

# COMPANY PROFILE

**DAVE**

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# COMPANY INTRODUCTION

*BG Industrial is a leading provider of mining and engineering solutions, dedicated to delivering excellence and innovation in every project we undertake. With over 31 years of industry experience, we have built a solid reputation for providing comprehensive mining services, engineering expertise, and 24/7 availability to clients across various sectors, including mining, processing, and infrastructure development.*

*BG Industrial carries the largest stock of new and used pre-assembled gear units and motors in South Africa.*

*Our other products include VSD's, hydraulic pumps and power-packs and a large variety of transmission products including bearings, oil seals, sprockets & chains, v-belts and pulleys and couplings.*

*With a reputation of being the widest stock carriers of off the shelf products and on call 24/7 to assist with any breakdowns, furthermore we have a fully operational workshop to assist with fabrication and engineering.*

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# GEARDRIVES

*BG Industrial is a leading provider of industrial gear drives for various applications across different industries such as:*

- Manufacturing*
- Mining & Minerals*
- Construction & Infrastructure*
- Agricultural*
- Food & Beverage*

## OUR PRODUCT RANGE

*We offer a wide range of industrial gearboxes, each designed to deliver optimal performance and durability. Our product range includes:*

- Helical Gearboxes: This type of gearbox offers high torque, efficiency, and compact design, making it suitable for various applications.*
- Bevel Gearboxes: Bevel gearboxes transmit power at an angle, allowing for efficient power transmission in applications that involve changing directions.*
- Worm Gearboxes: These gearboxes provide high gear ratios and are ideal for applications with low speed and high-torque requirements.*
- Planetary Gearboxes: Planetary gearboxes offer high torque density, precision, and versatility, making them suitable for demanding applications.*
- Customized Solutions: We also offer customized gearbox solutions, tailored to the specific requirements of our customers.*

## QUALITY & SERVICE

*At BG Industrial, quality and service are our priority. We adhere to strict quality control standards, ensuring that each gear unit meets the highest standards of reliability, performance, and durability. We use premium brands, assembling measures and rigorous testing procedures to ensure the quality and longevity of our gear units*



# ELECTRICAL MOTORS

*BG Industrial is a leading importer and supplier of high-quality electrical motors for various applications. With a strong focus on performance, efficiency, and reliability, we strive to deliver premium quality motors that meet the evolving needs of our customers.*

*Typical motor applications include:*

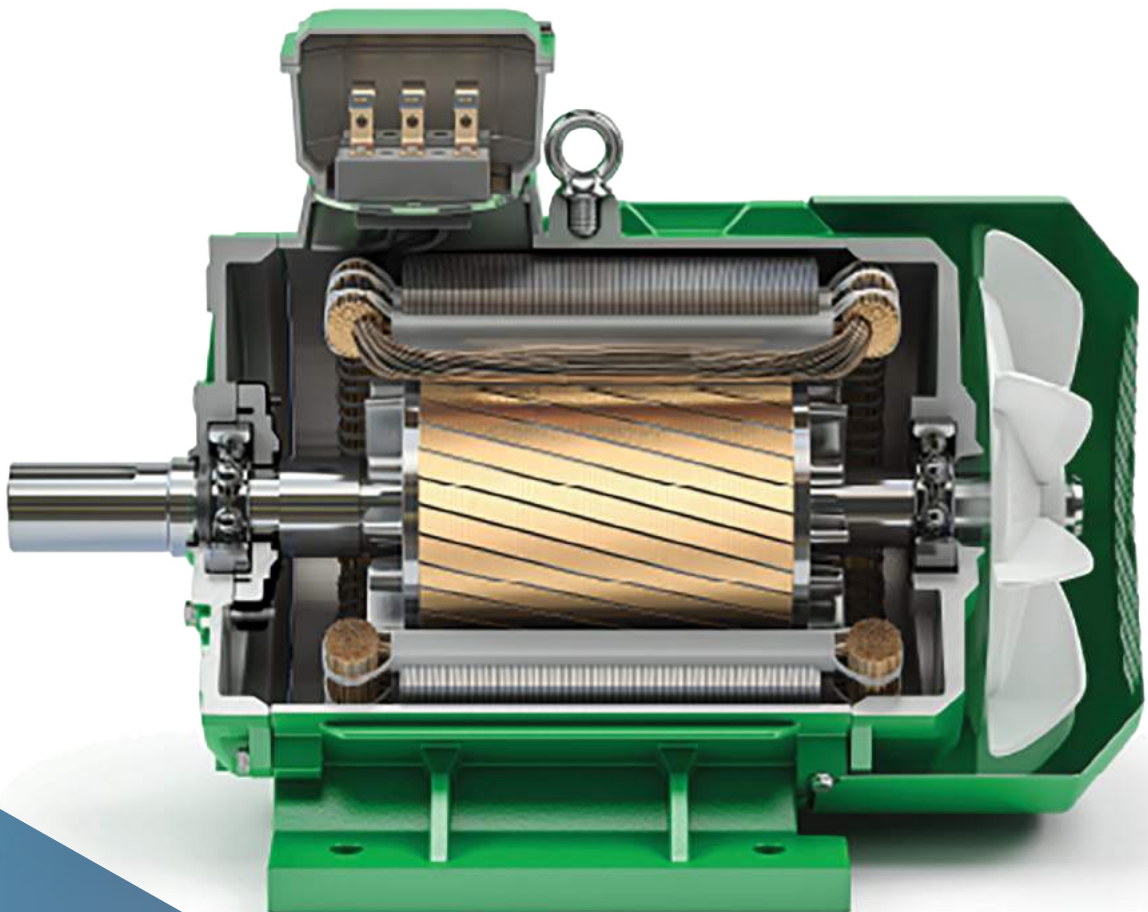
*Industrial Manufacturing: Our motors are widely used in industrial machinery and equipment, including conveyor, pumps, fans, compressors and more.*

*HVAC: Our motors are used in heating, ventilation, and air-cooling systems, ensuring efficient operation and climate control.*

*We offer a comprehensive range of electrical motors, designed to deliver superior performance, energy efficiency and reliability.*

## OUR PRODUCT RANGE INCLUDES:

- AC Motors
  - DC Motors
  - Servo Motors
  - Gear Motors
  - Vibratory Motors



# VSD'S & SOFTSTARTS

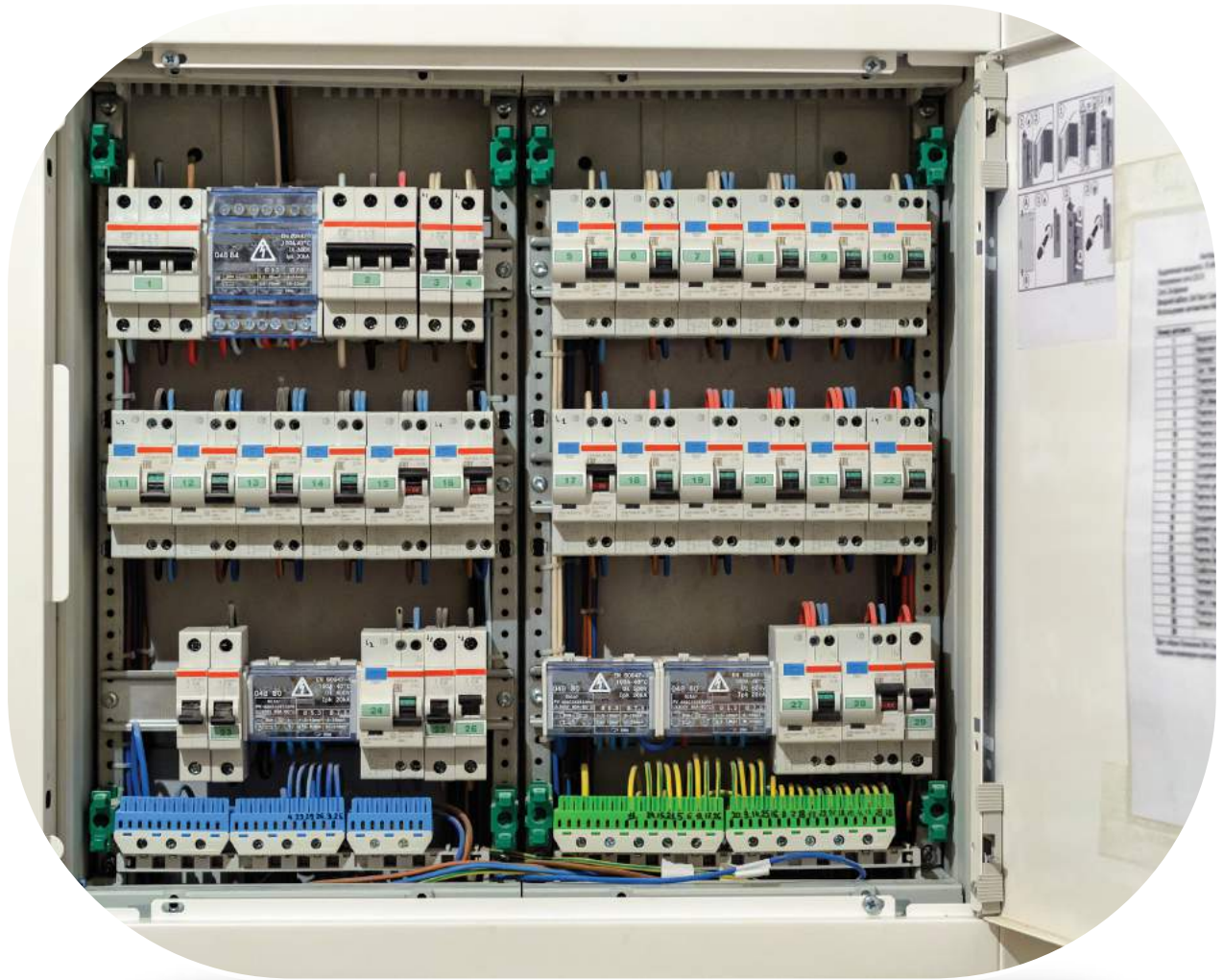
*Variable Speed Drives, also known as VSD's, are electronic devices used to control the speed of electric motors. They adjust the motor's voltage and frequency to vary the motor speed as needed. VSD's offer several benefits, including energy savings, precise control, reduced wear and tear on equipment and improved process efficiency.*

## KEY FEATURES & BENEFITS OF OUR VSD'S

- *Energy Efficiency*
  - *Precise Control*
    - *Smooth Start & Stop*
      - *Protection & Safety*
        - *Remote Monitoring & Control*

## KEY FEATURES & BENEFITS OF OUR SOFT STARTERS:

- *Reduced Inrush Current*
  - *Smooth Motor Control*
    - *Protection & Safety*
      - *Easy Installation & Operation*
        - *Cost-Effective Solution*



# PUMPS

BG Industrial specializes in the design, sourcing, and supply of high-quality industrial pumps. We understand the critical role that pumps play in various industries, and our products are specifically engineered to meet the demanding requirements of industrial applications.

## TYPES OF INDUSTRIAL PUMPS WE OFFER

We offer a wide range of industrial pumps, including:

- **Centrifugal Pumps:** These pumps use centrifugal force to generate the required pressure for fluid transfer. They are efficient and widely used in industries such as water treatment, chemical processing, oil and gas and power generation.
- **Positive Displacement Pumps:** These pumps use rotating or reciprocating mechanisms to displace a fixed amount of fluid with each stroke. They are suitable for handling viscous or abrasive fluids and find applications in industries such as food processing, pharmaceuticals, and wastewater treatment.
- **Submersible Pumps:** These pumps are designed to operate underwater or in submerged conditions. They are commonly used in applications like wastewater drainage, deep well water extraction, and aqua culture.
- **Diaphragm Pumps:** These pumps use a flexible diaphragm to pump fluids. They are self-priming, capable of handling solids and corrosive fluids, and find applications in chemical processing, mining and food and beverage industries.
- **Gear Pumps:** These pumps use gears to transfer fluids. They are commonly used for high-pressure applications and in industries such as lubrication systems, hydraulic systems, and fuel transfer.

## KEY FEATURES & BENEFITS

- **Durability and Reliability:** Our pumps are built to withstand harsh operating conditions and heavy-duty use. We use high-quality materials and precise manufacturing processes to ensure durability and reliability of our pumps.
- **Efficiency and Performance:** Our pumps are designed for efficient fluid transfer, maximizing productivity, and reducing energy consumption. They offer high flow rates, optimal pressure capabilities, and reliable performance.
- **Versatility:** Our industrial pumps are versatile and can handle a wide range of fluids, including corrosive, abrasive, and viscous substances. We offer different pump materials and configurations to meet specific application requirements.
- **Advanced Control and Monitoring:** We incorporate advanced control and monitoring features in our pumps to ensure safe and optimal operation. These features include variable speed options, motor protection, remote monitoring, and fault diagnostics.

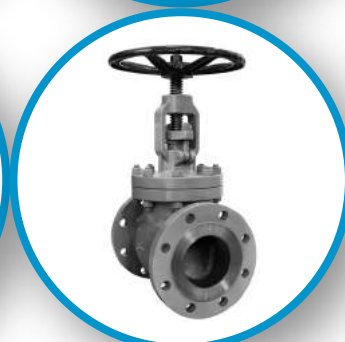
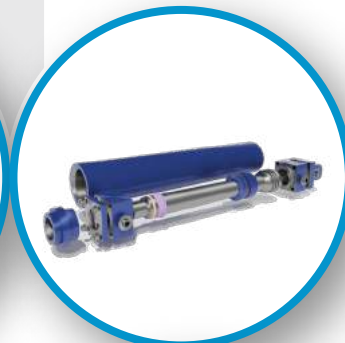


# HYDRAULICS & PNEUMATICS

## HYDRAULICS

Hydraulic systems use fluid power to transmit and control mechanical force. They are widely used in industries such as construction, manufacturing, mining and transportation. Our hydraulics offerings include:

- **Hydraulic pumps:** We provide a variety of hydraulic pumps that generate hydraulic pressure to drive various hydraulic components. These pumps are available in different types, including gear pumps, vane pumps, and piston pumps.
- **Hydraulic cylinders:** Our hydraulic cylinders convert hydraulic energy into linear force and motion. We offer a range of hydraulic cylinders suitable for different applications, including single-acting, double-acting, telescopic, and custom-designed cylinders.
- **Valves & control systems:** We supply a wide range of hydraulic valves, including directional control valves, flow control valves, pressure control valves, and proportional valves. These valves play a crucial role in controlling the flow, pressure, and direction of hydraulic fluid.
- **Hydraulic hoses & fittings:** We provide high-quality hydraulic hoses and fittings that ensure reliable and leak-free connections within hydraulic systems. These hoses and fittings are designed to handle high-pressure applications and are available in a variety of sizes and configurations.



## PNEUMATICS

*Pneumatics systems utilize compressed air or gases to transmit and control energy. They are widely used in industries such as manufacturing, automotive, packaging, and material handling. Our pneumatic offerings include:*

- **Air compressors:** *We offer a range of air compressors that provide a constant supply of compressed air for pneumatic systems. These compressors are available in different sizes and power ratings to meet various pneumatic requirements.*
- **Pneumatic actuators:** *Our pneumatic actuators convert the energy of compressed air into rotary or linear motion. We supply a variety of actuators, including pneumatic cylinders, rotary actuators, and grippers, to suit different applications.*
- **Pneumatic valves:** *We provide pneumatic valves that control the flow, pressure, and direction of compressed air in pneumatic systems. These valves include directional control valves, solenoid valves, pressure control valves, and flow control valves.*
- **Pneumatic fittings and tubing:** *We offer a wide range of pneumatic fittings and tubing that ensure secure connections and efficient air flow within pneumatic systems. These fittings and tubing are available in different materials, sizes, and configurations.*



# TRANSMISSION PRODUCTS

At BG Industrial, we specialize in providing high-quality industrial transmission products that enable efficient power transmission in various industries. We understand the importance of reliable and robust transmission systems in optimizing operational efficiency. Our range of industrial transmission products includes:

## COUPLINGS

Couplings are essential in connecting two shafts to transmit power while compensating for misalignments and accommodating shock loads. Our coupling offerings include:

- *Flexible Couplings*
- *Rigid Couplings*
- *Fluid Couplings*

## CHAINS & SPROCKETS

Chains and sprockets are widely used for power transmission in various industries, offering high durability and efficiency. Our chain and sprocket offerings include:

- *Roller Chains:* We supply roller chains that are suitable for a wide range of applications, such as conveying, lifting, and power transmission. These chains are built to withstand heavy loads and provide reliable performance.
- *Sprockets:* Our sprockets are designed to work in conjunction with roller chains, ensuring smooth power transmission. They are available in various sizes, materials, and tooth configurations to meet specific application requirements.

## V BELTS & PULLEYS

V belts and pulleys are essential components in power transmission systems used to transfer rotational motion and power between two shafts. Here's some information about them:

- *V Belts:* V belts, also known as V-belts or Vee belts, are flexible rubber or synthetic belts with a trapezoidal cross-section. They are designed to fit into V-shaped grooves on pulleys. V belts are commonly used for transmitting power in industrial machinery, automotive engines, and other mechanical systems. They offer high efficiency, reliability, and are suitable for high-speed applications.
- *Pulleys:* Pulleys are wheels with a grooved rim that provides a surface for the V belt to ride in. They can be fixed or adjustable and are mounted on shafts. When the V belt wraps around the pulley, it creates friction, allowing the pulley to rotate and transfer power from the driving shaft to the driven shaft.

# TRANSMISSION PRODUCTS

## BEARINGS

*Bearings are mechanical components used to reduce friction between moving parts in various industrial applications. They enable smooth rotation or movement and support heavy loads. There are different types of bearings, including ball bearings, roller bearings, and plain bearings, each suited for specific tasks and conditions.*

*Some of the most common ones include:*

**Ball Bearings:** *These bearings use balls to reduce friction and allow for smooth rotation. They are suitable for moderate to high radial and axial loads.*

**Roller Bearings:** *Roller bearings use cylindrical or tapered rollers to distribute loads. They can handle heavier loads and are commonly used in heavy machinery.*

**Thrust Bearings:** *These bearings are designed to handle axial loads and prevent axial movement. They come in various configurations, including ball and roller thrust bearings.*

**Plain Bearings (Sleeve Bearings):** *Plain bearings have a simple design with a sliding surface to reduce friction between two surfaces. They are often used in low-speed applications.*

**Spherical Bearings:** *These bearings have a spherical inner and outer raceway, allowing them to accommodate misalignment and angular movements.*

**Needle Bearings:** *Needle bearings use long, thin rollers to provide high radial load capacity in a limited space.*

**Tapered Roller Bearings:** *Tapered roller bearings can handle both radial and axial loads due to their tapered design.*

**Ceramic Bearings:** *Ceramic bearings use ceramic balls or races, providing higher speed and corrosion resistance compared to traditional steel bearings.*



# OILS & LUBRICATIONS

*Oils and Lubrications play a crucial role in various industries, ensuring the smooth operation and longevity of machinery and equipment.*

**Lubricating Oils:** *Used to reduce friction and wear between moving parts in machinery and engines. They come in different viscosities, which determine their thickness and flow characteristics.*

*Common types include motor oils for automotive engines, gear oils for transmissions, and hydraulic oils for hydraulic systems.*

**Industrial Lubricants:** *Industrial lubricants are specifically formulated for various industrial applications, such as manufacturing equipment, heavy machinery, and specialized industrial processes. They are designed to withstand high loads, extreme temperatures, and harsh operating conditions.*

**Greases:** *semi-solid lubricants consisting of a base oil and a thickening agent. They provide long-lasting lubrication and are suitable for applications where oils might not stay in place or where additional protection is needed against contaminants.*

**Synthetic Lubricants:** *Synthetic lubricants are artificially made oils that offer superior performance compared to conventional mineral-based oils. They have better resistance to high temperatures, oxidation, and can extend maintenance intervals.*

**Food-Grade Lubricants:** *Food-grade lubricants are specially formulated to be used in food processing and packaging equipment, where incidental contact with food is possible. They must meet specific safety standards and regulations.*

*When choosing oils and lubricants for specific applications, factors like operating conditions, temperature, load, and compatibility with materials must be considered. The staff at BG Industrial are here to assist you in selecting the right oils and lubricants for your specific needs.*



# SITE WORK & ENGINEERING WORKS

*With a commitment to excellence and a team of skilled professionals, we provide a comprehensive range of engineering services tailored to meet your specific needs.*

## **Our Workshop Services:**

*At BG Industrial, our engineering workshop is equipped with advanced machinery and tools to handle a wide array of projects. From precision machining and fabrication to welding and assembly, we take pride in delivering top-quality products with utmost precision and attention to detail.*

## **Key Workshop Capabilities**

- *Fabrication: With a team of experienced fabricators, we can create custom structures and assemblies to meet the most challenging project requirements.*
- *Welding: Our certified welders excel in various welding techniques, ensuring strong and durable welds for diverse applications.*
- *Prototyping: We understand the importance of prototyping for product development. Our workshop enables rapid prototyping to bring your ideas to life.*

## **On-Site Work:**

*Beyond our workshop, our skilled engineering team is well-equipped to handle on-site projects across various industries. Whether it's construction, installation, maintenance, or repair work, we are your reliable partner for efficient and safe execution.*

## **Key On-Site Services**

- *Installation: Our experienced technicians ensure the seamless and precise installation of machinery, equipment, and structures.*
- *Maintenance and Repairs: We offer comprehensive maintenance and repair services to keep your assets running smoothly and reduce downtime.*
- *Site Welding: Our mobile welding services enable us to perform on-site welding and fabrication with the same level of quality as in our workshop.*
- *Equipment Overhauls: We specialize in overhauling and refurbishing equipment, extending their operational life and optimizing performance.*

## **Industries We Serve:**

*Our expertise extends to various industries, including construction, manufacturing, oil and gas, mining, and infrastructure development.*

## **Services We Offer Include:**

- Conveyors -Crushers -Screens -Ball Mills -Line Boring -Bearing Installations
- Vibration & Heating Analysis -Laser Alignment -Belt Splicing

# CONVEYOR SYSTEMS

*At BG Industrial offers a diverse selection of conveyor systems that are engineered for efficiency, reliability, and safety. Whether you require belt conveyors, roller conveyors, chain conveyors, or custom-designed solutions, our conveyors are built to meet your unique needs and seamlessly integrate into your production processes.*

## **Key Features of our Conveyors:**

- Precision Engineering: Our conveyors are precision-engineered using the latest technologies, ensuring smooth and reliable material handling operations.*
- Customization: We understand that each industry and application have specific requirements. Our expert team can tailor conveyor systems to match your exact specifications and industry standards.*
- Durability: Constructed from robust materials, our conveyors are designed for long-lasting performance, even in demanding environments.*
- Safety: Safety is a top priority at BG Industrial. Our conveyors are equipped with safety features and designed to comply with industry regulations, ensuring a secure working environment.*

## **Components and Accessories**

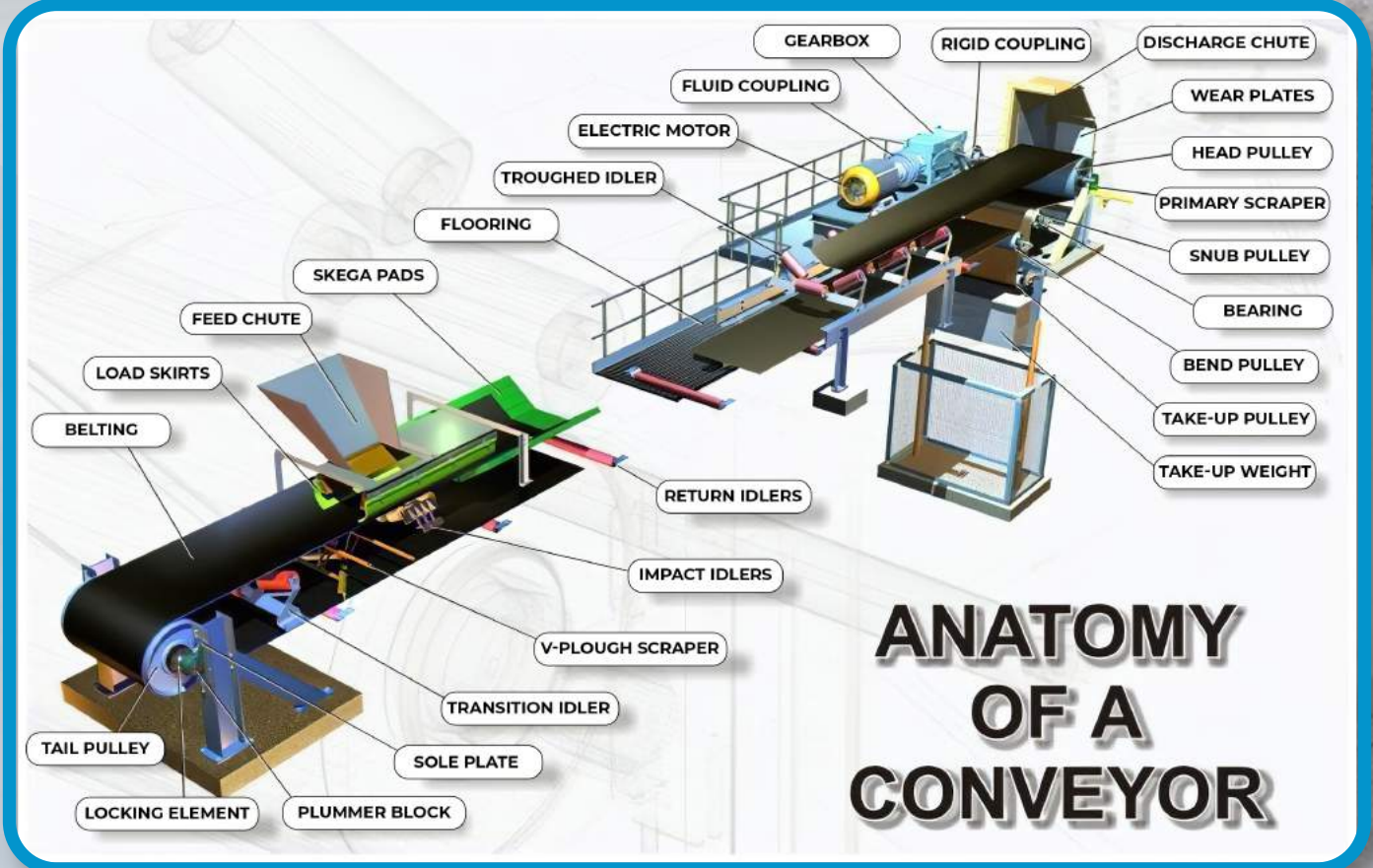
*In addition to complete conveyor systems, we also offer a comprehensive range of conveyor components and accessories. From conveyor belts and rollers to pulleys, idlers, and bearings, our high-quality components are designed to enhance the efficiency and performance of your conveyor systems.*

## **Our Commitment to Customer Satisfaction**

*Our customers are at the heart of everything we do. We take pride in delivering top-notch products and exceptional customer service. Our dedicated team is always ready to assist you with technical support, product selection, and after-sales service.*

## **Industries We Serve**

*Over the years, our conveyor solutions have been successfully utilized in various industries, including manufacturing, food processing, packaging, mining, logistics, and many others. No matter the size or complexity of your project, we have the expertise to provide reliable solutions that meet your operational needs.*



# MISSION STATEMENT

*Our mission is to be a leading provider of transmission and-engineering solutions, empowering industries nationwide with exceptional reliability, innovation, and expertise. We are committed to delivering superior products and services that optimize the performance and efficiency our customers' machinery and equipment. By fostering a culture of continuous improvement, customer centricity, and environmental responsibility, we aim to create long-lasting partnerships and positively impact our local industrial landscape. Our unwavering dedication to quality, service and dedication drives us to exceed expectations and set new standards in the industrial and engineering industry.*

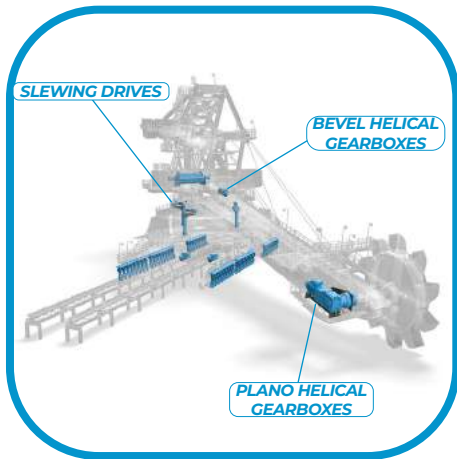
*Together with our passionate, committed team, and progressive values, we strive to drive progress, enhance sustainability, and propel the success of our customers.*



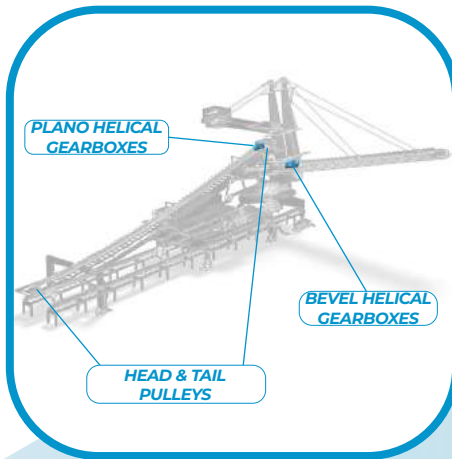
# PROJECTS

- Hydraulic Power Pack Services
- Crusher Services & Supplies
- Feeder Services & Supplies
- Screen Services & Supplies
- Mill Services & Supplies
- Agitator & Mixer Installation & Repairs
- Automation & Drive Support
- Conveyor Repairs & Supplies
- Pump Services & Supplies
- Line Boring

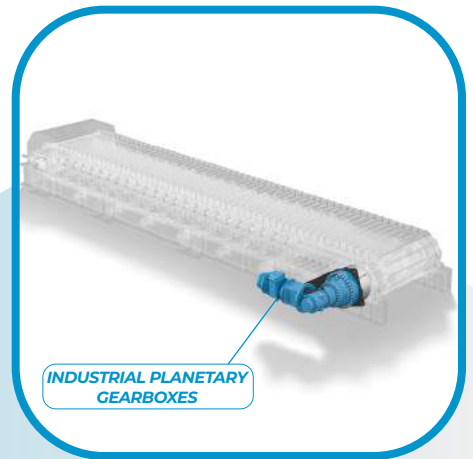
**STACKER RECLAIMERS**



**CONVEYOR SYSTEMS**



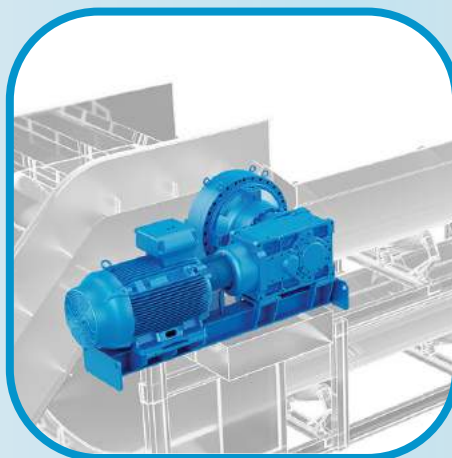
**APRON FEEDERS**



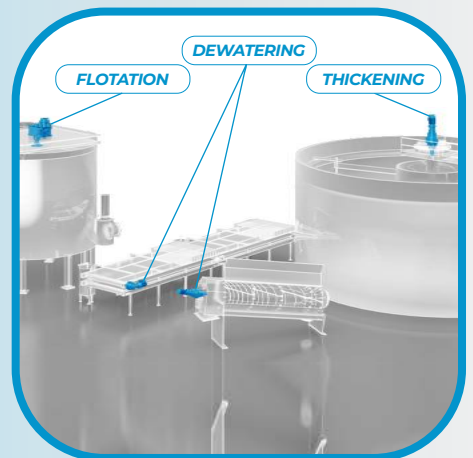
**CRUSHERS**



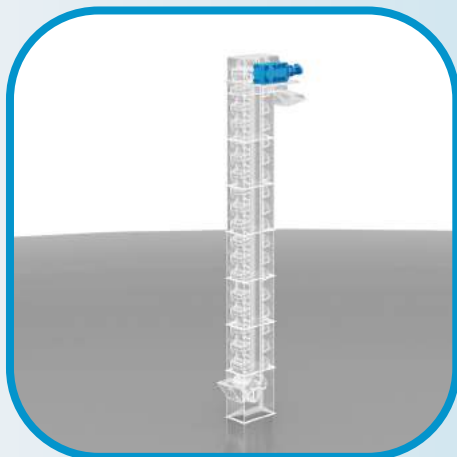
**FEEDERS**



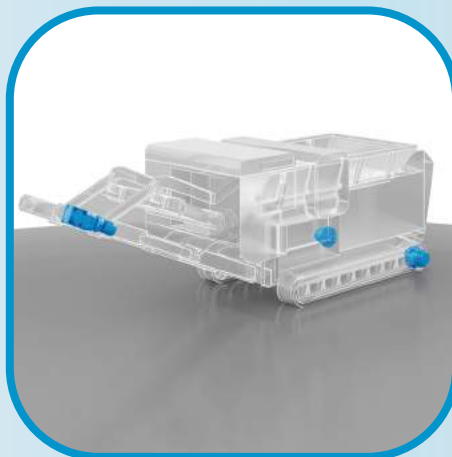
**SLURRY PROCESSES**



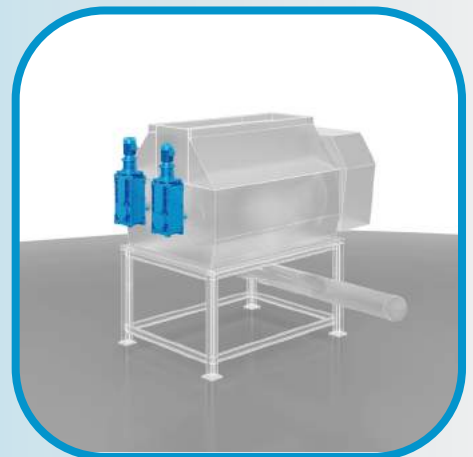
**BUCKET ELEVATORS**



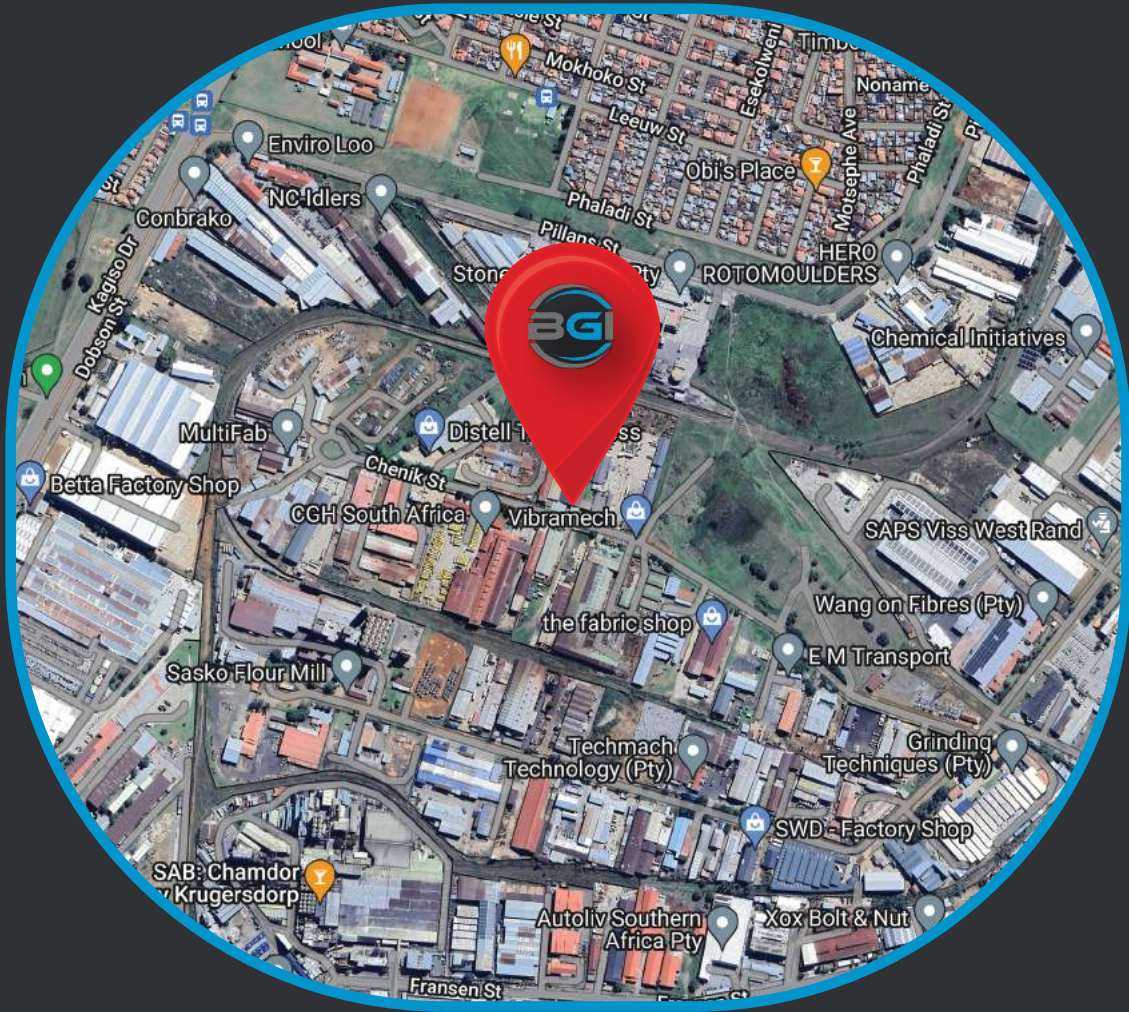
**JAW CRUSHERS**



**MILLING SOLUTIONS**







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