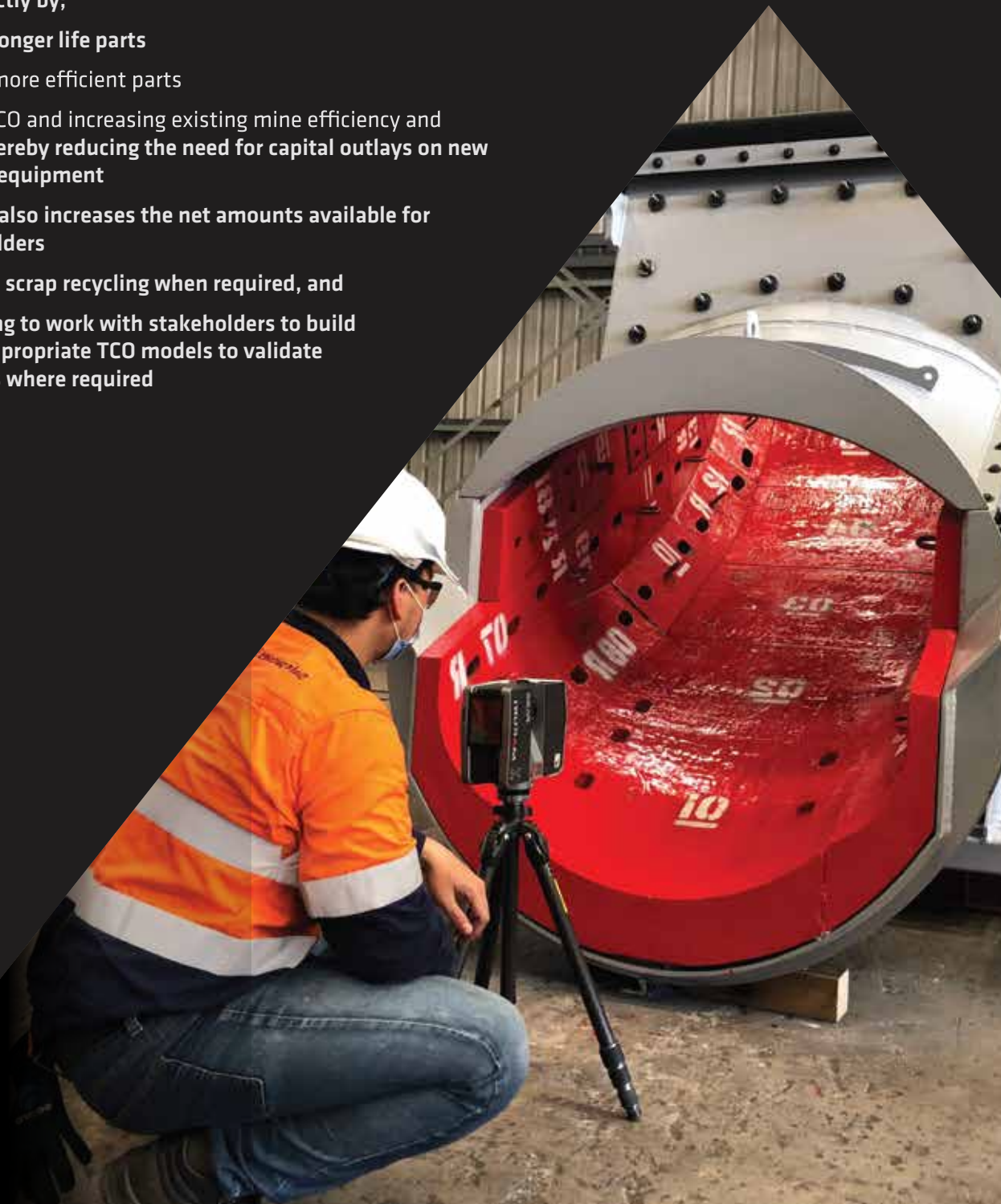
Our Sustainability

As a supplier to the mining and quarry sector, it is in our best interest to ensure the viability and sustainability of the industries that not only supply our sustenance but that of the global community too, for all that can't be grown must be mined in some way.

We take a holistic approach to reducing metal usage and associated carbon footprint by not only creating more efficient products with associated benefits, but we also work with end-users to create the appropriate Total Cost of Ownership (TCO) asset models. This allows for the real costs associated with any process to not only be understood but acted on most effectively too.

We assist directly by;

- Designing longer life parts
- Designing more efficient parts
- Lowering TCO and increasing existing mine efficiency and viability thereby reducing the need for capital outlays on new mines and equipment
- Lower TCO also increases the net amounts available for all stakeholders
- Facilitating scrap recycling when required, and
- Being willing to work with stakeholders to build new and appropriate TCO models to validate the savings where required



Our Integrity

Makuri Technology aligns to the OECD guidelines on business integrity to build an environment of trust, transparency, and accountability for all stakeholders, in particular;

- We pride ourselves on being a transparent, open and accountable group of companies that win and retain business by demonstrating the value of the goods and services that we provide in an ethical manner
- We do not exploit weaknesses in the regulatory environments in which we may be supplying goods and services
- We comply with the laws and regulations applicable to all jurisdictions in which we are domiciled
- We conduct due diligence and risk assessment/risk mitigation, audit, and internal investigations as applicable

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We build an environment of trust, transparency, and accountability for all stakeholders...

Our Areas of Expertise

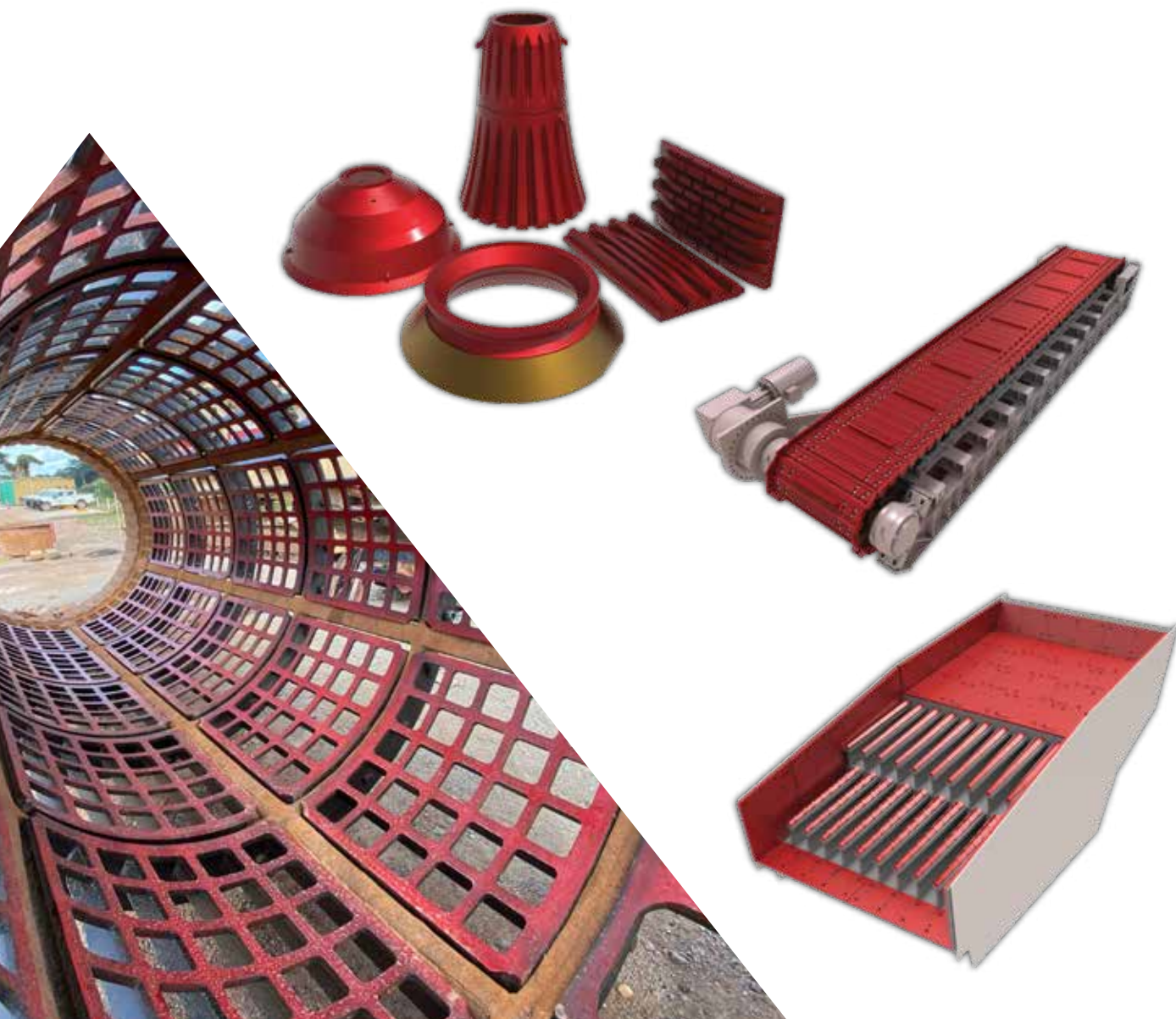
Front End of Hard Rock Process Plant

Keeping a process plant running reliably not only requires proper process controls, but also the right wear parts in the right areas. Makuri looks at the whole process, not just individual wear liners, to ensure proper compatibility between different areas with service intervals designed to maximise production.

We specialize in the supply of custom wear liner systems and selected parts for the largely forgotten, but critical, front end of the process plant. We typically deliver increased life and throughput for the front end of the plant with an associated reduction in risk.

Scope of Supply - Dump Pocket to Sag Mill Feed Chute

- Crusher Liners with optimization programs to deliver best life, sizing and tph
- Reclaim & Transfer Chute Liners
- Apron Feeder Pans
- Static and vibrating grizzly cap
- SAG & Ball Mill Feed Chute Liners
- HSI Blow Bars & Impact Plates
- Tower Mill Shoes & Flights
- Major Crusher Parts



Design & Fabrication

- We have extensive experience in the design and manufacture of wear-related products to optimise process plant front-end applications
- Our wear liners come with a wide selection of double and single-sided mounting options
- Our liners can be made to take our patented manual and semi-automated assisted lifting devices



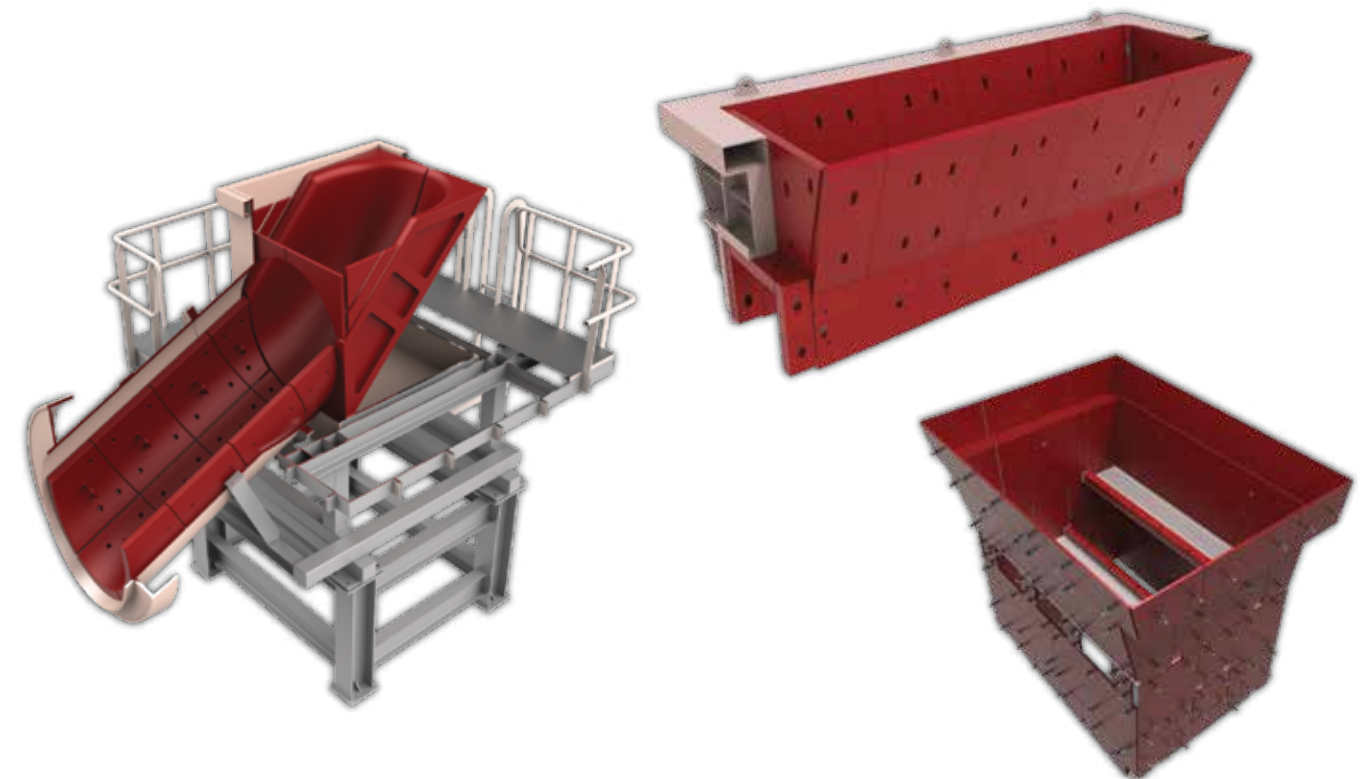
MAK-Materials

We specialise in the use of the best and most appropriate materials to deliver outstanding results under the most arduous of conditions.

All materials are fully developed and field-tested in the most extreme hard rock mining applications and have been proven to be most cost-effective in delivering the lowest Total Cost of Ownership.

New materials are also regularly being developed and assessed using independent laboratories and testing institutions. We then typically first offer such new technology to known “early adopter” end users. Such field testing and trialling can also be done in conjunction with our Partner Agreements.

See our website under MAK-Materials for details of the comprehensive range of materials available to suit your unique applications.



Our Capabilities

- We can supply fully engineered & guaranteed wear liners to improve performance & reduce cost
- We can work with you to optimize the performance of front end process plant
- Guaranteed fit, form, function and free of faulty workmanship and materials
- Full in house design capabilities making customer specific solution.
- Guaranteed lowest cost per tonne per operating hours, and lowest total cost of ownership (TCO)

Technical & Professional Support Services

- Full laser scanning capabilities with field scanning with our equipment
- 3D Laser scanning capabilities for reverse engineering, wear monitoring, plant “as built” drawings and clash detections for new plant additions can be supplied inclusive with supply agreements
- Provide support levels as agreed to meet your needs across all areas of major supply with a dedicated coordinating or account manager
- Complete site audits, inspections and reporting on all supply items especially parts and liner performance
- Design custom liners and parts to meet site specific targets for life, weight and cost per tonne
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Commercial Capabilities

- Provide best pricing and/or lower cost per tonne, with guarantees, in all the areas detailed in the Scope of Supply
- Offer consignment inventory and JIT for major costs items
- Reverse engineer critical items not covered under the existing scope of supply as mutually agreed
- Continuous improvement program, with performance incentives for both parties, to further reduce cost/tonne with any items as mutually agreed

“**Makuri means
Quality and Innovation**”

Our Guarantee

We supply wear liners and parts (Products) under a comprehensive 3-level guarantee system.



Level 1 – 5F Guarantee

This is a, best in class, 5F industrial standard covering all Products and guarantees the Fit, Form, Function of such items and that they are also free of defects in Faulty Workmanship & Faulty Materials. Products that fail to meet this guarantee are fully replaced or fully credited.



Level 2 – LC Guarantee

Products that fail or wear out in service that do **not meet the mutually agreed Lowest Cost / tonne or Lowest Cost / operating hour targets**, after a minimum of 3 design iterations, will be credited on a pro-rata basis.



Level 3 – TCO Guarantee

Products that cannot be demonstrated, after a minimum 3 design iterations, using all mutually agreed inputs, to be the Lowest Total Cost of Ownership, will be credited on a pro-rata basis.



Our Research & Development

Makuri Technology is constantly innovating through the testing and use of new designs and materials that will deliver ever-increasing value to mining customers.

No other mining wear-systems company spends the amount of time or money in ratio to sales on R&D than we do.

Our materials and composites have been specifically developed by us and are proven to deliver the lowest TCO in their area of use and many are also covered under patent protection.

Our D&I process is based on;

- **Making customer-specific solutions to customer-specific problems,**
- **Having a complete In-house design capability utilizing experienced mechanical, process and reliability engineers, and**
- **Completing a rigorous design review process to ensure successful implementation of new concepts**
- **Field testing under the most arduous of conditions with participating partners**

Our Partner Program

We seek out the “innovators and early adopters” who want early access to new R&D possibilities in the areas of mine or process operations that match our core business competencies. Contact us to determine if this fit is right for you?

Makuri Technology is constantly innovating through the testing and use of new designs and materials...

TCO Explained

What is the real cost in using a high carbon footprint consumable wear product, it's not as simple as the invoice price. The invoice price may well be less than 20% of the true cost and in some cases that have been fully explored, it's been proven to be less than 5%.

As an industry that needs to improve its sustainability knowing the full costs and impact on all stakeholders of high carbon footprint consumable products is now a necessity.

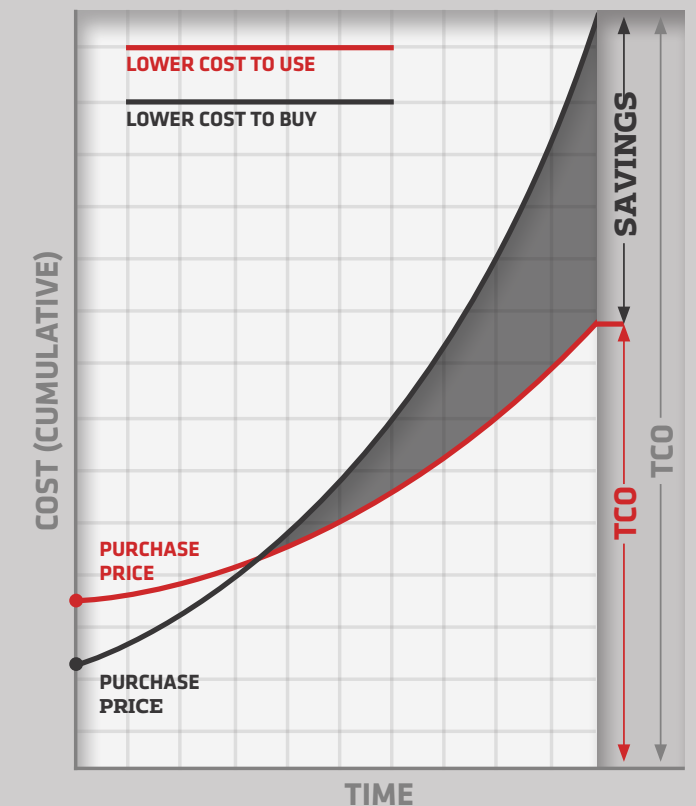
However, life cycle costing and true TCO (Total Cost of Ownership) cost models are somewhat problematic in that it's not a simple one size fits all solution, but rather an individual model needs to be created for site location and specific applications. The Core cost drivers selected on one site may give a good guideline for other sites with the same equipment, but the Auxiliary drivers will vary based on jurisdiction and site-specific issues.

We work with our customers to develop site-specific cost models in the core expertise areas in which we work with the view of proving that "using less steel less often" and "maximizing the production capacity of installed assets" has significant benefits to all parties.

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We work with our clients to develop site-specific cost models...

This chart shows the potential upside in what may be had if a higher valuing adding product is used over a lesser cheaper one.



Examples of Cost Drivers

Core

- The initial purchase cost of liners – typically <20%;
- Exchange rate;
- Taxes, Shipping, Storage and Handling costs to site;
- Lead time and required stock holding quantity and value;
- Usage rate;
- Installation and Removal frequency and costs
- Including all direct and indirect labor, energy and consumables; and
- Disposal costs.

Auxiliary

- Supply-side risk;
- Costs of purchasing, preparing and sending out bids, submission reviews, supplier visits, and evaluations;
- Issue costs on-site;
- Monitoring costs;
- Supplier support costs and benefits;
- HSE risk to include all work and environment permit types required and skill level of personnel needed to safely and effectively complete liner change-outs; and
- CSR and other HSE issues/costs.



For all owners, operators and maintainers of highly demanding mining plant & equipment assets. We invite you to explore the world of crusher and process plant front end optimization with us.

We look forward to being your safe partners in delivering; measurable, sustainable and responsible reductions in the Total Cost of Ownership of these assets.

We are changing the MINING world with technically better WEAR SOLUTIONS.

Ask for a download of our selection of

- Flyers & Technical Data Sheets
- Stockpile Optimization & Case study

from www.makuritech.com

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