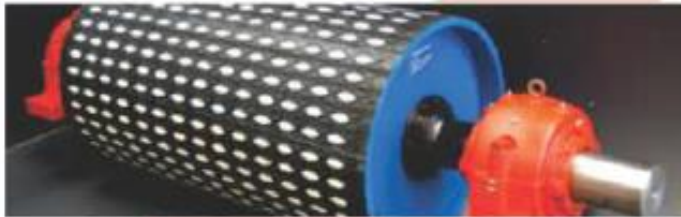




CONVEYOR PULLEYS

DESIGN - MANUFACTURE - OVERHAUL



- ✓ Materials compliant with strict Australia and ISO standards
- ✓ Engineering, product and site support
- ✓ Comprehensive Quality Assurance report supplied for all overhauls and new builds
- ✓ Manufactured at HEME Emerald
- ✓ Engineering and design capability
- ✓ Approved applicator for Hot Vulcanising
- ✓ All bearings are assembled by SWB Plus trained and certified personnel



ISO 9001 QUALITY
Certified System



AS/NZS 4801 SAFETY
Certified System



ISO 14001 ENVIRONMENT
Certified System

HOT VULCANISED PULLEY LAGGING



Hot vulcanised lagging offers significant advantages over cold bonded lagging when pulleys may be held in storage for extended periods and in less than ideal conditions.

The advantages of hot vulcanised lagging relate directly to the much better adhesion between the lagging and the pulley shell (100% rubber tear adhesion is the standard) and also to the elimination of any joins between the lagging strips.

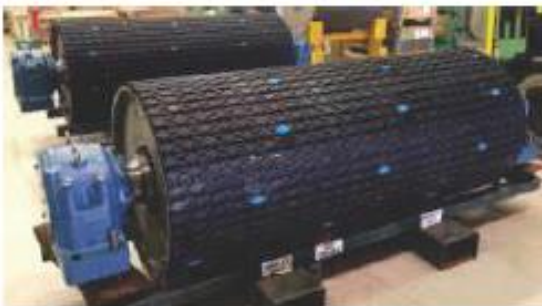
COLD VULCANISING vs HOT VULCANISING

	COLD VULCANISING	HOT VULCANISING
Adhesion level	Minimal Rubber Tear	100% Rubber Tear
Adhesion strength	> 8 N/mm	> 25 N/mm
On site application	YES	NO
Factory application	YES	YES
Stable rubber hardness	YES	YES
Joins	YES	NO
Curing	Room temperature	130-140°C
Bonding pressure	Rubber hammer	Autoclave 400-600 Kpa
Bonding pressure duration	Seconds	4 hours
Bond failure	Minimal rubber tear	100% rubber tear

In response to a request from Curragh, HEME consulted with Elastotec and as a result recommended a change to Hot Vulcanised (HV) FRAS Rubber and Hot Vulcanised Ceramic pulley lagging (HVCL). This recommendation was based on the fact that the HV lagging would eliminate three of the most common failure modes that the mine was experiencing:

- debonding from the pulley shell
- edge lifting
- separation and lifting at the joints between lagging strips

Elastotec provided a guarantee that there would be no debonding of tiles from the HVCL.



Based on this recommendation Curragh committed to a trial with three pulleys to be installed and lagged by HEME approved applicators with the Elastotec HV.

Due to a successful trial, after six months in operation, the decision was made to change all lagging for refurbished pulleys to the Elastotec HV lagging.

PULLEY SERVICES



To address the issue of pulley deterioration during storage HEME developed a combined pulley cradle and cover that can be used for storage either indoors or outdoors. The cover includes removable sides for inspection, external labelling and a design that allows for ventilation to prevent "sweating" in humid conditions.



- ✓ Quicker turnaround than our competitors
- ✓ Can react with short lead-times/breakdowns
- ✓ Workmanship/product guarantee – ISO 9001
- ✓ Employ local people
- ✓ All work is completed at H.E.M.E. Emerald
- ✓ One-stop-shop
- ✓ Able to Hot Vulcanise and Cold Bond Lagging
- ✓ Local Supplier – Central Highlands
- ✓ Hot Vulcanised – Approved Applicator



ABOUT H.E.M.E

Since 1997 H.E.M.E. Pty Ltd has been providing the Central Highlands with engineering solutions for the Mining, Civil and Agricultural Industries. We have a large machine shop, heavy metal fabrication shop, sandblasting, painting and CNC plasma cutter sheds to increase our capacity and further our services on offer. We currently employ twenty-nine fulltime professionals.

Over the years our clients have relied on us for rapid turnaround times and know us for being a "one stop shop" for all of their fabrication & repairs. We have undertaken numerous major projects with leading organisations within the Bowen Basin and are a preferred supplier.



In 2013, 2015 and 2017 consecutively HEME was awarded both the AusIndustry Manufacturer of the Year and CHDC's Business of the Year, as well as becoming an inaugural inductee into the Hall of Fame 2017.

Our Service Facilities

- Machine Shop
- Fabrication Shop
- Sandblasting & Painting Booths
- Hypertherm CNC Plasma Cutter

Our Objectives

- Production of quality products and service
- Flexible lead times
- Custom design by application
- Design for low cost manufacturing
- Sustainable maintenance
- Always maintain professionalism & efficiency
- Act responsibly as we are part of a much larger community, protect the environment, provide economic opportunity fairly, work safely and consider the person in all our business affairs
- To strengthen our company's position in local industry and continue improving the range of services provided
- To be a preferred employer for tradespersons

Contact Details

Address: 20 Hawkins Place, Emerald, Qld 4720

Mail: PO Box 1907, Emerald, Qld 4720

Phone: 07 49 823 001

Email: admin@heme.com.au

Web page: www.heme.com.au



**ISO 9001 QUALITY
Certified System**



**AS/NZS 4801 SAFETY
Certified System**



**ISO 14001 ENVIRONMENT
Certified System**

