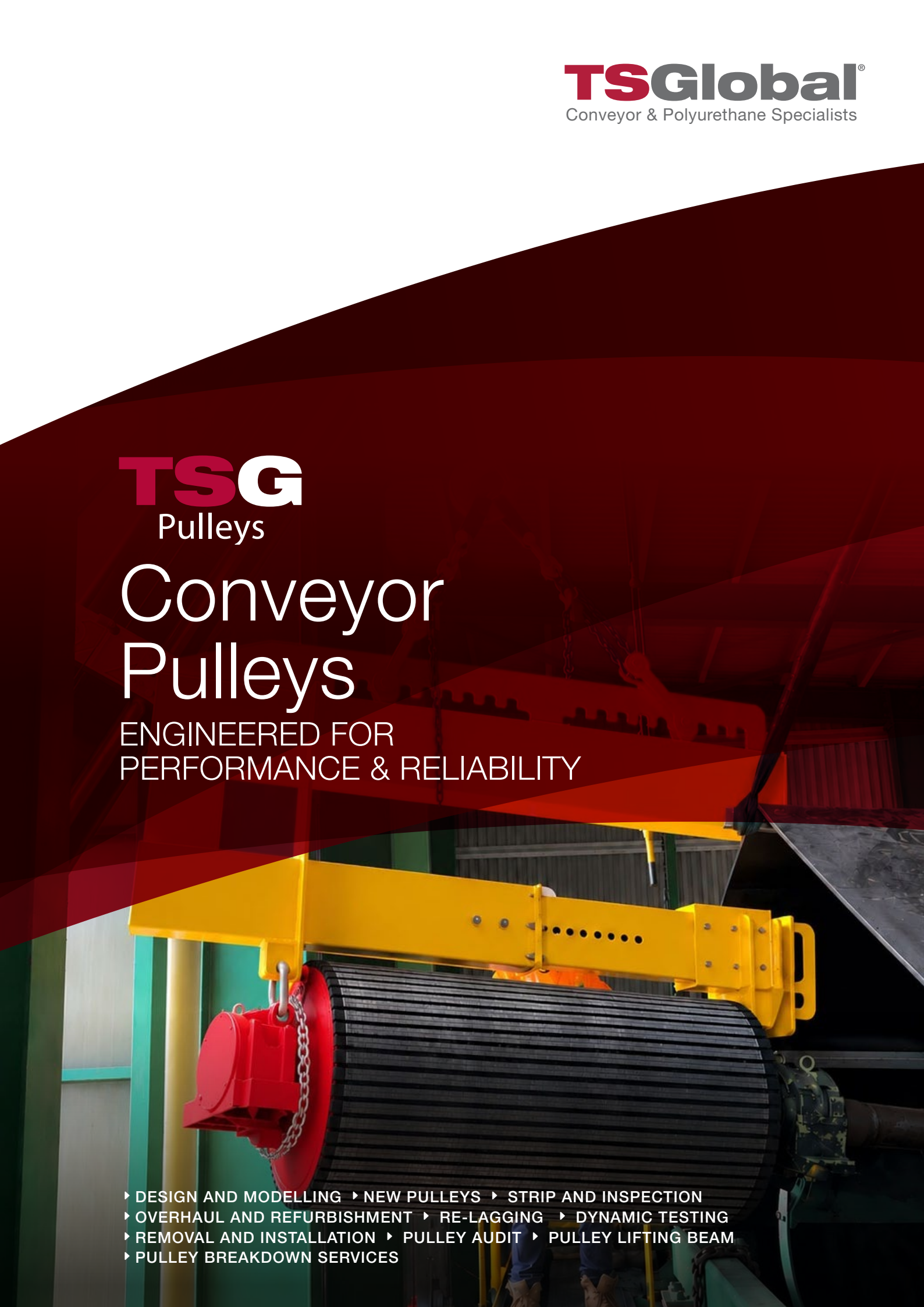
TSGlobal®
Conveyor & Polyurethane Specialists

TSG
Pulleys

Conveyor Pulleys

ENGINEERED FOR PERFORMANCE & RELIABILITY



- DESIGN AND MODELLING
- NEW PULLEYS
- STRIP AND INSPECTION
- OVERHAUL AND REFURBISHMENT
- RE-LAGGING
- DYNAMIC TESTING
- REMOVAL AND INSTALLATION
- PULLEY AUDIT
- PULLEY LIFTING BEAM
- PULLEY BREAKDOWN SERVICES

Complete Conveyor Pulley Solutions.

TS Global provides complete conveyor pulley support across every stage of the asset lifecycle, from engineering, design and manufacture through to installation planning, safe removal, inspection, refurbishment, certified testing and precise reinstallation.

Supported by responsive breakdown assistance, in-house engineering, Australian workshop capabilities and experienced on-site service teams, we deliver an integrated solution that improves safety, reduces downtime, maximises performance and extends pulley service life.

TSGlobal
Conveyor & Polyurethane Specialists

Why Choose TS Global for Conveyor Pulleys?

Pulley Lifecycle Expertise

- Design and manufacture
- Removal and installation
- Condition Reporting and Refurbishment
- Breakdown Support

In-House Engineering Expertise

- Specialised pulley design software
- Detailed load and fatigue analysis
- 3D modelling and drafting
- Expert engineering team

Certified Quality Assurance

- ISO 9001-certified processes
- Controlled inspection and traceability
- Certified dynamic run testing

Complete Conveyor Solutions

- Engineering, manufacturing, and installation under one provider
- Technical advice backed by nationwide capability

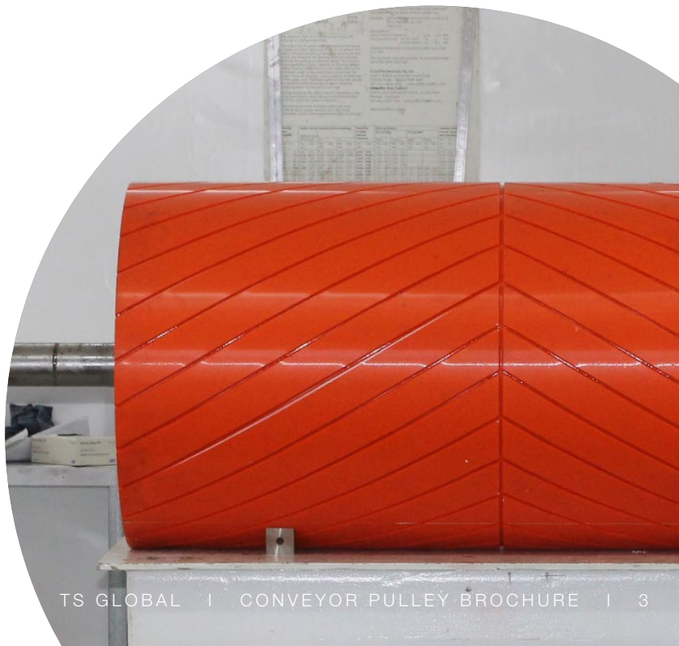
PROVEN PERFORMANCE

QUALITY PRODUCTS

FLEXIBILITY IN DESIGN

ON-TIME DELIVERY

AUSTRALIAN OWNED



The TS Global Pulley Range

TS Global offers three conveyor pulley tiers, allowing each pulley to be specified according to the application's operating duty, criticality, performance requirements and budget.

TIER 1

ELITE PULLEYS

Engineered for the most demanding and critical conveyor applications where maximum reliability, performance and service life are required. Elite Pulleys incorporate enhanced design features, premium materials and comprehensive quality assurance processes to support high-duty and high-consequence operating environments.

TIER 2

PREMIUM PULLEYS

Designed for applications requiring enhanced performance and durability while maintaining a practical balance between reliability and investment. Premium Pulleys provide a robust, high-quality solution for a broad range of demanding mining and industrial conveyor applications.

TIER 3

STANDARD PULLEYS

A dependable and cost-effective solution for general conveyor applications. Standard Pulleys are engineered to meet defined operational requirements while delivering consistent performance and long-term value under everyday service conditions.

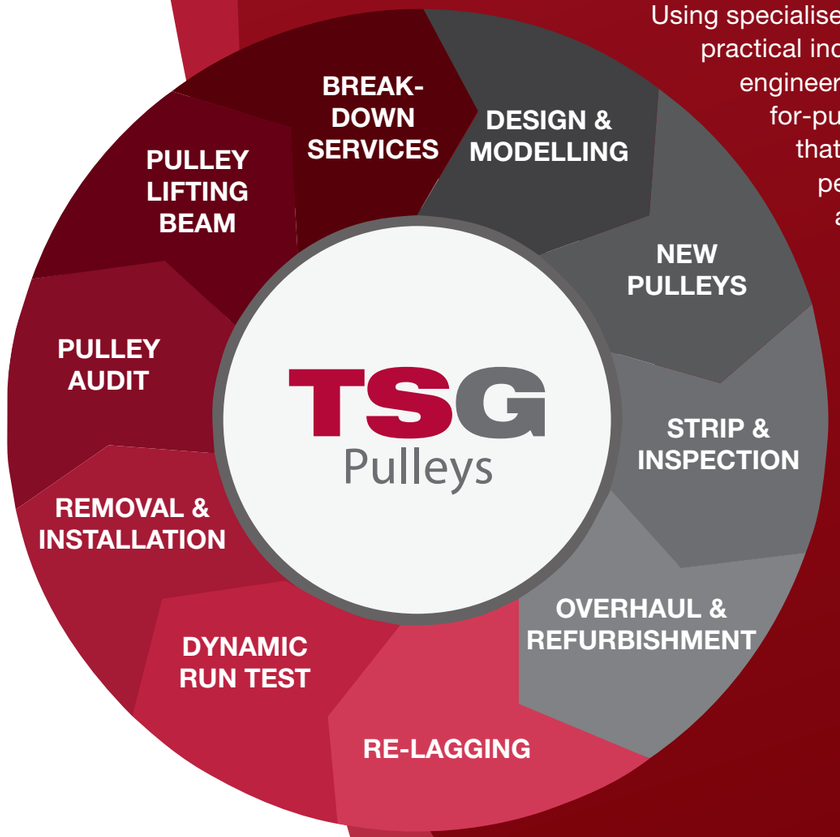
TSGlobal
Conveyor & Polyurethane Specialists

Engineered for Your Operation.

TS Global understands that every conveyor application places different demands on its pulleys. Operating duty, belt tensions, load conditions, environmental exposure, application criticality, maintenance strategy and required service life must all be considered to determine the right solution.

Our three-tier pulley range provides a structured approach to pulley selection. From Standard Pulleys for general service conditions through to Elite Pulleys for high consequence and high-consequence applications, each tier aligns the level of engineering, material selection and quality assurance with the operational requirements of the application.

Using specialised design software and practical industry expertise, our engineering team develops fit-for-purpose pulley solutions that balance reliability, performance, service life and investment.





Pulley
DESIGN & MODELLING

TS Global's in-house engineering team provides specialist pulley design and engineering support for new and existing conveyor systems. Each solution is developed around the application's operating conditions, performance requirements and installation constraints.

Using specialised pulley design software, our engineers assess multiple load cases, including normal running, start-up and emergency-stop conditions. This analysis verifies critical design factors such as shaft loading, bearing selection, structural integrity and fatigue life to ensure the pulley is engineered for its required duty.

Advanced 3D modelling and drafting capabilities support design validation, procurement and installation planning through detailed models and General Arrangement drawings. Our team also undertakes engineering assessments, refurbishment evaluations and failure investigations to identify recurring issues and develop practical reliability improvements.



New Pulleys

TS Global designs and manufactures new conveyor pulleys for demanding mining, industrial and bulk material handling applications. Our capability extends from high-tension drive pulleys to head, snub, bend and tail pulleys, including live and dead shaft configurations.

Construction methods, materials, shaft configurations, lagging systems and documentation packages can be tailored to the application's operating duty, performance expectations and project requirements. This allows TS Global to provide fit-for-purpose solutions across our Standard, Premium and Elite pulley tiers.

Manufactured through TS Global's Australian facilities, every new pulley is supported by an ISO 9001-certified Quality Management System and controlled inspection, testing and traceability processes. Pulleys undergo dynamic run testing before dispatch to verify balance and operational integrity. Where required, a comprehensive Manufacturer's Data Record can be supplied, including material certification, dimensional verification and inspection and test results.



APPLICATION -SPECIFIC ENGINEERING



CONTROLLED AUSTRALIAN MANUFACTURING



Pulley
STRIP & INSPECTION

TS Global's pulley strip and inspection service provides a detailed assessment of pulley condition to support informed repair, refurbishment or replacement decisions. Following complete disassembly, critical components including shafts, shells, end discs, hubs, bearings and lagging systems are visually and dimensionally inspected for wear, damage and fatigue.

Where required, non-destructive testing can be undertaken to identify surface and subsurface defects not visible during standard inspection.

Customers receive a comprehensive condition assessment report containing photographic records, dimensional measurements, identified defects and recommended actions. Findings can also be assessed against operating conditions to identify potential design, material, lagging or sealing improvements that may extend pulley service life and reduce recurring failures.



Pulley
OVERHAUL & REFURBISHMENT

TS Global provides pulley overhaul and refurbishment services to restore worn or damaged pulleys to a reliable, fit-for-duty condition. Based on inspection findings, operating duty and failure history, our team develops a defined refurbishment scope that can provide a cost-effective alternative to full replacement.

Refurbishment may include component replacement, shaft reclamation or replacement, shell repairs and re-lagging. Completed pulleys undergo final inspection and dynamic run testing before being returned to service. Where requested, dynamic run tests are supported with independent vibration analysis alongside temperature monitoring.

Supported by in-house engineering and controlled quality processes, each refurbishment also considers opportunities to improve future reliability. Material upgrades, enhanced sealing, revised lagging systems or design modifications can be incorporated to address recurring failure modes and extend service intervals.

QUALITY ASSURANCE

DETAILED INSPECTION



Pulley Re-Lagging
RUBBER & POLYURETHANE

TS Global provides pulley re-lagging services using both rubber and polyurethane lagging systems, helping restore traction, protect pulley shells and the conveyor belt while maintaining reliable conveyor performance. Lagging selection is based on operating conditions, duty requirements and wear characteristics to ensure the most appropriate selection for each application.

RUBBER & CERAMIC LAGGING

AVAILABLE OPTIONS & VARIOUS THICKNESS INCLUDE:

- Diamond Groove Rubber (Natural or FRAS)
- Smooth Rubber (Natural or FRAS)
- Partial Ceramic
- Full Ceramic
- 5 sided bond Full Ceramic

Rubber lagging provides a versatile and cost-effective solution for a wide range of conveyor applications. It delivers reliable traction while protecting pulley shells from wear, corrosion and impact damage. Grooved profiles improve water dispersion and increase belt grip in wet conditions.

For more demanding applications, ceramic lagging options provide increased traction and wear resistance, making them well suited to high-load, wet or contaminated environments. Enhanced grip and reduced slippage contribute to improved drive performance and extended service life, particularly on critical drive pulleys.



POLYURETHANE HOT CAST LAGGING

AVAILABLE OPTIONS INCLUDE:

- Diamond Groove, Herringbone Groove or Machined Finish
- Available in Natural or FRAS

Polyurethane hot cast lagging offers excellent abrasion resistance in high-wear non-drive applications. Its combination of durability and flexibility makes it suitable for operating environments where extended service life and reduced maintenance requirements are important. FRAS options are also available to meet site-specific safety requirements.

All re-lagging work is completed using controlled surface preparation, bonding and quality assurance processes to ensure optimal adhesion, long-term reliability and consistent field performance.

POLYURETHANE STRIP LAGGING

AVAILABLE OPTIONS INCLUDE:

- 91 Shore A hardness Diamond Grooved
- 91 Shore A Smooth

Polyurethane strip lagging offers excellent abrasion resistance in high-wear non-drive applications. Its combination of durability and flexibility makes it suitable for operating environments where extended service life and reduced maintenance requirements are critical considerations.

All re-lagging work is completed using controlled surface preparation, bonding and quality assurance processes to ensure optimal adhesion, long-term reliability and consistent field performance.



Pulley
DYNAMIC RUN TESTING

TS Global conducts controlled four-hour dynamic run testing to verify pulley performance before dispatch or return to service. Using predetermined belt tensions, a consistent radial load is applied to the pulley assembly to assess rotational stability, balance, alignment and overall assembly integrity.

The extended test duration allows the assembly to stabilise and enables abnormal vibration, imbalance and potential assembly defects to be identified before installation. Bearing noise and vibration analysis is also conducted and certified by SKF as part of every test.

Customers receive documented test results confirming the pulley has completed dynamic verification, providing greater confidence in its condition, performance and readiness for service.

QUALITY ASSURANCE



Pulley
AUDITING SERVICES

TS Global provides structured pulley audits to assess the condition, suitability and risk profile of pulley assets across a conveyor system. Combining field inspection, engineering review and practical maintenance expertise, our team identifies emerging issues, high-risk components and underperforming assets before they contribute to unplanned downtime.

Audit findings are presented in a clear, prioritised report with practical recommendations for maintenance planning, shutdown scoping and long-term asset management. Recommendations may include refurbishment, replacement, design improvements or opportunities to standardise pulley assets across site.

This gives maintenance and engineering teams greater asset visibility and the information required to prioritise expenditure, manage risk and make informed maintenance decisions.

PULLEY RISK PROFILE

CRITICAL	Immediate action required
HIGH PRIORITY	Plan repair or replacement
MONITOR	Continue inspection and monitoring
SERVICEABLE	No immediate action required

Pulley
REMOVAL & INSTALLATION

TS Global provides complete pulley removal and installation services for planned maintenance, shutdowns and breakdowns. Working closely with site personnel, our experienced teams manage each stage of the change-out, from planning and risk assessment through to removal, installation and commissioning support.

Change-outs are carefully planned to accommodate site conditions, access constraints and shutdown requirements, helping minimise disruption and support a safe, efficient return to service.

Where required, our teams use purpose-designed transport frames and the TS Global Pulley Lifting Beam to improve load control and simplify pulley handling in confined or difficult-to-access locations.

SAFETY



Pulley
LIFTING BEAM

Engineered specifically for conveyor pulley change-outs, the TS Global Pulley Lifting Beam supports safer, more controlled pulley removal and installation. Its adjustable telescopic design accommodates a broad range of pulley sizes and can facilitate pulley replacement without cutting the conveyor belt, helping reduce additional belt work and shutdown duration.

Can enable pulley removal without cutting the conveyor belt.

PULLEY LIFTING BEAM RANGE

SIZE	TYPICAL BELT WIDTH	FACE WIDTH
Small: 4.5 Tonne	800mm – 1200mm	880mm – 1480mm
Medium: 7 Tonne	1000mm – 1800mm	1150mm – 1980mm
Large: 12 Tonne	1400mm – 2300mm	1540mm – 2440mm
Extra Large: 16 Tonne	1600mm – 2500mm	1700mm – 2650mm

Custom or adjustable sizes available on request.



Pulley
BREAKDOWN SERVICES

When unexpected pulley failures occur, TS Global provides responsive breakdown support to restore conveyor availability safely and efficiently. Our integrated onsite, engineering and workshop capabilities enable us to manage the complete process, from initial assessment and safe removal through to repair or replacement and reinstallation.

Following inspection, we recommend the most appropriate solution based on the pulley's condition, operating requirements and shutdown constraints. Where required, accelerated refurbishment can be completed using our in-house engineering, machining and workshop capabilities. If replacement is required, TS Global can manufacture a new pulley engineered for the application.

This coordinated approach helps minimise downtime, manage operational risk and return critical assets to service with confidence.

Integrated onsite, engineering and workshop support when downtime is not an option.



Pulley Management
ON-SITE SERVICE

TS Global provides complete conveyor pulley management services supporting planned shutdowns, maintenance programs, breakdowns and inventory management.

Our teams provide installation, inspection, audit, overhaul, stock management and design services across mining, bulk material handling and heavy industry. We deliver reliable pulley solutions that maximise conveyor performance, safety and service life. Proactive pulley management helps maximise conveyor pulley efficiency, improve conveyor performance and reduce unplanned downtime.

SERVICES INCLUDE

- Conveyor pulley audits
- On-site replacement services
- In-situ bearing replacement
- Off-site overhaul services
- Inventory management
- Coupling alignment
- Safer & faster change out using the TSG lifting beam

Complete support throughout the pulley lifecycle, backed by responsive breakdown assistance when required.

COMPLETE LIFECYCLE SUPPORT

NATIONAL COVERAGE



Quality Assurance

All pulley design, manufacturing and refurbishment activities are delivered under TS Global's ISO 9001-certified quality management system. This ensures the appropriate level of inspection, traceability, testing and quality assurance is applied to meet site standards, project specifications and customer expectations.



Pulley
STRESS RELIEVING

TS Global provides controlled stress-relieving heat treatment during pulley manufacture and refurbishment where required. The process reduces residual stresses introduced through fabrication, machining and weld repairs, helping improve dimensional stability and minimise the risk of distortion and fatigue-related failure.

Applied to components such as shafts, end discs and welded assemblies, stress relieving is carefully controlled according to the pulley design, material and repair scope. This supports component integrity, reliability and long-term performance under cyclic loading.

QUALITY ASSURANCE

TSGlobal®

Conveyor & Polyurethane Specialists

SMC Screening Media & Composites

APM Poly Products

MCE Conveyor Pulleys & Equipment

Redi REPAIR

TSG Site Services

RKM INTERNATIONAL ROLLER COMPANY

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SAL-BRO-026 CONVEYOR PULLEYS