



MAATLA PELE ENGINEERING

BUILDING THE FUTURE, ONE PROJECT AT A TIME



COMPANY PROFILE



ABOUT US

At Maatla Pele Engineering, we pride ourselves on delivering top-tier engineering solutions with a full in-house capability to design, fabricate, Supply and sign off on projects. With decades of collective experience in the engineering and fabrication industry, our highly skilled team ensures precision, reliability, and innovation in every project we undertake.

OUR COMPREHENSIVE SCOPE OF WORK INCLUDES:



STRUCTURAL & PLATE WORK FABRICATION

High-quality structural and industrial fabrication.



MECHANICAL MACHINING

Precision machining for custom components.



PIPE SYSTEMS FABRICATION

Expert design and fabrication of piping networks.



MILL CONSULTING

Specialised advisory and engineering support for the mill industry.



REFURBISHMENT

Damaged structures/components in the mining and processing plant industries.



SUPPLY

Providing high-quality mechanical parts and components with precision and reliability.

Backed by our dedicated in-house design house, we produce detailed engineering drawings and provide professional sign-off by Pr. Eng-certified engineers, ensuring compliance and excellence at every stage.

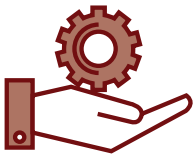
At Maatla Pele, we combine technical expertise, cutting-edge technology, and a commitment to quality to deliver solutions that drive success. Partner with us for engineering excellence that stands the test of time.



WORKSHOP CAPABILITIES

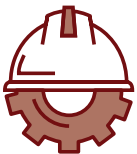
We combine state-of-the-art equipment, skilled craftsmanship, and decades of industry expertise to deliver high-quality fabrication solutions tailored to your needs. Our fully equipped workshop is designed to handle complex projects with precision and efficiency, ensuring timely delivery without compromising on quality.

OUR FABRICATION CAPACITY & EXPERTISE:



CAPABILITY:

We can process up to 90 tons of steel per month, making us a reliable partner for large-scale industrial and mining projects.



INDUSTRY FOCUS:

With a strong track record in the mining, industrial, and manufacturing sectors, we understand the demands of high-performance engineering.



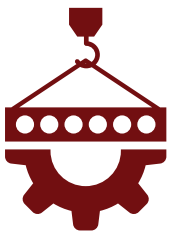
VERSATILE EXPERIENCE:

Our team excels in a wide range of fabrication disciplines, including:

- Structural Steel Fabrication – Beams, columns, and custom frameworks.
- Plate Work – Cutting, bending, and welding for heavy-duty applications.
- Mechanical Components – Precision machining and assembly.
- Pipe & Tank Systems – High-pressure piping, storage tanks, and pipeline networks.
- Refurbishment & Repair – Extending the lifespan of critical equipment.



MACHINING WORKSHOP CAPABILITIES



MACHINING WORKSHOP CAPABILITIES

Centre Lathe Specifications:

- Max Swing - Ø1000mm
- Max Workpiece length - 4000mm

Horizontal Boring Mill Specifications:

- Table Size - 1120mm x 900mm
- Vertical Travel - 900mm
- Cross Travel - 1000mm
- Long Travel - 1700mm

PROFILING CAPABILITIES

LASER CUTTING: Cutting bed of 12 x 3m and can process Mild steel, Carbon steel up to 40mm, Stainless steel up to 50mm, Aluminium up to 30mm. With a repositioning speed of 80m/min.

PLASMA CUTTING: Cut stainless and carbon steels up to 35mm thick, with a tolerance of ± 1 mm or less, depending on material thickness. Oxy fuel cutting options are available up to 300mm thick.

ROLLING: CNC rolling facility which can produce rolled products from minimum internal diameter of 500mm and upwards in plate widths of 3m maximum. The facility can roll plate of up to 35mm thick.

BENDING: Up to 16mm thick plate in lengths of up to 13m. Minimum bend radius of 8mm can be achieved.



STRUCTURAL FABRICATION

We specialise in high-quality structural steel fabrication, delivering robust and precision-engineered solutions for industrial, mining, and commercial applications. Our advanced MIG and TIG welding machines ensure superior weld integrity, while our expertise in carbon steel fabrication guarantees durability and performance in even the most demanding environments.

OUR STRUCTURAL FABRICATION EXPERTISE

We design and fabricate a wide range of custom steel structures, including:



PROCESSING PLANT
STRUCTURES



WAREHOUSES



INDUSTRIAL SHEDS



TANK SUPPORT
STRUCTURES



STAIRCASE TOWERS



ACCESS
PLATFORMS



CONVEYOR BELT
SYSTEMS



PULL-IN BELT
FACILITIES



PIPE BRIDGES
& RACKS



GENERAL
STEELWORK



HEADFRAMES



CAGE GUIDES



MACHINE WORKSHOP

We deliver high-precision mechanical turning work for the mining and industrial sectors. Our fully equipped workshop features state-of-the-art machinery and skilled artisans, enabling us to manufacture, repair, and refurbish critical components with unmatched accuracy and durability.

WE SPECIALISE IN THE FOLLOWING KEY AREAS:

- ✓ Drill rod shafts (for drilling rigs)
- ✓ Pump shafts (slurry pumps, water pumps)
- ✓ Conveyor driveshafts
- ✓ Bushings & sleeves (for excavators, loaders)
- ✓ Bearing housings (large-diameter, hardened)
- ✓ Thrust washers (for heavy machinery)
- ✓ Cylinder rods (hydraulic rams)
- ✓ Piston heads (compressor parts)
- ✓ Adapters (threaded connections)
- ✓ Blasthole drill components
- ✓ Concaves (large turning jobs)
- ✓ Mill liner bolts & retainers
- ✓ Drum Pulley (for conveyor belts)
- ✓ Idler rollers (turned & faced for alignment)
- ✓ Sprockets & chain wheels
- ✓ Worn flange resurfacing
- ✓ Bore repair
- ✓ Support rollers resleving



Why Choose Maatla Pele?
Whether you need custom machining, emergency repairs, or high-volume production, Maatla Pele Engineering delivers reliable, high-performance mechanical solutions – on time and to spec.



PLATE WORK FABRICATION/PIPING FABRICATION

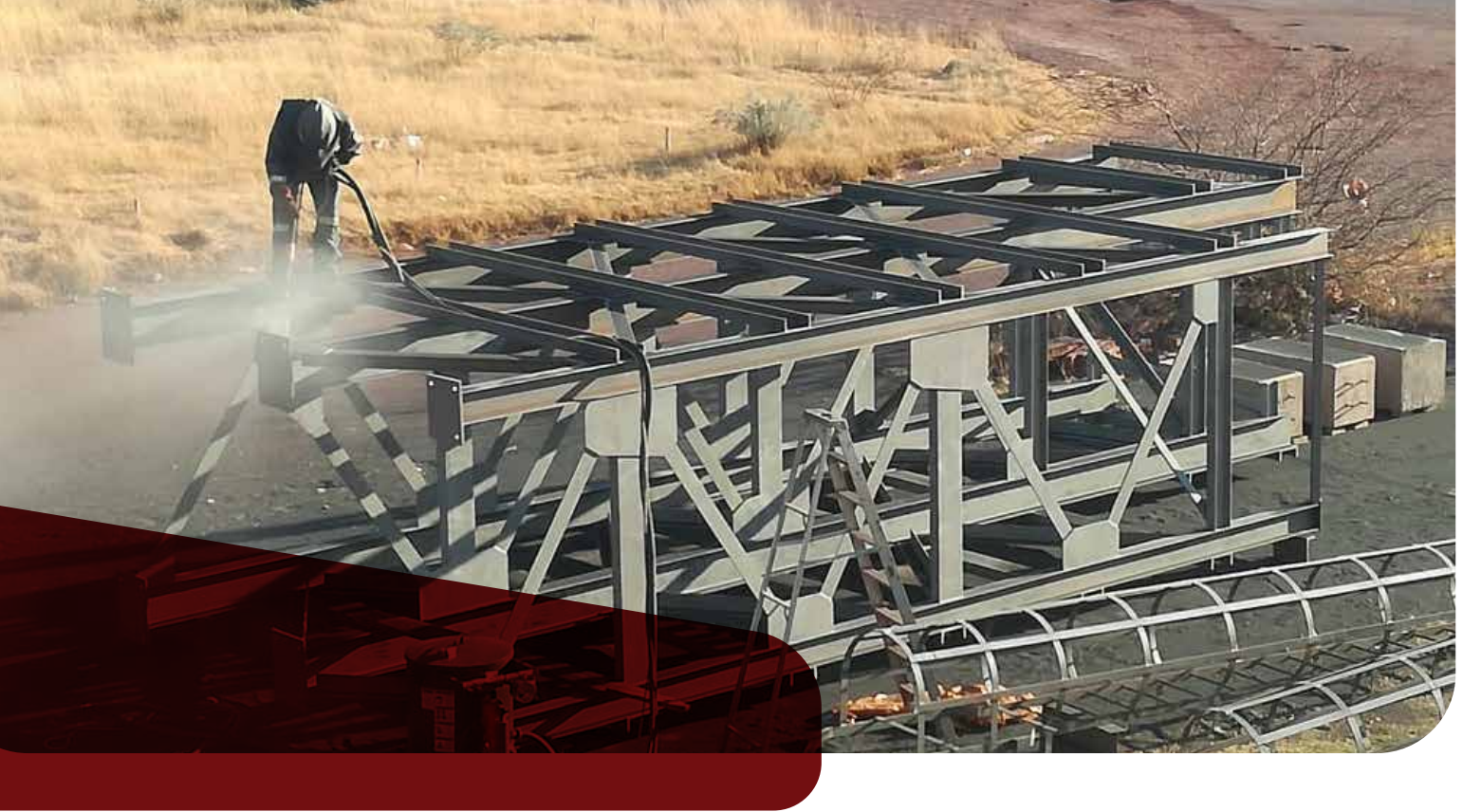
We specialise in high-quality plate work fabrication and pipe systems, serving the mining and industrial sectors with robust, custom-engineered solutions. Using cutting-edge technology, we expertly cut, bend, roll, and weld steel plates to create durable and efficient components designed to withstand harsh operating conditions.

OUR PLATE WORK FABRICATION SERVICES

We fabricate a wide range of critical components, including:



- ✓ FEED BINS & STORAGE TANKS
- ✓ FEED CHUTES & LANGLAAGTE CHUTES
- ✓ PIPING SYSTEMS
- ✓ VIBRATING SCREEN DECKS
- ✓ SLURRY TANKS & LAUNDERS
- ✓ THICKENERS & CLARIFIERS
- ✓ FLOTATION CELL COMPONENTS
- ✓ CONVEYOR HOODS & DUST COVERS
- ✓ DUCTING & CHIMNEY STACKS
- ✓ WEAR PLATE LINERS
- ✓ ORE CHUTES & TRANSFER POINTS



REFURBISHMENT

We bring your damaged plant equipment back to life with precision refurbishment, reverse engineering, and expert fabrication. Whether your machinery has suffered structural damage, mechanical wear, or plate work deterioration, our skilled team ensures it performs like new—extending its lifespan and saving you costly replacements.

OUR REFURBISHMENT SERVICES

We specialise in restoring wear-prone and damaged components, including:



STRUCTURAL REPAIRS

Reinforcing weakened frames, supports, and load-bearing elements.



MECHANICAL COMPONENT REFURBISHMENT

Shafts, bearings, and housings.



PLATE WORK RESTORATION

Repairing and reinforcing tanks, chutes, hoppers, and liners.



REVERSE ENGINEERING OF WORN PARTS

Using advanced measuring techniques to recreate damaged or obsolete components with precision.



WEAR & CORROSION PROTECTION

Applying high-grade liners, coatings, and reinforcements to prevent future damage.

SUPPLY SCOPE OF WORK

We provide a complete, integrated service package tailored for milling/drying operations—from supply and refurbishment to inspection and maintenance of critical mechanical components. Supply of high-strength fasteners for demanding conditions such as:

- ✓ mill ends
- ✓ shells,
- ✓ feed hoppers
- ✓ chute liners
- ✓ precision shims for motors
- ✓ gearboxes
- ✓ bearings and baseplates

Please also feel free to enquire about our wide spanning standard and custom configurations across materials and sizes

Our advanced lubrication systems—including centralized or spray-based options—are engineered specifically for girth gear guards and mill main bearings to ensure accurate metering, minimal waste and maximum longevity.

Complementing that, we offer expert rubber lining for trommel screens, discharge chutes and mill inlet/outlet liners. High-performance sealing components such as contact seals, labyrinths, locating rings and white-metal bearing arrangements are also in our wheelhouse.

To top it off, our diagnostic services include wear pattern analysis on girth gears, pinions and discharge chutes—identifying issues like pitting, scoring, or abrasion early on and enabling proactive interventions to extend asset life and minimize downtime. All delivered as a single, seamless maintenance and supply solution optimized for reliability, efficiency and cost control.



Gear Tooth Contact Checking & Identifying Wear



Screw Conveyors

SUPPLY SCOPE OF WORK



Lubrication Systems



Trommel Screens & Liners



Gearbox Refurbishment BEFORE



Gearbox Refurbishment AFTER



DESIGN & DRAUGHTING

We are a dynamic design house with a dedicated team of professional engineers and design draughtsmen. Our multidisciplinary drawing office is equipped to fulfil all your drawing requirements, seamlessly guiding projects from the initial design phase to manufacturing and construction, all while adhering to the highest industry standards.

We specialise in every aspect of engineering design, detailing, and the maintenance of built environments. Our mission is to deliver innovative, cost-effective, and sustainable solutions tailored to your unique needs. By designing from first principles and leveraging cutting-edge engineering resources, we ensure that every project is executed with precision and excellence.

Our experienced engineering team brings a wealth of knowledge to the table, capable of consulting on any engineering challenge. When specialised expertise is required, we collaborate with researchers and industry experts to provide comprehensive solutions.

This collaborative approach allows us to tackle complex challenges effectively, delivering results that exceed expectations. At Maatla Pele Engineering, we are committed to transforming ideas into reality, offering end-to-end engineering solutions.

The Software we use



AUTODESK
Architecture, Engineering
& Construction Collection



AUTODESK
Product Design &
Manufacturing Collection



Trimble
Real Works





CIVIL & STRUCTURAL ENGINEERING

Focusing on new projects and modifications to existing structures.

- Expertise in designing new plant structures, conveyor and crane gantries, and access systems for maintenance.
- We specialize in warehouse and factory design to optimize plant operations and efficiency.
- Offers detailed 3D modelling for office buildings and
- thorough structural analysis and design for industrial formations.



MECHANICAL ENGINEERING

We excel in mechanical engineering solutions, ensuring efficient and reliable project outcomes. Including:

- Finite element analysis (FEA) of structures and specialized components.
- Design of pressure vessels, heat exchangers, and safety features for mining equipment.
- Expertise in hydraulic systems, including cylinders and power packs.



BULK MATERIALS HANDLING

Maatla Pele Engineering specializes in cutting-edge materials-handling solutions that enhance operational efficiency and safety. Including:

- Expert silo design to prevent material flow issues such as arching and ratholing.
- Comprehensive dust control solutions prioritizing safety, health, and environmental standards.
- Advanced discrete element modeling (DEM) for optimizing bulk material flow in chutes and bins.



ELECTRICAL ENGINEERING

Electrical engineering is essential for optimizing the performance and safety of production and manufacturing plants through advanced control systems.

- We specialize in industrial instrumentation and control systems for various process variables, enhancing operational efficiency.
- Designs comprehensive power infrastructure, including Motor Control Centres, substations, and transmission networks.
- Conducts feasibility studies and provides earthing and lightning protection solutions to safeguard personnel and equipment.



PIPING SYSTEMS

Maatla Pele Engineering delivers comprehensive design solutions for ducting and piping systems, ensuring efficiency and minimizing on-site challenges.

- Expert in pump selection, pipe routing, and creating detailed isometric drawings and bills of materials for various liquids, including slurries.
- Specializes in bracketing, support design, and thermo-hydraulic simulations to optimize plant performance and accommodate thermal expansions.



3D LASER SCANNING

Maatla Pele Engineering Engineering utilizes cutting-edge 3D laser scanning technology to transform engineering practices through accurate spatial data capture.

- Produces detailed as-built documentation of existing structures and facilities.
- Facilitates effective maintenance planning by monitoring asset condition and changes.
- Creates precise 3D representations for the digital preservation of historical sites and artifacts.



3D SCAN-TO-CAD

Maatla Pele Engineering Engineering utilizes advanced 3D scanning and CAD modeling to enhance facility design and performance.

- Expert in reverse engineering and design improvements using CAD models.
- Comprehensive 3D modeling for facilities, equipment, and infrastructure optimization.
- Performs simulations and analyses to assess performance and ensure seamless retrofitting.



GENERAL CONSULTING

We provide comprehensive consulting engineering services tailored to meet the unique needs of our clients. Our expertise spans various disciplines, ensuring innovative solutions that drive project success and operational efficiency.

- Project Management
- Feasibility Studies
- Risk Assessments
- Regulatory Compliance & Standards
- Technology Integration & Innovation



MINING PLANT SOLUTIONS

We're your go-to team when mines and plants need to rebuild their documentation from scratch. Our secret weapon? We combine innovative engineering with hands-on fabrication—a one-two punch that most companies can't match.

HERE'S HOW WE SOLVE YOUR PLANT HEADACHES:

We specialise in restoring wear-prone and damaged components, including:

- ✓ WE REVERSE-ENGINEER YOUR ENTIRE OPERATION, CREATING ACCURATE AS-BUILT DRAWINGS FROM THE GROUND UP
- ✓ OUR DESIGN HOUSE (STAFFED BY TOP DRAFTSMEN AND ENGINEERS) THEN OPTIMISES YOUR LAYOUTS AND MATERIAL FLOWS
- ✓ BEST PART? WE DON'T JUST HAND YOU PRETTY DRAWINGS - WE FABRICATE THE SOLUTIONS IN OUR OWN WORKSHOP



For over 25 years, we've helped major mines across Africa:
Document forgotten plants
Modernise outdated infrastructure
Fix material flow nightmares
Keep everything compliant

OUR NEW FACILITY IS ON ITS WAY



OFFICE



WORKSHOP



SANDBLASTING BAY



ASSEMBLY POINT



PRE ASSEMBLY AREA



PAINTING BOOTH



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