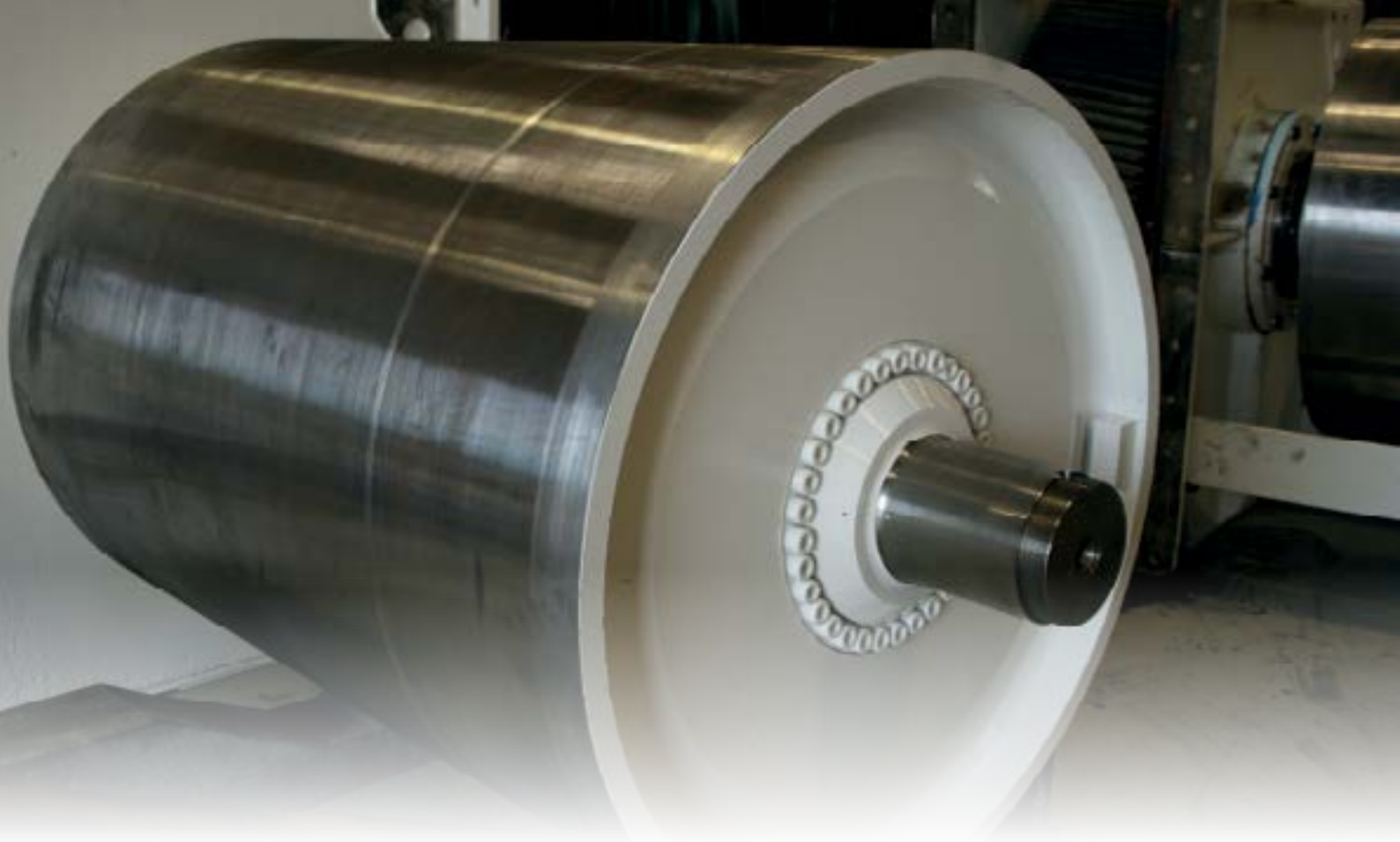


# Conveyor Pulleys



**TSGlobal**<sup>®</sup>  
Conveyor & Polyurethane Specialists



# **TSGlobal**

Conveyor & Polyurethane Specialists

Since 2007 TS Global has specialised in the manufacture of a comprehensive range of high quality conveyor accessories and polyurethane components. Our engineering and manufacturing expertise delivers world-class conveyor solutions that are built to withstand the harshest conditions.

Our range of services include the design, manufacture, refurbishment and testing of conveyor pulleys. Our focus is on high performance, low maintenance products to ensure we deliver our clients improved plant availability, reduced downtime and minimised maintenance expenditure.

-  **Proven Performance**
-  **Quality Product**
-  **Flexibility in Design**
-  **On-time Delivery**





## **PULLEY REFURBISHMENT**

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We provide a cost effective refurbishment service delivering our clients with a pulley that will perform at optimal level. This service is provided with a rapid response time minimising the impact on our clients.

### **Our services include:**

- Strip, inspect and capture of critical measurements
- Detailed condition report and estimate
- Sourcing of quality parts and materials
- Assembly by our specialised technicians
- Lagging to customer specifications
- Testing in our unique, dynamic test rig
- Dispatch on custom built pulley transport frame
- Stringent quality assurance regime

The above services are captured within our detailed work instructions ensuring a quality process is followed resulting in the delivery of a reliable, durable product that is guaranteed to perform.

## **PULLEY QUALITY ASSURANCE AND TESTING**

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With every manufacture and refurbishment we supply a Quality Assurance Report, Material Certification and Non-Destructive Testing as standard. In addition we can also offer Inspection Test Plans and Manufacturers Data Report along with any other testing as requested.

We have developed a unique in-house dynamic test rig that allows all pulleys manufactured or refurbished to be qualified for service. Each pulley is test run for four hours at an approximate speed of 4.0m/s. The test rig simulates in-service conditions allowing vibration analysis and thermography to be conducted to ensure there are no defects present within the bearings. This reduces the risk of a premature failure. The results of this condition monitoring are compiled within a report and provided to our clients as our quality guarantee.

TS Global delivers world-class products manufactured to withstand the harshest conditions. Our high performing products are designed to minimise the costs associated with the total ownership of the plant without compromising performance.

### **PULLEY DESIGN**

Our engineering team has a customised pulley design program which can be tailored to any client specified standards. This program calculates normal, running and start-up stresses. Using 3D modelling and Finite Element Analysis (FEA), each pulley is tested virtually prior to manufacture. Our capabilities include live or dead shaft pulleys in drive and non-drive configurations.

### **PULLEY MANUFACTURE**

We manufacture cost effective conveyor pulleys in-house up to 1100mm diameter x 2500mm face. We only purchase and use materials which are manufactured to Australian or relevant International Standards.



#### **Shell Material**

- AS3678 grade 250 or API5LB pipe

#### **Shaft Material**

- AS1442 grade 1045 or 4140





## MACHINING

Our onsite workshop includes access to both a small and large manual lathe for the machining of conveyor pulleys.

### Our equipment includes:

- Manual Lathe with 9 metre bed x 1.1 metre swing
- Manual Lathe with 4 metre bed x 0.45 metre swing
- Mill with 2.2 metre x 1.2 metre table
- Mill with 1.5 metre x 0.8 metre table
- Radial Drill

### 4m manual lathe in action



We manufacture premium quality, innovative conveyor products and market leading solutions.

## WELDING

We utilise NATA endorsed weld procedures in accordance AS/NZS - 1554 or relevant standards specified by our client. Our qualified in-house welding supervisors and inspectors provide a guarantee of compliance to the standards. Non Destructive Testing (NDT) on all weldments and materials is available on request.

TS Global employs qualified welding specialists to ensure adherence to structural welding and procedural standards, ensuring a quality product. Our end discs are prepared with a machined weld preparation to guarantee 100% weld penetration is achieved.

Post Weld Heat Treatment (PWHT), Stress Relieving and/or Non Destructive Testing (NDT) on all weldments and materials are available on request.

During assembly pulleys are statically balanced to the required standard. An ID plate is applied to the end of every pulley to allow for traceability back to the point of manufacture and quality documentation.

### Welding processes include:

- Gas Metal Arc Welding (GMAW) – MIG
- Manual Metal Arc Welding (MMAW) – Stick Electrode
- Submerged Arc Welding (SAW)



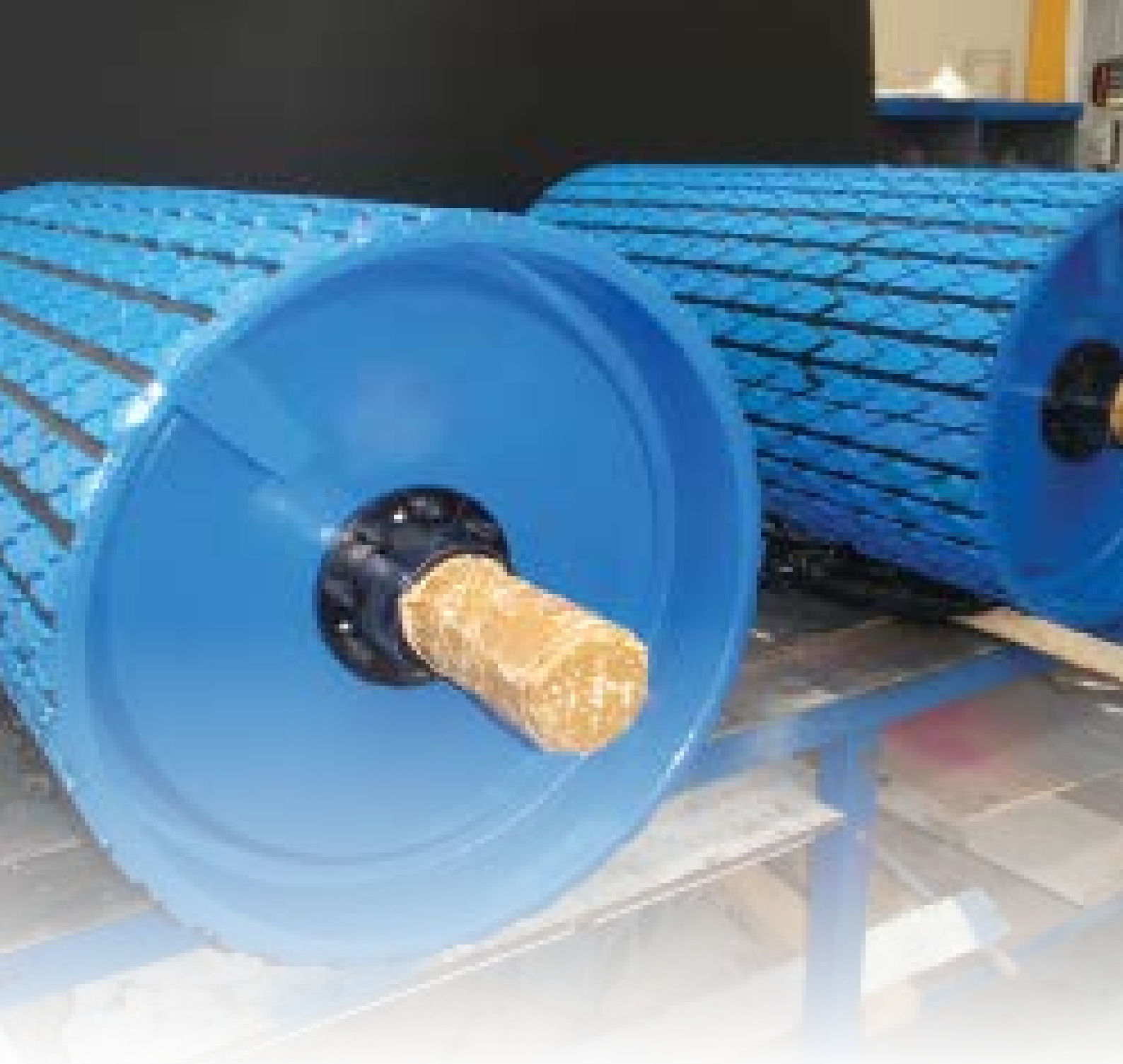
### AS/NZS - 1554

- Structural welding

### AS/NZS - 1554.5

- Structural welding for high fatigue purpose





## **PULLEY LAGGING**

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TS Global has developed a diverse and market leading range of pulley lagging to suit all applications and provide protection for your conveyor system. Pulley lagging is a critical component on every conveyor system. The selection of the correct lagging type provides protection against wear on capital items within your conveyor systems such as pulleys and conveyor belt.

### **Our range of lagging includes:**

- Rubber Strip Lagging
- Ceramic Strip Lagging
- Polyurethane Strip Lagging
- Polyurethane Hot Cast Lagging

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ISO 9001

BUREAU VERITAS  
Certification



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