

Rubber Lining & Pulley Lagging



ALL RUBBER



PRO RUBBER



PRODUCT INFORMATION

Whatever shape or size, we've got you covered

Protecting your machinery with high quality rubber lining will significantly prolong its service life by reducing wear, shock and corrosion. It will allow your equipment to operate at a higher efficiency for a longer period of time.

Our rubber lining capabilities are extensive, catering to a wide variety of industries including mining, steel manufacturing, chemical manufacturing and mineral processing. Here is a selection of items we can line but we can service almost every request:

- Tanks
- Chutes
- Hoppers
- Pipes
- Underpans
- Trommels
- Beams, side plates and screens
- Cyclones
- Pulleys

Our rubber lining is done to the British International Standard (BIS) but can be customised to your individual requirements.



Rubber Lining

Our extensive facility in Welshpool (WA) is approximately 17,000m² in size, with up to 20 tonnes of lifting capacity and the ability to service multiple jobs at the same time. Our facilities allow us to meet our customer requirements for both hot and cold lining applications.

ONE-STOP-SHOP

We provide all the services, including stringent quality control, that may be required alongside rubber lining including steel fabrication, blasting, priming and painting of equipment. This makes the process easy and efficient for our clients, reducing transport and handling costs.

HIGHLY EXPERIENCED TEAM

With over 25 rubber liners operating both onsite and within our workshops, our rubber lining team are extremely skilled, experienced and work to the highest standard.

ONSITE SERVICING

We have our own portable blasting unit and all the necessary equipment to carry out rubber lining onsite for large shutdown work and repairs. With the capacity to line up to 300 sq m, we can carry out any type of rubber lining as well as re-lines and ceramics, saving you unnecessary transport costs and minimising downtime of equipment.



Hot Rubber Lining

We have two autoclaves in Queensland and one in Western Australia that cater for hot rubber lining in our facilities.

AUTOCLAVES

Autoclaves allow for seamless rubber lining and better rubber-to-steel bonding, which is especially useful in chemical applications.

Our Queensland autoclaves are 2.8m and 1.95m in diameter by 7.5m and 1.8m long respectively. Our autoclave in Western Australia is 3m in diameter by 7.5m long.



Cold Rubber Lining

We are approved applicators of Linatex® (manufactured by Weir Minerals), and can provide their complete range of rubber for any application. We also provide our own branded range of cured rubber sheeting called Kontex, manufactured for All Rubber by Forech in India.

LINATEX®

Linatex is a 95% natural rubber that exhibits outstanding resilience, strength and resistance to cutting, tearing and abrasion. The unique liquid phase compounding process used, gives Linatex® its extraordinary physical properties and outstanding performance.

KONTEX

With a high level of durability and adaptability, Kontex provides various wear and corrosion protection to suit varying applications. Our Kontex 40 and Kontex 65 options are our most popular, providing exceptional levels of elasticity, resilience and strength. Heat resistant and nitrile rubber options are also available.



In-House Equipment

We have a diverse range of in-house equipment to facilitate our rubber lining processes, which will save you unnecessary handling and transport costs and we are able to provide NACE certification in-house too.



BLASTING, PRIMING AND PAINTING

We are able to prepare external surfaces including blasting, priming and painting. Blasting will prepare your steel, effectively removing all rust and contaminants so it's ready for priming.

Painting can be carried out to your unique specifications. Whatever coating system or Dry Film Thickness (DFT) you require, we can assist.



WATERJET CUTTING

We have two 3D waterjet cutters in-house so rubber doesn't need to be cut by hand.

This allows us to skive cut as well as straight cut our rubber, streamlining our processes and making our rubber lining even more efficient.

Pulley Lagging

Pulley lagging is an integral part of any conveyor belt system as it will ensure your conveyor belt runs efficiently and economically, as well as reduce belt slippage.

REDUCE WEAR

Pulley lagging increases the traction between the belt and the pulley, which in-turn reduces the load and wear on the drive, belt pulleys, bearings and take-up. It also creates a self-cleaning action on the pulley surface, preventing the build-up of transported material.

WE COME TO YOU

We provide a pulley lagging service onsite, at your local premises or at the pulley manufacturer.

RANGE OF PULLEY LAGGING

Our range of pulley lagging spans from a lighter weight resistant finish to a robust, heavy duty finish and is available where protection against abrasion, chemicals, heat and noise are required. We can also prepare the external surface treatments and provide painting.

CERAMIC AND RUBBER LAGGING

We provide both rubber and ceramic lagging, and you can purchase material individually if you want to fit the material yourself.

PULLEY MANUFACTURE

We can fabricate pulleys as well as line them if required.



Rubber Lagging



RUBBER LAGGING IMPROVES SERVICE LIFE

Our rubber pulley lagging is engineered to be highly elastic and wear resistant, providing a long service life for your system.

It will protect the shell of the pulley from damage, increase friction with the conveyor belt and dispense water off the pulley effectively. We provide our own brand of Kolag rubber lagging as well as Flexco products.



KOLAG PULLEY LAGGING SHEETS

These are specially formulated abrasion resistant sheets with a CN bonding layer for better adhesion. They are available in various grades of rubber including N and FRAS and possess diamond and square embossed grooves to improve belt grip and tracking, whilst reducing belt wear.



KOLAG PULLEY LAGGING STRIPS

Our Kolag strips are produced in a unique 'arrowboss' pattern for superior grip, with radial lines and grooved pattern for superior water shedding. They're especially suited to in-situ work and available in fire resistant and antistatic (FRAS) compounds.



FLEX-LAG® RUBBER

Flex-lag rubber can be installed without removing the pulley, using a cold vulcanisation process. It improves water-shedding and helps eliminate belt slippage.



FLEX-LAG® WELD ON

Flex-lag weld on is pre-cut to standard OEM widths for fast installation and available in ceramic and rubber pulley lagging for drive and non-drive pulleys. Its patented gear tooth design minimises problems associated with vibration, cleaner chatter and overall belt cleaner compatibility. It features no gutters, allowing easy segment and on-site installation.

Ceramic Lagging

Ceramic lagging is generally used over traditional rubber lagging when additional grip is required, being more wear-resistant than traditional rubber lagging and providing a higher service life.

USES

It can be applied to the conveyor drive, tail, snub, bend or take up pulleys and is suitable for wet, clay, muddy and abrasive materials.

KOLAG CERAMIC LAGGING

We provide our own brand of ceramic embedded rubber strip lagging called Kolag. The ceramic tiles are designed with a dimple profile to ensure there is minimal slippage between the belt and drive pulley.

It's especially suitable for wet or muddy applications where slippage can be a problem, and produces an excellent coefficient of friction between the conveyor belt and the pulley (up to two times better than conventional rubber lagging).

It is incredibly wear resistant, with a unique butterfly pattern, designed to achieve maximum water shedding benefits and comes with a buffed finish or optional bonding layer, enabling it to be cold bonded on-site.



Ultra High-Pressure Water Jetting

We offer a complete in-house service for refurbishing equipment which requires removal of rubber and other linings prior to surface preparation, re-lining and painting. We do this using our ultra high-pressure water jetting equipment, which is carried out by fully trained staff members.

SAFE & ENVIRONMENTALLY FRIENDLY

Water jet stripping is the safest and most environmentally friendly method for removal of existing rubber linings. Outstanding results can be achieved with this method, leaving a clean surface after stripping. The water can also remove any soluble salt contamination.

FAST TURNAROUND

No additional buffing is required to remove the residual adhesive / rubber layer as is usual with the manual stripping technique. This means that water jet stripping provides a much faster turnaround time for equipment requiring coatings removal.

Typical applications include screen components, trommels, conveyor pulleys, tanks and chutes. We can also mobilise equipment and staff within the Perth metro area as well as remote site locations.



Fabrication of Rubber Components

The production of complex shapes from rubber generally requires tooling such as moulds and dies and the associated heavy equipment.

CUTTING & FABRICATION

Simple flat shapes can be cut from pre-cured rubber sheets by hand cutting and punching, by press cutting with metal dies, or by water cutting.

We are able to fabricate rubber components from rubber sheets and extrusions by an adhesive bonding process, which eliminates the need for costly tooling for short run components.

This enables the manufacture of large components such as ball mill sealing gaskets and expansion joints through large diameter socks down to small gaskets, packers and boots. Textile reinforced rubber sheeting can also be utilised to produce conveyor belt curtains, screening flaps and adaptors.

TYPES OF RUBBER

Commonly used rubbers include natural, bromobutyl, EPDM, nitrile and neoprene. These elastomers can be successfully bonded using our cold bonding system.

Abrasion resistant rubber and rubber-ceramic wear plates can be applied using the adhesive bonding fabrication techniques to fit steel backing plates. We can also manufacture rubber components for hydrocyclones such as fishtails.



Dust Suppression Curtains

The purpose of dust curtains is to act as a sealing system at the load exit zone.

PLACEMENT

Dust curtains are placed with one curtain at the exit point of the loading zone and one curtain approximately 500 mm back into the loading zone.

The curtains reduce the airflow velocity allowing any suspended solids particles to settle back onto the load. The inner curtain is a solid sheet, whilst the exit curtain will have vertical strips approximately 50 mm apart and approximately 65% of the curtain height in length.

These slits reduce the possibility that the curtain will push material from the product stream off the belt.

The curtains hang down approximately 25 mm below the normal material profile on the belt.





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