QUALITY AND SERVICE, CAST IN STEEL.
Prima has been supplying South African mines with premium grade mining wear parts since 1937. During its long, proud history, Prima’s development has been inextricably linked to the growth of the world renowned South African mining industry. Prima has long been servicing the industry, learning from its needs, and delivering the best possible products, ensuring that mines deliver their riches effectively and efficiently.

The ensuing years has seen Prima evolve into one of South Africa’s most trusted and respected suppliers of mill and crusher liners, and become a leading steel foundry on the African continent. Recognition has come in the form of numerous export awards, and contracts won in a number of international markets including USA, UK, Australasia / Australia, Europe and several African countries.

**PRIMA IS A FAMILY BUSINESS.**

Prima is a family owned business. Prima’s commitment to the best products and services is evidenced in everything it does. Being a family business helps Prima to be fast and efficient. Important decisions can be made instantly, and critical actions implemented without delay. There is no bureaucracy to slow the company down, or to dilute its determination to deliver excellent product on time, every time. Prima is a certified BBBEE Contributor.

**PRIMA IS CUSTOMER DRIVEN.**

Prima is constantly striving for better ways of servicing its customer’s needs. The entire business has been built around its customers and every Prima business activity is focused on satisfying their needs. Be it the delivery of the highest quality product, or superlative sales and technical service, Prima is committed to its customers.

**PRIMA PRODUCTS ARE BACKED BY PEERLESS SERVICE.**

Prima representatives don’t just sell, they listen! It’s part of the company’s commitment to get closer to their customers, to better understand their problems and their requirements. It enables Prima to develop better products and support structures to facilitate their customers’ businesses, make them more profitable, and ease their management load.

**RAPID TURNAROUND IS CRITICAL.**

Prima understands that profits are constantly on the front line, and that rapid turnaround can be critical. Whether it’s a new order, or fulfilling ongoing requirements, Prima will deliver... fast! Faster turnaround will ultimately help customers contain costs. Simply put, reduced lead times mean a reduction in costly backup inventory.

**IT’S ALL ABOUT QUALITY.**

Stringent quality control systems enable Prima to deliver products that satisfy the most demanding customers and OEM’s. They ensure that products fit, perform efficiently, and are highly durable. Prima has a fully equipped laboratory that utilises a computerised emission spectrograph ensuring that the highest level of quality is maintained throughout the production process.

Prima is also a permit holder of the South African Bureau of Standards mark for the manufacture of Austenitic Manganese steel castings.
PRIMA’S CAPACITY
Prima is a substantial business with a staff compliment of 330 people. Recent expansion has increased Prima’s output, adding an extra 500t/pm to its previous 1000t/pm capacity. Prima comprises three foundries:

AD Foundry: The AD Foundry focuses on high production runs with the Horizontal Parting High Pressure Moulding Line, producing up to 15 moulds per hour with a box size of 1500 X 900 X 400mm. It has a maximum possible casting mass of 350Kg. The green-sand system uses 100% chromite sand. The AD Foundry has the capacity to produce 500 tons of net castings per month.

Prima Foundry: The Prima Foundry produces medium size Chrome-Moly mill liners up to 1.2 ton per piece. Its high pressure moulding carrousel produces moulds of 2300 X 1750 X 600mm in size. The green-sand system uses 100% chromite sand. The Prima Foundry has the capacity to produce 500 tons of net castings per month.

Resin Foundry: The Resin Foundry is a new ‘greenfield’ addition to Prima’s overall capacity. This foundry was completed in 2010. The Resin foundry makes use of an Acid Phenolic sand system utilizing 100% chromite sand, and produces both Manganese and Chrome-Molly steel castings, up to a maximum of 8000kg. The Resin Foundry has the capacity to produce 500 tons of net casings per month.

PRIMA’S FACILITIES: Prima has in-house facilities including:

- A modern, fully equipped, pattern shop using two HAAS CNC Routers (up to 1800mm x 3000mm) for new patterns. Existing Prima patterns or customer supplied patterns can be repaired and modified by qualified staff.
- A design/drawing office using Inventor drawing software and Milltraj simulation software for mill liner design.

Machining facilities: The machine shop consists of 12 vertical boring mills, the largest of which has a 4m table as well as 3 horizontal planers with a maximum table of 2000 X 3500mm. All machining is done in house.

Heat Treatment facilities: Prima has two heat treatment facilities on site making up a total of 6 fully programmable gas fired ovens which utilise the latest technology high velocity burners to attain accurate and efficient cycles. Quenching consists of a fully mechanised high speed removal system ensuring castings reach the quench bath as quickly as possible.

PRE-EMPTING THE FUTURE.
Prima is fully aware of the growing need for longer lasting materials worldwide. To address this, Prima is constantly engaged in R&D to further enhance its capabilities in the manufacture of alloy and manganese steel castings for grinding mills and crushers.

At Prima, improvement initiatives are a constant. Prima is not just committed to getting better at everything it does, it’s the ethos that drives the company.

PRIMA’S PRODUCTS
Prima is dedicated to producing the highest quality cast steel products. Over 75 years of experience, coupled to the company’s commitment to deliver products that meet customer’s exacting specifications, has seen Prima develop a growing base of loyal customers, both local and international.

Metallurgy is at the core of Prima’s business. Through ongoing R&D the company has developed its own alloy metal specifications. These have enabled Prima to match global standards. Prima’s manganese products are SABS certified, and Prima castings have earned preferred supplier status with market leading OEM’S.

Prima manufactures three ranges of products:
- Mill liners • Crusher liners • General engineering products

General Engineering Products:
Prima manufactures a range of general engineering products for metal shredding and mining equipment in alloy and a variety of manganese steel material specifications.

Metal Shredder products include:
- Hammers • Wear Plates • Anvils • Grate Bars

Mining Equipment products include:
- Grizzly Bars • Scraper Blades • Half Runners
Mill liners form the major portion of Prima’s business. The reason is simple. The company has gone out of its way to develop premium mill liner designs that are efficient, and cast in optimal Chrome Moly alloys. Prima’s three foundries, use green sand moulds and a state of the art no-bake moulding. Prima’s moulding method of utilizing 100% chrome sand, ensures a higher rate of heat extraction during casting solidification. This facilitates a finer metallographic structure, and consequently, higher abrasion resistance during use.

### Prima mill liners offer:
- More than 75 years experience in manufacturing mill linings
- Long experience of alloy and design selection
- Long lasting, abrasion resistant liners
- Minimal maintenance and long service intervals
- Optimised mill liners developed in collaboration with customers to reduce steel scrap rate
- Stringent quality control and traceability
- Rapid response manufacturing and support

### Other liner products:
- Feed hopper (chute) liners
- Trunnion journal liners
- Silo bin liners

Prima also designs and develops liners, to customer specifications, for all types of grinding mills, including SAG, FAG and BALL mills. Once the mill data is supplied, the Miltraj simulation can be done to design the shell liner configuration.
Prima crusher wear parts are developed in close co-operation with customers to ensure optimal crushing performance. These include Bowls, mantles, concave segments, jaws, blow bars, spider caps, spider shields for all makes and sizes of cone crushers, jaw crushers, gyratory crushers, impact crushers etc. Only the best raw materials, in optimal combinations, are cast under strictly controlled conditions. A variety of manganese and alloy material options are available to suit the stringent requirements of the toughest operating conditions.

Prima has an extensive pattern listing of approximately 4000 patterns in storage which can be used to produce liners for a variety of makes and models.

Prima Crusher Liners offer:

- Excellent durability
- High efficiency
- Cost Effective production
- Minimized downtime
- Strict quality control standards and traceability
- Consistency
- Peerless backup and support
- Rapid manufacturing and problem-solving turnaround