



COMPANY PROFILE

COMPANY PROFILE





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BLACK JACK ENGINEERING

ABOUT US

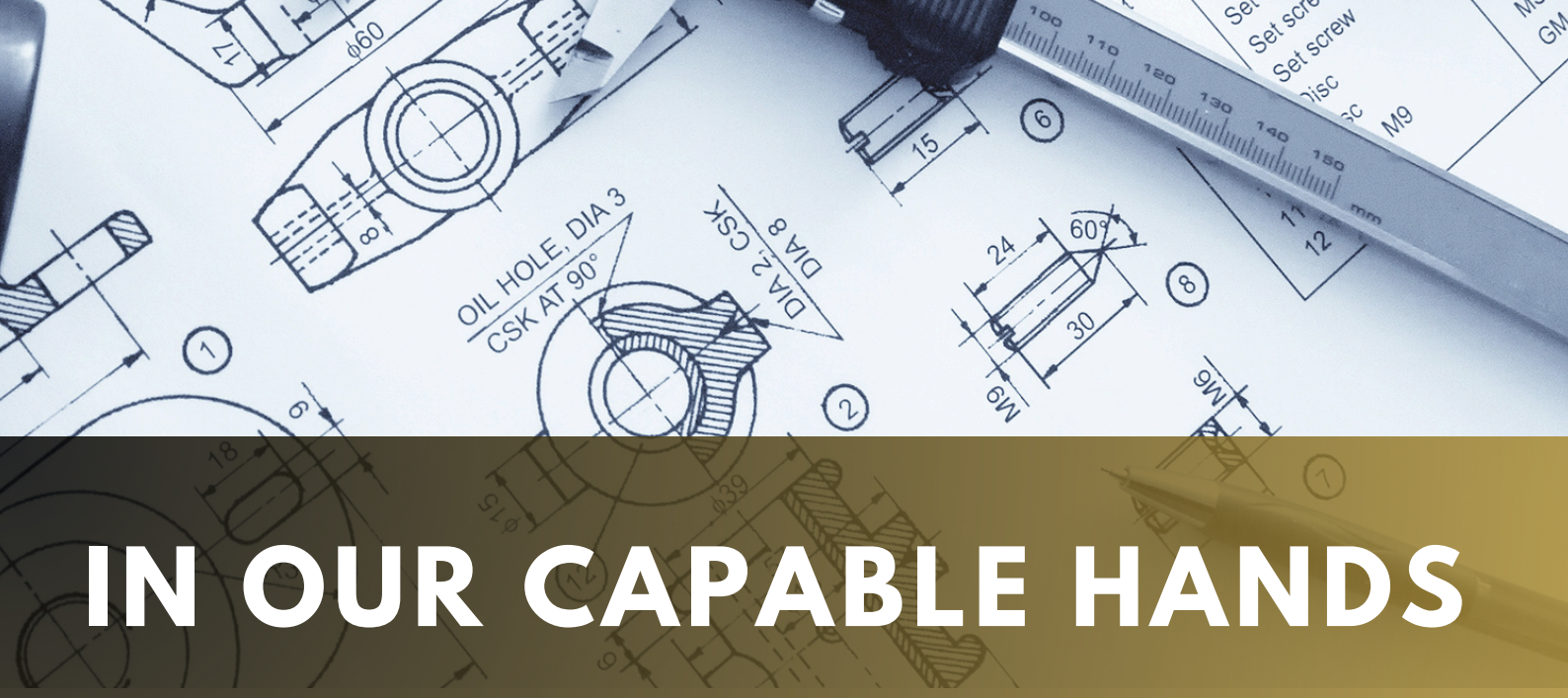
Black Jack Engineering is a versatile, one-stop engineering company specializing in machining, fabrication, project management, and site work, including mechanical installation, electrical, and construction activities.

With 25 years of experience, Black Jack Engineering serves a wide range of industries, including mining, petroleum, marine, military, power, cement, chemical, iron and steel, pulp and paper, food processing, petroleum products distribution, and warehousing, as well as water & sanitation. The company operates across South Africa and other SADC countries.

We are proud to have a highly skilled team of specialists who provide a comprehensive range of technical support services for both new and existing plants. This includes site-based maintenance for the mining, power generation, and petrochemical industries.

Black Jack Engineering is accredited with ISO 9001:2008 for Quality Management and ISO 3834 for Welding Processes, underscoring our commitment to delivering the highest standards of quality in all our products and services.

Additionally, Black Jack Engineering is a BBBEE Level 1 contributor and is registered with the CSD (National Treasury).



IN OUR CAPABLE HANDS

MISSION STATEMENT

At BJ Engineering, our mission is to deliver top-tier engineering solutions through our expertise in machining, fabrication, project management, and site work. We are dedicated to exceeding our clients' expectations by providing innovative, reliable, and efficient services that support the growth and success of diverse industries across South Africa and SADC countries

VISION

To be the leading engineering company recognized for our exceptional service, technical excellence, and commitment to innovation, driving progress and sustainability in the industries we serve.



**CLIENT
FOCUS**



**STRATEGIC
PLANNING**



**EFFECTIVE
EXECUTION**



MANUFACTURING SERVICES AND CAPABILITIES



CNC MILLING AND TURNING



STEEL FABRICATION



PRECISION MACHINING



PROTOTYPE TO PRODUCTION



CONSTRUCTION & ELECTRICAL SERVICES



ROTARY KILN & CONVEYORS



PUMPS AND REWINDING MOTOR



PROJECT MANAGEMENT



INDUSTRIES SERVED



MINING & PROCESSING PLANT



TRANSPORT INDUSTRY



IRON AND STEEL PLANT



REFINERY



WATER & SANITATION PLANT



PULP AND PAPER PLANT



CHEMICAL INDUSTRY



MILITARY AND DEFENSE



RECYCLING INDUSTRY



RAIL INDUSTRY



AUTOMOTIVE



AVIATION



CEMENT INDUSTRY



FOOD PROCESSING PLANT



POWER GENERATION





ENGINEERING



MECHANICAL ENGINEERING



ROTARY TECHNOLOGY SOLUTIONS



METAL FABRICATION



ENGINEERING CONSULTATION



INSTALLATION

MINING



SUPPLY OF MINING EQUIPMENT
AND MACHINERY



LUBRICANTS AND OILS FOR
HEAVY MACHINERY



STEEL/METAL FABRICATION



MECHANICAL INSTALLATION AND
MAINTENANCE SERVICES



CONSULTATION AND
PROJECT MANAGEMENT

IMPORT AND EXPORT LOGISTICS SERVICES



GLOBAL SOURCING AND PROCUREMENT



CUSTOMS CLEARANCE AND
DOCUMENTATION



FREIGHT FORWARDING AND
TRANSPORTATION



WAREHOUSE AND INVENTORY
MANAGEMENT

MILITARY AND DEFENSE



MANUFACTURING OF MILITARY
COMPONENTS



MAINTENANCE, REPAIR &
SUPPLY

PETROLEUM PRODUCTS SUPPLY



BULK FUEL SUPPLY



OILS AND LUBRICANTS



PETROLEUM PRODUCT DISTRIBUTION



CONSULTATION ON FUEL
MANAGEMENT SOLUTIONS



ENGINEERING

A PASSION FOR PRECISION



ENGINEERING

At Black Jack Engineering, we specialize in delivering innovative and high-quality engineering solutions across various industries. Our team focuses on mechanical engineering, metal fabrication, rotary technology, and tailored military and mining support, ensuring we meet our clients' unique needs with precision.

What sets us apart:

Customized Solutions: Tailored approaches for enhanced operational effectiveness.

Advanced Technology: Utilization of cutting-edge technology for superior results.

Exceptional Customer Support: Ongoing assistance throughout the project lifecycle.

1.Design and Drafting Services:

Detailed engineering design and drafting for mechanical, electrical, and civil projects, using the latest CAD technology.

2. Project Management:

Comprehensive project management services to oversee engineering projects from concept to completion, ensuring timely and within-budget delivery.

3.Structural Engineering

Design and analysis of structures, including buildings, bridges, and industrial facilities, to ensure safety and durability.

4.Mechanical Engineering :

Development and optimization of mechanical systems, including HVAC, plumbing, and machinery.

5.Electrical Engineering:

Design and implementation of electrical systems for commercial, industrial, and residential applications.

6.Civil Engineering :

Planning, design, and construction of infrastructure projects, including roads, highways, and water treatment facilities.

7. Process Engineering:

Design and optimization of industrial processes to improve efficiency, reduce costs, and ensure regulatory compliance.

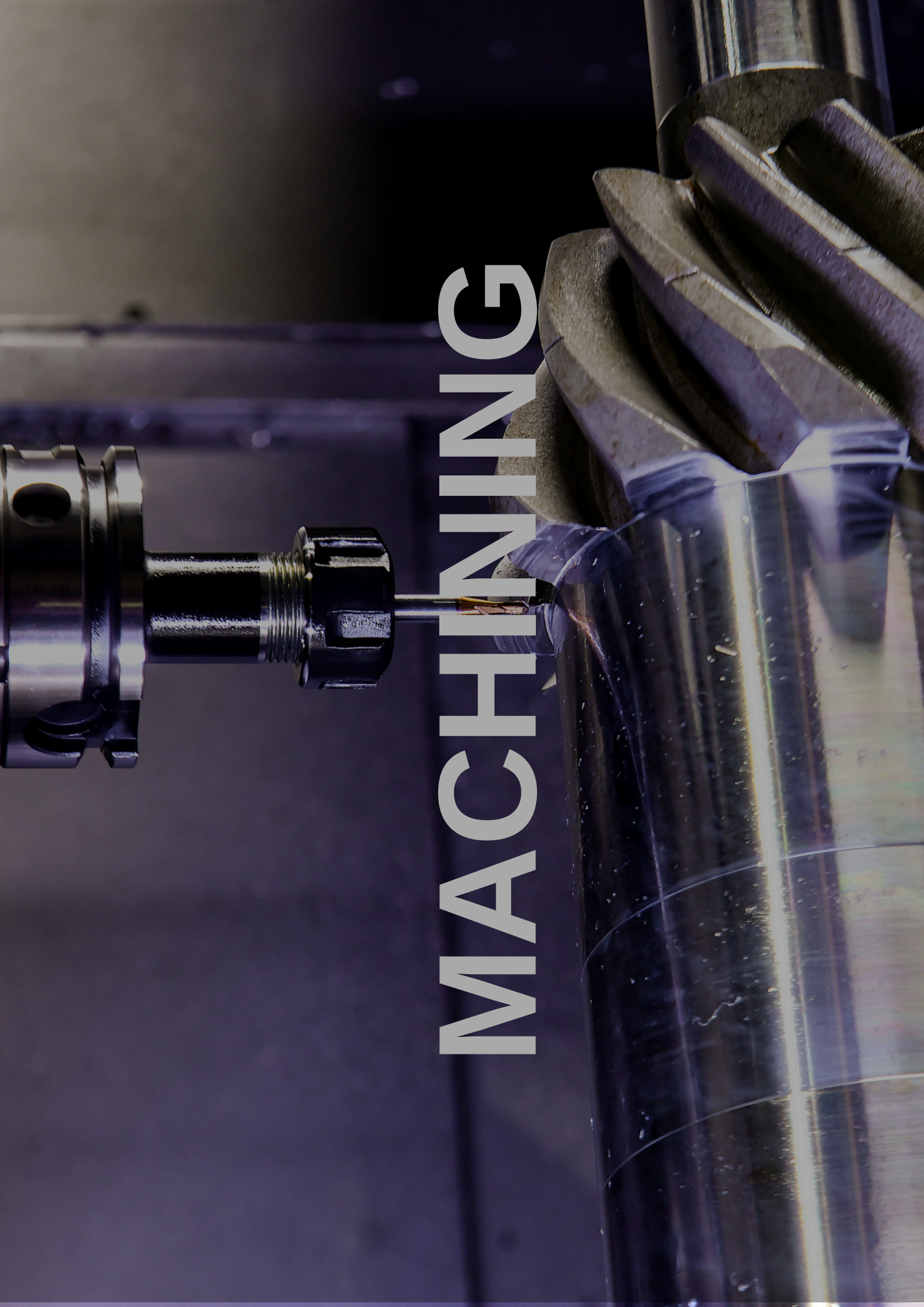
8.Failure Analysis and Troubleshooting:

Investigation and analysis of engineering failures to identify root causes and develop corrective actions.

9.Environmental Engineering :

Solutions for environmental protection, including waste management, pollution control, and sustainable design practices.





MACHINING



MACHINING

Black Jack Engineering specializes in precision machining services, providing high-quality components tailored to client specifications across various industries. Utilizing state-of-the-art machinery and advanced manufacturing processes, our skilled technicians deliver intricate designs with exceptional accuracy and efficiency.

We are committed to continuous improvement and innovation, ensuring we adapt to our clients' evolving needs while maintaining the highest quality standards. At Black Jack Engineering, we prioritize excellence, timely delivery, and strong customer partnerships, making us your trusted source for precision machining solutions.

From the moment we receive specifications, we strive to ensure that all your needs are met through:

- Attention to detail
- Dedication to quality
- Back-up services
- Skilled & fully trained staff

CNC Milling:

High-precision CNC milling services for the creation of complex components with tight tolerances.

CNC Turning:

Efficient CNC turning services to produce cylindrical parts with superior surface finishes.

Drilling and Tapping:

Accurate drilling and tapping services for a wide range of materials and applications.

Surface Grinding:

Precision surface grinding to achieve flat surfaces and fine finishes for critical parts.

Boring and Reaming:

Boring and reaming services to ensure perfect hole dimensions and smooth finishes.

Thread Cutting:

Manufacturing of internal and external threads to exact specifications using advanced threading technology.

Gear Cutting and Shaping:

Custom gear cutting and shaping services for various industrial applications.

Prototyping and Small-Batch Production:

Machining prototypes and small batches to test and validate designs before mass production.

Precision Machining for Custom Parts:

Fabrication of custom parts to meet specific industry standards, ensuring precision and durability.

FABRICATION





FABRICATION

At Black Jack Engineering, we specialize in delivering innovative and high-quality engineering solutions across various industries. Our team focuses on mechanical engineering, metal fabrication, rotary technology, and tailored military and mining support, ensuring we meet our clients' unique needs with precision.

What sets us apart:

Customized Solutions: Tailored approaches for enhanced operational effectiveness.

Advanced Technology: Utilization of cutting-edge technology for superior results.

Exceptional Customer Support: Ongoing assistance throughout the project lifecycle.

Custom Metal Fabrication:

Precision fabrication of custom metal components tailored to meet specific design and operational requirements.

Structural Steel Fabrication:

Manufacturing of structural steel beams, columns, and frameworks for construction and industrial use.

Cutting and Bending:

Precision cutting and bending services for metal sheets and bars, ensuring exact specifications are met.

Welding Services:

High-quality welding services, including MIG, TIG, and arc welding, for structural and non-structural applications.

CNC Machining:

Advanced CNC machining services for the accurate and efficient production of complex parts and components.

Metal Finishing:

Providing surface treatments such as polishing, painting, and powder coating to enhance durability and appearance.

Sheet Metal Fabrication:

Design and fabrication of sheet metal components for industries such as automotive, construction, and manufacturing.

Pipe Fabrication:

Custom pipe fabrication services for various industries, including mining, oil, and gas, ensuring durable and precise installations.

Assembly and Installation:

Fabrication of components followed by on-site assembly and installation to ensure seamless integration into client operations.

The background image shows a complex industrial facility, likely a refinery or chemical plant. It features large, dark-colored cylindrical storage tanks or reactors, a network of pipes, and various structural steel frameworks. The scene is captured from a low angle, looking up at the massive scale of the equipment. The lighting is somewhat dim, suggesting an overcast day or an indoor setting with artificial light. The overall color palette is dominated by greys, blacks, and muted blues, with some yellow highlights from safety railings or structural elements.

ROTARY TECHNOLOGIES



ROTARY TECHNOLOGIES

At Black Jack Engineering, we specialize in rotary technologies, providing innovative solutions that enhance the performance and efficiency of rotary equipment across various industries. Our expertise encompasses the maintenance, repair, and optimization of rotary machinery, ensuring that our clients achieve maximum operational uptime and productivity. By employing cutting-edge techniques and industry best practices, we deliver tailored services that meet the unique demands of each project.

What sets us apart:

Comprehensive Solutions: End-to-end services covering installation, maintenance, and repair of rotary equipment to ensure optimal performance.

Industry Expertise: A team of skilled professionals with extensive knowledge in rotary technologies, dedicated to delivering effective solutions.

Commitment to Reliability: Focus on minimizing downtime and enhancing the longevity of equipment through meticulous service and support.

Rotary Equipment Design and Engineering:

Customized design and engineering of rotary machines, tailored to specific industrial applications.

Rotary Drum Fabrication:

Precision fabrication of rotary drums for applications such as drying, mixing, and material processing.

Rotary Kiln Services:

Specialized services for the design, installation, and maintenance of rotary kilns used in various industrial processes.

Installation and Commissioning of Rotary Systems:

Professional installation and commissioning services to ensure smooth operation of rotary technology.

Alignment and Balancing Services:

Expert alignment and balancing of rotary equipment to minimize wear and optimize performance.

Custom Rotary Solutions:

Development of bespoke rotary technology solutions to address unique operational challenges.

Maintenance and Repair of Rotary Equipment:

Comprehensive maintenance and repair services to keep rotary machines running at peak efficiency.

Retrofit and Upgrade Solutions:

Upgrading and retrofitting existing rotary systems to enhance efficiency and extend operational life.

*Vibration Analysis and Monitoring:

Advanced vibration analysis and monitoring services to detect and prevent potential issues in rotary machinery.

MECHANICAL INSTALLATION & CONSTRUCTION





MECHANICAL INSTALLATION & CONSTRUCTION

Black Jack Engineering offers top-tier mechanical installation and construction services, designed to meet the demands of various industries. Our team handles everything from the installation of complex machinery to full-scale construction projects, ensuring precision, efficiency, and safety throughout. With our vast experience and commitment to quality, we deliver solutions that are tailored to the specific requirements of each project.

What sets us apart:

Turnkey Solutions: From installation to full project execution, we provide comprehensive services for mechanical systems and construction needs.

Expert Team: Highly skilled professionals with extensive experience in mechanical systems, delivering projects with precision and reliability.

Safety and Compliance: Strict adherence to industry standards, ensuring safety and regulatory compliance on all installations and constructions.

1. Equipment

Installation:

Precision installation of industrial machinery and equipment, ensuring optimal performance and safety.

2. HVAC Systems

Installation:

Comprehensive installation of heating, ventilation, and air conditioning systems for commercial and industrial facilities.

3. Piping Systems

Installation:

Design and installation of piping systems for fluid and gas transportation, including process piping and plumbing.

4. Structural Steel

Erection:

Erection of steel structures for buildings, factories, and industrial plants.

5. Conveyor System

Installation:

Installation of conveyor systems for material handling, customized to suit specific operational requirements.

6. Maintenance and

Repair Services:

Ongoing maintenance and repair of mechanical systems to ensure longevity and reliability.

7. Mechanical System

Upgrades: Upgrading and retrofitting existing mechanical systems for improved efficiency and compliance with modern standards.

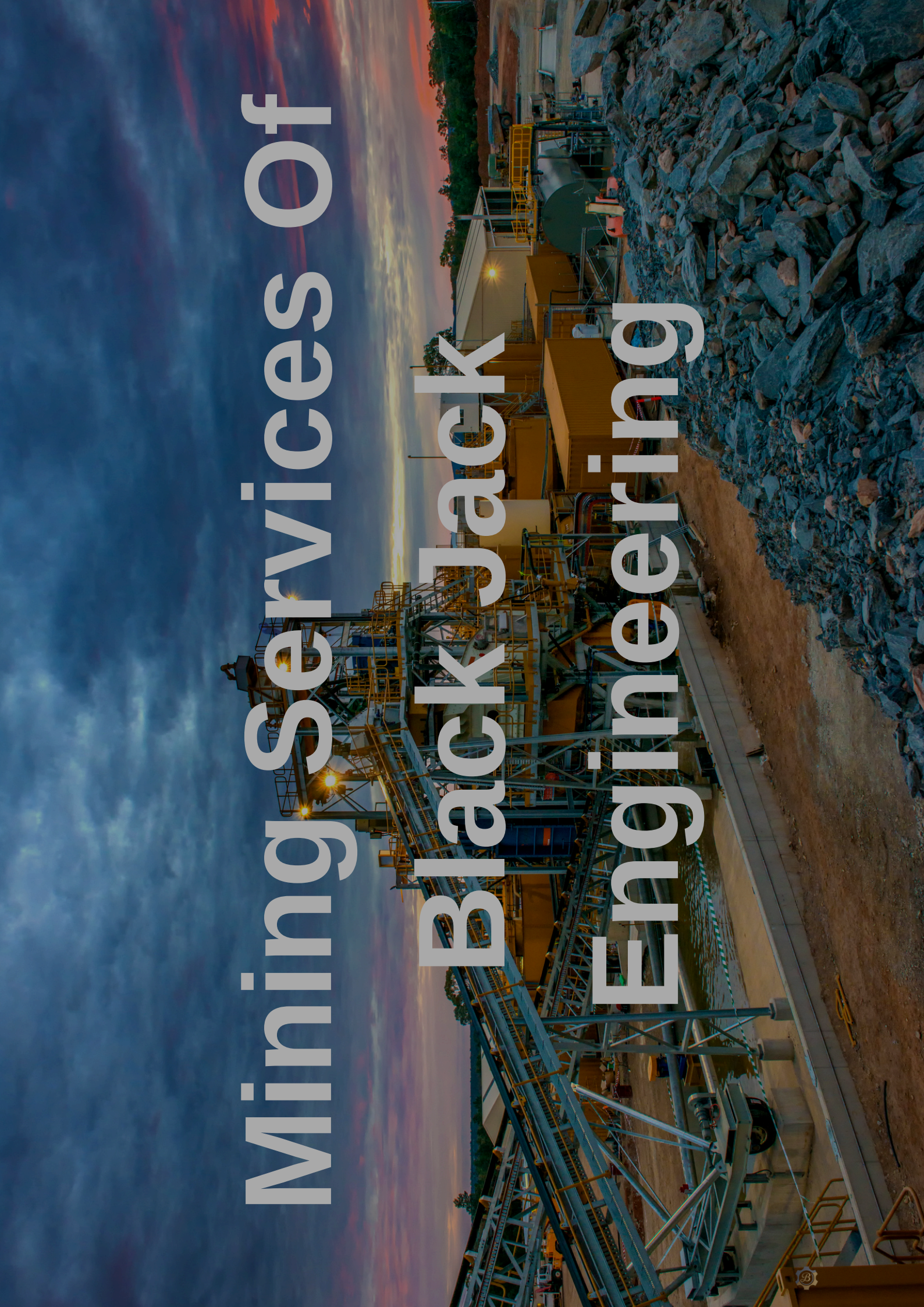
8. Plant Relocation

Services: Dismantling, relocating, and reinstalling industrial plants and machinery with minimal downtime.

9. Pump and Valve

Installation: Installation and alignment of pumps and valves for various industrial applications, ensuring proper flow and pressure.

Mining Services Of BlackJack Engineering





Mining Services

Black Jack Engineering provides specialized mining services, offering a wide range of solutions designed to support mining operations. From the supply of critical equipment to on-site maintenance and support, we ensure that our clients' operations run smoothly and efficiently. Our expertise in mining technologies and commitment to quality make us a trusted partner in the industry.

What sets us apart:

Comprehensive Equipment Supply: Supplying high-quality mining equipment and materials tailored to the needs of mining operations.

On-Site Support and Maintenance: Providing installation, maintenance, and repair services to keep machinery operating at peak performance.

Industry-Specific Expertise: Deep understanding of mining industry requirements, ensuring tailored solutions that meet operational demands.

Mine Site Infrastructure Development:

Construction and installation of essential infrastructure, including roads, buildings, and utilities.

Mining Equipment Maintenance and Repair:

Regular maintenance and repair services for mining machinery to minimize downtime and extend equipment life.

Drilling and Blasting Services:

Precision drilling and blasting for mineral extraction, ensuring safe and efficient operations.

Material Handling Systems:

Design and installation of conveyor systems, hoppers, and feeders for efficient material transportation.

Underground Mining Support:

Provision of underground services, including ventilation, ground support, and tunnel construction.

Mine Dewatering Solutions:

Installation and maintenance of dewatering systems to manage water levels and prevent flooding in mining operations.

Custom Fabrication for Mining Equipment:

Tailored fabrication of components and structures for mining equipment and facilities.

Crusher and Mill Maintenance:

Comprehensive maintenance and repair services for crushers, mills, and other processing equipment.

Heavy Equipment Relocation and Assembly:

Safe and efficient relocation, assembly, and installation of heavy mining equipment on-site.

PROJECT MANAGEMENT





PROJECT MANAGEMENT



At Black Jack Engineering, we offer comprehensive project management services to ensure the successful execution of engineering and construction projects. From planning to completion, our team provides strategic oversight and coordination, ensuring projects are delivered on time, within budget, and to the highest standards. Our approach focuses on minimizing risks and maximizing efficiency for optimal results.

What sets us apart:

End-to-End Management: Complete oversight from initial planning to project delivery, ensuring seamless execution.

Risk Mitigation: Proactive identification and management of potential risks to keep projects on track.

Client-Centric Approach: Tailored project management solutions that align with client goals, ensuring successful outcomes.

Project Planning and Scheduling:

Developing detailed project plans and timelines to ensure timely completion of all phases.

Resource Allocation and Management:

Efficient management of resources, including personnel, equipment, and materials, to meet project requirements.

Cost Management and Budgeting:

Monitoring and controlling project costs to ensure adherence to the budget and maximize return on investment.

Risk Management:

Identifying, assessing, and mitigating potential risks to minimize delays and disruptions.

Quality Control and Assurance:

Ensuring that all project deliverables meet quality standards through regular inspections and audits.

Stakeholder Communication:

Maintaining clear and transparent communication with all stakeholders to keep everyone informed and aligned with project goals.

Contract Management:

Overseeing the negotiation, execution, and management of contracts to ensure compliance and successful delivery.

Procurement Management:

Managing the procurement of materials, equipment, and services necessary for the project.

Change Management:

Handling project scope changes and ensuring smooth transitions when modifications are needed.



PETROLEUM



PETROLEUM SERVICES



Black Jack Engineering offers a full range of petroleum services, providing bulk fuel supply, oils, and lubricants for various industries. With our expertise in petroleum products, we ensure the reliable and efficient distribution of high-quality fuels and lubricants to meet our clients' operational needs. Our commitment to safety, quality, and environmental standards makes us a trusted partner in the petroleum industry.

What sets us apart:

Bulk Fuel Supply: Reliable and timely delivery of petroleum products, including petrol and diesel, in large quantities.

High-Quality Lubricants: Supplying industry-specific oils and lubricants to enhance machinery performance and longevity.

Safety and Compliance: Strict adherence to environmental regulations and safety standards in all petroleum operations.

1. Fuel Storage and Distribution Solutions

Design, installation, and maintenance of fuel storage tanks and distribution systems.

2. Pipeline Construction and Maintenance

Comprehensive services for the construction, inspection, and maintenance of petroleum pipelines.

3. Petroleum Equipment Fabrication

Custom fabrication of equipment for processing, including separators, heat exchangers, and pressure vessels.

4. Tank Cleaning and Maintenance

Professional cleaning and maintenance services for fuel storage tanks, ensuring safety and regulatory compliance.

5. Pump and Valve Services

Installation, repair, and maintenance of critical pumps and valves in petroleum operations.

6. Fuel Dispensing Systems

Design, installation, and calibration of fuel dispensing systems for both retail and commercial use.

7. Supply of Oils and Lubricants

Distribution and supply of high-quality oils and lubricants tailored to various industrial and automotive needs.

8. Pipeline Leak Detection and Repair

Advanced leak detection and repair services to minimize environmental impact and operational losses.

9. Custom Fuel Blending Services

Offering tailored fuel blending solutions to meet specific performance requirements for different applications.

IMPORT, EXPORT AND CLEARANCE & FORWARDING





IMPORT,EXPORT AND CLEARANCE & FORWARDING

Black Jack Engineering provides expert import, export, clearance, and forwarding services to ensure seamless global trade for our clients. We manage every aspect of logistics, from sourcing and procurement to customs clearance and transportation, ensuring timely and efficient delivery of goods across borders. Our deep understanding of international trade regulations and logistics enables us to offer tailored solutions that meet specific business needs.

What sets us apart:

Global Sourcing and Procurement: Efficient sourcing of products and materials from international markets, ensuring competitive pricing and timely delivery.

Customs Clearance Expertise: Handling all customs procedures and documentation to ensure smooth and compliant international transactions.

Freight Forwarding and Logistics: Comprehensive management of global transportation by air, sea, or road to ensure efficient delivery of goods.

Customs Clearance:

Efficient handling of customs documentation and clearance procedures to facilitate smooth import and export operations.

Freight Forwarding:

Comprehensive freight forwarding services, including air, sea, and land transportation, ensuring timely delivery of goods.

Import and Export

Documentation:

Preparation and management of all necessary import and export documents, ensuring compliance with international regulations.

Logistics and Supply Chain Management:

End-to-end logistics management, including warehousing, transportation, and inventory control.

Tariff Classification and Consulting:

Expert tariff classification and consulting services to optimize duties and taxes for importers and exporters.

Warehousing and Distribution:

Secure warehousing solutions with distribution services for efficient storage and delivery of goods.

Trade Compliance Services:

Ensuring compliance with international trade laws and regulations, minimizing the risk of delays and penalties.

Customs Brokerage Services:

Professional customs brokerage services to streamline the clearance process and expedite shipments.

Cargo Insurance:

Offering comprehensive cargo insurance options to protect goods against loss or damage during transit.



LOGISTICS



LOGISTIC SERVICES



Black Jack Engineering offers comprehensive logistics services, ensuring efficient transportation, storage, and distribution of goods across various industries. We provide end-to-end solutions that streamline supply chains, enhance operational efficiency, and guarantee timely deliveries. Our expertise in logistics management allows us to handle both domestic and international shipments with precision and reliability.

What sets us apart:

End-to-End Supply Chain Solutions: From transportation to warehousing, we provide complete logistics services tailored to client needs.

Timely and Efficient Delivery: Ensuring that goods are delivered on schedule with optimized routes and reliable transportation networks.

Custom Solutions: Tailoring logistics strategies to specific industry requirements, ensuring cost-efficiency and effectiveness.

1. Transportation Management:

Coordination of road, rail, air, and sea transportation to ensure timely and cost-effective delivery of goods.

2. Warehousing Solutions:

Secure and strategically located warehousing facilities for short-term and long-term storage needs.

3. Inventory Management:

Real-time tracking and management of inventory to ensure optimal stock levels and reduce excess.

4. Supply Chain Optimization:

End-to-end supply chain management to streamline processes, reduce costs, and improve efficiency.

5. Last-Mile Delivery Services:

Efficient last-mile delivery solutions to ensure goods reach their final destination on time.

6. Freight Consolidation:

Combining shipments to reduce transportation costs and improve delivery times.

7. Customs Clearance and Documentation:

Handling all customs documentation and clearance processes to ensure smooth cross-border shipping.

8. Reverse Logistics:

Management of returns, recycling, and disposal of goods to minimize waste and maximize resource recovery.

9. Cold Chain Logistics:

Temperature-controlled logistics solutions for the safe transport and storage of perishable goods.

WE STRONGLY BELIEVE THAT OUR CONTINUED SUCCESSES CAN BE ATTRIBUTED TO THE IMPLEMENTATION AND EXECUTION OF THE FOUR PROJECT MANAGEMENT LIFE CYCLES THAT WE ADHERE TO:



1. INITIATION PHASE

Initiation involves starting up the project by documenting a business case, defining its purpose & scope, appointing the team and Setting up a project office.



2. PLANNING PHASE

Planning involves setting out the road-map for the project by creating the following plans: project, plan, resources plan, Financial plan, quality plan and communication plan.



3. EXECUTION

Execution involves building the deliverables and controlling the project delivery, scope, safety, costs, quality, risk and issues.



4. CLOSE OUT PHASE

Closure involves winding down the project by releasing staff, handing over deliverables to the customer and complete a post Implementation review.



PRINCIPAL CLIENTS

Our esteemed clients at Black Jack Engineering, we pride ourselves on delivering exceptional engineering solutions to a diverse range of industries. Our commitment to quality and innovation has earned us the trust of numerous reputable clients. We have had the privilege of working with:



CLIENT

Our partnership with Harmony Gold has been marked by innovation and excellence. We started by supplying high-quality lubricants, then expanded to provide durable pipes and essential tools. Our commitment grew as we manufactured and supplied robust steel pipes and precision-engineered drilling rods, crucial for their operations. Each project reflects our dedication to quality and reliability, solidifying a successful partnership. Our partnership with Harmony Gold has been marked by innovation and excellence. We started by supplying high-quality lubricants, then expanded to provide durable pipes and essential tools. Our commitment grew as we manufactured and supplied robust steel pipes and precision-engineered drilling rods, crucial for their operations. Each project reflects our dedication to quality and reliability, solidifying a successful partnership.

CLIENT

our collaboration with ARMSCOR has been both diverse and impactful. We've proudly manufactured camouflage material fabric for the SA Army, supplied precision pressure gauges, crafted submarine spare parts, and refurbished military vehicles. Each project underscores our commitment to supporting national defense with high-quality, reliable engineering solutions, solidifying a partnership built on excellence and trust. Each project reflects our dedication to quality and reliability, solidifying a successful partnership.

CLIENT

Black Jack Engineering has had a productive and mutually beneficial relationship with Metal Benders. We have consistently supported them by supplying high-quality CNC milling and turning services. Our collaboration has enabled us to deliver precision-engineered products across a wide range of specifications, meeting the rigorous standards required by Metal Benders. This partnership highlights our commitment to excellence and our capability to handle complex machining tasks, ensuring customer satisfaction with every project.

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Black Jack
ENGINEERING & LOGISTICS



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