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International Mining, Equipment & Minerals Exhibition

November 6-9, 2023 | EcoPark, Rajarhat, Kolkata

— CONCURRENT WITH ——



10th Asian Mining Congress

Taj Taal Kutir Convention Centre, Kolkata, India Theme: Roadmap for Best Mining Practices vis-à-vis Global Transformation







Message

Best Wishes!



P. M. Prasad Chairman-Cum-Managing Director Coal India Ltd.



The sharp focus of mining sector across the globe is now on the best mining practices and the transformation process. To name few crucial attributes that make mining more sustainable are eco-friendly equipment, reusing mining waste, rehabilitating mining sites, improving mining sustainability and restore land to its best possible natural state. This assumes greater significance for coal mining sector with added emphasis on lowering carbon emissions and coping with transition to renewable energy.

Aptly, this year's theme of '10th Asian Mining Congress concurrent with International Mining, Equipment and Minerals Exhibition' scheduled to be organized by TAFCON in association with MGMI from 6 to 9 November 2023 at Kolkata is "Roadmap for Best Mining Practices vis-d-vis Global Transformation".

I truly appreciate the efforts undertaken by the two entities - TAFCON and MGMI - over past many years in conducting seminars, workshops and exhibitions in the interest of the mining community with global participation of experts, academicians, scientists, policy makers, equipment manufacturers, tech consultants and allied stakeholders. These event have been hugely successful with many technical papers presented.

I am sure this year's Congress-cum-Exhibition will witness similar success with even greater participation.



(P. M. Prasad)

Online Visitor Registration Now Open Please Register your Visit: www.miningexpoindia.com

MUST ATTEND India's Largest Mining Business Platform

4 Exhibition Overview

- 10th in the Series IME 2023 is a leading institutionalized biennial international exhibition of the Mining, Minerals and Machinery industries in India.
- Concurrent "Buyer Seller Meet" during Exhibition having presentations from Major Industry Players from the Industry.
- An Ideal Platform for display and launches of new initiatives, machinery products and technologies, establishing joint ventures, developing and renewing international and regional contacts.
- High Level Trade Delegations and Country Level Group Participation expected from Australia, Canada, China, Czech Republic, Germany, Iran, Poland, Russia, Turkey, UK and USA.
- Large participation of leading Mining Equipment & Machinery Manufacturers expected from Asia, Africa, America and Europe.
- Participation of Minerals Rich India States and PSU's, Large Corporates and Small and Medium Organisations.

Concurrent Congress

- The 10th Asian Mining Congress (AMC) will be organised by The Mining, Geological & Metallurgical Institute of India (MGMI). The Congress will provide a forum to promote and advance technoscientific cooperation towards national and international progress in the areas of mineral production, in addition to the development of new opportunities of sustainable business that will benefit both Asian and global communities.
- The Congress aims at global participation of practicing engineers, managers, planners, policy makers, equipment manufacturers, technology consultants, engineering companies, regulators, scientists, academicians and other mining professionals to interact on various issues of the mining, mineral & allied industries. All major mineral producing countries are expected to present country status papers.
- Eminent Speakers from India and abroad will debate, deliberate and exchange views on the key issues Over 600 delegates are expected to participate from over 20 countries (full details in separate brochure of MGMI).

PATRON



Amrit Lal Meena, IAS Secretary, Ministry of Coal Government of India



Dr. Samir V. Kamat Secretary, Department of Defence R&D & Chairman, DRDO Government of India





P. M. Prasad Chairman-Cum-Managing Director Coal India Ltd.



Dr. B Veera Reddy Director (T), Coal India Ltd.

Chairman, IME 2023

Bhola Singh CMD, Northern Coalfields Ltd. Chairman, AMC 2023



Manoj Kumar CMD, CMPDI

Congress Lead Topics / Sub-Themes:

- Cutting Edge Exploration and Drilling Technologies.
- Challenges in deep Opencast, Highwall, Offshore and Placer Mining.
- Transition from Opencast to Underground mining.
- Mass Production Technologies in deep underground mines.
- Application of Artificial Intelligence, Machine Learning, Data Analytics in Mine Automation.
- Advancement in Explosives and Blasting Techniques.
- Extraction and utilisation of Critical Minerals and Rare Earth Elements.
- Application of Information and Communication Technology (ICT) in Smart Mining.
- Innovations in Oil and Gas Industry.
- Advancement in Mineral, Coal Processing and Extractive Metallurgy towards zero waste mining.

- Prospects of CBM/CMM, Shale gas and Gas Hydrate.
- · Prospect of Coal Gasification and Coal to Liquid.
- Changes in Mining Legislations and policies.
- The Pathways for Coal Transition and Net Zero Emission.
- Environmental and Safety aspects in Mining, Oil & Gas industries.
- Strategies and Opportunities for Investments, Merger and Acquisition in Mineral Sector.
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Expected Participation:

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Mon. 6th - Thu. 9th November 2023

EcoPark, Rajarhat, Kolkata, India

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- Techflow Enterprises Pvt. Ltd.
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- Terre Armee India
- TEXMiN, IIT(ISM) Dhanbad
- Thco. India Pvt. Ltd.
- The West Bengal Power Development Corporation Ltd.
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YCUBE Engineered Solutions Pvt. Ltd.

· West Bengal Mineral Development & Trading Corporation Ltd.

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6

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Enabling an Intelligent Planet

global leader in the fields of IoT intelligent systems and embedded platforms. To embrace the trends of IoT, big data, and artificial intelligence, Advantech promotes IoT hardware and software solutions with the Edge Intelligence WISE-PaaS core to assist business partners and clients in connecting their industrial chains. Advantech is also working with business partners to cocreate business ecosystems that accelerate the goal of industrial intelligence. Advantech's Digital Logistics solutions help companies optimize their supply chain operations and achieve greater efficiency and cost-effectiveness. With a comprehensive portfolio of hardware and software solutions, including IoTenabled devices, edge computing platforms, and cloud-based applications, Advantech offers end-to-end solutions for logistics management, warehouse automation, fleet management, mining, ports and cold chain solutions. These solutions provide real-time data insights, predictive analytics, and automated workflows to streamline operations, improve inventory management, enhance visibility and traceability, and reduce overall costs. Advantech's Digital Logistics solutions are designed to meet the evolving needs of the logistics industry and empower companies to adapt to new challenges and opportunities in the digital age.

TREK-773 is a next-generation, all-in-one 7" mobile data terminal. Equipped with an Intel® Atom™ E3827 SOC, TREK-773 offers high-performance computing with wired connections such as Gigabit Ethernet, CAN2.0B (J1939, OBD-II/ISO 15765), and J1708 (J1587). The integrated LTE (backwards compatible with CDMA/HSDPA), GPS, WLAN, and



Bluetooth communication interfaces ensure connectivity and real-time data transmissions. Aimed at the automotive market, TREK-773 is compatible with 12/24 V vehicle power and compliant with ISO7637-2 & SAE J1113, ensuring system operation during engine starts.

The DLT-V83 series are rugged vehicle-mounted terminals designed to increase productivity and maximize system uptime for logistics applications. Powered by an Intel® Core™ i5/ Celeron® processor, DLT-V83 terminals

support a wide operating temperature range (-30 ~ 50 °C/-22 ~ 122 °F) to withstand operation in extreme industrial environments (from hot and humid, to dry freezer environments). Deployment of this series ensures data integrity and integration across all logistics operations. Furthermore, the high system configurability, connectivity, and interface diversity allows the terminals to be easily customized to support specification application requirements.

Trek 60 modular AI Platform for Scalable Surveillance and Fleet Management. Equipped with DeviceOn/iService software for remote device management. Scalable computing performance via CPU boards for specific application requirements. Rugged platform with





automotive-grade shock and vibration tolerance, wide operating temperature, and wide power input range for harsh environments

PWS-872 is an industrial-grade tablet equipped with an Intel® Core[™] i3/i5/i7/Celeron® processor, 10.1" WUXGA LED display with multi-touch PCAP control, mSATA SATA III SSD storage, multiple I/O, and Wi-Fi (802.11 a/b/g/n/ac), NFC, 3G/4G LTE, and Bluetooth 4.1 communication technologies. The built-in front (2M) and rear (8M) cameras, 1D/2D barcode scanner, and NFC reader provide convenient data collection tools, and the high-brightness sunlight-readable



display supports outdoor applications. For mobile field-service applications, PWS-872 can be integrated with a hot-swappable external battery that supports up to 11 hours operation to enable long-duration use. Designed for harsh environments.

AIM-75S 8" Industrial-Grade Tablet with Qualcomm® Snapdragon[™] 660 Processor, Android 10 with GMS. Certified for Google Mobile Services for downloading apps and APIs.8" LCD with 400-nit brightness, 1920 x 1200 resolution. Corning® Gorilla® Glass 3 touchscreen supports gloved and stylus operation. IP65-rated protection from water and dust and 4-ft drop tolerance. LTE, WLAN, Bluetooth, NFC, and GfS capabilities. Optional peripherals include 1D/2D barcode scanner, LAN+COM, UHF RFID, and MSR modules. Multi-bay charging and docking stations ensure easy installation in diverse environments



UTC-500 tough series features an all-in-one computing system equipped with wide format, touch based LCD panel. It is easy to integrate key peripherals and display systems for diversified self-service and interactive signage deploy in different application areas.

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> AEREO (FORMERLY AARAV UNMANNED SYSTEMS PVT. LTD.)

Founded in 2013 in IIT Kanpur, Aereo (formerly Aarav Unmanned Systems) has grown into India's leading drone technology company for commercial drone



applications. Aereo is the only Indian company that provides e n d - t o - e n d drone solutions to B2B sectors. Our fundamental vision has always been to impact productivity of organizations, improve the quality of lives of people, and ensure sustainability to help our planet.

Our solutions comprise survey-grade drones flown by highly skilled drone pilots, precise and customizable surveying techniques, robust data processing capabilities, and a proprietary MIETY-compliant cloud platform for viewing and sharing analytics. Being one of the only companies to provide end-to-end drone solutions, we have surveyed over 500 mines, 350+ stockyards, and generated critical business intelligence for 10+ mining projects. Aereo is the only drone company that is part of India's first and largest mine digitization project.

Aereo's end-to-end solutions help mines achieve unparalleled efficiency,

through volumetric analysis, faster mine planning, environmental compliances, and in-depth safety assessments. Our subject matter experts analyze each project and requirement, and provide comprehensive analytics directly on Aereo Cloud. Our vision is to build the most impactful aerial intelligence platform that leverages aerial data to address critical challenges across the industry.

END-TO-END DRONE SOLUTIONS

Aereo provides end-to-end drone based solutions for mining, construction, rural & urban development, etc. Our solutions comprise surveygrade PPK drones flown by highly skilled drone pilots, precise and customizable surveying techniques, robust data processing capabilities, and a proprietary MIETY compliant cloud platform for viewing and sharing analytics. Through our end-



to-end solutions and business intelligence, we help safeguard assets, drive critical decision making, accurate planning, and daily progress monitoring.

MCDR GUIDELINE SUPPORT

Aereo provides assistance in helping mines fulfill the MCDR guidelines. According to the latest MCDR amendment, all mines must use drone surveys and submit data for compliance purposes. Aereo's cutting-edge drone survey and analytics platform enables this and more.



AEREO CLOUD

Aereo Cloud is a robust drone data processing and advanced analytics platform built on a MIETY-compliant cloud server. It is highly scalable and integrable into the existing IT infrastructure of our clients. Aereo Cloud has industry-standard tools and features to create orthomosaics, DEMs, point clouds, 3D textured



models, etc. Additionally, users can derive advanced business intelligence and view and share them on Aereo Cloud without any hardware or software limitation.

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Introduction of our organization as one of the pioneers in hiring of road, rail, waterways, telecom, power sectors, earth moving and construction



equipment's etc. We take pleasure to introduce ourself as one of the leading hirers of earth moving and construction equipment's in and around India. We have successfully provided our services to many Government, semi Government, multinational and private organizations Aggcon Equipments Private Limited commenced its operation in mid 70's. however the organization was formally incorporated in 2003 as private limited company under the Company Act, 1956.

Our highly trained personnel's, in the area of operation have enabled us to participate aesthetically in the Indian and global market, that is emerging out of today's business world only because of this maturity that we achieved through constant endeavor towards our goals. We are prepared to accept each and every challenge in its original form and ready to give them required dimensions and shape. This is the only ground on which we claim our achievements through workmanship that understand and recognize the level of needs and satisfaction of our customers Mr. Jitender Aggarwal, CMD of Aggcon Equipments International Pvt Ltd, awarded by honorable minister of road transport and highways of India Shri Nitin Gadkari Ji for best Infrastructure Equipments rental company of India.

MUMBAI COASTAL ROAD

The Mumbai Coastal Road is an under construction 8- lane, 29.2-km long freeway that would run along Mumbai's western coastline connecting Marine Lines in the south to Kandivali in the north. The Coastal Road is projected to be used by 130,000 vehicles daily and is expected to reduce travel time between South Mumbai and the Western Suburbs from 2 hours to 40 minutes. The estimated cost of the project is ₹12,000 crore (US\$1.7 billion). Its first phase, a 9.98 km section from Princess Street flyover to the Worli end of the Bandra-Worli Sea Link, is expected to be completed by mid-2022.

THE YAMUNA EXPRESSWAY PROJECT

The Government of Uttar Pradesh worked proactively to improve the connectivity of the National Capital Region to improve tourist attraction of Taj Mahal at Agra through the new6Lanes Access Controlled Expressway with the brand name of Yamuna Expressway. The Yamuna Expressway Project Was conceived with the idea to not only reduce the time travel between New Delhi and Agra but also to open up avenue for Industrial and Urban Development of the region and provide the base for convergence to tourism and other allied industries. The longest access six lane project was originated in 2001, for which, a statutory body of Government of Uttar Pradesh was constituted, named as, Taj Expressway Authority (TEA) on20April 2001. The 165kmlong Yamuna Expressway have been developed by the Jaypee Group under Public-Private Partnership. The project was formally inaugurated on 9 August 2012 by Uttar Pradesh Chief Minister Mr. Akhilesh Yadav. We have done work with various contractors by fulfilling all the requirements of heavy co struction equipment's to complete this project and were glad to be the part of the same.

CRAWLER CRANE

A crawler crane is perfect for carrying large and heavy loads, such as steel beams, concrete blocks, and other construction materials, due to its enormous lifting capability and long reach. They are frequently employed in the construction of bridges, wind turbines, heavy lift operations, and other expansive projects.

MOTOR GRADER

A motor grader is mainly used for Surface leveling and fine grading, Earthmoving, Creating inclines, Scarifying and spreading materials, Trenching and ditching, Snow and ice removal&Mixing materials.

SOIL COMPACTOR

Compaction is accomplished by use of heavy equipment. In sands and gravels, the equipment usually vibrates, to cause re-orientation of the soil particles into a denser configuration. In silts and clays, a sheepsfoot roller is frequently used, to create small zones of intense shearing, which drives air out of the soil.







TANDEM ROLLER

The tandem, or double drum roller, has one steel drum in the front and one in the back. As the two drums move, this moves the roller. The efficiency of the tandem roller comes from the two drums — entire sections of a highway can be flattened and paved quickly and efficiently.

PILING RIG XCMG XR 280D

DIA - 1500- 1800 MTR / DEPATH - 60-65 MTR

The depth of the Kelly depends on how many meters the Kelly is Final depth can be 75-81 deep Two Type Kelly Use For Piling Rig Machine

• Interlocking Kelly (use interlocking where it is hard)

• Fiction Kelly (Fiction Kelly is used where there is an area of sand or soil)

WORK :- Bore pile drilling machine is a kind of construction equipment which is used to make bore pile by drilling method (i.e. digging to make a hole by raising the soil from the ground) in the construction technology of concrete or cement mortar.

PILING RIG SANY SR 285

DIA-1200-1500 MTR / DEPATH-60-65 MTR

The depth of the Kelly depends on how many meters the Kelly is Final depth can be 75-81 deep Two Type Kelly Use For Piling Rig Machine

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> AL AMEEN ENTERPRISES

Established in the year 1987, we "AL - Ameen Enterprises"



are the prominent supplier, trader, retailer and distributor or Hydraulic Products. The range we offer under this category includes TUCSON HYDROCONTROLS, YUKEN INDIA LTD, HYDAX HYDRAULICS PVT. LTD., ABB Electric Motors, SAINEST SEAMLESS TUBES, Wandfluh Swiss Valves, WALVOIL mobile control valves, ISMAT Hydraulic Fittings etc to name a few. For gaining maximum client satisfaction, we source all the offered products from the reliable and trusted vendors of the market Further, it is well connected with various modes of transport, which facilitates hassle free and timely delivery of the products in the market.

Under the valuable guidance of our Partners Mr. Mohammed, Mr. Zakir Husain & Mr. Iqbal Husain we have been able to carve a niche for our products in the market. Their aesthetic business sense, commendable knowledge, transparent dealings and motivating persona has helped us in maintaining international quality standards in our product line and garnering a wide client base.

Tucson cartridge valves for Sun cavities are compact, self-contained hydraulic valves specifically designed to fit into Sun Hydraulics' cavities. These valves offer numerous advantages, including easy installation, enhanced system flexibility, and efficient



maintenance. Constructed as self-contained units that can be inserted or removed without disturbing the surrounding hydraulic circuitry, they come in various types, such as pressure relief valves, check valves, flow control valves, and directional control valves. Their compact design and compatibility with Sun cavities make them a preferred choice for hydraulic applications requiring reliable and space-saving solutions.

Hydraulic lift blocks are specialized devices used in hydraulic systems to provide support and lift heavy loads. These blocks are designed to withstand high pressure and offer precise control over the lifting process. They consist of a sturdy construction with hydraulic cylinders and pistons that generate the lifting force. Hydraulic lift blocks are commonly employed in various industries, including automotive, manufacturing, and construction, for tasks



such as lifting vehicles, equipment, or machinery. Their hydraulic operation ensures smooth and controlled lifting, allowing for safe and efficient load handling. With their robust design and hydraulic power, hydraulic lift blocks are essential tools for heavy lifting applications.

NG6 and NG10 directional control valves from Tucson are widely used in industrial applications. These valves provide precise control over the direction of hydraulic fluid flow within a system, enabling the actuation and control of various hydraulic components. NG6 and NG10 directional control valves are known for their



compact size, robust construction, and compatibility with a wide range of hydraulic systems, making them versatile and reliable solutions for fluid flow control in industrial machinery and equipment.

Introducing our hydraulic on-off poppet valves, the ideal solution for controlling fluid flow in your hydraulic systems. Our on-off poppet valves provide reliable and precise on-off functionality, allowing you to start or stop the flow of hydraulic fluid with ease. Designed to handle high-pressure applications, these valves



ensure efficient and safe operation in various industries. With their robust construction and dependable performance, our hydraulic on-off poppet valves offer long-lasting durability and minimal maintenance requirements. Whether you require precise control in manufacturing, construction, or industrial processes, our hydraulic on-off poppet valves deliver the reliability and performance you need to optimize your hydraulic system.

Tucson Hydrocontrols' Hose Burst valves, the essential safety feature for your hydraulic systems. Designed to prevent uncontrolled pressure release in the event of a hose failure or burst, our hose burst valves provide reliable protection against potential hazards. These valves quickly detect abnormal pressure increases and automatically shut off the flow of hydraulic fluid,



minimizing the risk of injury or damage. With their robust construction and precise functionality, our hydraulic hose burst valves offer peace of mind and ensure the safety of personnel and equipment. Trust our high-quality valves to enhance the safety and reliability of your hydraulic systems, protecting your investment and ensuring uninterrupted operations.

Tucson counterbalance valves are the key to achieving smooth and controlled motion in your hydraulic systems. Our counterbalance valves provide precise control over loads and prevent unwanted motion, ensuring optimal stability and safety. These valves effectively control the flow of hydraulic fluid to counteract gravitational forces and provide smooth deceleration, preventing loads from dropping or runaway motion. With their durable construction and reliable performance, our hydraulic



counterbalance valves offer exceptional control and efficiency in a variety of applications, such as lifting and lowering heavy loads. Our high-quality counterbalance valves will optimize your hydraulic systems, delivering superior performance and unmatched reliability.

Tucson Hydrocontrols' test point couplings are the ultimate solution for accurate and convenient pressure testing in hydraulic systems. These test point couplings are designed to provide a secure and reliable connection point for pressure gauges and diagnostic equipment.



With its robust construction and leak-free design, our test point coupling ensures accurate readings and precise monitoring of hydraulic pressure.

Introducing our hydraulic relief valve, a cutting-edge solution meticulously crafted by Tucson Hydrocontrols. This highperformance valve is engineered to deliver precise pressure regulation and system protection in a wide range of hydraulic applications. With its robust design and advanced features, our hydraulic relief valve effectively safeguards hydraulic components such as pumps and motors from overpressure, ensuring their longevity and uninterrupted operation. Its versatile applications span across industries such as manufacturing, construction, and automotive, where reliable pressure control is paramount. Trust in the expertise and



dedication of Tucson Hydrocontrols to optimize your hydraulic system with our top-of-the-line hydraulic relief valves.

Hydraulic motor mounted cross port relief valves manufactured by Tucson Hydrocontrols are designed to provide precise pressure control and protect hydraulic motors from excessive pressure in diverse applications. With their unique cross port design, they offer seamless integration and installation directly on hydraulic motors,



ensuring efficient and reliable performance. Our motor mounted relief valves effectively safeguard motors from overpressure, preventing damage and maximizing their operational lifespan. Ideal for industries such as construction, agriculture, and material handling, these valves offer unparalleled functionality and peace of mind.

Modular valves from Tucson Hydrocontrols are versatile and offer unparalleled flexibility and efficiency in hydraulic systems across a wide range of applications. With their modular design, they allow for easy customization and expansion, adapting to specific



system requirements. Our hydraulic modular valves feature advanced control options, ensuring precise regulation of flow, pressure, and direction. Whether used in manufacturing, industrial automation, or mobile machinery, these valves deliver optimal performance and reliability. Count on Tucson Hydrocontrols' expertise to provide superior hydraulic solutions with our innovative modular valve series.

NG6 subplates with built-in relief valves are designed to provide a compact and efficient solution for hydraulic systems requiring pressure regulation. With its integrated relief valve, the NG6 subplate ensures precise pressure control and system protection. Its sturdy construction and easy installation make it suitable for a wide range of applications, including industrial automation, press machines, insutrial equipment, and hydraulics powerpacks.



NG10 subplates with built-in relief valves are designed to provide a compact and efficient solution for hydraulic systems requiring pressure regulation. With its integrated relief valve, the NG6 subplate ensures precise pressure control and system protection. Its sturdy construction and easy installation make it suitable for a wide range of applications, including industrial automation, press machines, insutrial equipment, and hydraulics powerpacks.

Dual counterbalance valves provide superior control and stability for hydraulic systems requiring load control on extension as well as retraction. With their various pilot ratio and porting options, our dual counterbalance valves effectively counteract gravitational forces and prevent load runaway, ensuring safe and efficient operation. With robust construction and reliable





performance, these valves are ideal for applications such as lifting and lowering heavy loads, material handling equipment, and mobile machinery.

Motor mounted counterbalance valves are specifically designed to provide precise control and stability for hydraulic motors in various applications. Mounted directly on hydraulic motors, they effectively counteract gravitational

forces and prevent load runaway, ensuring safe and efficient operation. With their robust construction and advanced features, our motor mounted counterbalance valves offer superior performance and reliability. Ideal for industries such as material handling, construction, and agriculture, these valves optimize motor efficiency and enhance productivity. Experience enhanced control



and safety with Tucson Hydrocontrols' hydraulic motor mounted counterbalance valves.

Hydraulic systems are a compact and highly efficient circuits offering seamless integration of multiple hydraulic components into a

single unit, optimizing space utilization and simplifying installation. Designed for various applications, our hydraulic integrated circuits provide precise control overflow, pressure, and direction, ensuring smooth and reliable operation in industries such as manufacturing, automation, and mobile machinery. With their advanced features and design, these circuits offer flexibility and customization options to meet specific system requirements. Trust Tucson Hydrocontrols' expertise to



deliver superior hydraulic solutions with our state-of-the-art integrated circuits.

Throttle and throttle check valves offer control and regulation of fluid flow in hydraulic systems across a wide range of applications. Throttle valves provide accurate and adjustable flow control, allowing for precise speed and motion control in machinery and equipment. The throttle check valves, on the other hand, combine the functionality of throttle valves with the added feature of check valves, ensuring one-directional flow and preventing backflow. Ideal for industries such as industrial automation, material handling, and construction, our throttle and throttle check valves



guarantee optimal performance and reliability. Trust Tucson Hydrocontrols' expertise for superior hydraulic solutions with our throttle and throttle check valves. Experience enhanced control and efficiency with Tucson Hydrocontrols' throttle and throttle check valves.

Hydraulic ball valves are versatile and offer reliable shutoff and control of fluid flow in hydraulic systems, catering to a wide range of applications. The hydraulic ball valves feature a durable stainless stell ball, machined POM seats, and cast steel handles. With their



robust construction and exceptional sealing capabilities, they ensure leak-free operation even under high-pressure conditions. Whether used in industrial automation, agriculture, or material handling, our hydraulic ball valves deliver superior performance and reliability. Experience optimal flow control and efficiency with Tucson Hydrocontrols' hydraulic ball valves.

Safety blocks provide critical protection and maintenance support for hydraulic accumulator systems. Engineered with robust features, our hydraulic accumulator safety blocks ensure safe and efficient operation during maintenance and servicing procedures. With their reliable locking mechanisms,



they prevent accidental pressurization and discharge, safeguarding personnel, and equipment. Suitable for a wide range of applications, including industrial machinery, steel mills, and power plants, our hydraulic accumulator safety blocks are a vital safety measure.

Flow divider/Combiner valves offer precise division of hydraulic flow, enabling multiple actuators to operate simultaneously and independently. Tucson's hydraulic flow dividers ensure balanced flow distribution, optimizing the performance of hydraulic systems. With their rugged construction and precise functionality, they are ideal for applications such as material handling, construction machinery, and agricultural equipment. Experience enhanced control and efficiency with Tucson Hydrocontrols' hydraulic flow divider/combiners.





ANDRITZ SEPARATION AND PUMP TECHNOLOGIES INDIA PVT. LTD.



ANDRITZ Separation provides mechanical and thermal technologies as well as services and the related automation solutions for solid/liquid separation, serving the mining and minerals industry, as well as the chemical, environmental, and food industries. The customized, innovative solutions focus on minimizing the use of resources and achieving the highest process efficiency, thus making a substantial contribution towards sustainable environmental protection.

ANDRITZ systems are designed for the most demanding applications in mining and minerals processing and include some of the highest capacity technologies in the industry today. Our current portfolio covers the full process from sedimentation and dewatering to drying and ensures excellent throughput of high-quality products. With innovative separation solutions and services, ANDRITZ helps mining and minerals operations globally to reduce their carbon footprint and costs, while improving product quality, capacity, and efficiency.

SIDEBAR FILTER PRESS ME FOR TAILINGS AND CONCENTRATES

The ANDRITZ sidebar filter press ME is specifically designed for heavy-duty challenges in the mining and minerals industry. Its modular design allows for easy and quick maintenance. ANDRITZ filter press ME is ideal for fast processing of tailings and concentrate, with a maximum throughput of up to 450 kg/m²h, depending on the application.



OVERHEAD FILTER PRESS A4F FOR TAILINGS

The ANDRITZ overhead filter presses A4F 1500 and A4F 2500 are designed for heavy-duty applications with maximum discharge speed. Based on a reliable design, these filter presses are equipped with an additional plate package divider to guarantee the highest possible throughput in combination with fourcylinder technology. It fits particularly for treating tailings, coal, copper, iron, and aluminum.

SIDEBAR FILTER PRESS SE FOR TAILINGS

ANDRITZ sidebar filter press SE is designed for standard and medium duty applications with a fast filter cake discharge system. It fits particularly well for sand and gravel, kaolin, calcium carbonate, and clay applications, and can also handle smaller throughputs. The filter press SE features a wellproven design with all the important modules, such as



washing device, drip plates, and additional options depending on your requirements.

THICKENERS FOR ORE CONCENTRATES AND TAILINGS

ANDRITZ thickening and clarification solutions are designed to achieve the highest production rate without compromising efficiency. The innovative paste-thickener design facilitates highly clarified liquid recovery, as well as maximum underflow densities. ANDRITZ thickeners use state-of-the-art sedimentation technology to offer an efficient and



reliable solid-liquid separation unit for a variety of applications, mainly for ore concentrates and tailings treatment in the mining industry.

HORIZONTAL VACUUM BELT FILTER (HVBF) FOR IRON ORE CONCENTRATE / COAL CONCENTRATE

Achieve high-throughput dewatering and cake washing with ANDRITZ horizontal vacuum belt filter (HVBF). It uses state-of-the-art vacuum filtration technology to offer an efficient and reliable solid/liquid separation unit that is fully CE certified for dewatering and washing of slurries. The modular design of



ANDRITZ HVBF offers effective filtration areas from 6m² to 138m². It's also able to attain the highest cake washing efficiencies thanks to the plug flow displacement of the wash liquor, resulting in maximized product recovery. ANDRITZ HVBF are commonly used for iron ore and coal concentrates treatment, and many other applications in the mining industry.

BELT PRESS CPF-Q FOR COAL TAILINGS

ANDRITZ belt press CPF-Q is a continuously operating, heavy-duty belt press manufactured in a modular design with unique flexibility. It delivers lower residual moisture, higher throughput, and is more flexible to changing feed conditions than any other belt presses on the market. Despite its small footprint, the robust design of ANDRITZ CPF-Q contains an



impressive array of features, including a reliable belt tension system and a flexible drive, highly suitable for coal tailings treatment for the mining industry. Furthermore, with the Metris addIQ RheoScan optical measurement system, flocculant consumption can be optimized.

DECANTER CENTRIFUGE A FOR COAL CONCENTRATE / MIDDLING

ANDRITZ decanter centrifuges A are commonly used in some mining applications for clarification of liquids, thickening of sludges, and separation of solids. These reliable and robust decanter centrifuges offer continuous and fully automatic operating system with flexibility to handle varying process parameters with double variable-speed drive. For tailings, an efficient



dewatering of slurries with fine PSD can be achieved thanks to high-speed decanters such as A10-4. Due to its big diameter-length ratio, it allows you to handle high volumes and increased recovery rates.

HYPERBARIC DISC FILTER (HBF) FOR COAL AND IRON ORE CONCENTRATES

ANDRITZ hyperbaric disc filter (HBF) is the right choice for continuous filtration with the highest solids throughput, lowest residual moisture, and clear filtrate. The heating value of fine coal can be achieved thanks to the lower moisture content. Furthermore, its closed system design contributes to less emissions for the environment. ANDRITZ HBF is highly ideal for coal



and iron ore concentrates management in the mining industry.

www.andritz.com



APPLIED ENGINERRING SERVICES



for Lifting Equipment, Safety and Material handling, premium hand tools, Bearing Management Tools, Coils & Induction Heaters. Our operations span Pan - India and we have well established stock and inventory of all products.

Established in February 1992, Applied Engineering Services has spent nearly two decades in the Industry offering very high-quality products and services, the endeavor is to offer the best brand of Products for the right application and offer the highest quality of after sales service.

We are innovative in our approach, committed in our tasks, knowledgeable in our products and exhibit our technical skills and abilities to measure up to the demands and expectations of our customers. We aim to command customer respect with our high levels of customer service and professionalism and be able to contribute to our customer's growth as partners in progress.

We represent the following Companies:

Enerpac: High Pressure Hydraulic Cylinders, Pumps, Hydraulic and Pneumatic Torque Wrenches and other maintenance products.

Gedore: High quality Tools and Tackles, Workshop equipment's, DIN Standard Products, Manual and Battery-Operated Torque Wrenches.

Tractel SAS: Material Handling Equipment's, Manual Chain Pulley Block, Lever Hoist, Wire Rope Pulley, Hoist, Electrical Motorized Hoist, Electronic Dynamometers.

TM: Bearing Induction Heater

Powerram: Self-Centering Manual Pullers, Hydraulic Pullers up-to 100 Ton.

Milwaukee: Impact Tools.

ENERPAC HYDRAULIC TOOLS

- Cylinder Capacity 5 ton to 1000Ton,
- Pump, accessories
- · Use: Industrial Tools , Lifting Products

ENERPAC HYDRAULIC TORQUE WRENCH, MULTIPLIER

- 1952 35.455 Nm
- Use: Bolt Tightning & Loosing





GEDORE ELECTRIC TORQUE WRENCH

- LDE, LEW series 90 13.000 Nm
- · Crane and steel construction version

GEDORE CORDLESS TORQUE WRENCH

- LDA, LAW series 90 6.000 Nm
- Use: Bolt Tightening & Loosing.

GEDORE HAND TOOLS, MANUAL TORQUE WRENCH

The range from workshop equipment to hand tools

MILWAUKEE HIGH TORQUE IMPACT WRENCHES (CORDLESS WITH BATTERY & CHARGER)

M18 Fuel with ONE-KEY Series torgue Up to 2033 Nm

- MILWAUKEE MID TORQUE IMPACT WRENCHES
- M18 Fuel with Friction Ring Series

 Use: tightening and loosening bolts, lug nuts and rusted fasteners.

MILWAUKEE HIGH OUTPUT STAND AREA LIGHT CHARGER

- Use: deliver users a lighting solution that adapts, performs, and survives on the jobsite.
- EGA MASTER ANTI DROP SAFETY-SLOGGING WRENCH

 Use: heavy duty hammering for tightening and undoing nuts and bolts.

EGA MASTER ANTI DROP HAMMER

Use: breaking through concrete, grooving and squaring and other aggregate materials.

SURETHERM INDUCTION HEATER

Use: Bearing Heat for Mounting &

POWERRAM SELF CENTERING PULLER

Use: Remove parts such as bearings, pulleys or gears from a shaft.

BOLT BREAKER 1500W

- Use: Induction Heating for Nuts & Bolts.
- THREAD REPAIR KIT SET

Use: stripped, damaged internal or external threads.

UNILITE DOUBLE HEAD TRIPOD WITH BAR

Use: The TRIPOD-DBL is a solid site light tripod used to hold 2 Unilite hexagon site lights.

UNILITE INDUSTRIAL SUPER BRIGHT HEAD TORCH

Use: Fully adjustable non-slip silicone headband with 1100 lumen white CREE LED, 6500k is a great help in mining and low light areas.

www.appliedengg.in



➤ AQUA MACHINERIES PVT. LTD.

Ahmedabad based ISO 9001 accredited, "AQUA" is a Pioneer & Market-leading Company providing Energy



Efficient & Reliable, Dry Motor; Submerged Pump sets for Water Intake, Transfer, and Distribution; Storm Water Disposal, Sewage & Efficient Management; Drainage, Cooling Water Circulation & Fire Fighting Power Stations, Mines, Tunnels; Handling Slurries & Dredging, etc.

With thousands of pumps working all over India, Southeast Asia & Africa not only pump sets - we offer Total Engineered Solutions out to out for surface water handling.















Our Vast design experience to develop a New Generation, AMS Pumpsets With its robust design, flexible to use & smart capabilities, the Submerged Mine Dewatering pumpsets ensures reliable, low maintenance & highly productive mine dewatering.

The present Aqua manufacturing range covers Submerged Mine Dewatering Pumpsets up to 450 kW in 380/550/440 V & 1500 kW in 3.3 / 6.6 kV motor rating, Head upto 450 m, Flow upto 10000 iGPM. These Pumps are suitable for bottom resting and floating pontoon installation in open cast mines.

SCCL : 1000 iGPM x 300 m x 3.3 kV x 550 HP Pump at Ramagundeum OCP since 2021

WCL :1850 iGPM x150 m X 3.3 kV x 475 HP pump at Chhinda OCP

SECL: 2350 iGPM x 200 m X 6.6 kV x 800 HP pump at Dipka OCP

HORIZONTAL MONOSHAFT SUBMERGED MINE DEWATERING PUMPSET

- Head : upto 450 m
- Flow : upto 10000 IGPM
- kW: upto 1000 kW
- Voltage : 415V/550 V/ 3.3 kV/6.6 kV

www.aquapumps.com



> AQUATECH PUMPING SOLUTIONS

Aquatech Pumping Solutions is a leading supplier of high-quality & engineered Mine Dewatering pumps. Range of pumps include Grindex submersible dewatering pumps, Grindex submersible slurry pump, Sykes Auto Prime Diesel Engine Dewatering Pumps for a large range of flows & head. Our pumps are available for hire and sale. Pumps are reliable as well as cost effective for tough mine dewatering application.

We provide dewatering solutions for a number of dewatering applications in mining, tunnelling, hydro dam construction & power projects construction. We provide the complete specialized service from preliminary design, supply and installation of dewatering pumps with accessories along with site manpower management throughout. The organization has established a credibility for dealing with even the most challenging Dewatering assignments effectively, both financially and even within time frame.

GRINDEX SUBMERSIBLE DEWATERING PUMPS

Grindex brand is a world leader in electrical submersible pump technology for demanding applications such as construction, mining and heavy industry. The pumps are known for their high reliability, durability and dependability. Thanks to the built-in motor protection and the air valve, the pumps can run unsupervised for longer periods, and even run dry for a length of time.



SYKES AUTO PRIME DIESEL DRIVEN DEWATERING PUMPS

Sykes is a brand that is recognised globally. Our pumps operate everywhere from the Middle East to North America, often in some of the harshest environments. Our ongoing investment in research and innovation has helped our customers to resolve a variety of water management issues.

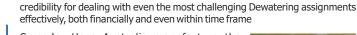


MINE DEWATERING CONTRACT

We provide dewatering solutions for a number of dewatering applications in coal mining, metal and minerals mining. We design and supply dewatering pumps with accessories which is best suitable to your mine.

PUMP RENTAL

We provide the complete specialized dewatering service from preliminary design, supply and installation of dewatering pumps with accessories along with site manpower management throughout. The organization has established a



Crusader Hose Australia manufacture the Waterlord® hose which has the ability to remove large volumes of water from a mine quickly and safely. Waterlord® is a heavy-duty and reliable layflat mine dewatering hose constructed by weaving a tight polyester fabric and using TPU



(thermoplastic polyurethane) thru-the-weave extrusion.Waterlord® mine dewatering hose is reliable, compact, easy to handle and easy to deploy. Short lengths can be unrolled with little manpower. However, for long runs up mine walls and across pits, hose reel systems are required. These systems are used to rapidly deploy hose so that the water can be pumped out of the pit soon after the rains hit.

www.dewatering.in

ARUL POLYMERS PVT. LTD.



Arul Polymers Pvt Ltd and Arul Rubbers Pvt Ltd the core companies within the group, offer Specialized Rubber Products and solutions for a spectrum of industries since 1997 and 1978 respectively.

An ISO 9001:2015 & IATF 16949 Certified, Arul Polymers Private Limited has established its presence in the Aerospace & Defence, Automobile and all Industrial sectors for general rubber products through its DG Sheets, Roller with Diamond Groove, Herringbone Groove and plain Groove, Ceramic sheets, Ceramic hoses, Dredging Hoses, Chute & Mill Linings, Cold Bond Adhesive, Rubber to metal bonded parts, O-rings, Seals, & All Tailor-made Industrial required rubber products.

Our customized Compound range includes Chloroprene Rubber for Sewage application, stands the specification of ASTM C1277-18 & CSA, EPDM for Moulding & FDA, Silicone for Printing Rollers & the Food Processing Industry.

Arul Polymers also offers Specialty elastomers like HNBR, ACM, AEM / VAMAC, XNBR & FKM FOR Tier 2 Automotive component manufacturers. FFKM for ultra-low and High Temperature applications like deep oil-well drilling and its pumps with State of art in-house testing lab facilities.

We have also been approved by WRAS – UK for our Ebonite Rubber Compounds in drinking water applications withstanding up to 60° Celsius temperature.

Our unflinching technical and design capabilities has enabled us to find acceptance in the Aerospace and Military Industries. We have gained the acceptance of CEMILAC (Centre for Military Airworthiness and Certification) & DGAQA (Directorate General of Aeronautical Quality Assurance)

CERAMIC LAGGING

- 1. One of the most commonly used types of lagging applied to conveyor pulleys.
- 2. It is often used in harsh conditions where abrasive material is conveyed because the ceramic is hardier and more durable than rubber lagging.

DISCHARGE DREDGING HOSE

- 1. It is part of dredge pipe line for dredger connected with pipe floater
- In the working environment with high wind & waves, the discharge rubberised hoses can rely base on its low hardness. So it will ensure the safety of the whole pipeline assembly.
- 3. High Abrasion and Bending resistant
- 4. Very flexible, hence easy to install

Working Temperature: -20 to 50 deg. C

HERRINGBONE GROOVE LAGGING (HBG)

1. The style of lagging required is usually influenced by operating conditions.

With this style grooving, the points do not meet in the middle.

This is normally used in drive pulleys, as water is channelled away from the centre of the







pulley/belt by the grooves (3/8" minimum thickness)

CERAMIC DISCHARGE HOSES

- 1. Have ceramic tiles in the internal structure that make hoses have good wear resistance.
- 2. It is suitable for the harshest sea or mining conditions.
- Compared with armoured discharge hoses, it's have better wear resistance and give long life too.

DIAMOND GROOVE RUBBER ROLLER

- 1. It is used in steel, chemical, salt, coal, power, cement and other sectors.
- It is used under the loading points where material impact may damage the belt.
- The impact idler is designed with durable rubber rings that are developed using synthetic, natural and neoprene rubber material.
- It comes with heavy-duty fixing arrangement of rings that are properly designed for easy replacement.

MILL CIRCUIT TANKS

Mill Circuit Tanks rubber lined with Chlorobutyl/Bromobutyl rubber which will be used in FGD plants for handling lime stone slurry working temperature up to 100 deg C.

CARBON STEEL RUBBER LINED PIPES

Carbon steel Rubber Lined Pipes & Fittings lined with wear resistant natural rubber for transferring high abrasion slurry media with water in Iron Ore Minerals Industries

TANKS, PRESSURE VESSELS

Tanks, Pressure Vessels, Pipes, Fittings, Ducts & Chutes and Rubber Sheets for Chemical, Fertilizer, Power, Stable Fibre, Water and Food Industries.

www.arulpolymers.com



AUTOMATION

CONTROLS



> AUTOMATION CONTROLS, NAGPUR

Automation Controls develops and manufactures mining safety monitoring equipments for wide range

of mining applications. Inherent in these applications is a paramount need to protect personnel, facilities, and production and to comply with safety requirements. Automation controls targets this need and strive to offer cost effective solutions.

We are an ISO 9001:2015 certified organization manufacturing safety equipments for mines.

Due to our Automatic Fire Detection and Suppression System (AFDSS), till date lots of vehicles are saved from fire. We are having appreciation certificate from the users for this.

We would like to take an opportunity to introduce our self as a manufacturer of DGMS recommended safety equipments / quality products as per their safety norms and specifications.

We are feeling proud to inform you that we are a pioneer of this segment and involved in this business since 1990.

Our Automatic Fire Detection & Suppression System (AFDSS) meets all requirements as per DGMS (Tech) Circular No. 06 of 2020, Dhanbad, dated 27/02/2020. We are happy to introduce "Multi Zone Automatic Fire Detection and Suppression system" which we have developed indigenously.



As per DGMS guidelines, records warning provided with time stamp to enable

easy retrieval and analysis of the immediate past 96 deployment operating hours.

• Flasher Light is provided outside of the cabin to alert surrounding workmen and machine operators.



- Some specially coated corrective lens (inc. much thicker ones) and/or sunglasses can reduce the recognition rate.
- When hair blots out the eye, the device may make the Alarming as fatigue function.
- Due to strong sunlight straight on the device (from side windows) or on driver's face (from front windshield), the device may reduce the recognition rate.

While reversing HEMM like dumpers and tippers used in mining are not free of the possibility of hazardous accidents at the rear end. Several accidents have occurred in opencast mines while reversing equipment.



Though Audio- visual alarm and rear-view mirrors are safety items available to control this kind of accidents, but they do not give clear view of the rear side of the vehicle. Which may lead to fatal accidents. The Rear Vision System with Recording Facility developed by Automation Controls not only enhance the vision of operator by providing rear view, also provides the added advantage to re-visit the incidence, to eliminate the cause of Accident.

The System provided with provisions for recording the images captured with time stamp to enable easy retrieval and analysis of the immediate past more than 24 deployment operating hours.

While driving many drivers do not dip the head lamps of their vehicles in night while approaching. To dip the head light repeatedly may distract the concentration. To overcome this type of problem, Automation Controls have developed an electronic gadget called "Auto Dipper". DGMS vide Circular No. 5 of 2010 has instructed to install Auto Dipper System in every vehicle. Automatically Performs its function of dipping of the head light beam and restoring of the same. Withstands shocks & vibrations of HEMM. Only Fire



retardant conduit pipes are used for the safety of Harness. Restores the head light beam within 2 seconds when vehicle from opposite direction passes. Operates ideally on 24 Volt DC (12Volt DC optional)

The radar sensor should have Equipment Type Approval (ETA) from Wireless Planning Coordination Wing (WPC), which is under the Ministry of Communications and IT, (Government of India)." DGMS vide Circular No.5 of 2010 has instructed to install Proximity Warning System in every vehicle. Our "Safe Alert" Proximity Warning System (PWS) works



on the radio frequency at 2.4 GHz to 2.4835 GHz, which is license free band frequency as per GSR 45(E). This Radar sensor works on technology which detects stationary as well as moving objects. We are having a range of 0-10 Mtr., 0-15 Mtr., 0-20 Mtr., 0-30 Mtr. available with 1, 2 and 3 sensors.

DGMS has observed that the maximum number of fatal accidents occur during reversing of Surface Transport Machineries in open cast mines and to reduce accidents vide their circulars, made it compulsory to install Audio Visual Alarm in every H.E.M.M. & Surface Transportation Machineries used in Mines. We are pioneer manufacturer of AVA and our AVA is used by almost all the OEMs. Our AVA fulfils all



DGMS technical specifications with testing parameters issued vide DGMS.. Our AVA is 100% Water Proof. It even works after totally immersed in water. Manufactured as per IP 67 (Tested by Govt. Lab) Two synchronized speakers (110dB sound from 1.2 Meters) 400 LUX Bright focus type Red LED Operates ideally on 24 Volt DC (12 Volt DC optional)

We have developed equipment named as "Seat Belt with Reminder. Seat Belt is

a safety device used to secure the operator of a vehicle against a collision or a sudden stop. Seat Belt functions to reduce causality or serious injury. It is provided with Inertial Locking mechanism It is protected from dust and mud of the polluted environment of mines. If Operator forgets or does not fasten it, "Seat Belt Reminder" alert him with Visual Indicator and also remind him in Hindi, Operates ideally on 24 Volt DC (12Volt DC optional)



Our TPMS is designed to handle the Rigors of the harsh

environments at mines (Open Cast &Underground), quarries, construction sites, terminals/ports to provide accurate and reliable monitoring of tire pressure and temperature This system is consisting of one displayer and 6 sensors. Sensors collect the tyre data and send to the monitor in wireless transmission, the monitor displays the data and alarms according to the user's. Actual setting for the pressure and temperature to avoid an accident. This system improves driving comfort, fuel economy, prolong tyre life and most importantly it avoids costly downtime on commercial projects due to tyre failures. Warnings / Alerts: It gives High pressure alert, Low pressure alert,



High temperature alert, Fast leakage alert and Sensor low battery alert.

We have developed an ABS System, comprising three different functions in one control Unit. Auto Dipper Body Lifting Indicator Seat Belt with Inertial Locking Mechanism and Switch for Alert. ABS System decreases manual operations and increases operators working efficiency. This system covers three different in one as per to fulfil instructions by DGMS wide circular.

As per DGMS, while reversing the vehicle Fatal accident can be avoided and safety can be achieved for the person standing behind the moving vehicle. Automation Controls have developed Smart Rear View Alarm (SRVA) as per DGMS Circular, by compiling two different systems (Audio Visual Alarm and Rear Vision



System) 1.Gives Audio-Visual Alarm to alert the person standing behind to move to a safe place 2.While reversing vehicle operator can see the clear Rear-View so that he can control the vehicle and apply the break immediately when required..

Operators of HEMM, while operation, doesn't know the position of the dump

body, whether it is in high or low position. If dumper moves in body lift position, overhead HT Lines may break or hydraulic system may collide and cause a fatal accident. To avoid an accident, we have developed an electronic safety device BODY LIFT INDICATOR which gives an indication to the operator and also alerts in HUMAN VOICE. DGMS vide Circular No.5 of 2010 has instructed to install Body Lift Indicator in every vehicle.



www.automationcontrol.in



BALKRISHNA INDUSTRIES LTD.



Headquartered in Mumbai, India, Balkrishna Industries Limited (BKT) is an Indian multinational group and one of the world's leading manufacturers in the Off-Highway tire market.

Since its founding in 1987, BKT has successfully focused on manufacturing mobility solutions from 5" to 57" off-the-road vehicles operating in the mining, quarrying, earthmoving, agricultural, construction, and industrial vehicles as well as ports, ATV, and gardening applications. BKT's innovative solutions are designed to meet the most demanding ranges of use and entail more than 3,200 high-performance specialist tires, manufactured solely in India and exported to more than 160 countries worldwide.

Presently, BKT has four subsidiaries in Europe, North America, and Canada assisting in sales and marketing activities. As a result, BKT has developed into a global player in the Off-Highway tire industry with a 6% market share and a turnover of 1.00 Billion Euro.

The company is witnessing gains in market leadership due to its strong and robust product portfolio.

Local Manufacturing

Manufactured solely in India, BKT serves both Original Equipment Manufacturers (OEM) and the replacement market through its four state-ofthe-art production sites in Aurangabad, Bhiwadi, Chopanki, and Bhuj. BKT is one of the few companies with owned tire mold production facilities, and inhouse manufacturing of carbon black pigments – key raw materials used in the manufacturing of tires, which provides the company with major autonomy and ensure enhanced quality control throughout the entire supply chain.

Moreover, the tires are manufactured in facilities that adhere to ISO 9001:2015

for quality management, ISO 14001:2015 for environmental management, and ISO 45001 for health, hygiene, and safety. These certifications reflect BKT's dedication to maintaining high standards across our manufacturing processes.

BKT, indeed, is the first tire company, in India, to adhere to REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) compliance environmental requirements of the European Union, and has obtained the REACH SVHC (Substance of very high concern) compliance certificate for all the products manufactured. BKT is proud to serve a truly global customer base.

BKT spends 3.5% a year of the company's turnover on research and development (R&D), looking for the right solutions to any requirement in the off-highway segment. Hence it is the only tire company in India to have a special test track with six different tracks - this circuit includes tracks for tire performance tests in dry and wet conditions, an asphalt track, and a sloping concrete track. The company conducts around 500 tests throughout the tire production stages to maintain quality control. Thanks to a wide variety of tests, many important characteristics such as traction, handling, comfort, soil compaction, and much more can be measured here, thanks to high-precision devices and instruments.

The company is continuously marching ahead to explore incremental opportunities in the form of developing 'Ultra Large Earthmovers & Mining Radial Tires' markets and has set up an Ultra Large size all-steel OTR Radial tire plant besides other categories of tires. Since the company operates in a capital and labor-intensive segment, the company has developed a large base of SKUs to meet diverse needs and applications. Additionally, the company is continuously expanding its base into various sub-segments like agricultural, industrial, construction, mining, winter, and solid tires under both technologies – Bias as well as Radials.

Product Portfolio for OTR:

BKT has fielded specific product lines for several fields of applications. BKT offers a large range of tires for the following application under the brand name Earthmax series and Mineforce series:

- Rigid Dump Truck
- Wheel Loader
- Articulated Dump Truck
- Motor Grader
- Boomer
- Wheel Loader Tires
- Low Profile Dump Truck
- Load Haul Dump Trucks

EARTHMAX SR 53 is an All Steel radial tire specially designed for loaders, dozers and low profile dump trucks (LPDT) operating in severe rocky conditions, including underground operations and scrap yards. The deep L-5 tread and the cut-resistant compound provide an extended wear life in addition to excellent traction and stability.



EARTHMAX SR 46 for rigid haul trucks is BKT's innovative response to severe rocky, abrasive and harsh mining environments. This tire has been specifically designed to

carry heavy loads offering superior resistance to cuts and chips as well as a long tire life-cycle.The All Steel casing and belts provide extraordinary protection against shocks, fatigue and flats to maximize uptime and enhance productivity. EARTHMAX SR 46 features a special lug block pattern with circumferential groove to optimize the cornering performance with minimum tread face damage.

EARTHMAX SR 468 is an All Steel radial tire specially designed for rigid haul trucks. Its unique tread design with special tread compounds makes it perfect for hard, rocky and tough mining conditions. Its tread lug blocks with circumferential grooves and intertwined blocks ensure effective heat dissipation. Also, the sturdy square shoulder assist in ejecting loose stones to protect the tire from injury. EARTHMAX SR 468 is developed using BKT's cutting-edge technology to carry heavy loads, deliver longer service life and provide resistance to rock cuts and punctures.

MINEFORCE is a bias ply tire specially designed for haul trucks in mining and quarry operations. The MINEFORCE high performance haul truck tire is BKT's innovative response to rocky, abrasive and harsh mining environments. It has a unique





tread design with specially developed tread compounds for hard, rocky and tough mining conditions. Its large contact patch with rigid lugs provides even tread wear and a longer life cycle.

www.bkt-tires.com



Founded in 1997, Landsky is a leading highefficiency screening technology and equipment manufacturing company in China and a technical



partner of large global resource companies. Landsky products and services are widely used in Shougang Mining, Angang Mining, Baowu Group, Magang Group, China Gold, Shandong Gold, Yunxi Group, Jizhong Energy, Shandong Energy, VALE, PHOSAGRO, ROY HILL and other world-renowned resource companies. At present, Landsky has four core technical systems: Heavy duty screen equipment, Fine screen equipment, Hydro-cyclone classification technology and equipment, and Wear-resistant screen media, which are formed a whole process service system of screening equipment for mineral processing.

Banana screen adopts the continuous multi-angle screen surface design according to the principle of equal thickness screening. A large inclination angle at the feed end can make the material move and stratify quickly, which is conducive to the screening of qualified materials. With the decrease of the inclination angle the materials speed reduces, which increases the probability of the near-aperture particles



passing through and improves the screening efficiency This product is widely used in classification, de-intermediation and desliming processes.

Flip flow screen is mainly composed of box exciter, main vibrating screen

frame, floating screen frame, rubber shear spring, flexible polyurethane mesh, main vibration spring and driving device, with the advantages of large processing capacity per unit area and high screening efficiency. It is widely used in the screening of medium and fine materials, sticky, wet and other difficulttoscreen materials.

Linear vibrating screen is mainly composed of box exciter, screen box, springs, support frame and driving device. The amplitude movement path is straight, and the screen machine can be arranged horizontally or inclined. It is suitable for various harsh working conditions and environments, and is widely used in wet classification and dewatering in the fields of metal mines, coal, sand and gravel aggregates, building materials, and chemicals

Multi-deck high frequency screens are normally used for separating fine particle minerals into various sizes for further processing after mill. It incorporates the vibrating motors, screen boxes, screen meshes, springs and etc. We can design and supply different ranges of vibrating screens according to the capacity and requirement.

www.bjscreens.com



BEML LTD.

BEML LIMITED, a Schedule 'A' Company under Ministry of Defence, Government of India.



The company operates in three major business verticals viz., Defence & Aerospace, Mining & Construction, and Rail & Metro.

BEML has its own world class composite R&D establishment housing laboratories in Fluid Power, Material Science and Structural Engineering and regularly designing & developing world class products.

BEML has sophisticated manufacturing units at Bangalore, Mysore, Kolar Gold Fields and Palakkad to turnout cutting-edge technology products.

Commensurate with Government's Policy of 'Make in India' and vision of 'Atmanirbhar Bharat', BEML LIMITED is indigenously manufacturing latest technology products in all the three business verticals in which it operates.

The Defence business segment offers High Mobility & Recovery vehicles, Bridging systems, vehicles for Missile projects, Tank Transportation Trailers, Milrail Wagons, Mine Ploughs, Crash Fire Tenders, Aircraft Towing Tractors, Aircraft Weapon Loading Trolley etc. Rail & Metro business segment, offers Passenger coaches, EMUs, Metro Cars, Maintenance & Utility Vehicles, etc. under Mining & Construction business segment, the Company offers Bulldozers, Excavators, Dumpers, Rope Shovel, Loaders, Water Sprinklers, Motor Graders, Pipe Layers, Tyre Handlers, etc.

BEML has nationwide network of after sales & service. BEML service engineers are posted in remotely located projects to ensure prompt after sales service. Also, BEML's full-fledged service centres and spare parts depots offer complete equipment care.

BEML has a separate International Business Division and supplied products to 70 countries.

BH205E ELECTRIC REAR DUMP TRUCK

- + Engine Grosspower :2300 HP (1716 kW) @ 1900 rpm
- Maximum Payload: 186 MT (205 U.S. tons)



- BH205E is engineered with latest technology AC Electric Drive system, with enhanced reliability, greater efficiency and lower maintenance.
- High Power to weight ratio gives ample reserve power. More target area, high volumetric capacity and low loading height ensure higher productivity.
- Power steering with wide steering angle, results in short turning radius.
- Ideally located spacious ROPS cabin, easy to read and easy to reach instrument panels and operating switches, large tinted glass windows with excellent visibility for increase operator's comforts.

BH60M REAR DUMP TRUCK

- Engine Flywheel Power (Net): 644 HP (480 kW) @ 2000 rpm
- Maximum Payload capacity: 54,500 kg (60 U.S. Tons)
- BH60M is engineered with high power engine; Transmission with electronic control system, planetary drive axle for optimum combination of speed and tractive effort.
- High power to weight ratio allows higher acceleration and gradeability.
 Wide target area, large volumetric capacity body & low loading height ensure high productivity.
- Ideally located spacious integral ROPS cabin with ergonomically designed operator control offer maximum comfort and operational ease.
- Orbitrol full time power steering & shorter turning radius provide higher manoeuvrability.

BG825 MOTOR GRADER

- Engine Flywheel Power (Net): 280 HP (209 kW) @ 2100 rpm.
- Blade Length: 4928 mm (16 Feet)
- Operating weight: 28,000 kg
- With its high engine horse power and operating weight BG825 is ideal for heavy duty road construction / maintenance jobs at mining and demanding sites.
- With high power engine, high performance blade equipment and frame articulation ensure high productivity.
- BG825 is fitted with hydro shift transmission.
- Rear frame mounted operator's compartment enables greater viewing ease.
- Electronic display monitoring system facilities daily maintenance checks and alerts the operator in the event of malfunction.

BE1800E ELECTRIC HYDRAULIC EXCAVATOR

- Gross Power: 2 x 300 kW @ 1500 rpm. •
- Operating Mass: 175000 kg
- Bucket capacity: 10.2 m³
- 2 x 6.6 Kv squirrel cage induction Motor drive for emission free environment.
- Efficient hydraulic system for increased productivity.
- Work equipment controls are simple and light touch due to the hydraulically assisted control system.
- Wide working range and large undercarriage assures stable operation for maximum working performance.
- Centralized monitoring system within the operator's cab allows fast daily checks and also keeps the operator constantly informed of any abnormality during operation.
- Specially designed cab provides plenty of work space and excellent visibility.

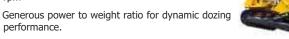
BE1800D HYDRAULIC EXCAVATOR

- Flywheel Horse Power: 2 x 354 kW (2 x 475 HP) @ 2000 rpm.
- Operating Mass: 175000 kg
- Standard Bucket Capacity: 10.2 m³
- Fuel efficient engine assures high operational economy.
- Efficient hydraulic system for increased productivity.
- Work equipment controls are simple and light touch due to the hydraulically assisted control system.
- Wide working range and large undercarriage assures stable operation for maximum working performance.
- Centralized monitoring system within the operator's cab allows fast daily checks and also keeps the operator constantly informed of any abnormality during operation.
- Specially designed cab provides plenty of work space and excellent visibility.

BD355 CRAWLER DOZER

performance.

Flywheel horsepower (Net): 310 kW (416HP) @ 2000 rpm



- Smooth and responsive gear shift with single lever for instant speed and directional changes.
- Conveniently located arm chair steering control for enhanced operator comforts.
- Hexagonal ROPS-FOPS Cabin for better visibility.
- High tensile strength steel blades of different configurations available for varying types of working conditions and applications. The attachment is sturdy in construction to withstand adverse ground conditions.

www.bemlindia.in



≫ BEUMER INDIA PVT. LTD.

BEUMERGROUP

At BEUMER we know that being different is of no use unless it translates into visible benefits for our customers. That's why our technology offers a difference you can see, feel and even measure.

Our engineering design blueprints are developed and tailored to meet your specific requirements. This dedication to detail and customisation is also carried through into the manufacturing of every solution. Our production teams ensure that systems are built to the highest specifications using only the best materials and techniques. Finally, our dedication to research and development ensures that our solutions not only cover customer needs today, but secure them well into the future.

With many years of experience, we have strong industry insight and each project begins by understanding your unique organisational and supply chain needs. System designs reflect this insight and integrate into your existing

infrastructure. Finally, rigorous commissioning and testing ensure that systems are only handed off once everyone is happy that they are robust, reliable and ready for live operation.

TODAY, BEUMER FOCUSES ON:

- CONVEYING AND LOADING TECHNOLOGY
- PALLETISING TECHNOLOGY
- PACKAGING TECHNOLOGY
- SORTATION AND DISTRIBUTION SYSTEMS

OVERLAND BELT CONVEYORS

Open troughed belt conveyors are suitable for conveying material quickly across vast distances through rough terrain. With extremely tight curve radii and large centre distances

Features:

- Reliable and efficient designed for decades
- Ecological with energy regeneration
- Curved single flight conveying systems of 20 km and longer
- Conveying capacity up to 10,000 t/h
- Conveying speeds up to 6.5 m/s
- Small horizontal radii up to 400 m
- Conveying speed: up to 6.5 m/s
- Angles of inclination: up to 20° depending on the material to be conveyed
- Depending on the topographical conditions, conveyors of 20 km and longer are possible

PIPE CONVEYORS

Pipe conveyor prevents losses of bulk material during transport - It permits tight curve radii and steep angles of inclination, while doing away with transfer towers.

Features:

- Ideal for long distances
- Great flexibility
- Highly economical with low investment costs
- Low-wear construction with a lengthy service life even with highly abrasive materials
- Energy recovery from downhill conveyors
- . Centre distance: up to 10 km
- Performance: up to 10,000 t/h
- Angles of inclination: up to 30° depending on the material to be conveyed
- Conveying different materials in upper and lower strands.

BUCKET ELEVATORS

UP AND UP! BUCKET ELEVATORS FOR VERTICAL MATERIAL FLOW

Whether hot or cold, our bucket elevators are the economical solution when it comes to vertical transport of bulk material. As the market leader, we have developed special technical designs for this type of conveying system for several decades now. Therefore, we can offer the perfect configuration for many different applications.

Kev Features:

- Vertical transport of fine bulk material and coarse bulk material
- Grain size up to 100 mm
- Product properties ranging from sticky to highly abrasive
- Conveying capacity up to 2,000 m³/h and more
- Conveying capacities up to 1,540 m3/h
- Reduced investment costs
- Long service life of the traction element (chain / belt)
- Low noise emission
- Explosion-proof version possible, e.g. in compliance with ATEX
- Retrofit of existing bucket elevators is possible











BLENDING BEDS FOR BULK MATERIALS

Whether in the open or in covered halls, raw materials in stockpiles with blending bed equipment must be properly mixed and consolidated. This is why the BEUMER spreader reliably builds up the pile so that its cross-section has the largest possible number of layers of identical material. A BEUMER bridge scraper then helps to achieve the maximum homogenisation effect when reclaiming material from the front of the pile.

- Designed for extreme operating temperatures
- Continuously adjustable discharge
 rate
- Very high feed-in performance
- Sturdy, wear-resistant fittings
- Most appropriate use of space (longitudinal or circular stockpile)
- Maximum possible homogenisation in blending bed

SHIP LOADER

We offer two different systems for ship loading. Coarse bulk materials, such as clinker or lumpy ores, are loaded into bulk carriers via belt conveyor systems and a closed, vertical telescopic tube - for dust free and efficient transport. The loading of powdered goods is handled by fully enclosed loading machines – a remarkably eco-friendly solution.

 Ship loaders with luffing, slewing, telescopic boom and/or shuttle conveyor



- Suitable for open and closed quay galleries or with tripper cars only
- Fixed or rail-mounted
- Types and sizes for each customer-specific quay and loading situations
- Dust-free and environmentally friendly operation
- High compatibility and flexibility
- Automatic dispatch control
- Comprehensive support
- High throughput rates

OPEN CAST MINING SYSTEMS

In the area of opencast mining technology, FAM offers an impressive selection of various machines and systems, such as bucket wheel excavators for extraction of mineral deposits like lignite, hard coal, overburden, marl. Opencast mining is a mining technique of extracting minerals from the nearsurface layer of earth, these raw materials can be then used for further processing, for example, in production of metals or building materials.

Our product portfolio range includes:

- Bucket Wheel Excavator
- Bucket Chain Excavator
- Belt Wagon
- Mass Distributor
- Crawler-Mounted Conveyor Bridge
- Crawler-Mounted Spreader
- In-Pit Crushing System
- Cable Reel Car
- Transport Crawler

STOCKYARD SYSTEMS

Storage and homogenization of various bulk materials is a significant part of the handling processes within the overall logistic networks of the bulk material processing industry. Dynamic and efficient handling requires the stockyards to be equipped with appropriate technology (e.g., stackers, reclaimers, conveyor systems, etc.).

Our product line of stockyard technology includes:

- Stacker
- Bucket Wheel Stacker-Reclaimer
- Bucket Wheel Reclaimer
- Semi-Portal Scraper
- Portal Scraper



- Side Scraper
- Slewing Scraper
- Scraper Bridge Reclaimer
- Bucket Wheel Bridge Reclaimer
- Circular Stacker-Reclaimer

PORT TECHNOLOGY

The optimization process of the port logistics requires efficient loading systems which belong to the FAM competency.

- Our product range encompasses:
- Ship Loader
- Grab Ship Unloader
- Continuous Ship Unloader



MINERAL PROCESSING
Our size reduction equipment includes diverse cru

Our size reduction equipment includes diverse crushers and mills for extensive material processing in a variety of industries. Sand and gravel, clay and limestone, gypsum, building site rubble – the reference list of the BEUMER Group's materials is extensive. From a technical standpoint, the systems are always at the heart of production.

Our processing technology encompasses a wide variety of crushing and screening machines, such as:

- Roller Mills
- Reversible Hammer Mills
- Special Hammer Mills
- Single Roller Crushers
- Double Roller Crushers
- Double Roller Sizer
- Double Rotor Hammer Crusher
- Impact Hammer Crushers
- Roller Screens
- Apron Feeders
- Feed Hoppers
- In-Pit Crushing Systems
- Mobile and Semimobile Crushing System

LOADING & UNLOADING SYSTEMS

FAM loading systems increase the volume of handled goods and reduce loading times. The product range includes:

- Wagon Unloading
- Train Loading
- Truck Loading & Unloading

www.beumergroup.com





> BROTHER INTERNATIONAL INDIA PVT. LTD.

Brother International (India) Private Limited Incorporated in 2006 operates with fully integrated sales, marketing, and service capabilities. Brother H.O. is located in Mumbai and currently has 6



showrooms in Chennai, Delhi, Bangalore, Pune, Kolkata & Lucknow. It services its customers through 15 warehouses nationally. Our product is available through authorized dealers across the country.

For more than a century, Brother has won recognition as a brand synonymous with delivering product innovation and customer satisfaction. A Japanese company founded in 1908, Brother has 17 production sites (incl. five factories of Brother Industries, Ltd.) and 52 sales companies operating in 44 countries in different regions today.

Brother is now a leading brand that produces quality innovative products for



the print and imaging, labelling, and sewing markets. Key products include Laser Printers, Multi-Function Centres (MFCs), Fax machines, Label printers, and a wide range of Home and Industrial Sewing Machines. A trusted brand worldwide that believes in the "Customer First" approach in all aspects of our business, Brother has continuously met the varied needs of our customers through our comprehensive range of quality solutions.

PT-E110VP

Label printer for electrical and datacom installations

Kev Features:

- QWERTY Keyboard
- · 200 Electrical and Datacomm symbol

PT-P900W

Wireless WIFI Industrial desktop labeller designed to meet the diverse needs of industrial professionals

Key Features:

- **Barcode Printing Function**
- High-Quality Labels with Auto-Lamination
- Fast Print Speed

PT-E550WVP

All-in-one wireless-enabled label printer

Kev Features:

- Print from PC or smartphone/tablet •
- Rechargeable battery pack
- Large backlit graphic display
- Advanced cutter for easy-to-peel labels
- Includes Tape / Cassette, AC adapter, lithium-ion battery, USB cable and carrv case
- Prints 3.5, 6, 9, 12, 18 and 24mm labels

FERRULE PRINTING MACHINE - PT-E850TKW

Industrial tube and label printer designed to meet the diverse needs of electricians.

Kev Features:

- **Barcode Printing Function**
- Fast Print Speed
- Heat Shrink Tube Feature
- · Wireless and USB connectivity

OL-800

High-Speed Professional Label Printer

Key Features:

- High-resolution printing (up to 300 x 600 dpi)
- convenient, drop-in rolls. No ink or toner needed

PT-D610BT

Connectable label printer for your business

Key Features:

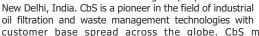
- Full colour, high-resolution back-lit display
- Fast print speeds and automatic tape cutter for high-volume jobs
- High print resolution for crisp barcodes, graphics, and logos when connected to a computer
- Print on label tapes up to 24mm wide
- Includes tape cassette, AC adapter

www.brother.in



CbS is a 2 decade old manufacturing company based out of

CBS TECHNOLOGIES PVT. LTD.





customer base spread across the globe. CbS manufactures oil filtration/Dehydration and separation machines for oils like Hydraulic/transformer/coolant/diesel/ turbine/ quenching etc. A QCI and ZED certified company which provides engineered solutions for customer needs in the field of oil and waste management. CbS is also the first company to have researched designed and developed the first stack disc separator under Make In India.

HYDRAULIC OIL FILTRATION MACHINE

Model: HOFP-NANO-1, Capacity:1000LPH Compact designed & Handy type best suitable machine to achieve NAS Level filtration results on Hydraulic oil

PORTABLE GEAR OIL CENTRIFUGAL FILTRATION

Machine that works on the basic principle of Centrifugal force. This centrifuge is driven by oil pressure. The Sludge holding capacity of this centrifuge is up to 5 kg up to 5kg.This Consumable free as well as maintenance expenses free machine.

ONLINE TRANSFORMER DRY OUT SYSTEM

It is a system that provides continuous maintenance of transformers to avoid premature equipment failure due to leakage of moisture and consequent damage to paper insulation. Available in static as well as in Portable models.

Trolley/Skid/Vehicle mounted Offline Transformer Oil Filtration Plant, Capacity:1000-24000LPH, These oil filtration plants are is suitable for treating used transformer oil by first heating it and then passing it through specially designed filters and then subjecting it to vacuum treatment which dehydrates and degasifies the oil to achieve the desired improvements after filtration It has single/ double stage degasification as applicable.

TURBINE OIL PURIFICATION SYSTEM

- Trolley / Castor wheel mounted.
- Moisture PPM improvement will be from more than 15000 to 50 PPM.
- Sludge holding capacity from 1 to 10 kg.
- Purifies upto sub micron level.
- Moisture & Solid removal centrifuge No Consumables.
- Based on high vacuum dehydration system.

www.cbsenergy.com









> CHANDERPUR WORKS PVT. LTD.



Manufacturers & Exporters of Cement Plants, Mineral Processing Equipments, Fertilizers Plants (SSP & NPK),

FGD Projects, Biomass Gasifiers, Coal Gasifiers, Paper Plants, Lime Plants & Material Handling Equipments.

••••

Our Equipment's are Well Renowned and our Prowess to Provide the Explicit, Process Associated, Robust and Cost-effective Grinding Solutions give us the Competitive Edge Over Others. Some of our other Key Products Consist of Hammer Mills, Roller Crushers, Rotary Kilns, Dryers, Drum Scrubbers, Rotary Lump Breaker, Air Classifiers, Separators, Pressure Vessels, Heat Exchangers, Conveyors, Screw Conveyors and Bucket Elevators Along with Heavy & Complicated Fabrication for the Plants.

With Complete In-house Design Manufacturing and Inspection & Testing Facilities and Innovation, We Provide Timely Completion of the Projects. We Use All The Latest Software Like Oracle ERP System for Smooth Management Workflow and Solid Works, Drive Works, Auto Cad, Stad for the Design

BALL MILLS





Our Ball Mill is highly advanced and specifically engineered for both wet and dry grinding applications.

- 450+ installations
- Robust & Reliable Design
- Easy Maintenance & Operation
- · Fully automated system with PLC control & Instrumentation

CENTRE DRIVE BALL MILL

Very easy to maintain as it requires no Grease Spray system. The gearbox is 'flanged', meaning it has no direct contact with the mill foundation. So, mill movements have no effect on the gearbox teeth.

DRUM SCRUBBERS

Rubber Tyre Drive drum scrubbers are a reliable solution for washing contaminated bulk material and industrial materials, and for preparing ores for beneficiation plant in wet process.

ROTARY LUMP BREAKER

Rotary lump breaker with pneumatic rubber tyre drive are used in technologically advanced "Metal Recovery Plant" in Steel Industry.

ROTARY DRYER

It is a continuously operated, direct contact Dryer. It consists of a slowly revolving cylindrical shell that is typically inclined to the horizontal a few degrees. The wet material is dried with the help of hot gases that may be generated in an external furnace.

AIR CLASSIFIER

Classifier is based on the natural laws of centrifugal, gravitational, and flow forces. These principles are used to bring about the classification in elements of different sizes.

www.chanderpur.com



We are authorized distributor, importer & stockist of Wear Plates, Alloy Plates, Corten Plates, HI Structutral Plates WEAR PLATES - 400 BHN / 450 BHN / 500 BHN / 550 BHN / 600 BHN QUENCHED & TEMPERED PLATES - S690QL / steel & alloys PVL Ito

S780LE / S700MC / HS800 STRUCTURAL STEEL PLATES - SAILMA 350/410/450, S355J2+N, E350 C/BR/BO LINER PLATES - SAILHARD / UTTAMHARD / JINDALHARD / TISCRAL / C45 ALLOY STEEL PLATES - SA 387 GR 5/11/12/22/91 BOILER PLATES - SA 516 GR 60/70, 16 Mo3 PLATES, SA 537 CL 1/2, 204 GR A/B PLATES CORTEN PLATES - IRSM 41, CORTEN A/B, S355J2W+N, ASTM 4 588 GR A, ASTM A 242 OTHER SPECIAL PLATES -ARMOUR PLATES, EN-19, CHROMIUM CARBIDE PLATES, HIGH MANGANESE PLATES (MN 13) We are having stock thickness from 4mm to 100mm in Abrex 400 / 500 grade plates and 6mm to 100mm in S690QL & 3mm to 10mm in S700MC Other than selling full plate, we are also specialized for Wearparts & Bucket as per customized drawing / design and as per your need. We also provide following service i.e CNC PLASMA, WATERJET, LASER - CUTTING, DRILLING, BENDING, COUNTERSUNK, WELDING & FABRICATION OF WEAR PARTS. We, therefore request you to please keep us updated in case of any of your PRESENT & FUTURE requirement in Wear Plates, Wearparts & Buckets. Other then above, we can supply you MILD STEEL, CARBON STEEL, STAINLESS STEEL, ALLOY STEEL, PIPES & PIPE FITTINGS, FLANGES, VALVES, FASTENER & ENGG Items.

Wear plates are abrasion resistant plates or liners that are used to reduce wear and tear in surfaces that are exposed to intense rolling abrasion and impact. These plates are made fit-for-purpose for a number of machines and products across the earthmoving, mining and other industrial industries.



S690QL is a high strength, low alloy structural steel with good weldability and bending properties. This high yield, high tensile versatile product is often chosen by designers to reduce weight in structures.

High manganese grade is an excellent work hardening, abrasion-resistant steel. This steel is a non-magnetic austenitic type, supplied in full plates or as profiled pieces by plasma cutting. Suitable for wear applications where high impact/gouging abrasion leads to a work hardening effect.

ASTM A36 Steel Plate is one of the most common grades of steel used in structural applications. This mild carbon steel grade contains chemical alloys that give it properties such as machinability, ductility, and strength that are ideal for use in constructing a variety of structures.

ASME SA387 – a high quality chrome molybdenum alloy steel plate intended specifically for use in weldable carbon steel pressure vessels at elevated temperatures. Added molybdenum gives the material greater temperature tensile strength and the chromium provides improved corrosion resistance.

Sa 516 gr 70 carbon steel are also popularly known as ASME SA516-70. Sa 516 grade 70 equivalent indian standard is a carbon pressure vessel steel grade and are prominently used in petroleum, power station, boiler, chemical and other such industries.

www.wearplatesindia.com



CONTINENTAL CONVEYORS PVT. LTD.

We, Continental Conveyors (P) Limited (CCPL) are one of the leading Manufacturers & Exporters of Rubber



Conveyor Belts with world class state-of-the-art manufacturing units located at Bhiwadi, Rajasthan, that is just 50 kms from New Delhi International Airport Company Overview CCPL incorporated in the year 1996, has been developing and manufacturing conveyor belts for more than two decades now. Our farreaching experience, innovation, state-of-the-art technologies and high production capacity, as well as our acute conveying know-how have made us one of the most reliable convevor belt manufacturers globally. Our Products We offer a broad range of conveyor belts of different grades such as M24, HR, FR, OR etc along with some specially developed grades such as UHR and SAR. We also manufacture special Chevron / Cleated Conveyor Belts suitable for High Inclination Angle with special feature of Integrated Moulded Cleats, along-with allied Rubber Products, to help accelerate your unique conveyor operations. We completely ensure safe, high-quality and highly efficient conveying even under extreme conditions. Manufacturing Capabilities 6 nos Vulcanizing Presses, upto 2300 mm width 2 nos 4 roll calendaring machine & 1 nos 3 roll calendaring machine in house R&D infrastructure State of the Art Testing Laboratory Wider belts upto 2200 mm width without any Longitudinal Joint in Fabric. Our capacity involves manufacturing of 2000 Mtrs. to 2200 Mtrs. of belt per day. Note: Please see below for the list of our major machineries and lab equipments. Qualitative Measures Continental Conveyors (P) Ltd is an ISO 9001:2015 Company which has retained its customers with its quality and value for money products. Our quality product is developed by our technocrats in our R&D lab for meeting the customer needs with perfection. We have fulfilled the needs of various clients for the rubber beltings to perform well in the adverse conditions and rough applications and which has resulted in performance appraisals from our number of clients. We have advanced and digital testing machines for precise observation and accurate results. Apart from IS 1891, we can manufacture the products as per international standards as per the client requirements. Market Captured Our Rubber Conveyor belts are widely used in several diversified industries for their Critical & Super Critical applications in Sectors like Cement Plants, Power Plants, Mining, Steel Plants, Sponge Iron Plants, Ports Fertilizer Plants, Coal Mining, OEMs, Sugar Units, Paper Mills, Rice Mills, Foundry, Construction Industry etc. We have come up with significant advancements in conveyor belts, to give ultimate life & performance. We offer Conveyor belts in various constructions, ratings & rubber grades as per the specific requirement of the clients.

GENERAL CONVEYOR BELTS



General Conveyor Belts consists of one or more Rubber Layers its common for the belts to have three layers Top cover, Carcass and Bottom cover.



- However, there are situations where more layers are required depending on the material being conveyed on the belt.
- General Conveyor Belt has a very simple construction and has minimal maintenance requirement.
- Two types of Fabric is used in General Conveyor Belts Polyester / Nylon

HEAT-RESISTANCE BEITS

Heat Resistance Belts are made for suitable use when ambient temperature or the temperature of the material being transported is 60 degree or above depending on the temperature and material being conveyed with heat resistance ranging from 80 degree to 220 degree.



HR-TI

HR-TI Belts are suitable for continuous temperature upto 120 degrees centigrade on belt surface and 180 degrees for material handled.

HR-T2

HR-T2 Grade is SBR based compound features, excellent heat resistance which is designed to carry hot load material with non-cracking properties. This belt is most suitable to carry cement products, lime stone Slagle, hot clinker etc.

HR-T3

HR-T3 Grade belts are the highest quality belts, suitable for maximum heat resistance with cover rubber formulated with EPDM rubber. This belt is ideal for handling hot clinker and other hot industrial materials.

FIRE-RETARDANT BELTS

FR grade belt is backed by fire retardant properties, specifically designed to

prevent fire from spreading over entire belt. CCPL FR grade belt protect from fire because of self extinguishing property this is achieved by adding special chemicals and additives to the rubber compound. Fire resistance qualities are for increased safety in covered or underground applications.



OIL RESISTANT BELTS

CCPL produce Oil resistance belts which has high tensile strength with resistance to damaging effects while conveying oil contaminated or treated materials it is inbuilt with wear and tear resistant and anti-abrasive property.

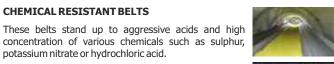
HYGIENIC FOOD GRADE BELTS

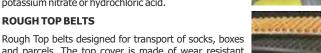
This belt is used for handling food materials. These belts are manufactured from natural rubber, special raw materials and chemicals without carbon. These belts are made of food grade polymer materials and polyester fabric with high strength. In the production of Food

Grade conveyor belts, we not only have to strictly control the raw material, but also need to pay attention to not use processing materials which is harmful to health.

CHEMICAL RESISTANT BELTS

potassium nitrate or hydrochloric acid.





and parcels. The top cover is made of wear resistant rubber with a non-slip surface. WAVY TOP BELT

ROUGH TOP BEI TS

Belts with wavy impression on top, suitable for loaders and weigh feeders & bag carrying.

CHEVRON / CLEATED BELTS

CCPL manufactures Chevron Belt which has rubber cleats that are integrally vulcanized with top cover of belt. These profiles are made with highly abrasion resistance rubber type and are offered in softer compounds (45 to 50) shore hardness. These belts are designed to deliver enhanced load carrying capacity in bulk with lump size up to 150mm.



RUBBER LAGGING

Eliminates belt slippage, increases belt life, its open design dissipates dirt, water and material build up; available in diamond profile; also available white logging sheet for use in sugar mills.



www.ccpl.in

CORESONANT SYSTEMS PVT. LTD.

Coresonant Systems is a leading provider of Smart Digital Mine solutions in mining industry across India.



Smart Digital Mine is an intelligent system that combines IOT sensors, wireless network, and real-time monitoring with AI based prediction of underground mine parameters. The system generates advance warnings & alerts with audio-visual systems not only to the workers inside the mines but also to officials at site, project office or remote centers. Further it enables effectively utilization of the assets and resources in underground mines .

Coresonant's Smart Digital Mine solution comprises of :

- Monitoring and prediction of various parameters using IoT-based Sensors for underground mine
 - Visualization of Mining Activities & Production Management at Surface
- Intrinsically Safe & Flame Proof 3D Laser Scanner
- Deep Convolution Neural Network Based Secure Wireless Voice Communication for Underground Miners Tacking and Voice Communication System
- Integrated Weather and Environment Monitoring System for Underground Mine
- Automated Gas Sampling and Analysis System for Sealed-off Area
- Harmful gas detector
- Portable Weather and Environment Monitoring Station
- Wireless Water Level Monitoring Device
- Mine workers personal alert system
- Heavy machinery collision avoidance system
- Inertial movement tracker
- GPS tracking of the equipment

Coresonant's smart digital mining solution is licensed and certified by Central Institute of Mining and Fuel Research (CIMFR).

PORTABLE WIRELESS COMMUNICATION DEVICE:

- Supports full duplex communication, which allows both miners to speak and listen simultaneously using common WLAN network (2.4GHz 802.11b/g/n/ac). **keen**
- These IP-based communication devices are used to communicate with a particular miner and also with multiple miners when broadcasting is required.

MINERS TRACKING DEVICE:

 Helps in tracking the miners in the mine areas for safety purpose.

STRATA MONITORING SYSTEM:

- System uses 4 sensors, namely load cell, roof convergence sensor, borehole extensometer, and stress cell for measurement of strata condition including load of roof at a particular point, convergence of roof, bed separation of roof strata, and stress on pillars.
- These sensors gather real-time data fro underground mine and send to the server through wireless network.
- Sensor values are checked against a set of threshold values and then accordingly, the software based on algorithm generates









three different levels of audio-visual warning signal with SMS/email, and various reports.

INTEGRATED WEATHER AND ENVIRONMENT MONITORING SYSTEM FOR UNDERGROUND MINE:

- The system is capable of recording and displaying real time data of different gases:
 - 2. Carbon Dioxide 1. Oxvaen 4. Methane 3. Carbon Monoxide
 - 5. Sulphur Dioxide 6. Nitrogen dioxide
 - 7. Hydrogen sulphide
- Other environmental parameters:

2. Temperature

1. Humidity 3. Air Velocity.

AUTOMATED GAS SAMPLING AND ANALYSIS SYSTEM FOR SEALED-OFF AREA :

- The system consists of data acquisition system, wireless network, 7 gas sensors fitted inside a box/chamber, 1 temperature sensor, 2 solenoid valves and a suction pump.
- The system monitors 7 gases:

Methane (Ch4)	Carbon Dioxide (Co2)
Carbon Monoxide (CO)	Nitrogen Oxide (NO)
Nitrogen Dioxide (No2)	Oxygen (O2)
Sulphur Dioxide (So2)	Hydrogen (H2)
Hydrogen Sulphide (H2S)	As well as temperature



Hydrogen Sulphide (H2S) As well as temperature.

The data is stored in the system as well as transmitted wirelessly to central server at surface control room after each 8 hours or as per particular interval as the requirement.

PORTABLE WEATHER AND ENVIRONMENT MONITORING STATION:

Monitoring of micro-climatic and environmental parameters in the pit surface Features:

Monitors hourly micro-climatic parameters:

,	•
(i) Wind speed	(ii) Wind direction
(iii) Temperature	(iv) Rainfall
(v) Humidity	
Monitors:	
(i) PM10	(ii) PM2.5





- Generates monthly, seasonal and annual average reports
- Creates wind rose diagram and frequency distribution report

WIRELESS WATER LEVEL MONITORING DEVICE:

An IP based water level monitoring module has been developed for underground mine where water is accumulated in sump and need to be pumped out at regular intervals.

(iv) Nox

- This sensor module consist of a ultrasonic sensor and wireless node.
- The software collects information from all the sensor through wireless network.
- When sensor value exceeds its preset threshold limit, it generates alarm.
- Graphical and real-time data are displayed in the central monitoring center on the surface.

FIXED AND PORTABLE POWER SUPPLIES:

- Intrinsically safe and flame-proof power supply has been developed for supplying power supply to wireless devices and sensors by tapping 110 V AC lighting supply of underground mine to 3-12 V DC as well as with battery backup in case of power failure.
- Where 110 V power supply line is not available, power supply will be provided wireless devices and sensors by portable intrinsically power bank and it will be replaced with another power bank after 1-2 months.



Charging of the portable power bank will be done at

surface control room.

SMART DIGITAL MINING SOFTWARE:

For monitoring and prediction using AI & IoT with the integrated hardware.



www.coresonant.com



CRC INDIA MANUFACTURING AND **DISTRIBUTORS PVT. LTD.**



CRC Industries is a worldwide supplier of chemical products for the industry, automotive and electro segments. The company consists of five operating groups headquartered in the United States, Belgium, the United Kingdom, Australia and South Africa. CRC Industries Europe is ISO 9001 certified. We manufacture and supply cleaners, lubricants, anti-corrosion products, adhesives, welding products, additives, moulding products and other specialty products...all for the European, African and Middle East areas.

We guarantee high quality products by following strict guidelines in all facets of research, development and production. We try to meet today's most stringent environmental and safety standards. Furthermore CRC develops new products and continues to adapt existing products to meet the needs of our customers.

5-56

Multi-Purpose Service Spray used for penetration, displacing moisture, loosens rusted parts, lubrication & protects metal parts against rust & corrosion

INDUSTRIAL DEGREASER

Fast drying cleaner & degreaser for mechanical equipment. For use in Food processing & Non-Food processing areas. NSF class K1 registered. Non-Corrosive.

BELT GRIP

Prevents slippage on Flat, Round and V-belts. Adhere strongly & reduces squeaking noise. NSF class H1 registered.

URETHANE ISOLATION

Air drying conformal urethane insulation coating for electrical/electronic equipment, motor windings, battery terminals, solenoids etc. It seals out water and moisture and acts as a barrier for contaminants.

CHAIN LUBE

Foaming lubricant, containing PTFE works as an excellent lubricant for driving and transport chains. Highly resistant to splash water and prevents corrosion to occur. For use in Food processing equipment. NSF H1 registered.

SP-400

A Long-term, outdoor and indoor corrosion inhibitor for machined surfaces and assemblies subjected to long period of storage or corrosion protection during overseas transport.



www.crcind.com



≫ CTC IMPEX (INDIA) PVT. LTD.

CTC IMPEX (INDIA) PVT. LTD. is a Mumbai, Ahmedabad - Morbi (Gujarat) and Savakis (Tamilnadu), Meerut (UP), Kashipur (UK), Ludhiana (Punjab) and Jaipur (Rajasthan) based company as CTC IMPEX (INDIA) PVT. LTD. Worlds' Largest Heavy Bearing Importer, Exporter



and Distributor. We offer widest range of steel plant, rolling mill & mining equipment bearing We are also keeping huge stocks of JUMBO SIZE of Bearings, Sleeves and Plummer blocks especially for cold and hot rolling mills, steel plant with some application, Back up roller for levellers/straightners roll neck bearings for Rolling mill & Steel industries.

CTC IMPEX (INDIA) PVT. LTD. is Exclusive certified Importers of KOYO & KYK (Japan), Kinex (Slovakia), & LYC - ZWZ (China), KDM (India)brand bearings. We also importing SKF, FAG, Timken, RHP, NACHI, NTN, NSK, & many popular brands of bearings in bulk quantities form our Duty free DUBAI office. At present we are on approved list of many private Ltd., Public Ltd. and govt.organisation in state of Rajasthan, Gujarat, and Karnataka etc.

DEEP GROOVE BALL BEARING

Deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration which enables high rotational speeds.

SPHERICAL ROLLER BEARING

Spherical roller bearings are used in extremely tough running conditions in highly demanding environments. The bearings are used in applications prone to misalignment or shaft deflection (bending of the shaft under specific circumstances, such as an axial load)

TAPERED ROLLER BEARING

Pairs of tapered roller bearings are used in car and vehicle wheel bearings where they must cope simultaneously with large vertical (radial) and horizontal (axial) forces. Tapered roller bearings are commonly used for moderate speed, heavy duty applications where durability is required.

SPHERICAL THRUST ROLLER BEARING

A spherical roller thrust bearing is a rolling- element bearing of thrust type that permits rotation with low friction, and permits angular misalignment. The bearing is designed to take radial loads, and heavy axial loads in one direction.

CYLINDRICAL ROLLER BEARING

Cylindrical roller bearings (CRBs) have a simple structure with their cylindrical rollers in linear contact with the raceways. They offer high load capacity under primarily radial loads. Low friction between the rollers and ring ribs makes these bearings suited for high speed rotation.

PILLOW BLOCK BEARING

A Pillow block bearing, or a bearing housing or plummer block, is a pedestal that is used to prove support for a rotating shaft with compatible bearings. Pillow block bearings are actually housings that have a bearing fitted into them

FOUR TAPERED ROLLER BEARING

Four-row tapered roller bearings can accommodate combined (radial and axial) loads at low to moderate speeds. They are used almost exclusively in work roll applications such as rolling mills.

DOUBLE ROW TAPERED ROLLER BEARING

Double -row tapered roller bearings can accommodate heavy radial loads, axial loads in both directions and have a high degree of stiffness. Double row tapered roller bearings are typically used in gearboxes, hoisting equipment, rolling mills and machines in the mining industry, e.g. tunnelling machines.

www.ctcbra.com





DANDONG DONGFANG MEASUREMENT & **CONTROL TECHNOLOGY CO.. LTD**

DFMC was established in 1996. More than 1300 engineers, work in more than 300 metallurgical mine enterprises around the world, successively developed more than 100 kinds of products in 12 major categories. The company has advocated for sustainable development, in order to make the use of world energy more safe and effective.

GPS FLEET MANAGEMENT SYSTEM FOR OPEN-PIT MINES

GPS fleet management system for open-pit mines has been widely applied in all kinds of large-scale open-pit mines. The system uses LTE, Mesh, digital radio and GPRS, etc.

MINERAL PROCESS AUTOMATION CONTROL SYSTEM

Automation system in mineral process has been applied in more than 300 large-scale metallurgical mines.

ONLINE XRF ELEMENT ANALYZER

Applying X-ray fluorescence energy dispersion analysis method, the products can directly measure the component and contents in the materials.

INLINE PARTICLE SIZE ANALYZER

The products can real-time measure the particle size and distribution of the slurry, offering grinding particle size distribution information.

www.dfmc-m.com

➤ DANIELS GT INDIA PVT. LTD.

The Daniels Company (TDC) has been Serving the coal industry since 1956ourservices include pre-feasibility, bankable feasibility, washery design and engineering and



turnkey project delivery. and Size of the projects varies from 0.5 to 11 MTPY coal preparation plants, up to 150,000 tons of storage systems and up to 5000 MTPH reclaim systems to truck or train precision loading.

The Daniels Company's experience in India includes furnishing of machinery layout, structural, civil, piping, electrical controls and instrumentation drawings to JSPL and Monnet Ispat for their Raigarh and PSEB projects, respectively. TDC has also successfully completed the feasibility study for the inclusion of intermediate circuit in the existing washery three of West Bokaro in the year 2019 for Tata Steel and provided the basic engineering package for the 10 Mtpa Coking Coal Washery Expansion Project at West Bokaro.

The Daniels Company manufactures world famous Daniels Dense Media Vessel, Three Product Cyclone, Fine Coal Heavy Media Cyclone, Screens, Mechanical and Jet Flotation Cells, High Efficiency Thickeners, Basket and Screen Bowl Centrifuges.

Daniels GT India Pvt. Ltd., established in 2017 to better serve the Indian clients, is a wholly owned subsidiary of The Daniels Company. Daniels GT India is presently executing the 4.56 Mtpa Thermal Coal Washery Project for Adani along with TDC. It has also supplied equipment like basket centrifuges and screen bowl centrifuges for different Coal India Projects. At present, the company is working for esteemed clients like ACB, Adani, CIL, Global Coal, IMR Resources and Tata Steel in India.

Coal Washeries: Serving the coal industry since 1956ourservices include pre-feasibility, bankable feasibility, washery design and engineering and turnkey project delivery. and. Size of the projects varies from 0.5 to 11 MTPY coal preparation plants, up



to 150,000 tons of storage systems and up to 5000 MTPH reclaim systems to truck or train precision loading.

Coal Handling Plants: Conveying systems, open ground storage with stacking tubes and or radial stackers, concrete silos, underground bunker with a 60-meter concrete dome and steel bins, with storage capacities varying from 500 to 100,000 tons.

Dense Media Vessel: The Daniels Washer offers various advantages over its competing HM vessels. The upflow design prevents media stratification and buildup of near-gravity materials, and precisely controlled medium density allows sharp separation.





Moreover, creation of fines is minimized by the adoption of gentle bath

method, and coal particle size from $14^{\prime\prime}$ to $8^{\prime\prime}$ (6 to 200 mm) can be processed by the Daniels Washer. The simple design of Daniels Washer allows easy operation.

Three-Product Cyclone: this patented process technology holds numerous advantages and high separation efficiency. It can handle capacity from 200 to 1300 for non-deslimed raw coal feed (up to 1430 TPH for deslimed raw coal feed) using just one unit. The feed coal size is up to 240 mm (or 9-1/2") for the



1500 mm HM cyclone. Magnetite consumption varies from 0.3-0.8 kg/t. Three products can be produced at once by the 3-product HM cyclone. Separation density in 1st stage cyclone can be controlled from 1.3 - 1.6 kg/L while separation density in 2nd stage cyclone can be easily adjusted and controlled from 1.7 - 2.3 kg/L, which cannot be achieved in a conventional HM cyclone process. The maximum capacity to remove reject is up to 70% of the raw coal feed.

Fine Coal Heavy Media Cyclone: The FHMC series fine coal HM cyclones are available in 9 different size. The fine coal HM cyclones are normally designed and used to process -0.5 mm fine coal in combination with the 3-product cyclone together. High separation efficiency with Ep value of about 0.06-0.08 for 0.5–0.1 mm coal



fraction, significantly lower than that of the conventional devices (spirals, reflux classifier and TBS). Significant reduction in capital investment by eliminating use of extra ultrafine magnetite suspension system.

JetCell Flotation: The third generation series Jet Cell Flotation, is specially designed for fine coal flotation. There are 12 models of the jetCells available in different capacities (4–60 m³/cell). Advantages of FJCA series jet cell flotation include:

- Generation of a large amount of micro-bubbles with high selectivity for fine coal flotation
- Much less maintenance due to no moving parts
- · Excellent wear life.
- Significant reduction of flotation reagent consumption due to use of patented emulsification system and/or patented atomizing & Falling Coal Slurry Conditioner.
- High unit capacity (6–10 m³/m³/hr) and low power consumption
- Successfully applied inover 300 coal preparation plants.

www.daniels-wv.com



> DARLING PUMPS PVT. LTD.

DARLING PUMPS is a leading Indian Designing SMART pumping solutions...

manufacturer of submersible pumps, an ISO-9001:2015 company, founded in 1982 under the leadership of Late Shri Avinash B Ranade.

Darling Pumps with its market expertise of 40 years has been the chief architect of submersible pump revolution in India. Only indigenous pump manufacturing company having entire range of Submersible Pumps under one roof i.e. Pumps for Clear water to Raw water, Dewatering Pumps, Waster water & Sewage Pumps, Slurry Handling Pumps & also specialised range of pumps for pumping Sea Water & for pumping Hot Temperature liquids up to 90° C.

In over last two decades Mr. Sandeep Naolekar – Managing Director, with his true grit and determination, has single handed taken company to greater heights. In short span, Darling Pumps has evolved from being a pump manufacturing company to One stop pumping solution provider.

Today, Darling Pumps is recognized for its undisputed capabilities of – "Designing SMART Pumping Solutions" – S – Simple, M – Maintainable, A – Affordable, R – Reliable, T- Trustworthy

With our unmatched range of products, today we are catering to entire spectrum of applications in arena of Construction, Industrial, Marine, Municipal, Agricultural and Domestic water management.

SLURRY HANDLING PUMPS

- Flow Up to 18000 LPM
- Head Up to 100 m

- Rating 3.7 kW to 186 kW
- Frequency 50 Hz
- Power Supply Three Phase, AC
- Motor Type Wet Type / Dry Type
- Synchronous Speed 4 Pole & 6 Pole
- Specific Gravity Up to 2.8
- Solid Passage Up to 40 mm

Applications: Highly Abrasive Mill Scale, Iron Ore & Pallet Slurries, Mineral Ore Processing Units, Ash & Coal Handling, Slag Slurry, Granite & Marble Slurry, Industrial Waste Removals, Cleaning of Jack/Intake Well, Removal of Sand Deposits

DEWATERING PUMPS

- Flow Up to 20000 LPM
- Head Up to 140 m
- Rating 0.55 kW to 150 kW
- Frequency 50 Hz
- Power Supply Three Phase, AC
- Motor Type Wet Type / Dry Type
- Synchronous Speed 2 Pole & 4 Pole

Applications: Storm Water Dewatering, Dewatering of Heavily Contaminated Water, Industrial Water, Flood Relief, Dam Sites, Road & Bridge Building, Micro Tunneling Projects, Mines Dewatering, Sea Water Pumping

WASTE WATER & SEWAGE PUMPS

- Flow Up to 35000 LPM
- Head Up to 100 m
- Rating 2.2 kW to 220 kW
- Frequency 50 Hz
- Power Supply Three Phase, AC
- Motor Type Wet Type / Dry Type
- Synchronous Speed 2, 4 & 6 Pole
- Solid Passage Up to 100 mm

Applications: Raw & Un-screened Sewage, Industrial Wastes & Effluents, STP & ETP Plants, Municipal Sewer Lines, River Cleaning Projects, Pharmaceutical, Textile & Tanning Units, RO Reject / Desalination

CLEAR & RAW WATER PUMPS

- Flow Up to 20000 LPM
- Head Up to 170 m
- Rating 2.2 kW to 220 kW
- Frequency 50 Hz
- Power Supply Three Phase, AC
- Motor Type Wet Type / Dry Type
- Synchronous Speed 2 Pole & 4 Pole

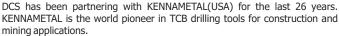
Applications: River Water Pumping, Intake Water Supply for Various Industries, Water Treatment Plants, Sea Water Pumping, Irrigation & Water Supply Projects, Fire Fighting, Flood Control

www.darlingpumps.in



> DCS TECHNO SERVICES PVT. LTD.

Established in 1997, DCS Techno Services Pvt Ltd – A Delta Group Company – is specialized in the sales of construction & mining equipment and drilling tools.



Today, DCS is an exceptionally fast developing organization and is specially geared to handle the infrastructure segment which is witnessing phenomenal activity in our country. In the last 26 years, DCS has added a whole host of infrastructure-related solutions to its armoury enabling it to strategically drive









the future growth of the company.

A wide range of Products and Solutions

DCS Markets and Supports a wide range of products sourced from reliable brands across the world. These products include:

Rockzone Rock cutter, Hydraulic Rock Breaker, Dynaset special attachments, Kennametal Road Milling / Surface Mining Tools, Turbo Pre cleaners, P&V Rock tools

A Wide Network

DCS has spread its reach to all the metro cities in India i.e. MUMBAI, KOLKATA, CHENNAI, BENGALURU, HYDERABAD, UDAIPUR and NEW DELHI. We also cover many spoke locations.

DCS has 5 warehouses "Hyderabad" "Mumbai" Trichy" "Chittorgarh" & "Bengaluru.

All our Sales and Service records are meticulously maintained in a CRM System, which enables our team to maintain our impeccable record for timely follow-ups and on-time delivery and maintenance. We take our commitments seriously.

www.dcstechno.com



> DERRICK SOLUTIONS INDIA PVT. LTD.

Derrick® has manufactured an array of innovative wet and dry, fine screening technology for the Mining & Industrial marketplace for 70 years. Derrick offers



its clients leading-edge solutions to maximize separation efficiency. Using this patented equipment and innovative screen surface technology, offers unmatched performance – increased product recovery and reduced power consumption. Derrick's latest patented products are the SuperStack® 8-Deck, the highest capacity fine wet screening machine in the world today.

SUPERSTACK - PRODUCT DESCRIPTION

Derrick Corporation has once again redefined high capacity, high efficiency, fine particle wet screening with the introduction of the SuperStack®. With 8 decks operating in parallel and innovative Front-to-Back (FTB) tensioning system, the SuperStack has a demonstrated capacity up to 3 times that of the best fine screens currently available. All of this added



capacity comes with only a slight increase in the space required per machine, significantly reducing the total capital and installation cost as well as OPEX for any screening installation.

Short Option #2

Derrick Corporation redefined high capacity, high efficiency, fine particle wet screening with the introduction of the SuperStack[®]. With 8 decks operating in parallel and innovative Front-to-Back (FTB) tensioning system, the SuperStack has a demonstrated capacity up to 3 times that of the best fine screens currently available.

REPULP SCREEN – PRODUCT DESCRIPTION

The Derrick Repulp Wet Sizing Screen is the solution for difficult to screen materials that require the Oversize product fraction to meet tight quality specifications. The Repulp machine's high speed, low amplitude motion coupled with its countercurrent spray wash water system effectively removes fine particles. It has a long history of producing high value products for numerous industrial mineral and precious metal industries. Numerous machines can be found worldwide screening silica sand, feldspar, coal, iron ore, gold ore and many other materials.



Short Option #2

The Derrick Repulp Wet Sizing Screen is the solution for difficult to screen materials that require the Oversize product fraction to meet tight quality specifications. The Repulp machine's high speed, low amplitude motion coupled with its countercurrent spray wash water system effectively removes fine particles while screening silica sand, feldspar, coal, iron ore, gold ore and many other materials worldwide.

LINEAR MOTION MACHINES - PRODUCT DESCRIPTION

Derrick Linear Motion machines have a long history of performing in trash screening and wet scalping applications. When fitted with high g-force Derrick vibrators and fed thickened slurry, typically from hydrocyclone underflow, the Linear Motion machines perform a dewatering function that enhances the removal of free liquid from the oversize solids. Derrick



Fines Recovery Systems utilize this combination of small diameter hydrocyclones and Linear Motion machines to recover and dewater solids as fine as 325 mesh (45 microns). Numerous systems can be found operating in sand, aggregate, coal, concrete, graphite dewatering applications worldwide.

Short Option #2

Derrick Linear Motion machines have a long history of performing in trash screening and wet scalping applications. Derrick Fines Recovery Systems utilize small diameter hydrocyclones and Linear Motion machines to recover and dewater solids as fine as 325 mesh (45 microns). Numerous systems can be found operating in sand, aggregate, coal, concrete, graphite dewatering applications worldwide.

www.derrick.com



> DINAMIC OIL INDIA PVT. LTD.

Dinamic Oil India Pvt. Ltd. is a 100% subsidiary of Dinamic Oil S.p.A, Italy. Established in India in the year 2008 closer to the capital of the country



(Near Delhi) to cater to the needs of the Indian subcontinent, as well as exporting to different countries. We have offices in key locations across the country & state of art manufacturing facility to meet the market needs.

The India Operations can deliver complete solutions from design to execution while supporting customers in the product definition, selection and design.

Dinamic Oil S.p.A, was established in year 1970 and after more than 45 years it constantly improved by research and development and grew by expanding its operations globally. With extensive sales & distributor network across the globe, it is a recognized leading company for the Planetary Gearboxes & Hoisting Solutions market.

Dinamic Oil, with headquarters in Modena, has consolidated its position on the international market, where it now has three production units, 8 subsidiaries in Europe, the Americas and Asia and an extensive network of distributors around the world.

We have adopted a "flexible thinking" approach that allows us to offer standard solutions as well as customized solutions dedicated to several markets.

HYDRAULIC HOISTING WINCH

The standard range covers from 500 kg to 30 Tons line pull. Customized winches can be produced according to specific requirements e.g. (manriding, double cable drum, special grooved drum, customized dimensions). The standard range covers from 500 kg to 30 Tons line pull. Winches are equipped with orbit motors or axial piston motors, negative multi disc brake and a variety of accessories are available e.g.: tension rollers, third



wrap indicators, load sensing, grooved drums, level-winds, absolute encoders. Medium Marine Grade Painting is standard on all winches. Customized winches can be produced according to specific requirements e.g. (manriding, double cable drum, special grooved drum, customized dimensions).

SLEWING GEARBOXES

This standard range covers from 3.000 Nm to 160.000 Nm nominal torque, however special solutions are available for torque values up to 2.000.000 Nm. The gearboxes have a compact design and a strong output support suitable for applications with high radial loads. Each model can be supplied with pinion shaft or male shafts (splined or cylindrical). Amongst the many



accessories available static brakes can be fitted in a low opening pressure version (suitable for closed loop circuit) or in a dry version (suitable for high speed motor).

TRACK DRIVES

This range covers from 80.000 to 900.000 Nm of maximum torque, equivalent to machine weights of 30 - 300 Tons (excavator) or 100 - 450 Tons (crawler cranes). The models are designed with ground gears and steel case and carriers in order to be the best solution for the most demanding applications. The

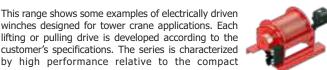


modularity of the stage composition allows an extended range of ratios. These features make the EH series particularly suitable for alternative applications such as wheels drives, winch drives and marine pipe layer drives.

WHEEL DRIVES

This small range covers from 800 Nm to 3.500 Nm maximum torque. The models are suitable for track drives and for wheel drives applications because of the relatively high load supported by the bearings (8.000 kg in the EH models). Several accessories are available (including static brake, disengagement system, control valves).

TOWER CRANE WINCH



winches designed for tower crane applications. Each lifting or pulling drive is developed according to the customer's specifications. The series is characterized by high performance relative to the compact dimensions

HYDRAULIC PULLING WINCH

This range covers from 1000 kg to 30 tons of line pull. The design incorporates three independent elements (hydraulic motor, static brake and planetary gearbox), to provide maximum reliability and ease of maintenance.

PLANETARY WINCH DRIVES

This range covers from 26.000 Nm to 195.000 Nm nominal torque. The design is optimized for the heaviest applications in drilling, mobile and marine markets. Product certificates are available on demand (DNV, ABS, LR, GL and other major classification societies).



>> DMT CONSULTING PVT. LTD.

DMT is recognized as a world leading exploration, engineering and consulting group offering a broad spectrum of professional, multi-disciplinary, expertise to the mining sector at all stages of development and operation. This extends from

exploration, resource and reserve evaluation through scoping, prefeasibility and feasibility studies, to detailed design, operational assistance, training and finally to closure and rehabilitation.

DMT's roots date back to 1734. DMT comprises 14 operational consulting and engineering companies and more than 30 branches worldwide. DMT's international consulting is carried out through seven operating subsidiaries which are strategically located around the world. The group has a long history of providing consulting and engineering services to global mining industry.

The international engineering & consulting service provider DMT serves the four markets Mining, Infrastructure & Civil Engineering, Oil & Gas, and Plant & Process Engineering. We provide independent services in engineering, consulting, exploration and geotechnics, as well as measuring and research.

EXPLORATION AND GEOLOGY

- Exploration planning and assistance, onsite and offsite.
- Resource modelling and reporting
- Resource assessment confirming to international reporting standards - JORC, SAMREC, KCMI etc.
- Expert team in wide range of mineral and fuel precious, ferrous, non-ferrous, poly metallic, Industry minerals, coal, lignite etc



- Arbitration Assistance-Experience of arbitration in international court.
- Independent audits

MINE PLANNING AND ENGINEERING

- Detailed planning for open pit, UG, placer and offshore mining
- Mining method selection & design.
- Mine optimisation and scheduling
- Geotechnical and rock mechanics.
- Mineral process design & waste management plans
- Equipment selection
- Logistics
- Layout & infrastructure design.
- Procurement assistance
- Environment, closure and rededication.

PROJECT MANAGEMENT FEASIBILITY AND DESIGN

- Managing the technical aspects. of several projects.
- Scoping & Pre-Feasibility Studies
- **Bankable Feasibility Studies** ٠
- Mine Planning & Design
- Mineral preparation & processing
- Bulk handling systems design
- Logistics planning

PROCUREMENT & OPERATIONAL ASSISTANCE

Owner's Engineer

Projects are long term commitments and DMT-Group will always ensure that experienced consultants are on-hand to assist throughout all stages of a project's development, including:

- Project Management.
- Design & Engineering preparation & review.
- Construction Supervision.
- Equipment Specifications.
- Procurement and Contracts.
- Technical Training.
- Environmental & Social.
- Health & Safety.
- Commissioning & Start-up.
- Mine planning & operations.
- Operational Management.

MINERAL BENEFICIATION AND PROCESSING

Project Management

- **Project Supervision**
- Cost Controlling
- Quality Management

Technical Advisory Services

- Pre-Feasibility Studies
- Technical Evaluation
- Due Diligence Studies
- Debottlenecking and Productivity Improvement Studies

Process Development

- Process Flowsheet Development
- Equipment Sizing and Selection (in collaboration with OEM)

Performance and Safety Audits

- Auditing Safety and Plant Performance, Mass Balance, onsite training, etc.
- **RESOURCE & RESERVE ESTIMATION**
- Sampling & Lab testing Supervision
- Data Validation, QA/QC
- Geological Modelling/Block Modelling
- Resource & Reserve Estimation















www.dinamicoil.com

- UNFC, JORC, SAMREC, NI 43-101 Reporting
- Resource/Reserve Independent Audits

GYROSCOPE SENSOR GYROMAT

Our GYROMAT 5000 is the most accurate surveying gyroscope in the world. Its measurement method compensates for possible sources of error such as refraction, error propagation, or even plumb line errors when the direction is to be determined from a shaft.

Our gyroscope sensor offers the following advantages:

- Reliable north-seeking gyroscope
- Compensates for error sources and measurement deviations such as refraction, error propagation or plumb line errors when measuring direction from a shaft.
- Application guarantees planning reliability and cost efficiency.

Menu-controlled measurement sequence



- Extended monitoring functions
- · Gyroscopic measuring unit with reliable intermediate energy storage
- · Fully automatic measuring sequence
- Pre-orientation-free measuring method
- Wired interfaces (USB / RS- 232) for control and data transmission
- Certified according to DIN 18723 part 7 (1990)

HIGH QUALITY SEISMIC SURVEYS AND MONITORING: THE SUMMIT SERIES

The seismographs of the SUMMIT family are outstanding measuring instruments for seismic data acquisition. They provide optimal information for your construction or exploration project; save you costs and help deliver planning reliability. Our instruments offer you a versatile and modular measuring system for various tasks in active seismic exploration and passive seismic monitoring for the measurement of vibrations. The measuring devices are characterised by their flexibility and ease of operation, especially for challenging field applications.

The measuring instruments of the SUMMIT series include:

 SUMMIT X One: Flexible snap-on seismograph for high-resolution seismic measurements in exploration



- SUMMIT II Ex: Worldwide unique seismograph for measurements in explosive environments
- SUMMIT M Vipa: Seismograph for monitoring and measuring vibrations.
- · Vib3D: The new IoT sensor for real-time vibration monitoring

CORESCAN: CORE SCANNING & GEOPHYSICAL LOGGING AT HIGH-TECH QUALITY LEVEL

With our core scanner system, you create a reliable system for structuring and evaluating your drill cores for construction, repository and exploration projects, save costs and manage data efficiently. Our scanner provides you with high-resolution images of your drill core in a unique 360-degree processing. The subsequent digital processing of the data ensures you the best and fastest results from your costly drillings. The CoreScan offers a resolution of up to 40px/mm and is suitable for cores with large diameters.

The digital drill core scanning and core imaging system provides:

- High-tech core logging
- Drill core imaging
- 360° core imaging
- Quantitative fracture analysis
- Digital core library and drill core management system
- Online data accessibility
- UV fluorescence imaging

IMAGER 5006EX

The IMAGER 5006EX is the first ATEX-certified survey laser scanner. Based on the high quality survey laser scanner Z+F IMAGER® 5006, DMT and Zoller+Froehlich GmbH collaborated to develop a laser scanner for safe data acquisition and remote sensing in even the most demanding, high-risk environments.

Applications of the IMAGER 5006EX:

As-built documentation

- Safety inspections
- Accident and damage analysis
- Deformation analysis
- Acceptance inspection of contractual work
- Volume calculation and variance comparison

Geological rock face survey

DMT ANCORELOG

DMT's ANCORELOG, the analytical core logging system, delivers precise information deducted from chemical, mineralogical, physical and textural drill core properties through a combination of innovative technologies.

- Technical Specifications
- Dimensions: Length: 2.20 m, Depth: 1.50 m,
- Height: 1.70 m, Weight: 300 kg
- Modular multi-sensor measurement head
- 3-axial linear moving stage controlled by high
- quality SIEMENS PLC
- · Electric power supply:
- 230 V heavy current
- · Connection: USB 2.0
- Control software: ANCORELOG

www.dmt-group.com



DULEVO INDIA PVT. LTD.

Dulevo India Pvt. Ltd. is a Joint Venture of Dulevo International SpA, Italy (part of Fayat Group) in India. Dulevo International is a leader in the field of Industrial and Road Sweeping Machines with presence in over 60 countries.

Dulevo machines have been working in India since 2002 in various tough environments like M/s Tata Steel, M/s Tata Steel BSL, M/s JSW Steel, M/s Vedanta, M/s Infosys, M/s Larsen & Toubro, M/s Nestle India, M/s Hindalco, M/s Dr. Reddy's Laboratories, M/s Jindal Steel & Power Ltd., M/s Dalmia Cement, M/s Ultratech etc.

The Dulevo machines have been designed for tough conditions and have proved themselves on the ground in India. Dulevo machines work on the Mechanical Suction Technology with high capacity filtration using Gore Filtration products. The sweeping results of Dulevo sweeping machines in heavy dust environments are exceptional.

Some key characteristics of Dulevo machines are as follows:

- Single engine machines with low emissions.
- Machines duly approved by CIRT and homologated on Vahan portal.
- Low turning radius and facility of high dump.
- Filtration of 95% of PM10 dust particles.
- Low fuel consumption.
- High sweeping speed.
- Sweeping without the use of water.

DULEVO 6000

- Road Sweeping Machine specially designed for sweeping in high dust environments without the use of water.
- Dulevo 6000 is a 6.2 cbm Self-Propelled Mechanical Suction Sweeping Machine. The machine is incorporated with a PM2.5 & PM10 filtration system. The machine has dumping height of 2.4 mtrs. along with low turning radius of 4.8 mtrs.
- Specially designed for Mines, Steel Plants, Power Plants, Cement Plants, Bulk Material Handling Ports.



Existing customers include: Tata Steel, JSW Steel, JSPL, Vedanta Ltd.,



 $\ensuremath{\mathsf{Vishakhapatnam}}$ Port Trust, Ultratech Cement, Hindalco Industries and many more.

DULEVO D3

- Road Sweeping Machine specially designed for sweeping in high dust environments without the use of water.
- Dulevo D3 is a 3.3 cbm Self-Propelled Mechanical Suction Sweeping Machine. The machine is incorporated with a PM2.5 & PM10 filtration system. The machine has dumping height of 1.5 mtrs with a low turning radius.



 Existing customers include: Tata Steel, JSW Steel, JSPL, Vedanta Ltd., Vishakhapatnam Port Trust, Ultratech Cement, Hindalco Industries and many more.

DULEVO 120

- Road Sweeping Machine specially designed for sweeping in high dust environments without the use of water.
- Dulevo 120 is a very compact and powerful sweeping machine designed to work in heavy industrial environments. The machine is highly manoeuvrable and can work in narrow spaces. The machine is incorporated with a PM2.5 & PM10 filtration system.



 Existing customers include: Tata Steel, JSW Steel, JSPL, Vedanta Ltd., Vishakhapatnam Port Trust, Ultratech Cement, Hindalco Industries and many more.

www.dulevoindia.com



> EASTMAN CRUSHER COMPANY PVT. LTD.

M/s Eastman Crusher Company Pvt Ltd is a diversified engineering company with core business activity in bulk material handling and online analysis solution. M/s Eastman is involved in design, engineering, manufacturing, supply, service and consulting of various types of Auto Sampling System, Lab



equipment, Crushers, Process control equipment, Online analyser, Automation catering several sectors like Mines, Thermal Power Plants, Cement Plants, Mineral process plant, Integrated Steel Plant etc in India since more than 40 years. M/s Eastman has also reached to emerging markets across the Globe, e.g; Malaysia, Indonesia, Vietnam, Senegal etc. We successfully executed and became trustworthy supplier to our overseas clients like Hyundai, GE Power, FLsdmith, Tenova, Thyssenkrupp etc apart from almost all the domestic clients like Coal India, NTPC, Tata Steel, BHEL, SAIL, HINDALCO, MOIL, Reliance, Adani etc.Our factories with state of art facility is based in West Bengal are capable to manufacture different ranges of material handling equipment to meet growing demand. By the continuous design support and collaboration with reputed institutes/global technology providers, M/s Eastman developed innovative solutions to serve various sectors. It's wide distributor/associates network in domestic and international market serve the client at any location. Apart from it's own products, M/s Eastman also represent Global OEM for particular products for respective territory in Asia.

CRUSHER

Crushers are the machines used to reduce the size of Minerals, rocks, stones, and ore. They are often utilized in aggregates production, construction material recycling and in mining operations. We are designer



manufacturer of Crushing Equipments (e.g., Jaw Crusher, Roll Crusher, Hammer Crusher, Ring Granulator, etc.) which are used in Production purposes as well as in Mineral testing Laboratories

ONLINE COAL ASH MOISTURE & GCV ANALYSER

Online Coal Ash Moisture & GCV Analyser: We proudly present first ever green technology based Online Coal Ash Moisture & GCV analyser. To make systems more reliable and safer, we have introduced latest Dual Energy X-Ray Transmission Technology which is a safe, accurate and highly flexible system

for fast and accurate Coal Quality analysis.

This AERB approved system comes with no radioactive waste or debris and also with Zero / NILL radiation leakage at "OFF" condition. Vibrating Screens

VIBRATING SCREENS

A vibrating screen is formed by a vibrant chassis that supports its surfaces or elements of screening. The screens/sieves serve to classify the different particles by size, starting from

a bulk product in a continuous process. The inlet material advances from the part where the screen is fed to the

opposite end in which the particles come out separately according to their size, shape or density. We have a variety of Vibrating Screens as required by clients, e.g., Single-Deck, Double-Deck, Multi-Deck etc.

AUTOMATIC CROSS BELT SAMPLER

Automatic Cross Belt Sampler collects the materials from the running conveyors with specified time interval without damaging the belt or without losing any characteristic of the materials. Then the sample is discharged through outlet chute for further processing or for sample testing in Lab. Our Sampler is conforming all the National & International Sample Collection standards.



MATERIAL HANDLING EQUIPMENTS

Material Handling Equipments are everywhere to convey the bulk materials from one side to another side in industries or raw material production plants. For conveying/elevating materials vertically upward we have Bucket Elevators, for conveying fine particles with multiple discharging points we have Screw Conveyors and we also have most commonly used Belt Feeder/Conveyors to move materials in an inclined position.



ONLINE AUTOMATIC SAMPLING SYSTEM WITH COLLECTING, CRUSHING & REJECTION

Online Automatic Sampling System is starts with belt top scooper then the materials will feed to a/more crusher through a/more belt feeder and then the crushed materials will go through a sample division system then one of those divisions is collected as final sample & the rest is rejected or fed back to main conveyor through Bucket Elevator & Screw



Conveyor. Eastman also designed & installed Modular/Console type sampling systems at many Coal & Power Generations Plants

AUGER SAMPLING SYSTEM

The Auger Sampling system model UNI-Sampler (Patented in USA) was developed by JOHNSON Industry to sample from trucks, wagon/railcars and barges in an easier, faster and less expensive way. This revolutionary technology UNI- Sampler has already gained worldwide acceptance, successfully operating in the United States, China, India, Russia, Ukraine etc. with more than 80 nos. in installations Worldwide. In India, JOHNSON Auger sampling systems are being



operated in leading teo companies, e.g.; Balco (Korba plant) and KPCL Raichur plant. As a sampling system expert, M/s Eastman has become the license manufacturer of M/s Johnson, USA to produce their Sampling system for supply in Indian customer and export to other countries which is a perfect example of "Atmanirbhar Bharat". (A brief about Uni- sampler is enclosed at Annexure).

- Simple & Rugged Design with quick and easy Installation &
- Ability to sample till the bottom of the Truck
- The Primary splitting, crushing and secondary sampling are done within the Auger assembly (patented design)
- Worldwide acceptance

ONLINE ELEMENTAL ANALYSER- SMASH



The Scanmin SMASH analyser/ analyzer is online elemental analyzer has been developed using the latest cutting-edge digital technology. Important Coal constituents to the thermal power and coal industries, are measured directly by using the Scanmin signature neutron inelastic scatter and thermal neutron capture analysis. The analyser / analyzer uses an Am241Be



J ELECTRO

ZAVOD

radionuclide neutron source to excite the material directly on a conveyor belt and produce real-time analysis results. The SMASH analyser / analyzer is unique in that it can measure both organic and inorganic matter in Coal i.e., Carbon, Hydrogen, Oxygen etc.

www.eastmancrusher.com



≫ ELECTRO ZAVOD (INDIA) PVT. LTD.

Founded in 1973, Electro Zavod is a specialized manufacturer of equipment for the Bulk Material Handling industry manufactured indigenously at our state of the art factory in Kolkata.

Our product portfolio includes :

- 1. Vibrating Screens (Technology Jost GMBH Co KG, Germany).
- 2. Vibrating Feeders (Technology Erka OY, Finland).
- 3. Magnetic Separators (Technology Älmhults El Mek AB, Sweden).
- 4. Lifting Magnets (Collaboration- Rotary Engineering, UK).
- 5. Cable Reeling Drums, Hose Reeling Drum & Slip Ring Assemblies (Technology Bischoff & Hensel, Germany).
- 6. Industrial Metal Detectors.

Unique design and engineering expertise ensures that our products as customised to meet the stringent requirements of each application in the core engineering sector viz; Steel , Sponge, Cement , Power Generation, Mining & Metals, Ports & Docks, Mineral Ore Handling Plants, Ceramic Fertiliser, Food, Paper & Chemical Industries.

With CE , ATEX, BIS & CIMFR certifications, our robust equipment have outshone competition in terms of their sheer performance.

We are approved by most Consultants, Power generation & Electricity authorities, Ports, Cement plants, Steel Plant, Fertilizer plants, Defence units and so on.

Our clientele list includes names like ABB, ACC, Adani, Aditya Birla Group, Alstom, Areva India, Atlas Copco, Avantha, BGR Energy, BEML,BHEL, Danieli, FL Smidth,Gebr Pfeiffer, Humboldt Wedag, ISGEC, ITC, JSPL, JSW, JSL, Larsen & Toubro, Metso Minerals, Mukand, McNally Bharat, NLC, NMDC, NTPC, Reliance, SAIL, Sandvik, Shapoorji Pallonii, Siemens, SMS, State Power Utilities, Takraf, Thyssenkrupp, Tata Power, Tata Projects, Tata Steel, Thermax, TRF, Vedanta and many more.

MAGNETIC SEPARATORS

Electro Zavod has been providing magnetic separators to segregate the magnetic materials from non-metal fractions for a variety of applications – in Steel, Sponge, mining Cement, Power, Ports etc.

Types: Electro-magnet or Permanent magnet type

Variants:

 Electromagnetic separators: Suspended, Overband (inline or cross-belt), boosting type.



- Permanent separators: Belt type, Magnetic pulley, Magnetic drum
- Cooling options: Oil cooled or air cooled

Advantages:

• Easy to highly efficient, install and maintain & weather-proof

CABLE AND HOSE REELING DRUMS

We offer a comprehensive range of motorised cable and hose reeling drums with stall torque motor drive, VVFD drives with squirrel cage motor & spring types for safe & efficient transmission of power, data, and fluids from

stationary to mobile equipment.

Applications:

 Mining, Steel, Cement, Power, Ports and many other industries.

Variants :

- Semi-parallel drums: Used for short cable lengths and for voltage up to 415 V; winding cable not guided.
- Monospiral drums: Used for any cable length and voltage up to 11 KV; overall diameter determined based on available clearance
- Parallel or barrel-type drums: Used for any cable length; voltage up to 35 KV; winding cable uniformly guided

Advantages:

• Rugged, Low in maintenance & high on performance.

VIBRATING FEEDERS

Precision-engineered Electro Zavod Vibrating Feeders use controlled mechanical vibrations to feed a variety of bulk materials (solids, powder, or granules) to a specific process or machine.

Applications:

maintenance.

Feeding crushers, mixers, furnaces & scales, loading & sorting plants, and discharging materials from hoppers for Mining & Metals, Steel, Power, Cement, Ports and many other industries.

Variants:

 Vibrating Feeder with Unbalanced Motor is designed with an electromechanical drive and produces linear vibrations; enclosed, dirt and dust-proof, IP-



 Vibrating Feeders with dual force exciters consist of two counter-rotating shafts with centrifugal weights that create linear vibrations.

65 protected, and require minimal

 Vibrating Feeders with direct force exciters consist of dual shafts counter rotating via a toothed gear. These are suitable for heavy material handling in massive quantities.

Advantages:

Guaranteed operational reliability, efficient flow rates, low power consumption, low noise levels (less than 80 DBA), long equipment life

VIBRATING SCREENS

Electro Zavod Vibrating Screens are economical, customisable & designed for maximum screening efficiency with the smallest possible screening area. Special attention is given to G-forces, vertical acceleration, single particle ballistic and stratification of the product to ensure maximum performance.



Applications:

 Mines and Quarries, Cement and Steel industries, Fertilizer plants, Chemical and Pharmaceuticals plants, Food industries, Glass factories and other industries.

Variants:

- Vibrating grizzly screens are used for extracting small, coarse materials from storage hoppers for a wide range of materials from 2500tph iron ore to 200tph of quarry stone for the most arduous operating conditions.
- Circular motion screens are highly effective at handling high volumes of difficult-to-detect products such as angular, fibrous, and wedge- shaped shredded parts.
- Linear motion screens provide maximum performance and capacity using 'thin bed' screening technology. Operated either by two unbalance motors or by a mechanical exciter, these screens work best at low inclination with slope angles.
- Multi-slope vibrating screens are designed for fine particle separation requiring high level of precision. With varying deck slopes, the screens achieve greater screening efficiencies at higher capacities than conventional horizontal-type screens.
- Dewatering screens are suitable for separating solids from liquids in the wet ore and mineral processing industry.

Advantages:

• Guaranteed operational reliability, efficient flow rates, low power consumption, low noise levels (less than 80 DBA), long equipment life

SLIP RING ASSEMBLIES

Electro Zavod Slip Ring Assemblies are designed for power and data transmissions from stationary to rotating or oscillating equipment .

Applications:

 Rotary kilns for Sponge Iron & others, Excavators, and rotary cranes Reclaimers / Stackers, Circular Blenders, Cable Reeling Drums,etc.



Advantages:

Compact, easy to install, weather-proof, vermin-proof, and long equipment life

INDUSTRIAL METAL DETECTORS

 Electro Zavod Pulse Metal Detectors can easily identify and reject magnetic as well as nonmagnetic metal contaminations to avoid any machinery hazards, and save production downtime.



 Our industrial metal detectors have a 30-year record of high detection sensitivity and reliability under tough conditions.

Applications:

 Coal Handling Plants, Cement Plants, Mining (Coal, Lignite, Ores), Thermal Power Plants, Chemical Plants, Glass Manufacturing Units, Plastics, Paper Mills, Plywood Manufacturing Units, and Rubber Processing Units.

Advantages:

 Easy installation, easily adjustable sensitivity, low power consumption, and trouble-free operations

LIFTING MAGNETS

Electro Zavod provides low dead weight circular Lifting Magnets for handling a variety of bulk materials such as heavy melting scrap, broken scrap, steeling turnings, cast iron boring, and others. Designed for rugged dependability, these magnets can pick up large weights faster and more conveniently than mechanical devices.

Applications:

 Steel plants, Scrap processing yards, Foundries, Material handling like steel plates, coils billets, shredding, etc.



Advantages:

 Massive lifting capacity, low power consumption, weather-proof design, easy to maintain, and low cost of ownership

www.electrozavod.com



> ELECTROPNEUMATICS AND HYDRAULICS (I) PVT. LTD.

We would like to introduce ourselves as "Electropneumatics and Hydraulics (I) Pvt. Ltd." company based in Pune at Kharabe Wadi, chakan.



Electropneumatics operates in four divisions mentioned below where we design & manufacture:

- Machine division Tube Bending Machines, Metal Forming Machines, Hydraulic Press & Servo Press
- Fluid power division Pneumatic Valves, Pneumatic Cylinder & Hydraulic Cylinder & Power Packs
- Component division Tube and sheet hydroforming for Automotive and Auto component sectors
- Motion control division AC Servo Drives, AC servo motors & CNC Controls
- Strategic Project division Defense Projects

Electropneumatics started its Fluid Power Division with the manufacture of

pneumatic valves in 1972. From pneumatic valves, it progressed into making of pneumatic cylinders, hydraulic cylinders and hydraulic power units in the following years.

The Fluid power division has more than 50 years of experience in design & manufacturing of Pneumatics valves, cylinders. We have supplied thousands of valves and cylinders performing 24x7 in different industry sectors like Automotive, Machine Tool, Chemical, Steel, Pharmaceutical, Foundry

The Electropneumatics product range in Pneumatics includes:

- Pneumatic valves
- Pneumatic cylinders
- Air-line accessories
- Hydraulic cylinders
- Hydraulic power units

We will be very interested to discuss mutually benefiting business opportunities mainly in the areas of supplying Pneumatic Valves, Cylinder & Hydraulic cylinders.

PNEUMATIC VALVES, 2-WAY, 2-POSITION (SOLENOID/PILOT OPERATED)

- 2/2 In-line direct acting, diaphragm type and pilot piston actuated valves
- Suitable for air, water and low pressure oil media
- Port sizes up to G 4
- · Bubble tight shut off, quick response to actuation
- Mounts in any position
- · Continuous duty cycle coil
- Material: Body- brass/gunmetal, Cover- aluminium/brass, Seals- nitrile
- Options: 2/2 NC, NO in solenoid and pilot version, Auto drain valve
- Specials: High pressure 2/2 valve up to 28 bar
- Application: Drain and dispensing

PNEUMATIC VALVES, 3 AND 4-WAY, 2-POSITION (SOLENOID / PILOT OPERATED)

- 5/2, 3/2 NO and NC high flow capacity poppet valve
- Sturdy and reliable poppet design
- Port sizes up to G 1 1/2
- Low power solenoid with a range of AC/DC voltages
- Speed up to 600 cycles/min, life up to 10 million cycles
- Manual override as a standard feature
- Material: Body, Piston, Housing- aluminium, Seals- nitrile
- Options: 3/2 NO, NC and 5/2 valve in solenoid and pilot version
- Application: Single-acting and double-acting cylinders

PNEUMATIC VALVES, 4-WAY, 3-POSITION (SOLENOID / PILOT OPERATED)

- 5/3 Solenoid and pilot actuated high flow capacity poppet valve
- Sturdy and reliable poppet design
- Port sizes up to G 1 1/2
- Low power solenoid with a range of AC/DC voltages
- Speed up to 600 cycles/min, life up to 10 million cycles
- · Manual override as a standard feature
- Material: Body, Piston, Housing- aluminium, Sealsnitrile
- Options: PHN and PRN type in solenoid and pilot version
- Application: Double-acting cylinders and control valves

PNEUMATIC VALVES, STACKABLE SERIES

- 5/2, 5/3 Solenoid actuated stackable type poppet valve
- Internal/external pilot operated poppet design
- Streamlined construction for gang manifold
- Compact size with high flow, improves system appearance and performance



Mounts in any position



• 5/2 Solenoid and pilot actuated spool type compact valve

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- Sleek aesthetics with spool type design
- High performance from proven design

Options: 3/2, 5/2 and 5/3 types in all sizes

PNEUMATIC VALVES, COMPACT SERIES

- · Air spring assisted design for faster response time
- Low power solenoid and manual override as a standard feature

Material: Body, Piston, Housing-aluminium, Seals-nitrile

G 1/4 inlet and cylinder ports

Continuous duty cycle coil

- · Facility of gang manifolding
- Options: G 1/8 inlet and cylinder ports, spring return mushroom button and detent type selector switch, single pilot and double pilot

PNEUMATIC VALVES, DUAL SENSING

- Optimum poppet technology for high shift consistency
- High flow and dirt tolerant
- Valves supplied with switch reactor
- Application: Used as safety valve in power presses and for clutch/brake controls

STANDARD PNEUMATIC CYLINDERS

- Cylinders with cast iron end covers and 'Round' profile M.S. hard chrome plated tube
- · Extremely rugged and heavy duty
- Ideal for use in tough industrial environments
- Large range of bore sizes and mountings
- Stroke length offered up to 3000 mm
- Up to 10 ton load capacity
- Options: Bellows, Viton Seals, Hollow Shaft, Rod Extension and Rod Threading
- Specials: Single-acting, stroke adjustable, double-ended, duplex and large port

ISO PNEUMATIC CYLINDERS (SERIES S)

- Cylinders with aluminium casting end covers, aluminium casting piston and 'Square' profile aluminium tube
- High performance cylinders for modern demands
- · Polyurethane seal ensures long life and high speed
- Dimensions as per ISO 15552, VDMA 24562
- Modern type injection moulded reed switch
- 3 psi minimum pressure to move cylinder
- Options: Bellows, Viton seals, hollow shaft, rod extension and rod threading
- Specials: Reed switch, single-acting, stroke adjustable, double-ended and duplex

ISO PNEUMATIC CYLINDERS (SERIES R)

- Cylinders with aluminium casting end covers, aluminium casting piston and 'Round' profile aluminium tube
- · High performance cylinders for modern demands
- Dimensions as per ISO 15552, VDMA 24562
- Polyurethane seals for long life and high speed
- · Injection moulded reed switch with aluminium bracket
- 3 psi minimum pressure to move cylinder
- · Options: Bellow, Viton seals, hollow shaft, rod extension and rod threading
- Specials: Reed switch, single-acting, stroke adjustable, double-ended and duplex

ISO COMPACT PNEUMATIC CYLINDERS

- Space saving, compact and light weight design
- Dimensions as per ISO 21287

- · Low friction, long life seals
- Large clamping force in relation to size
- Standard t-slot for magnetic reed switch
- Magnetic sensor common for all sizes
- Options: Male and female piston rod threading, foot and flange mountings, Viton seals
- Specials: Single-acting and double ended
- Available mountings to suit leading international brands

AIR-LINE ACCESSORIES

- Rugged and durable design
- Works up to 10 bar pressure
- Used to perform supportive pneumatic functions
- Variety
- Flow control valves with fine regulation
- Quick exhaust valves for higher cylinder speeds
- Inline check valves with low closing pressure
- High pressure (20 bar) inline check valves
- Rotor seal coupling in sizes up to G 1 1/2
- Inline mounted hand slide valves
- Silencers
- Air blow guns

STANDARD HYDRAULIC CYLINDERS

- Cylinders with M.S. end covers and 'Round' profile M.S. honed tube
- Long established design, proven ruggedness and reliability
- PTFE seals and bearing strips ensure perfect sealing and smooth movement
- Externally removable bolt-on cartridge assembly
- Stroke length offered up to 3500 mm
- Working pressure up to 200 bar
- Options: Bellows, rod extension and rod threading
- Specials: Bore above dia. 300 mm, LVDT, double ended, stroke adjustable, large ports, working pressure up to 345 bar

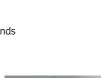
EPCN SERIES HYDRAULIC CYLINDER

- Cylinders with M.S. end cover and 'Round' profile M.S. honed tube
- Designed suit to die casting
- · PTFE seals and bearing strips ensure perfect sealing and smooth movement
- Non cushion as a standard feature, cushion (optional)
- Stroke length offered up to 500 mm
- Working pressure up to 140 bar
- · Viton seal as a standard feature
- Piston rod is available with thread and coupler type version.
- Front and rear flange mounting are available.
- Construction: Tube –mild steel seamless tube with ID honed and hard chrome plated.
- Piston rod: EN8 hard chrome plated.

COMPACT HYDRAULIC CYLINDER

- Designed suit to die casting
- PTFE seals and bearing strips ensure perfect sealing and smooth movement
- Non cushion as a standard feature, cushion (optional)
- Stroke length offered up to 50 mm
- Working pressure up to 140 bar
- Viton seal as a standard feature
- Piston rod is available with male/female thread and coupler type version.
- Front and rear flange mounting are available.



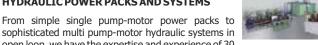




high speed 1562 vitch

- Construction: Compact steel body with ID ground and hard chrome plated.
- Piston rod: EN8 hard chrome plated.

HYDRAULIC POWER PACKS AND SYSTEMS



sophisticated multi pump-motor hydraulic systems in open loop, we have the expertise and experience of 30 years to design and build hydraulic power systems to meet your requirement. Using modern-technology hydraulic elements, modular manifold construction, electrical interlocks and the latest design and building techniques in hydraulics,

we can provide our customers with energy-efficient, reliable hydraulic power systems. These power systems can be supplied along with hydraulic cylinders and controls for operation.

PNEUMO-HYDRAULIC BOOSTER PUMPS

- Design of pressure intensification up to 1000 bar
 - Works on the principle of different bore area ratios
- Suitable for oil, water and various other fluids
- Available in various bore area ratios
- Option: Double-acting booster pumps with higher displacement per stroke, higher capacity hydraulic tanks
- Application: Pressure testing of valves, pressure vessels, fittings, hoses and pipes. Used as power source for clamp heads, hydraulic actuators and expansion of AC condenser coils

www.electropneumatics.com



EMG AUTOMATION INDIA PVT. LTD. & LASE INDUSTRIAL LASER MEASUREMENT

As an independent manufacturer of electromechanical and electrohydraulic drive solutions, EMG offers many additional products for a wide variety applications. Whether it's for explosion-protected sectors, high-voltage



areas below ground, actuation systems in wind power stations, conveyance technology and lock equipment, the energy-optimised actuation of truck loading platforms, or for use on cable railways: EMG is prepared for the challenge.

The various series models from our ELDRO® and ELHY® brands come into their own in "limitless" areas of application.

ELDRO® has been a registered trademark since the early 1930s.

The BRAKEMATIC control solution, an electronic control unit with variable parameter settings to create regulated brake torque profiles, rounds off the product range for drive solutions.

Typical areas of application for our products and solutions include:

- Lifting and conveying technology
- Ports and cranes
- Steel and metallurgy

Our customers are always the focal point of our activities. We support their success and satisfaction through state-of-the-art and flexible applications, together with highly competent advice and a service that is tailored to suit each customer.

Thanks to our many years of experience, we are able to make a contribution to the competitiveness of our customers through continuous and consistent new and further developments on the basis of innovative production technologies and high quality demands.

We aim to impress our customers, employees and proprietors with an outstanding level of service, as well as cooperation that is based on trust and partnership.

EMG Automation GmbH tied-up with LASE GmbH for the distribution and service of LASE products globally and in India for bulk ports, mining and metal industry.

LASE is a worldwide leading company for laser-based sensor applications in the field of industrial automation. LASE offers innovative and productive solutions by combining state-of-the-art laser technology with sophisticated application

software. The wide range of precise and reliable 1D, 2D and 3D laser systems can be used for numerous industrial applications and helps our customers to improve processes or to increase safety.

Efficient handling of Raw material equipment becomes more important and due to the permanently competitive markets our laser-based products and software solutions help to enhance efficiency, productivity as well as safety. The increasing level of automation in Raw Material Handling system and a high demand in risk reduction are the main challenges for plant operations worldwide.

In this area, laser-based systems help to detect, measure and prevent collisions, which are designed for objects and machines like Stacker Reclaimer machine, cranes, containers, transport vehicles, crane booms, Stacker Reclaimer booms and further equipment. It also measures volumes of bulk materials in help, in trucks and on conveyers with 3D laser technology.

ELDRO® EXPLOSION-PROOF SERIES

Areas of application

Gases, vapours, fumes and dust are generated or escape during the production, processing, transport and storage of combustible substances in many industrial sectors. When combined with oxygen, an explosive atmosphere can develop. If this ignites, it can result in explosions and cause serious personal injury and material damage. The sectors concerned include, for example, the chemical and petrochemical industries, pharmaceuticals, oil and gas production, mining, as well as the food industry, the biofuel industry and the wastewater sector.

Explosion-protected ELDRO® devices are ideal for these areas of application. They comply with current regulations and standards and can be used in a variety of ways.

Hazardous area:

- I M2 (Mining)
- II 2G for zone 1 and 2 (above ground)
- II 2D for zone 21 and 22 (above ground)

Certificate of conformity:

- ATEX BVS 05 ATEX E 074 X
- IECEx IECEx BVS 12.0014X
- ТР ТС RU C-DE.ГБ04.В.00477

THE APPLICATION LASEBVB - BULK VOLUME BUNKER IS A HIGHLY PRECISE THREE-DIMENSIONAL MEASUREMENT SYSTEM ESPECIALLY DEVELOPED FOR MEASUREMENTS IN BUNKER STORAGES.

The application has a high versatility and can be used for volume and profile measurements in several types of bunker storages. This specific software product derives from the product line CEWS Bulk Volume Module.

Applications and features:

- · Highly accurate bunker volume and profile measurement
- Bunker measurement for inventory purposes
- Enables full process optimisation
- Applicable in bulk storages/bunkers like cement clinkers, power plants or incinerators
- Ensures automated pick and drop of bulk material

3D visualisation of measurement data **Customer benefits:**

- Optimisation of material distribution and dispatching
- Reduced effort through continuous inventory
- Usable as calculation basis with regular status reports
- · Improved computer-aided quality assurance

THE APPLICATION LASEBVC - BULK VOLUME CONVEYOR IS A HIGHLY PRECISE TWO-DIMENSIONAL MEASUREMENT SYSTEM ESPECIALLY DEVELOPED FOR THE MEASUREMENT OF MATERIALS **ON CONVEYOR BELT SYSTEMS.**

Because of its robust design this system allows a reliable operation even at raw environmental conditions. This specific software product derives from the product line CEWS Bulk Volume Module.

Applications and features:

- Contactless 2D volume and mass flow measurement
- · Simultaneous operation of up to four systems/conveyors



- · Integrated monitoring and data analysis
- Sum counter for volume and mass flow rate
- Measurement of belt position movements •

Customer benefits:

- Exact volume determination by high-resolution laser scanners .
- Maximising conveyor throughput
- Simple installation on mounting frame
- Reduced maintenance costs
- Increased service life of the conveyor

THE APPLICATION LASEBVH - BULK VOLUME MEASUREMENT IS A HIGHLY PRECISE THREE-DIMENSIONAL MEASUREMENT SYSTEM ESPECIALLY DEVELOPED FOR MEASUREMENTS IN HEAPS OR PILES.

The application has a high versatility and can be used for volume and profile measurements in several types of heaps and piles. This specific software product derives from the product line CEWS Bulk Volume Module.

Applications and features:

- Exact 3D stockpile profile and volume measurement system
- Enables fully automated stacker/reclaimer operation
- Identification of stockpile setup within inventory
- Optimised operating distance of bucket wheel and stockpile ٠
- Real-time scan model of the stockyard

Customer benefits:

- Exact volume and profile measurement
- Continuous and reliable inventory
- Total bulk material monitoring and management
- Enhanced productivity through efficient scan runs
- Facilitates material management ٠
- Increases safety by optional collision prevention system

THE APPLICATION LASETVM - TRUCK VOLUME MEASUREMENT IS A HIGHLY PRECISE 2D-/3D LASER MEASUREMENT SYSTEM ESPECIALLY DEVELOPED FOR THE MEASUREMENT OF TRUCK LOADING VOLUMES.

The application has a high versatility and can be used for volume and profile measurements of all different materials - such as stones, sand, ore or even wood chips - also in rough environments.

Applications and features:

- · Automatic payload measurement
- No queuing by fast measurement process
- Easy and fast installation •
- Elimination of faulty weight measurements by humidity within conversion (up to 20% of the volume)
- Exclusion of weight and volume manipulations
- Highly exact laser measuring system (accuracy approx. 2%) .
- · Instant volume acquisition without conversion factors

Additional options:

- **RFID** truck identification
- OCR truck identification
- HD camera for load pictures

THE APPLICATION LASEBTL - BULK TRAIN LOADING-STATION IS A SOLUTION APPLIED FOR THE FULLY AUTOMATED EMPTINESS AND FILLING LEVEL CONTROL AS WELL AS POSITIONING.

This application has a high versatility and can be used for volume and profile measurements of all different materials - such as stones, sand, ore or coal which are transported on wagons by train.

Applications and features:

- · Ensures fully automated train loading processes
- Wagon size, position and speed determination
- Emptiness control and height measurement
- Filling level control (during and after loading process)

- Wagon ID recognition (optionally)
- **Customer benefits:**
- Exact volume and position measurement
- Reliable results through state-of-the-art laser technology
- Time-efficient and non-stop loading process
- Spillage control detects waste of material (optionally)
- Rugged design ensures operation in harsh environments

www.emg-automation.com



ENTVENT TOOLS & SERVICES

We take pride in introducing ourselves as one of the leading manufacturers of Belt Conveyor Idlers & Idlers Sets in India. Entvent's dedicated service to the Conveyor industry started in the year 1971. For over 4 decades now, Entvent has been manufacturing and supplying Belt Conveyor



Idlers & Idlers Sets to various industries to provide efficient & economic operation. The company is managed by highly qualified and trained team of engineers, who strive hard to maintain a high level of quality and with a vision to constantly improve the same. Our manufacturing facility is equipped with sophisticated machinery to ensure high quality finished products. Our

manufacturing facility has an installed capacity, to produce 5000 Idlers / month. Entvent Idlers are in regular service in various Mines, Thermal power plants, ports, Cement plants and various other places that require conveyance of bulk material.



Belt Conveyor Idler Set – Idlers are in Regular Service in Various Mines, Thermal Power Plants, Ports, Cement Plants and Various other Places.

Belt Conveyor Idler Piece - Idlers are in Regular Service in Various Mines, Thermal Power Plants, Ports, Cement Plants and Various other Places.

Track Link Pin – Pins are used in Equipment Bucket Wheel Excavator at Mines.

Link Bolt and Nut - Link Bolt Nut are used in Idlers Sets and General Purpose.

Mill Housing Armouring Part - Parts are used in Thermal Power Stations Operation and Maintenance Department.

EN8 Bright Bar - Bars are used in Idler Shaft and General Machined items.

www.entvent.in



EPLAN SOFTWARE

EPLAN provides software and service solutions in the fields of electrical, automation and mechatronic engineering. We develop one of the world's leading design software solutions for machine, plant and panel builders.

"Efficient engineering" is our focus: EPLAN is the ideal partner to streamline challenging engineering processes. No matter whether small or large enterprises, we strive to enable our customers to apply their expertise more effciently.



EPLAN ELECTRIC P8

The ECAD Standard for Your Engineering - More Than Just Drawing Schematics

EPLAN Electric P8 is a consistent, integrated and fast engineering system for you to plan and design the electrical engineering for machines and plant



systems. The software supports a wide variety of engineering methods: from manual creation through to standardised and template-based approaches. The project data, once entered into the schematic, become the foundation for the automated completion of machine and plant system documentation. In short, EPLAN Electric P8 offers you much more than "just" drawing schematics and circuit diagrams.



EPLAN PRO PANEL

Integrated Design in 2D and 3D for Panel Building and Switchgear System Engineering



EPLAN Pro Panel gives you a stable foundation for automating and industrialising your panel building. It enables 3D design and construction of control cabinets, switchgear systems and power distribution systems for energy distribution. EPLAN Pro Panel provides you an integrated solution for control cabinet design.

EPLAN FLUID

Engineering Software Especially for Fluid Power Designs

EPLAN Fluid is your engineering tool, especially for designing and automatically documenting schematics for fluid power systems including hydraulics, pneumatics, cooling and lubrication. The software supports a broad range of engineering methods, from manual creation to standardised and template-based work. Once entered into the schematics, the project data form the foundation for automatically completing



machine and plant system documentation. In short, EPLAN Fluid offers you much more than "just" drawing schematics.

www.eplan.in



FALCON SCREENS

With an experience & expertise of almost 20 years in offering the best screening media solutions across Quarry, Aggregates, Coal washeries, Iron ore & Mineral Beneficiation plants.



Falcon Screens are always one step ahead in offering highly reliable screening media solutions & in developing technological innovations that can satisfy an unlimited number of screening application needs even in the most demanding screening conditions.

Falcon Screens gets the standard for excellence through product innovation, quality manufacturing and responsive customer care.

Falcon Screens's success would not be possible without the contribution of our customers and employees who, with their skills and their passion, give voice, shape & quality to the future.

WOVEN WIRE MESH

 Woven wire mesh is the most widely used screens in the aggregate and mining industries, due to their high screening area, precision and price ratio.



 Falcon screens meshes are manufactured under latest technology along with in hand expertise of 20 years.

POLY RIPPLE SCREEN (ANTI CLOGGING SCREEN)

- Poly ripple screen cloth is light but durable with higher open area than woven wire.
- Very active & increases throughput when compared with conventional woven wire screen cloth.
- Reduced Pegging or blinding increased efficiency & capacity.

POLY VENO HARP SCREEN (ANTI CLOGGING SCREEN)

• Poly Veno harp screen cloth is light but durable with higher open area than

woven wire.

- Known to last up to 3 times longer than other standard screen cloth.
- Overcome the wear problem caused by using the finer aperture screen cloth due to high T.P.H. or the lump size.
- Reduced Pegging or blinding increased efficiency & capacity.

POLY PIANO SCREEN (ANTI CLOGGING SCREEN)

- Extremely effective in screening drymanufactured sand.
 - Can increase production in screening fine, sticky materials or other lightweight but difficult-to-screen materials.
- Ideal for screening RAP asphalt and other, similar aggregates, as well as for removal of super-fine material.

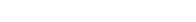
POLYURETHANE SCREEN

- Polyurethane, due to its high anti-abrasiveness and great elastic properties, is advisable for screening abrasive material and performs at its utmost under dry or humid conditions.
- PU can be formulated in various hardnesses, formats, according to the application it is used for.
- Maximum duration compared with other screening materials.
- Minimum maintenance cost.
- Easy to install Low obstruction (conic perforations and elasticity).

POLYURETHANE FLIP FLOP SCREEN MAT

www.falconscreening.com





FRACWELL MINERS PVT. LTD.

Fracwell Miners has partnered with IHNBVHolland to supply refurbished roadheaders and also provide spare and maintenance support for these equipments. We offer a wide range of roadheaders in a range of 25 up to 120 tons. These machines are designed to bore through rock,



allowing for the creation of tunnels, mines, and etc. However, high costs associated with acquiring new roadheaders can pose challenges to budgetconstrained projects.

Refurbished roadheaders offer a cost-effective alternative to purchasing new machines while still maintaining high performance standards. These roadheaders are typically used machines that undergo a comprehensive refurbishment process to restore their functionality and extend their lifespan. The process involves thorough inspections, repairs, and upgrades to ensure optimal performance and safety.

By refurbishing and reusing existing machines, the environmental impact associated with manufacturing new equipment is reduced. In addition they offer shorter lead times compared to acquiring new machines, as the refurbishment process typically takes less time than manufacturing a new unit.

In conclusion, refurbished roadheaders with their cost savings, shortened lead times, and comprehensive support, are an attractive option for enhancing productivity in underground construction and mining



Refurbished AM 50 roadheader is a reliable and efficient machine for underground mining and tunneling applications.

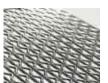
Cutting Motor: 100 KW / 132 KW

Refurbished AM 75 roadheader is a powerful machine for underground mining and tunneling applications.



Cutting Motor : 200 KW

Refurbished AM 85 roadheader is a boom type production machine in the 100 t



range for underground mining and tunneling applications.

Cutting Motor: 325 KW

www.fracwellminers.com





▶ FRUTIGER INDIA PVT. LTD.

FRUTIGER created the MobyDick brand more than 30 mobydick years ago. Since then, more than 8000 MobyDick Wheel Washing, Dust Control and Demucking systems have been put into operation in 72 countries. Today more than 3,500



international customers use the world's leading products with the unmistakable whale logo. In addition to small and medium-sized companies, these include numerous global corporations such as TATA, Vedanta, Hindalco, HZL, NTPC, Vinci, Holcim, Rio Tinto, Tata Steel, ThyssenKrupp as well as government agencies, armies, and NATO.

AUTOMATIC WHEEL WASH SYSTEM: AN EFFECTIVE SOLUTION FOR **CLEAN ROADS**

In the pursuit of cleaner and safer roads, the wheel wash system has emerged as a vital tool for maintaining pristine road conditions. This innovative technology helps prevent the spread of dirt, debris, and pollutants by effectively cleaning vehicles' wheels as they enter or exit construction sites, quarries, mines, or other muddy areas. Ensuring that contaminants are not transferred onto public roads. This promotes better road safety and reduces environmental impacts by preventing soil erosion and pollution.



TITLE: REVOLUTIONIZING CLEANLINESS: MOBILE WHEEL WASH SYSTEMS

In today's fast-paced world, maintaining cleanliness is paramount. Introducing the game-changer, the mobile wheel wash system. This innovative technology offers a quick and effective solution for removing dirt, grime, and contaminants from vehicle wheels on the go. With its compact design and portability, the system can be



easily transported to construction sites, industrial areas, or events, ensuring compliance with environmental regulations. By using advanced water recycling and filtration mechanisms, it minimizes water usage and promotes sustainability. Say goodbye to muddy tracks and environmental concerns, as mobile wheel wash systems provide a convenient and eco-friendly solution to keep our roads and surroundings cleaner than ever before.

THE EFFICIENCY OF MILITARY VEHICLE WASHING SYSTEMS

Keeping military vehicles clean is essential for maintaining operational readiness and extending lifespan. The advent of advanced military vehicle washing systems has revolutionized this crucial maintenance task. Moreover, they are designed to meet stringent military standards, ensuring compatibility



with various vehicle types. With automated processes, reduced water consumption, and improved waste management, these washing systems optimize efficiency while minimizing environmental impact. By incorporating cutting-edge technology, military vehicle washing systems provide a vital solution for maintaining the cleanliness and functionality of military fleets, ultimately enhancing mission readiness.

TAILOR-MADE WASHING SYSTEM FOR 240-TON OPEN CAST DUMPERS

In the mining industry, the maintenance and cleanliness of heavy machinery play a crucial role in ensuring optimal performance and longevity. The introduction of a specialized 240-ton open-cast dumper wash system has revolutionized the cleaning process. With its automated operation and guick turnaround time, this washing system enhances productivity while



reducing downtime. By maintaining the pristine condition of these massive machines, the 240-ton open-cast dumper wash system significantly contributes to a safer and more efficient mining operation.

HIGH-PRESSURE TRUCK & BUS WASH SYSTEMS: STREAMLINING

VEHICLE MAINTENANCE

High-pressure truck wash systems are revolutionizing the way commercial vehicles are cleaned. These advanced systems utilize powerful jets of water to effectively remove dirt, grime, and debris, ensuring a thorough and efficient cleaning process. With their ability to reach every nook and cranny, high-pressure



systems provide a superior clean compared to traditional methods. They save time, water, and energy, making them an eco-friendly solution. Moreover, the high pressure not only cleans the surface but also helps to maintain the vehicle's paint and finish. Overall, high-pressure truck wash systems offer a reliable and convenient way to keep trucks spotless, contributing to improved maintenance and longevity.

THE EFFICIENT 3-BRUSH BUS WASH SYSTEM

The 3-brush bus wash system has revolutionized the vehicle cleaning industry, offering an efficient and thorough cleaning solution. This advanced system comprises three rotating brushes that work in tandem to remove dirt, grime, and debris from buses of all sizes. The first brush sprays a gentle yet effective detergent, loosening stubborn stains. The second brush intensively scrubs the surface, ensuring a deep clean. Finally, the third brush thoroughly rinses the bus, leaving it sparkling and spotless. With its streamlined



design and powerful cleaning capabilities, the 3-brush bus wash system optimizes cleaning time, enhances vehicle appearance, and contributes to a more sustainable transportation fleet.

THE EFFICIENCY OF THE 3-BRUSH CAR WASH SYSTEM

The 3-brush car wash system has become a popular choice among car owners seeking a quick and efficient cleaning solution. This system utilizes three rotating brushes to remove dirt, grime, and debris from the vehicle's exterior. With its advanced technology, the brushes are designed to provide thorough coverage and ensure a sparkling finish. Additionally, the system



incorporates high-pressure water jets and foaming agents for enhanced cleaning power. The 3-brush car wash system offers a time-saving solution, allowing multiple vehicles to be washed simultaneously. Its effectiveness, convenience, and ability to maintain a vehicle's shine make it a top choice for those seeking a reliable and efficient car wash experience.

www.mobvdickindia.com

www.mobydick.com



≫ GALAXY CHAINS PVT. LTD.



YOU will indeed agree that chains, transmitting mechanical power, are critical components for all GALAXY CHAINS PVT. LTD. industries. The chain quality can impart valuable edge, minimizing Breakdowns & enhancing Productivity.

GALAXY CHAINS, since 1991, has been providing Cost Effective Solutions through supply of Roller Chains, all type of Leaf Chains, Extended Pitch Chains, Attachment Chains & Agriculture Chains. Rich Experience clubbed with Technical 'know-how' as well as Sophisticated Equipment & utmost 'care' for QUALITY has paved way towards wide acceptance by many industries such as Fertilizer, Chemical, Agriculture, Power, Cement, Bottling & Railways.

Our meticulous Workmanship (ensuring precision quality) and stringently maintained QMS have earned us prestigious API7F (withdrawn-March2022) and ISO 9001:2015 certifications as well as ISI & UNICEF approvals.

The supply of Bottling chains to various units of IOC across India, has been our significant achievement. We also take pride to put on record that, for the last fifteen years, we have been regularly supplying chains to BHEL Units, of which two types had 300 MT & 176 MT Breaking Load properties.

A wide range of Conveyor Chains, patronized by Sugar / Cement / Power / Fertilizer & many other industries, are manufactured by our associate concern GALAXY CONVEYORS, complementing product-mix and providing procurement ease for YOU.

A few Esteemed Customers: Apollo Earthmovers, BHEL - Ranipet/Trichy, Essar Steel, GHCL, IOCL, BPCL, IFFCO, Jyoti CNC, MAHAGENCO, NALCO, NIRMA,



TECHNOLOGIES FOR SURFACE AND CONTINUOUS MINING WORKS

Visit our booth at IME Green Hall/stall G-128



DESIGN DEVELOPMENT | MANUFACTURING | PRODUCT TESTING

Unit 513, PS Qube Building, Plot- IID/31/1, Street 1111 Action Area IID, New Town Kolkata - 700156 + 91 7604081554 info@gorny.in



SAIL-Bhilai / Bokaro / Salem, Sanghi Cement, Wheel & Axle Plant (Railways), RR Parkon, Ammann Apollo India Pvt. Ltd., Shaktiman Agro, Escorts and many more.

We are Exporters to End Users and Distributors in Turkey, Germany, Nepal and Israel.

We are Manufacturing Indust. Std. Roller Chains as per BS228 / DIN8187 / IS2403 / ISO606 / ANSI B-29.1 / DIN 8188.

We are Manufacturing Leaf Chains as per IS1072 & ISO 4347,LL,AL & BL Series available as per Customers requirement.

We are Manufacturing Attachment Chains in Std. Roller Chains as per Customers Requirement.

We are suppliers to Industries like Road Construction Machinery Manufac, Steel Plants, Cement Plants, Mining Indust.

We are suppliers to Industries like Bottling, Tobbeco, Fertilizer, Railways, Agriculture & Food Indu.

www.galaxychains.com



GORNY INSTRUMENT LTD.

GORNY INSTRUMENT LTD. was founded in November 1992 and it is the one of the leading manufacturers of mining-cutting and drilling tools. With the portfolio **INSTRUMENT** over 200 types of serial and exclusive tools, including



more than 20 patented developments that do not have counterparts in the world. Additionally, the production of longwall shearers drums, cutter drums for continuous miners, roadheader cutterheads of all types, drilling and crushing equipment has been mastered.

The high productivity of modern mining equipment is the guarantee of the efficiency of the mining industry. Timely replacement of tools and its production on an individual basis allow mining companies to significantly save money and time on the mining works.

The basis of the long-term customer relations is the use of the steel and the hard alloys of the world's leading manufacturers, phased quality control and compliance with all world standards.

An individual approach to the needs of the client consists in studying the specific needs and geological conditions of the work and the specifics of the equipment used. This allows to select the optimal tool for each specific case.

One of the distinguishing features of the work of GORNY INSTRUMENT LTD. is testing at customer enterprises, mandatory certification of all products. Customer technical support is provided during the entire period of using the tool.

www.gornygroup.com



GUJARAT MINERAL DEVELOPMENT **CORPORATION LTD.**

GMDC is the leading State-owned Mining and Minerals Company of Gujarat with operational experience over 60 years and having product portfolio across mining, value added products and power. GMDC is India's second largest Ligniteproducing company.



GMDC currently mines Lignite, Bauxite, Manganese, Ball Clay, Silica Sand, Bentonitic Clay and Limestone in the state of Gujarat in Kutch, Dev Bhoomi Dwarka, Panchmahal, Bhavnagar, Bharuch, Surat and Chhota udepur districts.

As a forward integration, GMDC has set up a 2x125 MW Lignite based Thermal Power Station in Kutch and harnessing renewable energy through 200 MW wind mills and 5 MW Solar Unit to provide cheap energy to state.

With aim to diversify its mineral portfolio, GMDC is expanding its horizons with Coal Projects in Odisha.

These strategic initiatives endeavors position of GMDC as a visionary organization committed to sustainable growth for the nation's progress.

www.gmdcltd.com



HAMTEK TECHNOLOGIES INDIA PVT. LTD.

We, HAMTEK TECHNOLOGIES INDIA PVT. LTD., are a HAMTPK professionally managed engineering conglomerate Bulk Handling & Energy Group located in the historic city of Hyderabad, in the state of Telangana, South India. Established in the year 2008, is privately owned and run by a dedicated team of professionals, making it today one of the fast growing engineering companies, in India. HAMTEK is having more than Rs.1000 crore worth of projects under execution stage from central government companies like Northern Coalfields, Western Coalfields, Central Coalfields and top most corporate companies like Adani, JSW etc., Since the formation of the company, HAMTEK has maintained its recognized leadership position as an innovative manufacturer & executer of the flowing type of projects on turnkey basis for more than 15 Years.

- COAL HANDLING SYSTEMS FOR POWER PLANTS
- LONG DISTANCE PIPE/ TROUGHED CONVEYORS
- DOWN HILL PIPE & TROUGHED CONVEYORS
- RAPID LOADING SYSTEMS FOR COAL MINES
- PORT HANDLING SYSTEMS
- CROSS COUNTRY OVERLAND BELT CONVEYORS
- BELT CONVEYORS UPTO 10000 TPH CAPACITY
- COVERED STORAGE SHEDS FOR COAL & RAW MATERIALS
- BULK MATERIAL HANDLING SYSTEMS FOR CEMENT, STEEL, MINING, FERTILISER INDUSTRIES ETC.,

Our portfolio encompasses coal & other mines in diverse markets catering to public, private and government establishments across the country, no matter how challenging the project or how remote the location, we assure we can deliver on time. That's because we bring an unmatched combination of knowledge and technology by leveraging our Skills and experiences with commitment to quality and customer delight in every project. Each independent division with focused team work, on their specific activities, not only helped in the company's rapid growth, but also facilitated in achieving the customer needs & requirements.

HAMTEK has in its roles successful team to manage projects from concept to commissioning with very experienced engineers and executive with executing contracts of varied nature and sizes. The combined experience of our executives in EPC & Material Handling industry shall ensure that you shall have the best in technology and quality at competitive cost. The projects management team uses software like Primavera and MS project and internally developed project reporting system to provide the clients with progress and plan for project execution and management.

Dr. K. S. Rao is the Managing Director of Hamtek Technologies India Pvt Ltd. A Mechanical Engineering Graduate from S.V. University having 27 years of exclusive experience in Design of Bulk Material Handling Systems.

Under Dr. K. S Rao Leadership Hamtek has maintained its recognized leadership position, as an innovative manufacturer of Material Handling Equipments on Turnkey Basis is present in Telangana, Andhra Pradesh, Tamil Nadu, Gujarat, Orissa, Maharashtra, Madhya Pradesh, Chhattisgarh & Jharkhand States.

ALWAYS A STEP AHEAD IN COMMITMENT





BULK MATERIAL HANDLING PROJECTS ON TURNKEY BASIS INCLUDES

- → COAL HANDLING SYSTEMS FOR POWER **PLANTS**
- ➡ RAPID LOADING SYSTEMS FOR COAL MINES
- PORT HANDLING SYSTEMS

COVERED SHEDS FOR COAL & RAW

LONG DISTANCE PIPE CONVEYORS

- **CROSS COUNTRY OVER LAND BELT CONVEYORS**
- **BELT CONVEYORS UPTO 10000 TPH CAPACITY**
- → BULK MATERIAL HANDLING SYSTEMS FOR INDUSTRIES LIKE CEMENT, STEEL, MINING, FERTILISER ETC.,

MATERIALS HAMTEK TECHNOLOGIES INDIA PVT. LTD., H.No.8-2-293 / 82 / F / B - 23, Road No.8, Film Nagar, Jubilee Hills, Hyderabad – 500 096, Contact Numbers: +91 7680888810, 11, 19, 26 & 34 Email: hamtekindia@gmail.com,

mktg@hamtekindia.com, visit us at: www.hamtekindia.com

MINING PROJECTS UNDER EXECUTION

SL.NO.	NAME OF THE CUSTOMER	PROJECT DESCRIPTION	VALUE RS. IN CR.
1	CENTRAL COALFIELDS LIMITED, (KONAR OCP)	5 MTPA COAL HANDLING SYSTEM WITH 6500 TPH RAPID LOADING SYSTEM	250.14
2	WESTERN COALFIELDS LIMITED, (MUNGOLI OCP)	10 MTPA COALHANDLING SYSTEM 8500 TPH RAPID LOADING SYSTEM	252.61
3	ADANI ENTERPRISES LIMITED, (SULIYARI OCP)	5 MTPA COAL HANDLING SYSTEM 2200 TPH TRUCK LOADING SYSTEM	110.44
4	NORTHERN COALFIELDS LIMITED, (DUDHICHUA OCP)	4 MTPA COAL HANDLING SYSTEM	72.57
5	NORTHERN COALFIELDS LIMITED, (AMLOHRI OCP)	2 MTPA COAL HANDLING SYSTEM WITH 6500 TPH RAPID LOADING SYSTEM	140.83

9750TPH Belt Conveyor System for JSW, Jaigarh Port, Ratnagiri, Maharashtra.

2000TPH X 2.35 Kms Long Distance Pipe Conveyor System for GPCL, A/c. PC Patel, Goga Surka, Gujarat.

1200TPH Coal Handling System for 1X800 MW KTPP -TSGENCO, Bhupalpally, Telangana.

750TPH Coal Handling System for 160MW Suryadeva Power Ltd., Gummidipoodi, Tamil Nadu.

1350 TPH Ship Unloading & Handling System for Lanwa Satna Cement, Hambantota, Sri Lanka

1200TPH Coal Handling System for 1X800MW KTPS -TSGENCO, Kothagudem, Telangana.

1200TPH Coal Handling System for Northern Coalfields Limited, Singrauli.

1200TPH Coal Handling System for 4 MTPA Gare Palma -III A/c. Adani Enterprises Limited.

1200TPH Coal Handling System for 700MW Meenakshi Energy, Nellore, Andhra Pradesh.

750TPH Coal Handling System for 300MW OPG Gujarat Power Pvt. Ltd., Bhadreshwar, Gujarat.

1000TPH Coal Handling System for 450MW Ind Barath Thermal Power Ltd., Tuticorin, Tamil Nadu

1000TPH Coal Handling System for 240MW OPG Power Generation, Gummidipoodi, Tamil Nadu.

www.hamtekindia.com



> HAZEMAG ALLMINERAL INDIA PVT. LTD.

Hazemag allmineral India, a Kolkata based 100% subsidiary of allmineral Germany. Since 2009, the present united wing is taking care of its crushing equipment, mobile & semi mobile designs Feeder Breaker along with gravity, magnetic & flotation technologies based coal & mineral processing.



Upstream water classifier

Pneumatic flotation

Centrifuge

Feeder Breaker

Wobbler Feeders

HAZEMAG

Products

- Dry & Wet jig
- WHIMS
- Desliming & dewatering screen
- Heavy Media cyclone
- Chain/Reclaim Feeder
- Impactor

Services

- Test work & Flow sheet development
- Basic & Detailed design & engineering

- Turnkey project execution
- Operation and maintenance

Applications

Coal, Minerals, metal slag, sand, Coal, limestone, bauxite, gypsum, potash and other medium hard minerals

While allmineral vertical has installed more than 100 units of gravity, magnetic separation & flotation equipment with its latest job in the field of engineering, supply & erection of equipment for heavy media cyclone circuit of a 2.5 MTPA coking coal washery in an overseas project, Hazemag vertical are front runners of crushing, conveying and screening equipment of medium hard minerals with more than 60 installations having capacities from 200 TPH to 2000 TPH in various core sectors.

FEEDER BREAKER FB 1014

Feed Material: Coal

Feed Size: 0 to 1000 mm Product: (-) 100mm

Capacity: 500 tph (min)

UNI ROTOR

Feed Material: Limestone

Product: (-) 1mm, (-) 3mm, (-) 6mm

Capacity: 25 tph (min)

CHAIN CONVEYOR

Feed Material: Coal, Limestone etc.

Capacity: upto 2000 tph (min)

ALLJIG® COARSE GRAVITY SEPARATOR

Feed Material: Sand, Coal, Iron Ore, Slag etc.

Feed Size: 150x1 mm

Capacity: upto 700 tph

ALLFLUX® FINES GRAVITY SEPARATOR

Feed Material: Sand, Coal, Iron Ore, heavy minerals etc. Feed Size: 4x0 mm

Capacity: upto 2000 cum/hr

ALLSMART® DRY GRAVITY SEPARATOR

Feed Material: Coal, Ore fines, recycling materials etc. Feed Size: 50x0 mm

Capacity: 20-100 tph

ALLGAUSS® WET HIGH INTENSITY MAGNETIC SEPARATOR

Feed Material: Iron Ore, Chrome, Manganese etc

Feed Size: 1x0 mm

Capacity: 6-1400 tph

ALLFLOT® PNEUMATIC COLUMN FLOATATION

Feed Material: All types of minerals, Coal fines

Feed Size: 1x0.003 mm

Capacity: up to 1000 cum/hr

ALLCENT® CENTRIFUGE

Feed Material: Coal Feed Size: 25 mm Capacity: up to 120 tph

ALLSCREEN® DESLIMING AND DEWATERING, D&R SCREEN

Feed Material: All types of minerals, Coal Feed Size: up to 50 mm Capacity: up to 400 tph

www.hazemag.com





















HEWITTROBINS INTERNATIONAL PVT. LTD.

We would like to introduce ourselves as a part of 130 **130** years old HEWITT ROBINS, who was founding partner of TRF (Tata Robins Fraser). Most of the technology of TRF was from Hewitt Robins. We got separated from TRF in 2019 and incorporated an independent company in India in 2020.

We would also like to state that we are one of the leading OEM in bulk material handling sector. We are having capability and competency to Design, Manufacture, Trouble Shooting of equipments such as Wagon Tippler, Plough Feeder, Apron Feeder, Vibrating screens and feeders, Crushers etc. We are also capable to provide 1:1 replacement of spares as well for TRF make equipments.

We have the competencies and expertise to provide replacement of competition equipments and their spares. We can now extend our expert support in terms of health check-up, supply of equipment and spares and supervision of erection and commissioning of the equipment.



HYDRO PNEUMATIC ACCESSORIES



We are pleasure in introducing our company "Hydro Pneumatic Accessories" as a solution provider for your sourcing requirements. The company has been initiated by technocrat, the undersigned, who has been in hydraulic industry for past 10 years in India

Our company's main forte is to assist our customers in sourcing and supplying them, their required components / systems and solutions at most optimal cost. With the aim of servicing our client's requirements, we have initiated assistance to our valued customers with following products:

HYDRAULICS:

and U A F

We can offer reputed brand products:

- Pumps Vane pump, Gear pump, Radial piston pump & Axial piston pump.
- Valves Direction control valves, Check valves, Pressure & flow control valves, Ball valves, Cartridge valves, Shutoff valves, Needle valves, Gauge isolating valves.
- Oil filters Pressure line, Return line, Air breather, Suction filters.
- Accumulators Bladder, Diaphragm and Piston.
- Fittings Tube couplings, Adaptors, Flanges, Pipe clamps, Minimess test points & hoses.
- Hydraulic Cylinders, Jacks, Tools, Equipments, Devices and machines.
- Pressure Gauges Pneumatics: We can offer reputed brand products:
- Air cylinders & Cylinder accessories.
- Direction control valves.
- Airline valves. •
- Air preparation Units.
- Pneumatic systems.
- One touch fittings, Poly urethane tubes, Couplers & Accessories.

Trust the above gives, you an insight to the possibilities that we can offer, to meet your requirements, and accordingly seek your valued enquiries.

Apart from above products should you need assistance in sourcing any

products or parts (Imported or local), do write to us, we shall be pleased to assist you upon the same.

While thanking you, we look forward to have your early positive response.

We deal with tube couplings in carbon steel and SS 316 Stainless confirming to ISO 8434 and DIN 2353. Size range covers from 6mm to 42 mm in low pressure and 6mm to 38mm in high pressure series. Tube couplings are tested as per ISO 19879.



The HPA Sae Flange is closely aligned with the market requirements and contains range of single and multipart SAE Flange connectors with the standard and high pressure series according to SAE J 518 C and ISO 6162 -1/2.The standard 3000 PSI pressure series contains components with maximum operating pressures between 35 bar to 350 bar. The standard 6000 PSI pressure series is suitable for maximum operating pressures upto 400 bar.



Hydraulic filters plays essential role in the Hydraulic system and selecting the right one in order to ensure that the particle containments are removed completely from the Hydraulic fluid to avoid jammed and damaged in the hydraulic components, We hereby providing vast range of hydraulic filters such as "Particle Counters, Low and Medium pressure filters, Suction Filters, Filler Breathers, Return Line Filters, Filter Elements, ETC"

Hydraulic valves regulate the flow of fluid within a hydraulic system, specifically by the position of the spool inside a cast iron or steel housing within the valve itself. The spool slides to different positions in the housing and intersecting grooves and channels route the fluid based on the spool's position. Therefore, we are provider wider range of hydraulic valves in terms of "Flow Control Valves, Directional Monblock valves, Hydraulic check valves, Pressure



Control Valves, Pressure Relief Valves, Solenoid operated directional control valve, Proportional valve, ETC"

Hydraulic Pipe Clamps symbolize quick, easy and secure installation of pipes, tubes, hoses, cables and other flexible as well as rigid components with outside diameters upto 200 mm/08.00 inch. The vibration and noise reducing features plays vital role to environmental protection and

occupational health and safety. We hereby guarantee prompt service for customised solution according to customer's specification. Due to extraordinary wide product range, we covered almost all area of pipes, tubes, hoses and cable installation are covered.

We Deal in "POINTER" make glycerine filled pressure gauges ideal for dampening the effect of vibration and pulsation. It also lubricates the movement and internal parts which extend the life of the Gauge. It enhance the reliability and integrity of the



measuring system for long periods under extreme operating conditions.

www.hpakolkata.com



IMAGEGRAFIX SOFTWARE SOLUTIONS PVT. LTD.

ImageGrafix has been a solution provider for Oil and Gas customers since 1996, primarily focusing on engineering design and CAD/CAM systems providing presales and post-sales support on leading engineering and



CAD/CAM software.

In 2016 we identified the service opportunities available to support other

downstream departments other than engineering design within our existing client base. These opportunities include project & portfolio management, enterprise document management, Enterprise asset management, Augmented reality and virtual reality training simulations, Plant data management integrated with IIOT technologies etc.

ImageGrafix established a dedicated team focusing on addressing the specific needs of EPS and Owner Operators in the region to help them attain their digitalization and achieve their digital twin implementation with a prime focus on services like Plant Digitalization, Digital twin goals and Project and portfolio management.

CAESAR

A complete solution that enables quick and accurate analysis of piping systems subjected to a wide variety of loads, taking into account weight, pressure, thermal, seismic and other static and dynamic conditions, based on user-defined variables and accepted industry guidelines.

CADWORX® PLANT PROFESSIONAL

CADWorx ($\mbox{\ Plant Professional runs on AutoCAD$ or BricsCAD ($\mbox{\ Plant Professional runs on AutoCAD$) or BricsCAD ($\mbox{\ Plant Professional runs on AutoCAD}$) and includes BricsCAD ($\mbox{\ Pro}$) providing a complete package with powerful and adaptive tools that enable quick and easy creation of fully intelligent 3D plant models.

PV ELITE®

PV Elite® is a complete solution for vessel and heat exchanger design, analysis and evaluation which performs calculations as per ASME Section VIII Div.1 & 2, PD 5500, EN 13445 and API 579 (FFS) and generate retirement limits for ASME and Division 1.

GT STRUDL

GT Strudl is a renowned high quality, fully integrated, database-driven software system for FEA based structural analysis offering both linear & non-linear, static & dynamic analysis, steel & reinforced concrete design.

AFT

Whether it is modeling gas or liquid piping systems, perfecting the system design, studying the system's transient behaviour, or the need for fluid property data, AFT has the engineering software tools to meet your needs.

DIMENSIONAL SOLUTIONS

Dimensional Solutions suite of software solutions offer complete structural foundation designs from concept to construction for an array of industries.

DETAILED ENGINEERING SERVICES

ImageGrafix with its strong engineering fundamentals and partnering with Hexagon to adopt the latest technological innovations in digital engineering offers end to end engineering solutions to customers across the Middle East and India.

DIGITAL TWIN SERVICES

A digital twin is a digital representation of an existing or future physical asset, continually updated throughout the planning, building, and operating lifecycle.

MANAGED SERVICES

ImageGrafix Managed Services provides a robust functional and technical support service for company their Primavera Applications Such as Primavera P6 EPPM, P6 PPM, Unifier, Risk analysis, Analytics and Oracle database.

IMPLEMENTATION SERVICES

ImageGrafix is an Oracle gold partner specialized in Oracle Primavera solutions that utilizes a proven Primavera implementation methodology, provides a carefully crafted team of experienced consultants tailored to specific business needs, and delivers world-class implementation, training and integration services.

INTEGRATION SERVICES

ImageGrafix Integration services can integrate Primavera applications with your other business systems to meet the high level of functionality demanded by all users

ENTERPRISE SOLUTIONS

ImageGrafix has established itself as a leader in project management and project cost control management solutions. Our Oracle certified professionals have implemented and supported Primavera applications in organizations from various sectors.

www.imagegrafix.in

≫ IMCO ALLOYS PVT. LTD.

We would like to introduce ourselves as one of the leading manufacturers of custom engineered sintered metal matrix carbide composite products for the most critical wear and tear applications of the Mining, Cement, Steel, Power, and Sugar Industries.



IMCO Alloys Pvt. Ltd. is an advanced material science company exclusively dedicated to innovate ultra-wear resistant materials and committed to manufacture biohest quality wear resistant n

and committed to manufacture highest quality wear resistant products. We have been providing effective solutions for wear and tear resistance in several industrial applications and have been awarded with several path breaking research patents.

The inherited values of IMCO Alloys drive us in everything we do! Our focus being; Pioneering Technology, Creativity & Integrity, Excellent Customer Satisfaction, Highest Quality Assurance & Social Responsibility

Our Zuper range of wear resistant solutions are innovatively designed and customised for a variety application in Zuper Liners, Bucket Protection Kit, Crusher hammers and diffrent crusher parts & fabrication work of chutes, hoppers are built as per customer needs that help them benefit enormously while lowering their processing and maintenance costs, thereby creating value for our esteemed clients.

We effectively deliver "Exxxxtra Life, Exxxxtra Efficiency & Exxxxtra Profit" and with our advanced production line we minimize the delivery times & ensure timely deliveries.

ZUPER HI LIFE LINER

IMCO make Zuper Hi Life is a solution to various high abrasion wear issues that rise in chutes, hoppers, feeders, bins etc. by increasing the life of mechanical equipment by shielding its surface. Our Revolutionary " Zuper Hi Life " Wear Liner which has High Density and Ultra- abrasion Resisting Carbide composite(60-62 HRc) metallurgically fused to a mild steel backing through our patented process. (Can also be offered without base plate for low impact areas)

Benefits of Zuper Hi-Life:

- Low Co-efficient of friction (39% less than SS in service)
- Reduced hang-ups & carry backs
- Max Wear Resistance irrespective of direction of flow of abrasive particles
- Negligible Dilution unmatched wear resistance
- Consistent Hardness & Micro-structure resulting in consistent & unmatched wear rates
- Laminar flow ensuring reduced wear.
- Low Residual Stress(Sintered Carbide & backing plate)
- Ease in Fabrication as per customer requirements

ZUPER HI-LIFE EX SMOOTH

Fig: A mirror-like finish that gives the liner a smooth texture of up to 0.4 μA value to enhance the performance.

Smooth surface Liner is preferred by our customers facing issues with excessive hang up and carry backs. The polished finish of the liner of IMCO make Zuper Hi Life Ex Smooth makes the sliding motion of the raw material quicker without adhering to the surface of a low impact area having 60-62HRC. Majorly used in the applications of wet plants.



PER New Cent

ZUPER HEX CERA

Innovation & agile IMCO make product "Zuper Hex Cera" Wear Liner is made of metal matrix ceramic composites fitted in a specialized alloy steel base body to withstand severe impact and abrasion wear having hardness 1100-1300 HV

Features:

- Zuper Hex Cera is innovatively designed for major impact areas which is 1.5 to 2 metres and more.
- Flexural strength of Zuper Hex Cera 220-240 MPa Compressive strength is around 1800-1950 Mpa

ZUPER HEX CERA SUPREME

The ultimate in impact resistance IMCO make ZUPER Hex Cera Supreme is made of highly compact and dense structured metal matrix ceramic composite fused inside alloy steel base with a hardness of 10-14 Gpa Vicker's that is built



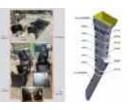
to withstand any high impact and abrasion wear.

Features:

- Zuper Hex Cera Supreme is innovatively designed for major impact areas which is 3-5 mtrs and more. Flexural strength of Zuper Hex Cera Supreme 320-350 Mpa
- Compressive strength is around 2000-2200 MP

FABRICATION & REFURBISHMENT CASES

As an R&D-based company, IMCO Alloys takes up new challenges for creating a better solution, we understand the customer's requirement with customized shapes and sizes of the requirement of various material handling chutes. A complete customized Dryer Feed Chute was been manufactured and supplied by IMCO Alloys which was undergoing a massive abrasion issue along with erosion and impact. The chute undergone sever



damage due to heavy impact zones varied and the multiple wear issues arising simultaneously. IMCO manufactured customized Dryer feed chute assembly fused with Zuper sintered carbide liners having 60-62 HRc hardness duly finished. IMCO Alloys proposed a segmented solution to the chute which made the client save time under maintenance as easy fitment and replaceability as a major advantage along with hardness to resist the wear.

VIBROFEEDER

IMCO make Vibrofeeder implanted in Raw Material DSI oprn department at TATA Steel Jamshedpur where the operating material is iron ore having a temperature of 700 - 900 °C with High Abrasion and Moderate Impact

Understanding the precise work IMCO Alloys manufactures Vibro feeder that withstands extreme abrasional wear working at a constant motion and bulk handling the Zuper Vibrofeeder made with Zuper sintered carbide liners as a protective shield as a complete wear solution to the feeder

ZUPER CHOCOBARS

IMCO make Zuper Choco bars easy to use and install and with great impact resistance, it reduces downtime. The maintenance of the Gyrator with lesser manpower gets extremely convenient with an extended lifespan by the application of Zuper Choco bars.

ZUPER BUTTONS

A modified abrasion-resistant composite consisting of carbides in a metallic matrix, metallurgically bonded to a mild steel disc. These carbides have a minimum hardness of 770 Hv and contain carbides upto 1500 Hv.

Zuper Buttons are used to protect the bucket from all the sides, it minimises the effect of heavy impact, abrasion & erosion.

DUOMETAL HAMMER

- A revolutionary concept of DUOMETAL[™] technology for Cement, Steel, Power plant applications like, Clinker Breaker hammer, Coal Crusher Hammer, Beater heads, Blow bar.,etc.
- This is homogeneously fused to the component body. These carbides have a minimum hardness of upto 770 HV and can also be refined to have hardness as high as 1500 HV.

Advantage:

- Highly Cost Effective.
- Superior edge Retention with enhanced Sharpness.
- High crushing efficiency.
- · Eliminates replacement costs
- Zero maintenance.
- Reduced down time losses.

IMCO MAKE HAMMER CRUSHER ROTOR ASSEMBLY

IMCO make hammer crusher rotor assembly is an ultimate crushing solution

Our crusher is equipped with advanced design & weight balancing technology specially for fine crushing

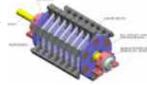
We also undertake refurbishment cases where the solution is customized as

per our client's requirements considering all the measures

IMCO make parts for rotor crusher assembly as follows:

- Shaft
- Rotor Disc
- Crusher hammer with pin
- Hub & Axle pin
- Bearing & bearing housing

www.imcoalloys.com





> INDRONES SOLUTIONS PVT. LTD.

Indrones is one of the leading drone manufacturers **inprones** and drone service providers in the country.

The company specialises in manufacturing drones for a variety of use cases and providing drone-based end-to-end solutions such as mapping, surveillance, 3D remodeling & surveying for verticals like smart cities, government, construction, oil & gas, mining, infrastructure, telecom, disaster management, agriculture, etc. Their signature drone, Sigma 25 is a survey grade drone which is also approved by the SOI, for carrying out survey related work across the country.

The company has also developed technologies that allow for highly efficient and cost-effective data collection, data processing and analytics and has developed indigenous software platforms under the Drones as a Service (DAAS) model

SIGMA 25

Sigma 25 series is an under 2kg drone meant to have a perfect combination of portability and performance. These drones are qualified as 'Survey Grade Drone' by the Survey of India.

Features:

- RTK/PPK: Survey grade accuracy
- Portability: Single backpack
- Toolless assembly: Quick deployment
- Reliable and Secure: Failsafe features and encrypted communication
- Cloud connected: Predictive maintenance

SIGMA 75

Sigma 75 series is a small-category drone built with versatility in mind. With its unique design and payload capacity it makes hot-swappable payloads and multi-mission operations easy for a single person.

Features:

- RTK/PPK: Survey grade accuracy
- Versatility: Single Drone can handle many Payloads
- Toolless assembly: Quick deployment
- Reliable and Secure: Failsafe features and encrypted communication
- Cloud connected: Predictive maintenance

www.indrones.com











> INNOTECH ENGINERRING

Techinova is established in the aim to serve the Engineering sector. Taken forward by a team of experienced engineers, the company has travelled many milestones and achievements from private as well as government organizations. Today we



have a team of experienced engineers working for different fields of engineering who are selected from reputed institutions across India, an established factory in Maharashtra, and five offices pan India.

Innotech Engineering is a subsidiary division of the TECHINOVA, who has involved in construction and mining industries. We aim to be the premier global provider of innovative solutions for the engineering sector. We embrace new work cultures and have a comprehensive range, we are the complete solution provider for mining and construction industries, with high focus on quality and performance. We also have proven advantage in performance and versatile applications at optimal costs. Quality is guaranteed by the incorporation of latest technologies and processes. The product line comprises of a comprehensive range of jaw crushers, Vertical Shaft Impactors (VSI), Feeders, Vibrating Screen, Roll crusher, Bucket elevator, Screw conveyor, Chain conveyor, Apron feeder, Ball mills etc. Material handling equipment, Air pollution units, Bucket elevators, Customized equipment like Heat exchangers, Tanks, vessels, Pipe lines, reheat furnaces, Roller S furnaces, Gratings and Hand rails, Centrifugal pump (For Industrial purpose), Tower structures related to Electrical and Telecommunications (Including Civil erection to complete product erection and Commissioning). Besides that we are taking outsourcing projects from different companies which include Structural parts, customized equipment, pipes and fittings, Maintenance of plant. We focus on providing best latest technology equipment's to our customers which are high productive, lower maintenance, lower cost per ton concept, optimum utilization by following the work procedure like Planning of material, Quality check (Dimensional verification, DP test etc.), fabrication, machining, Assembling with finishing, Painting and Dispatch.

The satisfaction of our customers is our success. We plan our strategies and work approach based on the customer requirements so that we can deliver practical and affordable solutions at optimum quality and within time limits each time. Change is the only constant. And we change for betterment. Our zeal of continuous learning and applying what we learnt, takes us forward and makes us better than our competitors. From the day of our foundation, we are on a constant process of learning and developing by brainstorming about new and innovative ideas, which are customer and problem specific. We actively conduct periodical in-house trainings and appreciate our employees to think about new ideas and innovative solution that stand out in the crowd.

HSI

The HIS is designed in such a way that customer can achieve optimum efficiency of product. Blow bars are used of high Chrome Steel or alloys. With three- orfour -bar configuration, large feed opening and highperformance rotor, INNOTECH impact crusher are well- suited for a variety of applications. In an HSI crusher, material is crushed from the impact of fastmoving bars attached to the rotor. This material is continually crushed by the impact of the bars until it



becomes fine enough to be shaped into a high-quality end product.

VIBRATING SCREEN

The Innotech screens with steel main body are produced for long years use. Installation and maintenance of the vibrating screens is very simple, thanks to the ladder system next to them can be done easily. Screens that can be produced in any size can also have multi-layer shelf system depending on the characteristics of the product to be screened. Each innovation, as well as contributing to the country's



economy, contributes to the development of many sectors. The vibration is generated from an unbalanced flywheel. A very erratic motion is developed when this wheel is rotated. If the rock is small enough it will be removed from the circuit. The large rock will, of course, be taken to the next stage in the process.

IHPC

Innotech developed to crush the feed material into first class products efficiently and economically. Innotech cone crusher offer the highest crushing efficiency and end product quality with lowest cost per production. The extra weight means lower stress on the machine, which result in longer operational life, the structure improves the performance and crushing capability a lot. With the rapid development of mining technology.



JAW CRUSHER

Innotech is a leading manufacturer of jaw crusher. We manufacture larger feeding capability single toggle jaw crusher to meet customer need. Jaw crusher is a crushing machine used for crushing large materials into smaller materials. It is widely used to reduce the size of bulk material into finer particles. Innotech IJC series have different feed size opening jaw crusher. In single-toggle jaw crushers, the moving crusher operates in an elliptical pattern while in double-toggle



jaw crushers, a pendulum motion is utilized in order to crush hard materials.

VSI

Autogenously configuration produces more spec material in a single pass. Efficient design decreases horsepower requirements. Reversible, replaceable and adjustable wear parts reduce operating cost. The rock breaks and the potential energy is stored in the rock which falls down due to gravity. The high impact force subjected on the particles breaks its sharp edges and reduces them into cubical form. The VSI's high cubical fracture percentage maximizes first-pass product yield and produces tighter particle size distribution.



CONE CRUSHER

INNOTECH crusher material is crushed between a fixed and a movable plate by reciprocating pressure until the crushed product becomes small enough to pass through the gap between the crushing plates. Capacities and product gradations produced by Cone Crushers are affected by the method of feed-ing, characteristics of the material fed, speed of the machine, power applied, and other factors. Hardness, compressive strength, mineral content, grain structure, plasticity, size and shape of feed particles, moisture content, and other characteristics of the



material also affect production capacities and gradations. Gradations and capacities are most often based on a typi¬cal, well-graded choke feed to the crusher.

www.techinova.net.in

≫ INSMART SYSTEMS

· insmart Systems

About Us: Today INSMART SYSTEMS is the undisputed market leader in sample preparation technology and has consistently maintained this leadership for past 28 years.

Awards & Accolades: Insmart Systems has been award with the 8th FICCI "QUALITY SYSTEMS EXCELLENCE AWARD" – Manufacturing Sector – (in small category) for the excellence in quality systems and its quality-by-design approach in all the realms innovative product design, manufacturing process and support services.

Insmart Systems Automatic sample collection, sample preparation equipment has been patronized by leading Bulk Commodity manufacturing plants and mineral industry. A large number of Research Labs, Academic Institutions, Defence establishments, Thermal power generation, Steel, Ferro alloys, Sponge Iron, Cement, Aluminium, Ceramics and Mineral Beneficiation industry use our equipment.

Insmart Systems today manufacture more than 85 varieties of high precision machines for sample collection, sample preparation, sample analysis and mineral beneficiation.

A feather in the cap has been Setting up our own .72 MPTA Iron Ore Beneficiation plant at Jabalpur Madhya Pradesh & Setting up of ultra-modern Robotic QA labs for Orient Cement Plant at Chittapur Karnataka & Robotic container lab SAIL Rourkela Steel Plant at Rourkela Odisha, on Turnkey basis.

BUSINESS PROCESS & COMPETITIVENESS

Insmart believes in partnering with its clients by continuously innovating the products and translating the needs of its clients into engineering solutions. This over the years has been a crux of Insmart's excellence in QA environment.

Over the years insmart has been developing industry specific machines and equipment for ascertaining the raw material quality.

Our strengths lie in understanding the customers' demands and providing appropriate solutions to their QA needs. This in turn helps insmart in making reliable business projections and manage its Bill of Material in an efficient manner.

Insmart also participates in various industrial expositions to showcase its products to the industry. This transpires into a high level technical discussion with the decision makers and this in turn help us get a lot of genuine enquiries which get converted into business transactions in due course of time.

ROBOTIC SAMPLE PREPARATION FOR IRON ORE

Insmart's Fully Robotic sample preparation laboratory is one of the most sophisticated systems, where the entire sample preparation, sample preservations and sample analysis is processed without any human intervention.



These systems are fully customisable as per the customer requirement and can process over 200 Samples per day

INSMART CONTAINERIZED | ABORATORY FOR STEEL SAMPLES

The Container lab is the quickest way to analyse the quality of steel in steel making. Located only a few meters away from the smelting furnace, the container lab has a capacity to automatically prepare the sample and analyse the steel samples in up to 3 minutes, thereby facilitating the customer to produce an extra heat every day.

It is a key instrument in increasing the productivity of any steel plant.

INSMART COLD CRUSHING STRENGTH TESTING MACHINE FOR **IRON ORE PELLETS**

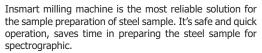
Insmart make state of art technology Cold Compressive Strength (CCS) testing machine is designed and developed in accordance with IS 8625-1986, ISO 4700 and ASTM E 382 standards. The standard machine is for fired iron ore pellets.



INSMART RI RDI TEST APPARATUS

Insmart RI RDI Test Apparatus is a complete solution for steel manufactures to measure RI and RDI, Pellet Swelling index and tumbler index of Pellets, Sinter and Iron ore. The system is designed in accordance with IS 10823

INSMART SEMI-AUTOMATIC MILLING MACHINE



The equipment can process different types of steel samples like, round samples, lollipop samples, coin samples etc.

INSMART AUTOMATIC COAL SAMPLE PREPARATION SYSTEM

Insmart automatic Coal sample preparation system is a one-of-a-kind concept where the input sample is automatic crushed, divided and pulverized as per ASTM, BIS, and ISO Standard.



The System is also fully customizable and can be tailor made as per customer requirement.

www.insmartsystems.in



> INTERNATIONAL COMBUSTION (INDIA) LTD.

International Combustion (India) Ltd is a Public Limited Company. It is operating in India since the year 1936. The Company is in the business of manufacturing and marketing of Material Handling and Power Transmission Equipment, and Building Materials.

The Company is headquartered at Kolkata with Offices all over India. It has fully equipped manufacturing facilities at Nagpur, Aurangabad, Baidyabati (near Kolkata) and Aimer.

The Company today serves all the major core industries with a specialized

range of products which include, Vibrating Screens and Feeders, Sizers, Cone Crushers, Bulk Material Handling Equipment, Raymond Grinding Mills, Air Classifiers and Flash Drying systems and Geared Motors and Gear Boxes.

Foreign technical collaborations and licensing agreements with world leaders in the respective product groups, have ensured manufacture of premium quality equipment.

IC with its highly diversified range of products, plays an important role right from the stage of mining and beneficiation, including size reduction, classification, washing, drying, crushing / screening, controlled feeding and

gear drive system, to all major user industries : Fertilizer, Coal and Ore Mining, Ore Beneficiation, Sand and Mortar Plants, Power Station, Cement Plants, Steel and Non-Ferrous metal processing, Food processing and Animal Feed.

Geared Motors for use with Gantry Crane:



Ahmedabad – Mumbai Bullet Train Project

www.internationalcombustion.in



≫ ION EXCHANGE (INDIA) LTD.

Ion Exchange is a pioneer of water treatment in India with a legacy spanning over five decades.



Refreshing the Planet With sales, production and service footprints across the world, Ion Exchange is a premier company in total water and environment management. We are one of the very few companies worldwide with complete range of solutions for water, waste water management, solid waste management and waste to energy. Our comprehensive technologies, products and services, enable our multidisciplinary teams of experts to cater to industries, municipalities, communities, institutions and homes.

Our 360° environment management adds value across the entire circuit - from influent water through potable and industrial process water to effluent/sewage treatment and water recycle for zero liquid discharge, sea water desalination and waste to energy projects for solid waste management.

Our experience of over 55 years is complemented by a comprehensive range of technologies developed in our ISO 9001 and DSIR certified R&D and Technology centres. We meet the industry's need for quality supply of goods and services through our ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (Occupational Health and Safety Management System) certified facilities that manufacture world class ion exchange resins for water and non-water specialty applications, membranes, water treatment chemicals and specialty process chemicals.

We serve our markets with a sustained focus on customer satisfaction, technological innovation and dedicated service through our Service Division. Our Zero B range of home water purification solutions deliver products at every price point and category: household, urban and rural as well as institutional segments.

Process Chemicals for Mining Sector

Flocculant for thickeners for better clarity for Coal Washeries



- Flocculants and Coagulant for Dewatering for Better /enhance cake formation for non-Coking coal Washeries
- Collector & Frother and Collector Cum Frother for Coking Coal Washeries.
- Coal Anti-Oxidant for Spontaneous Combustion at Coal Yard.
- Dust suppressant for Haul Road & unpaved Road

RAW WATER TREATMENT SOLUTIONS FOR MINING SECTOR

Full range of advanced clarification and filtration equipments along with chemicals including Food Grade flocculants, coagulants, Antiscalant for surface water treatment for Process and Ore Slurry Preparation etc.

DRINKING WATER SOLUTION

Drinking water purification systems for industry, communities, urban & rural

- Zero B Point-of-use drinking water purifiers
- Full range of processes membrane /nonmembrane / non-electric
- Salinity, fluoride, nitrate, arsenic, iron & manganese removal systems

MINES WATER RECYCLE & DOSING SYSTEMS

- Recycling systems for Mine Water re-use to reduce load on Fresh water intake incorporating clarification, filtration, ultra filtration, reverse osmosis, forward osmosis, multiple-effect evaporator
- Range of polyelectrolytes for colour, COD, TSS removal, etc.
- Auto Preparation & Dosing system for Flocculants & Coagulant for Mine Water Treatment.
- Auto Preparation & Dosing System for Flocculant & Coagulant for Non Coking coal Washeries
- Dosing System for Collector & Frother for Coking coal Washeries

SEWAGE TREATMENT, RECYCLE & SLUDGE MANAGEMENT

- Packaged & customized sewage treatment systems
- Widest range of biological process systems SBR, MBBR, MBR, advanced anaerobic treatment processes
- Tertiary treatment systems incorporating range of filtration and membrane processes

INTEGRATED WASTE MANAGEMENT

An advanced process for treating liquid waste (sewage/sullage) and organic kitchen waste (generated in homes and communities), using our state-of-the-art technologies such as the INDION® IPC MBR and INDION Advanced Bio-methanation process.



www.ionexchangeglobal.com



≫ ISGEC HEAVY ENGINEERING LTD.



Isgec Heavy Engineering Ltd. is a diversified heavy engineering company headquartered in India.

Our Manufacturing segment covers Process Equipment, Mechanical & Hydraulic Presses, Steel & Iron Castings, Boiler Panels & Piping, as well as Contract Manufacturing of Industrial products.

Our EPC Projects segment undertakes turnkey projects for setting up Industrial & Utility Boilers, Sugar Plants & Distilleries, Power Plants, Air Pollution Control Equipment, Industrial Wastewater Treatment projects, Bulk Material Handling projects, as well as Civil Construction, including Factories.

What drives the people at Isgec is the desire to use our proven engineering skills and vast cumulative experience of over 90 years, to achieve excellence in the products and projects that we execute. We believe it is this striving that will help our customers achieve excellence in what they do and pave the way for a future that is sustainable, successful, and secure.

The Company's exceptional engineering prowess has created a lasting impression across multiple geographies covering 91 countries. It has, and continues to address the demands of a wide range of industries that include power, defence, fertiliser, sugar, oil & gas, petrochemicals, automobile, steel, cement, chemicals, railways, space, and ports.

Keeping abreast of the latest and most relevant technologies across our portfolio, Isgec has strategic technology partnerships and as well as a number of joint venture partnerships with leading firms from across the globe.



Equipments





Industrial Boilers

Hydraulic & Mechancial









Contract Manufacturing

Sugar Plants & Machinery

Distilleries

www.isgec.com



> JOHN FINLAY INDIA PVT. LTD.



John Finlay Engineering & Technical Group of Companies (JFE) is an international engineering company that specializes in equipment manufacture & supply, process design, turn-key construction & project management and maintenance & operations contracting in the coal industry.

The company has expanded its operations in parallel with the mining industries of India, China, Australia, and South East Asia. JFE's strength lies in its focus on customised and optimal solutions via the provision of the latest technology and equipment to the coal industry. JFE has completed more than 150 coal preparation plants of various size and design types throughout China. JFE's dedication and commitment has resulted in a win - win situation for the company and its end users.

Outstanding design performance, the use of the latest mining and processing technology and excellent ongoing service to its customers continues to enhance JFE's reputation.

VIBRATING SCREENS

Presenting the John Finlay Group, renowned manufacturers of an extensive array of vibrating screens. Our repertoire includes single and doubledeck banana screens, horizontal screens, highfrequency screens, and sieve bend screens. These cutting-edge designs incorporate globally acclaimed technology, customizable across a comprehensive range of vibrating screen models, tailored to meet our clients' specific needs. Boasting a maximum width of 4276 mm and an



HIGH FREOUENCY SCREEN

impressive maximum length of 8500 mm

Our high-frequency screens boast welded superiorquality structural steel plates. These plates undergo effective stress relief treatment post-welding, endowing them with the resilience to absorb substantial impacts from vibrations. The screen surface adheres to our rigorous standards, featuring a prime coat, floating coat, and topcoat. This powerful trifecta effectively thwarts corrosion.



Structural components are securely fastened using Huck bolts. The flat deck design accommodates SS wedge screen mesh and polyurethane panels, meeting our stringent criteria. The side extension aligns seamlessly with our standards. Our employment of diproton vibration technology ensures a linear screen motion. Renowned for high G value, ample capacity, and exceptional dewatering efficiency, we take pride in our screen's performance.

CENTRIFUGES

Our company specializes in an extensive array of centrifuges, encompassing comprehensive models. This range prominently features medium and concentrated horizontal vibration centrifuges (max diameter 1,650mm,

capacity 420t/h), alongside the vertical and horizontal scraper Slime Centrifuge Series (max diameter 1,300mm, max capacity 110t/h). Employing internationally acclaimed components, we prioritize quality, utilizing high alumina ceramics or imported wear-resistant materials for protection.



Our centrifuge products boast impressive attributes: substantial capacity, superior dewatering efficiency, consistent vibration stability, minimal noise, simplified maintenance, exceptional corrosion resistance, prolonged lifespan, broad amplitude adjustment range, and versatile processing capabilities. Tailored to varying coal quality needs.

CYCLONES

Our company presents an array of cyclones, encompassing pressure cyclones, non-pressure cyclones, and cyclone clusters. The cyclone lining options range from high alumina ceramics to SiCor wear-resistant alloy steel, tailored to customer preferences. The selection process prioritizes optimal cost-effectiveness, harmonizing with on-site coal quality.



These models offer comprehensive features: robust capacity, exceptional wear resistance, and reliable cohesion of wear-resistant materials. Tailored designs, attuned to varying coal qualities, ensure precise cyclone separation. Ranging from a minimum diameter of 150 mm to a maximum of 1500 mm, with a circulation capacity of 1600 MSq, our cyclones stand poised to excel

DM BATH

Discover our comprehensive assortment of DM Bath models, spanning from a minimum 3m to a maximum 10m feed length. Customized designs cater to specific client and site requirements. Employing high alumina wear-resistant materials, including tiles and steel plates, ensures robust wear resistance. The intelligently crafted chain rail curve minimizes wear on



chains and rail support. A premium-grade reducer guarantees dependable and stable machine operation, reflecting our commitment to excellence

MAGNETIC SEPARATOR

Introducing our cutting-edge magnetic separators, meticulously crafted with top-tier international components. High-coercivity magnetic blocks, strategically configured for maximum magnetic density and substantial flux gradient, create an



exceptionally potent magnetic field within the machine's core. Operating as a full counter-flow permanent magnet drum, this separator excels. Tailored for dense medium coal preparation operations, it ensures magnetic medium recovery with a remarkable efficiency reaching up to 99.9%

DRY WASHING EQUIPMENT: CIRCLE SERIES

Introducing the Circle Series - The Circle Series is the world's first ring-shaped machine, setting a new benchmark in coal and ore beneficiation. Capable of efficiently sorting particle sizes from 5 mm to 50 mm, this groundbreaking equipment extends its capabilities to both metal and non-metal ores. Experience unmatched versatility and performance as



the Circle Series revolutionizes ore sorting technology. Embrace a future of increased productivity and reduced operational costs with the Circle Series - a true testament to 10 years of unmatched knowledge and ingenuity.

DRY WASHING EQUIPMENT: GOLDEN COAL SERIES

Introducing the Golden Coal Series - a revolutionary coal beneficiation equipment with cutting-edge series sets a new industry standard, utilizing a particle size range of 50 mm to 300 mm coal for optimal efficiency. The Golden Coal Series brings forth a perfect balance



of performance and sustainability, enabling water conservation and reducing the carbon footprint. With its energy-efficient operations and superior coal output, it promises substantial cost savings and enhanced product quality. Experience the future of coal beneficiation with the Golden Coal Series - a testament to 10 years of unrivalled knowledge and innovation.

www.johnfinlay.in

≫ JOY GLOBAL (INDIA) PVT. LTD. (KOMATSU)

Komatsu provides essential equipment, technologies and services for the construction, mining, forest, energy and manufacturing industries. (service and distributor network support customer operations using t



construction, mining, forest, energy and manufacturing industries. Our global service and distributor network support customer operations using the power of data and technology to help enhance safety, productivity and performance.

To continue meeting society's needs for coal, you need increasingly advanced underground mining equipment and technologies. Today's underground mining operations are using the power of data and technology to enhance safety, productivity and performance — and we are here to help you get there, with the experience and legacy of the Joy mining brand behind you. With our Joy-brand entry drivers, miner bolters, room and pillar equipment, longwall systems and crushing solutions, along with advanced automation and smart technologies, you can rely on Komatsu's factory and global service support to suit your unique operations.

CONTINUOUS MINER

Coal operations looking for reliable and productive room and pillar production, Joy continuous miners are engineered as cost-efficient and productive alternative to drill and blast mining.



Joy introduced the first commercially viable

continuous miner in 1948 and since then we have produced more than 7,000 continuous miners for use around the globe. Joy continuous miners from Komatsu promote exceptional productivity and cost-efficiency, through our advanced technology and automation to advance the mining industry and the journey to zero harm for its workers.

SHUTTLE CAR

In harsh underground mining conditions, nothing is more important than reliability. And when it comes to haulage, you can be confident your Joy shuttle car will provide it, because every component is designed for reliability, shift after shift, even in harsh environments. When you choose a Joy shuttle car, you're getting a machine engineered



using unsurpassed experience. Joy designed the first shuttle car in 1938 and has manufactured thousands since then. Over the decades, collaboration with our customers and industry experts have led to designs being continuously improved, so you can count on them to provide outstanding reliability, economy and safety.

BATTERY HAULER

Leave the clutter and routing constraints of electric cables behind with Joy battery-powered haulage carts, which offer plenty of power to get the job done without trailing cable.



Your operation can benefit from their manoeuvrability, operational flexibility and

excellent uptime. Plus, optional lithium-ion batteries may boost your productivity with 75% shorter charge time, much lower maintenance versus traditional lead acid technology, and almost no limits on routing. Joy battery haulers help maximize productivity by combining agility, flexible routing, hauling capacity, long battery life and reliability.

FEEDER BREAKER

Joy feeder-breakers help mining, haulage and conveying systems to work at extremely efficient rates to maximize production.

Joy feeder-breakers provide highly reliable, productive means for continuous feeding and breaking of most bedded, mined material. The product is designed to cut operating costs and

increase production rates by helping your mining, haulage and conveying systems to work efficiently. Joy feeder-breakers provide a reliable means for continuous feeding and breaking of most bedded, mined materials.

BATTER SCOOP

Scoops are true utility players in your mine, handling multiple tasks, such as maintenance, re-supply, clean-up and rock dusting. To help you get the job done with excellent operator comfort, lower maintenance and longer time between



charges, consider the redesigned Joy 02ESV scoops — now with OptiDrive technology.

This next-generation Joy Scoop with OptiDrive excels at multiple tasks, including maintenance, re-supply, clean-up, rock dusting and more, while being simpler to maintain and operate.

DIRECT SERVICE SUPPORT WITH FULL MAINTENANCE

Leverage our expertise to solve your toughest challenges. We offer data-driven intelligence, exceptional experience and a close partnership with your operation to help increase productivity to help you achieve your operating and financial goals.



With different service models designed as per your need - LCM, CEP, Parts support, we engage

experienced safety focused team to deliver quality service for assembly, commissioning, repairs and rebuilds to support you to maximize productivity by optimizing your equipment performance throughout its life in the mine.

www.mining.komatsu



➤ KARCHER CLEANING SYSTEMS PVT. LTD.

Kärcher from Germany is the world's leading cleaning **KARCHER** solution provider and is active in over 190 countries through subsidiaries and distributors. With a rich

heritage spanning decades, has established itself as a trusted brand in the cleaning industry, renowned for its cutting-edge technology, superior quality, and commitment to sustainability. Karcher India is a leading provider of innovative cleaning solutions, catering to the diverse needs of businesses and households across the country. It is headquartered in Noida with over 14 branch offices. A wide range of professional cleaning equipment is available to meet the specific requirements of various industries. From high-pressure washers and industrial vacuum cleaners to floor scrubber driers and carpet cleaners. These products are designed to enhance efficiency, reduce cleaning time, and ensure maximum hygiene and cleanliness in metallurgy, cement, steel, industries and more. Karcher India also caters to the needs of households with a range of consumer-grade cleaning equipment. Moreover, Karcher India provides comprehensive after-sales support and maintenance services to ensure the longevity and optimal performance of its products. The company is committed to the Swachh Bharat mission by promoting responsible cleaning practices, developing energy-efficient and eco-friendly solutions, minimizing water and energy consumption without compromising on performance. With a strong emphasis on customer centricity, the aim is to exceed expectations by delivering superior products, innovative solutions, and exceptional service.

Karcher India offers a comprehensive range of professional products and services, catering to the diverse cleaning needs of businesses across various industries. With a reputation built on quality and innovation, Karcher delivers advanced cleaning solutions that ensure impeccable cleanliness, enhanced productivity, and sustainable practices. From high-pressure washers, vacuum cleaners, and scrubber driers to cleaning agents and accessories, Karcher India provides state-of-the-art equipment and expertise. Their dedicated team of professionals is committed to delivering exceptional customer service, including maintenance support, training programs,



and customized cleaning solutions. With Karcher India, businesses can achieve superior cleanliness standards and create a hygienic environment that positively impacts their operations.

www.kaercher.com

➤ KATEEL ENGINEERING INDUSTRY PVT. LTD.



KATEEL ENGINEERING INDUSTRIES (P) LTD. was Kotes established in the year 1983, manufacturer and supplier of Industrial Disc Brakes, Drum Brakes, (Pneumatic & Hydraulic) Electro Hydraulic Thruster Disc Brakes and Drum Brakes, Electro Magnetic Disc Brakes and Drum Brakes, Rail Clamps, Clutch Buttons & Friction Liners.

The company was floated by Mr. H.V. RAMASWAMY, Mr. C.M. SHASTRY & Mr. K.N. SHANKAR who are technically qualified. They are also Directors since inception.

We are certified by Quest Certification ISO 9001:2015 for Quality Management.

Kateel has highly experienced and dedicated Engineers and timely approaching Service Engineer to make sure customer requirement/complaint if any.

List of products:

- 1. Pneumatic Active Disc Brakes : Air applied Spring Released
- 2. Pneumatic Failsafe Disc Brakes : Spring applied Air Released
- 3 Hydraulic Active Disc Brakes : Hydraulically Applied Spring Released
- 4. Hydraulic Failsafe Disc Brakes : Spring Applied Hydraulically Released
- 5. Mechanical Lever or Hand Knob Operated Disc Brakes : Manual
- Electro Hydraulic Thruster Operated Disc Brakes and Drum Brakes : Fail 6. Safe
- 7. Electro Magnetic Disc Brakes and Drum Brakes : Fail Safe
- 8. Hydraulic Rail Clamps (Storm Brakes) : Fail Safe
- 9. Thruster Operated Rail Clamps : Fail Safe
- 10. Pneumatic Clutch Brake

The Kateel range of hydraulic Brakes can delivered the Braking force up to 6 lacs N and use specially formulated hydraulic oil (Hydrol 68) to deliver the desired hydraulic pressure. These hydraulic brakes require a hydraulic power unit to operate the brake. Variable braking torque can be achieved by regulating the hydraulic pressure.

APPLICATION AREA

- Mine winder
- Steel Industries.
- Wind Turbine
- Conveyor
- Cranes
- Bulk Material Handling Equipment./stacker&Reclaimer

Features:

- Compact design
- Quick Brake response
- Low maintenance
- Large brake pad area
- lower brake disc temperatures
- Brake pad life is more
- Removable brake pad holders
- Changing the brake pad is easy
- Pad retraction springs are mounted as standard
- Drain ports for hydraulic oil leakage

The Kateel range of pneumatic brakes uses dry and compressed air at pressures up to 7 bar. These pneumatic brakes require a control valve which may be operated manually / by electric signal and Braking force up to 25000 N.

Application Area:

- Steel Industries.
- Cable Industries.
- Paper Industries.
- Wire Drawing Machine.
- Tyre Industries.
- Textile Machineries.
- Sugar Centrifuge



Special Purpose Machines.

Features:

- Compact design.
- Easy mounting.
- Low maintenance
- Less space consumption.
- Suitable for wet, dusty and corrosion aggressive environments.
- Cost effective.

Electro Hydraulic Thruster operated Drum Brake is used in Cranes, Conveyors and Material Handling Equipment and we are having Size from 100mm to 760mm Drum size and torque capacity up to 9600NM.

Options:

- Automatic liner wear compensator
- Torque scale for adjusting braking torque from 0 – 100%
- Manual release mechanism

Kateel Electro hydraulic thrustor Disc Brake is a fail safe brake. When power supply is given to the motor, hydraulic pressure builds up inside the thruster and the piston moves up to release the brake. When the power is cut off, hydraulic pressure gets released and the piston moves down, thus moving the brake arm forward allowing the pad to clamp the disc with the spring force and apply the brake and torque can be achieved up to 25000NM with Brake disc Ø1200mm.

Options:

- Automatic liner wear compensator
- Torque scale for adjusting braking torque from 0 – 100%
- Manual release mechanism

Features:

- High efficiency.
- Easy mounting.
- Compact design
- Low maintenance
- Suitable for wet, dusty and corrosion aggressive environments.
- Cost effective

The subject rail clamp is used as a parking brake for the trucks operating at sea shores. Refer to figure 1.1 for general arrangement of the clamp. It consists of two main links whose one end is connected to hydraulic actuator while the other end is fitted with brake pads. Both main links are hinged and supported by internal frame. The main links are also connected to springs through connecting links.



The externalrame is connected to truck. During the parking condition, the truck is held by clamping of the rails by spring force. To move the truck, rail clamp is release by actuating hydraulic cylinder. The external and internal frames are connected through a floating arrangement to accommodate the misalignment generated during truck movement. During parking condition, the clamp is subjected to a separating force generated due to wind or storm acting on the truck. The objective of the present work was to design a rail clamp of 130 KN capacity.

FRICTION MATERIALS-SINTERED

Metal-ceramic bronze-graphite friction material with high content of ceramic components and graphite, designed for a dry friction use.

Material characteristics :

- High co-efficient of friction
- High wear resistance
- The lining is solidly joint to its steel base pad by the layer of connecting material
- Good thermal stability up to 450°C, for a short term up to 800°C
- Small effect on the opposite surface
- Suitable for grinding, drilling and recess work
- Friction co-efficient stability in a wide range of operating conditions

KATEEL has introduced a high torque spring applied, air-cooled disc brakes for use in Surface Mining, Oilfield and other heavy-duty industrial machinery designs. These Brakes are to stop and hold machinery during emergency and safety critical situations. Standard brakes can be designed with multiple discs to generate max.6,20,000NM of static torque. All the brakes are pneumatic release so there is no need to worry about contaminated brake oil, hydraulic spills, or high pressure lines.

Application:

- Draw works
- Conveyors
- Winches
- Shears

www.kateel.com



> KAVERI ULTRA POLYMERS PVT. LTD.

Kaveri is in the field of plastics & rubber processing since 1970 although they process each and every plastics resin like UHMW PE, Polyurethane, Polypropylene, Nylon, Polyacetal, Polycarbonate etc., But engineering plastic is



their special area wherein the products have to meet tough technical requirements.

Kaveri is in the field of conveyor care products – and with several products under one umbrella cattering requirement of bulk material handling industries & sectors like:

- Bulk Material Handling
 Railways
- Chemical & Fertiliser Inds.
- Cement & Aggregate Inds.
- Coal & Power Plan
- Chemical & Speciality Pumps
- Ports

- Conveyor System
 - Engineering Industries
 - Steel Plants
- Mines & Mineral Processing
- Paper & Pulp Mills
- Filtration Inds.
- Automobiles, etc.

We, Kaveri Ultra Polymers P. Limited is a part of Kaveri Group of Companies and has been around for more than 50 years now leaving behind marks of its excellence in the field of manufacturing various Engg products made of Synthetic materials especially catering to the needs of Bulk Material Handling Plants and other Engg. Industries & has the distinction of winning the coveted TOP EXPORTERS AWARD from Government of India for 3 consecutive years.

KAVERI MAKE POLYMER LINER

- Save you from production loss
- Save you from manhour cost
- Save you from damage of Equipment etc.

LEAD YOU TO MORE PROFIT MAKER

See the picture showing difference of pre liner and post liner

We are the largest manufacturer in whole of Asia for flow promotion and conveyor related products.

We are only catering many products for flow promotion and conveyor related products under one roof.

PRIMARY BELT SCRAPPER

Durable, long-lasting belt deaners manufactured with the highest-quality materials resulting in optimal performance. Designed for fitment on the head pulley. It breaks the material to material adhesion after the discharge trajectory. Kaveri worldwide leader in the development of high-performance urethanes for



specialized applications, which means our primary cleaners keep conveyor systems cleaner, safer and more productive. Our belt cleaners are also engineered to be easy to maintain, including the installation of new blades. Technical data sheet is enclosed herewith for your ref.

SECONDARY BELT SCRAPPER

Eliminate fugitive material and carry back completely with a high-performance



secondary cleaner designed for fitment after the tangential take off point between the Head & Snub Pulley where the flapping action would be the least. It removes the material in the form of fine particles adhering to the belt.

4. Silent Features

- o Effective cleaning efficiency with cost effective design
- o Low operation cost with extremely long operating life.
- o Optimum Belt protection

o Simple Installation with less maintenance.

SKIRT BOARD SEALING

Material spillage problem - particularly at transfer point?

- Kaveri Skirt Board Sealing System eliminate spillage
- · Spillage reduce / Productivity increase
- Reduce manpower / Clean environment
- Interlocked & Overlapped designed blocks
- Monoblock design also
- Simple & Quick Installation
- Easy replaceable blocks

FALL OF MATERIAL FROM A HEIGHT, RESULTING IN TEARING AND PUNCTURE OF BELT.

Impact Pads are provided under the feeding chute where there is Impact zone – Protects belt from tearing and puncturing.

- Fit and forget type Long life of pads.
- No moving parts Nil maintenance.
- Reduces the bounce from falling loads to minimum.

Type of Steel Structure:

- Normal
- Heavy Duty
- Super Heavy Duty

<u>III A</u>

PULLEY LAGGING

Ceramic tiles embedded rubber sheet performing well Long life resulting in reduced down time High Co-efficient of friction

- Prevents Belt Slippage and Belt Sway
- Extends the life of Conveyor Belt
- Reduce Power Consumption
- Easy Installation

CLIP JOINT BELTS?

Or belts handling culminated materials like clinker, coke, alumina and other powdery substances which are susceptible to thermal cracks, resulting in powder getting stuck between the cracks and falling throughout the length of the conveyor, due to flapping of the belt.



Very effective for CLIP JOINT / THERMAL CRACKED belts.

- Protect Idler rollers & increase the life of Conveyor belt.
- Suitable for all belts.
- Motorised V belt drive & Segmented self-locking brushes.

AIR BLASTER

Apply at - Bunker, Chute, Hopper, Kiln - Inlet & Outlet, Preheater, Silo etc.

Suitable for high temperature material

- Mountable in any position (Horizontal // Vertical // Inclined)
- Blasting at prefixed intervals (Auto // Manual // Plant PLC)
- Ideally designed for Efficient operation Easy Maintenance



> KHODIYAR INDUSTRIAL PVT. LTD.

Khodiyar Industrial Private Limited is a leading manufacturer and supplier of conveyor parts based in India. With over 12 years of experience in the industry,



India. With over 12 years of experience in the industry, Arron Quanty they have developed expertise in producing high-quality conveyor

components that are durable, efficient, and reliable. Their product range includes conveyor rollers, idlers, drum pulleys, SMSR gearboxes, Plummer blocks, taper lock pulleys, and belt scrapers, among others.

The company uses only high-quality materials such as cast iron, steel, and rubber, and employs state-of-the-art technology and equipment to ensure that their products meet or exceed industry standards. They are committed to delivering exceptional customer service, timely delivery, and customized solutions to meet the specific requirements of their clients.

Khodiyar Industrial Private Limited's conveyor parts are widely used in various industries such as mining, cement, steel, and power generation, among others. They are known for their superior quality, high load capacity, and low maintenance requirements. Their product line is designed to meet the demanding needs of conveyor systems and provide reliable support for the safe and efficient transportation of materials.

In addition to manufacturing conveyor parts, Khodiyar Industrial Private Limited also offers expert installation and maintenance services to ensure that their products operate at optimal performance levels. Their commitment to quality, innovation, and customer satisfaction has earned them a reputation as a trusted and reliable partner for conveyor component needs.

CARRYING IDLERS

A conveyor idler is a mechanical component used in conveyor systems to support and guide conveyor belts. It is typically a cylindrical or trough-shaped roller that is mounted on a frame and supports the belt at regular intervals. The idler helps to maintain the proper tension and alignment of the belt, preventing it from sagging or slipping off the track. It



also reduces the friction and wear on the belt, increasing its lifespan. Conveyor idlers come in various sizes, shapes, and materials to suit different types of conveyor systems and applications.

SMSR GEARBOX

KIC Make SMSR Gearbox is a product line of shaftmounted speed reducers manufactured by Khodiyar Industrial Pvt. Ltd., a leading manufacturer of conveyor components based in India. These gearboxes are designed to transmit power from electric motors to conveyor systems, reducing the speed and increasing the torque. They are made from high-quality materials such as alloy steel and are available in various sizes and ratios to suit different



conveyor applications. KIC Make SMSR Gearboxes are known for their compact design, high efficiency, and low maintenance requirements. They are widely used in industries such as mining, cement, steel, and power generation.

CONVEYOR HEAD DRUM PULLEY

KIC Make Conveyor Head Drum Pulley is a product line of conveyor pulleys manufactured by Khodiyar Industrial Pvt. Ltd., a leading manufacturer of conveyor components based in India. These pulleys are designed to provide traction and support to conveyor belts at the head end of the system. They are made from high-quality materials such as steel, rubber, and ceramic lagging, and are available in various sizes and configurations to suit different



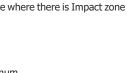
conveyor applications. KIC Make Conveyor Head Drum Pulleys are known for their robust construction, high efficiency, and low maintenance requirements. They are widely used in industries such as mining, cement, steel, and power generation.

PLUMMER BLOCK

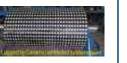
KIC Make Plummer Block is a product line of bearing housings manufactured by Khodiyar Industrial Pvt. Ltd., a leading manufacturer of bearing components based in India. These blocks are designed to hold the bearings in place and provide support for rotating shafts. They are made from high-quality materials such as cast iron and are available in various sizes and configurations to suit different applications. KIC Make Plummer Blocks are known for their robust



construction, high load capacity, and low maintenance requirements. They are











widely used in industries such as mining, cement, steel, and power generation.

TAPPER LOCK PULLEY

KIC Make Taper Lock Pulley is a product line of conveyor pulleys manufactured by Khodiyar Industrial Pvt. Ltd., a leading manufacturer of conveyor components based in India. These pulleys are designed to transmit power and torque from electric motors to conveyor belts, providing traction and support. They are made from high-quality materials such as steel and are available in various sizes and configurations to suit different conveyor



applications. KIC Make Taper Lock Pulleys are known for their easy installation, high efficiency, and low maintenance requirements. They use a taper lock bushing system, which allows for quick and easy pulley replacement without the need for specialized tools.

CAST IRON CASTING

Khodiyar Industrial Pvt. Ltd. is specializing in the manufacturing of cast iron castings. With over 10 years of experience, they have developed expertise in producing high-quality cast iron components for various industries such as automotive, agriculture, construction, and engineering. Their state-of-the-art foundry is equipped with modern machinery and equipment, and they use the latest technology and techniques to ensure consistent and reliable quality in their products. Khodiyar Industrial Pvt. Ltd. is committed to delivering exceptional customer service and meeting the specific requirements of their clients through customized solutions and timely delivery.

INDUSTRIAL COUPLINGS

KIC Make Industrial Couplings is a product line of couplings manufactured by Khodiyar Industrial Pvt. Ltd., a leading manufacturer of mechanical power transmission components based in India. These couplings are designed to connect two shafts together to transmit power and torque, providing a reliable and efficient means of power transmission. They are made from high-quality materials such as steel and are available in various sizes and configurations to suit



different applications. KIC Make Industrial Couplings are known for their high torque capacity, flexibility, and durability. They are widely used in various industries such as mining, construction, agriculture, and manufacturing, among others, and are designed to meet or exceed industry standards for performance and reliability.

www.kic.co.in



KHOSLA PROFIL PVT. LTD.



We would like to introduce ourselves as one of the Iargest manufacturers of Filter Fabrics in India since Solutions that keep you ahead. 1979. The company has grown into a Multi-Product &

Multi-Location manufacturing organization employing over 1350 people at its various plants in Wada & Daman, Head Office at Mumbai and Branch offices.

Khosla Filters as it is popularly known boosts of the latest manufacturing technology available in the world today. With its State-of-the Art manufacturing machines sourced from the Leading European machinery manufacturers, it today stands among the top 3 companies manufacturing filter fabrics in the world. Its manufacturing plants comprises of fully integrated manufacturing operations right from fiber to complete made-ups.It is, therefore, able to control its quality and it is fully backed by an extremely well equipped Laboratories at all its manufacturing plants which work round the clock.

Khosla Filters is available directly and also through its distributors network all over India. Due to its superior well established quality standard it is also accepted in over 60 countries around the World as well as the leading OEMs both International as well as in India.

Khosla Filters Offers the widest range of filtration fabrics from India from ready

shelf in Polypropylene, Polyester, PBT, Nylon & Cotton in Mono, Multi & Spun filament yarns.

Fabrics today are being used extensively in critical Metal & Mining applications for various filtration equipment.

- Tower Filter Press
- High Pressure Filter Presses including Membranes. (upto a plate size of 2.5 $\,mtr\,x\,3\,mtr)$
- Horizontal Belt filter (3.4 mtr wide joint less)
- Fluid Bed Dryer
- RVDF
- Pan filter
- Leaf Filter etc.
- ANFD (Agitated Nutch Filter Dryer)
- Centrifuges (including Peeler, Invert Model)
- Disc Filter
- Filter Bags

MEMBRANE HIGH PRESSURE FILTER PRESSES

- Fabrics for High Pressure Filtration, squeeze pressure upto 18 bar and backwash pressure upto 90 bar
- Specially suitable for automatic filter presses
- Nil Elongation and quick cake release
- Low moisture content in cake
- Higher life
- Widely used in Iron Ore, Zinc, Copper, Alumina and steel industries
- VERTICAL TOWER PRESS BELT FILTERS

Fabrics suitable for Hig Pressure filtration

- Ready to use belt with clippers and edge treatments
- High strength low elongation
- Outstanding abrasion resistance
- Low moisture content
- Less water consumption cake washing
- Higher life
- Wide range of fabric designs are available for individual industry and application

Widely used in Iron Ore, Zinc, Copper, Tio2 industries including Chemical, Pharma & other industries

HORIZONTAL BELT FILTERS

- Indigenously manufactured Monofilament Belt Filter Fabrics
- Specially finished to withstand high stress and easy cake discharge
- Ready to use belts are available including Double Laer weave fabric with options of Zipper, Clipper and Ultrasonic welding etc
- High strength low elongation fabric
- Handle high throughput / volumes

Used in Iron Ore, Alumina, Zinc, TiO2 industries including chemicals, food, pharma industries etc.

VACUUM DISC FILTERS

- Fabric made from non woven / needlefelt and woven fabric
- Wide range of fabrics with high air permeability
- Non woven / needlefelt fabrics with glaze finished and cake discharge
- Handle high volume
- Non woven /needlefelt fabrics with high strength scrim for higher life
- · Woven stretchable fabric to withstand high air blow

Widely used in Zinc tailings, Iron Ore concentrate and Alumina industries







ROTARY VACUUM DRUM FILTERS

- Fabrics made form woven /non woven in various PP, Polyester fibres
- High strength low elongation
- Better cake discharge
- Wide range of fabrics with welding and zipper arrangement

Widely Used in Steel, Zinc, Alumina, Uranium /Atomic industry including other industries

PAN FILTERS

- Fabrics made from PP, Polyester used in Alumina and Phosphoric acid filtration
- High Air Permeability fabrics
- Monofilament fabrics with under cloth
- High volume filtration
- Sec.
- Easy cake releaseHigh tensile strength

Widely used in Alumina, Phosphoric and Ilmenite filtration

NON WOVEN / NEEDLE FELT DUST COLLECTION FILTER BAGS

- High Temperature resistance fabrics made of PP, Polyester, Homopolymer & Copolymer, Meta Aramid (Nomex), PPS, Polyimide, PTFE, Woven Fibre Glass
- Suitable for temperature 90 deg -260 deg
- Fabrics provided with various special treatments for better cake discharge, less choking and maintain low DP



• Fabrice made with PTFE membrane lamination for low emission less than 10 mg /Nm3

Widely used in Iorn ore /Pellet, Steel, Zinc, Alumina, Copper, Power industries including other industries in Bag House areas

www.puritytex.com



> LALBABA SEAMLESS TUBES



Lalbaba Seamless Tubes, a flagship company of Lalbaba Engineering Group, is a leading Seamless Tubes manufacturer of Cold Drawn Carbon Steel &

Stainless-Steel Seamless Tubes with an impressive annual capacity of 72,000 Metric Tonnes. Trusted by industries such as Mining, Oil & Gas, Automobiles, Cranes, Hydraulics, Boilers, Power Plants, Cooling Towers, and Railways, our manufacturing facilities span 700,000 square feet and strategically located near Haldia port, establishing our dominance in Eastern India.

Our unwavering commitment to international quality standards enables us to thrive in competitive markets in Europe and the USA. Embracing sustainability, we incorporate solar energy into our operations, aligning our growth with environmental responsibility.

What sets Lalbaba Seamless Tubes apart is our dedication to maintaining the highest quality at every stage. Rigorous inspections of raw materials and meticulous testing in our NABL accredited lab ensure uncompromising quality.

Timely delivery is a priority, recognizing the importance of meeting project deadlines. With a nation-wide presence in Eastern and Western India, we operate full-fledged plants in Haldia and Ahmednagar, catering to Western market demands.

Our business focuses on two segments: Carbon & Alloy Seamless Tubes, and Stainless-Steel Seamless Tubes.

Choose Lalbaba Seamless Tubes as the preferred partner in over 20 countries. As India's largest cold drawn seamless tube manufacturers, we deliver unparalleled quality, exceptional service, and lasting partnerships. Experience reliability and excellence with us, the trusted name in the industry.

WIRELINE DRILL ROD - Q SERIES

Our Wireline Drill Rods are meticulously manufactured using the highest

quality steel tubes, specifically SAE 1040, 1541, and 4130. These rods meet the rigorous physical and chemical property requirements set by BS 4019, DCDMA, and Swedish Standard. Available in various types, including AQ, BQ, NQ, HQ, and PQ, our Wireline Drill Rods are designed to deliver exceptional performance in drilling operations.

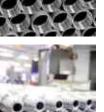
CONVENTIONAL DRILL ROD - W SERIES

We offer Drill Rods manufactured for 'W' Series (AW, BW, NW, HW, PW). The 'W' Series rods feature a larger outside diameter, increased inside diameter, and enhanced rigidity compared to the 'Old' Series. Our Drill Rods are crafted from premium cold drawn seamless steel tubes. They adhere to the quality standards outlined in BS 4019, DCDMA, and Swedish Standard.

SELF-DRILLING ANCHOR ROD

We take immense pride in producing high-quality Self Drilling Anchor Rods that adhere to the most stringent industry standards and undergo rigorous testing. The drill rods, manufactured using the Cold Drawn Seamless method, are available in grades C45, SAE 1045, and 41 Cr 4.

www.lalbabagroup.com







> LCS CONTROLS PVT. LTD.

LCS controls Pvt Ltd., founded in year 1995, nearing \sim 27 years of service in the field. We are proud to have served a wide range of customers in a wide range of industries.



Designers, manufacturers and "end-to-end" total solution providers in onboard weighing, industrial weighing, batching, bagging, packing and allied automation with a full-fledged manufacturing facility in industrial hub of Chennai, India

All in one roof "mechatronics" expertise: embedded electronics, mechanical items, electrical drives, material handling equipment's, sensors & pneumatic actuators, real-time software etc. This is LCS's unique strength, since many others lack in multi-discipline engineering skills.

Our R&D Centre accredited by Department of Scientific & Industrial Research (DSIR), Government of India, we consider it as an honor and recognition of our innovation spirit.

ISO 9001:2015 certified company

We are supplying Onboard weighing system for Dumpers (Payload-DT), Tippers (Payload-FBT) & Wheel loaders (Payload-WL). These weighing systems provide great advantage to mining industries to get to know the weight inside the dashboard of the vehicle. In addition, we supply safety related products for tippers known as "TILT SWITCH" which enhances the safety of vehicle and operator.

ONBOARD WEIGHING FOR DUMPER

The load measuring system range of products for dumpers consists of products on monitoring tools designed to maximize the efficiency and productivity of the Dump truck. The LMS is used to collect payload data and the speed of travel to enable safer loading practices and production efficiency Information.



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The load monitoring system in tippers measures the load and indicates the operator on the loading, whether it is under-load or over load. The system records the data in its memory and it can be retrieved using a thumb drive.

ONBOARD WEIGHING FOR WHEEL LOADER

Load is calculated in the loader while loading it in the truck. Advanced methodology provides accurate results of the load. Different types of report are stored in the memory and can be connected to a printer/GPRS for



monitoring.

TIPPER TILT SWITCH SYSTEM

- The advanced techno product from LCS has made your major safety issue into powders.
- Tilt Switch is a dual-axis, compact and robust industrial grade tilt switch.
- It can be used in static and harsh environments as factories, automotive or construction sites.
- The system provides an output when the vehicle angle is more than the set limit.
- The output is used to stop tipping of the vehicle for safety purpose.
- Visual and audio indication is ON when the vehicle angle is more than set point during tipping to alert the operator.

www.lcscontrols.in



> LEBRACS RUBBER LININGS PVT. LTD.

Corrosion and Abrasion resistant rubber linings are used to provide protection to process equipments and structure made of Carbon steel, Concrete or other subs tracts, from effects of corrosion as well as abrasion.



HER LOADS

Process equipments made of Carbon steel and protected with appropriate rubber linings is usually more economical than the same equipment fabricated of an alloy or more corrosion resistant metal such as Titanium or Tantalum.

LeBracs Rubber manufactures a wide range of rubber sheets in synthetic and natural rubbers , with different rubber formulae for various duty conditions.

LeBracs Rubber caters to demand for supplies in India and Overseas market.

- Mining and Mineral Processing Industries / Dredging
- Caustic and Chlor-Alkali Industries
- · Phosphoric Acid Plants / Fertilizer Industries
- Water Treatment, Effluent Treatment / Desalination Plants
- Flue Gas Desulphurization (FGD) Thermal Power Plants

LeBracs Rubber has over the years been certified under ISO 9001:2015 QMS; ISO 14001:2015 EMS and ISO 45001:2018 OHSAS demonstrating the management's commitment to Quality of product and concern for Environment and Safety.

LeBracs Rubber has over the last 30 years developed a range of products, such as

- Carbon Steel Rubber lined Pipes and Fittings
- Carbon Steel Rubber lined Tanks and Vessels
- · Rubber Sheets for On Site linings
- Rubber Hoses for Acid Transfer , Slurry Transfer
- Dredging Hoses
- Rubber Expansion Joints / Bellows

The manufacturing facility at No : 16, Sedarapet, Puducherry is an integrated facility for fabrication and rubber lining with a range of machinery, including a state of art extruder machine.

Supply of Carbon Steel Rubber Lined Pipes for Slurry Transfer Application with flanged ends as well as Grooved ends.

Supply of Carbon Steel Rubber Lined Elbows and Fittings for Slurry application.

Supply of Carbon Steel Rubber Lined Slurry Storage Tanks and other Process Tanks.

On Site Rubber Lining of Tanks for Storage of Slurry and various Chemicals above 5.5 mtr Dia

Manufacturer of Slurry Transfer Hoses , Suction Hoses, Dredging Hoses for

Slurry application, Chemicals handling as well as Water application.

Manufacturer of Rubber Expansion Bellows / Joints to take care of the Vibration movements of Pump Suction and Discharge as well as on Pipe Lines.

www.lebracsrubber.com



> LEOTRONIC SCALES PVT. LTD.

We introduce ourselves as the largest producers of the weighbridges in the country and have 23 well equipped Branches at strategic locations to provide efficient after-



sales services to our vast spectrum of customers. The Leo group has installed more than 20,000 Electronic Weighbridges and innumerable other weighing systems.

LEO has the most modern and state of the art manufacturing and testing facilities and also is an ISO 9001-2015 Certified Company. We are committed to Quality and Excellence in all our endeavors. Our goal is to deliver quality products at most competitive rates. In short our focus is the total satisfaction of our customers or rather exceeds their expectations. Such a commitment and zest has enabled us to attain the position of being the largest producer of weighbridges in the country.

PITLESS WEIGHBRIDGE

Pitless Weighbridges, also known as Surface Mounted Weighbridges are constructed over the level of the road surface. Since the platform is above ground level the cost of pit construction is eliminated and there is no water logging during the rainy season.



PIT TYPE WEIGHBRIDGE

Pit type weighbridges are robust in their construction and require lesser space. Being levelled against the surface, the pit type weighbridges are easy for vehicles to get on the weighbridge. These kinds of weighbridges are ideal for non-hilly terrain where the construction of a pit is not expensive. Since the platform is at the same level as the ground, vehicles can come onto the weighbridge from any direction.



In unmanned weighbridge the complete process is automated. Unmanned weighbridges reduce operational cost, eliminated human error and increases effeciency.

www.Leoscale.com



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▶ LIEBHERR INDIA PVT. LTD.

LIEBHERR

In India, the Liebherr Group is represented by Liebherr India Private Limited a sales and service company and by three other manufacturing companies. Liebherr India Private Limited was established in 2006, having its Corporate Office in Sanpada, Navi Mumbai, Maharashtra, India and employs a workforce of 203 people, providing sales and service for the product lines of Earthmoving and Mining Equipment, Mobile Cranes, Piling & Drilling Rigs, Crawler Cranes, Maritime Cranes, Aerospace & Transportation and Components to Customers in India and in the neighbouring countries such as Nepal, Bhutan, Bangladesh and Srilanka.

LIEBHERR R9100B HYDRAULIC EXCAVATOR POWERED BY



LIEBHERR DIESEL ENGINE.

- Operating Weight:
- 1) Backhoe Configuration 113 tonnes(125 US Ton)
 - 2) Face Shovel Configuration 116 tonnes(128 US Ton)
- Engine 565 kW / 757 HP
- Standard Bucket Capacity(Density 1.8MT/m³)
 1) Backhoe Configuration 7.5 m³
 2) Face Shovel Configuration 7.5 m³



LIEBHERR R9150B HYDRAULIC EXCAVATOR POWERED BY LIEBHERRDIESELENGINE.

• Operating Weight:

1) Backhoe Configuration - 130 tonnes(143 US Ton)

- 2) Face Shovel Configuration 130 tonnes(143 US Ton)
- Engine 565 kW / 757 HP

*Also available in Electric version

Standard Bucket Capacity(Density 1.8MT/ m³)
 1) Backhoe Configuration – 8.8 – 9.6 m³
 2) Face Shovel Configuration - 7.5 m³



LIEBHERR R9200 HYDRAULIC EXCAVATOR POWERED BY CUMMINS DIESEL ENGINE.

- Operating Weight:
- 1) Backhoe Configuration 205 tonnes(225 US Ton)
 - 2) Face Shovel Configuration 210 tonnes(231 US Ton)
- Engine 810 kW / 1086 HP
- Standard Bucket Capacity(Density 1.8MT/ m³)



2) Face Shovel Configuration - 12.5 m³

1) Backhoe Configuration - 12.5 m³

*Also available in Electric version

LIEBHERR R9300 HYDRAULIC EXCAVATOR POWERED BY LIEBHERR AND CUMMINS DIESEL ENGINE.

- Operating Weight:
 - 1) Backhoe Configuration 252 tonnes(278 US Ton)
 - 2) Face Shovel Configuration 253 tonnes(279 US Ton)
- Engine 1007 kW / 1350 HP
- Standard Bucket Capacity(Density 1.8MT/ m³)
 1) Backhoe Configuration 16.5 m³

Face Shovel Configuration - 16 m³
 *Also available in Electric version

LIEBHERR R9350 HYDRAULIC EXCAVATOR POWERED BY CUMMINS DIESEL ENGINE.

- Operating Weight:
 - 1) Backhoe Configuration 302 tonnes(333 US Ton)
 - 2) Face Shovel Configuration 310 tonnes(342 US Ton)
- Engine 1120 kW / 1500 HP
- Standard Bucket Capacity(Density 1.8MT/m³)
 1) Backhoe Configuration 18 m³
 - 2) Face Shovel Configuration 18 m³

*Also available in Electric version

LIEBHERR R9400 HYDRAULIC EXCAVATOR POWERED BY CUMMINS DIESEL ENGINE.

Operating Weight:

- 1) Backhoe Configuration 345 tonnes(380 US Ton)
- 2) Face Shovel Configuration 353 tonnes(389 US Ton)
- Engine 1250 kW / 1675 HP
- Standard Bucket Capacity(Density 1.8MT/ m³)

- 1) Backhoe Configuration 22 m³
- 2) Face Shovel Configuration 22 m³

*Also available in Electric version

LIEBHERR R9600 HYDRAULIC EXCAVATOR POWERED BY CUMMINS DIESEL ENGINE.

- Operating Weight:
 - 1) Backhoe Configuration 633 tonnes(698 US Ton)
 - 2) Face Shovel Configuration 645 tonnes(711 US Ton)
- Engine:
 - a) Liebherr engine: 2700 kW / 3620 HP
 - b) Cummins engine: 2500 KW/ 3350 HP
- Standard Bucket Capacity(Density 1.8MT/ m³)
 - 1) Backhoe Configuration 37.5 m³
- 2) Face Shovel Configuration 37 m³ LIEBHERR R9800 HYDRAULIC EXCAVATOR POWERED BY CUMMINS
- DIESEL ENGINE.Operating Weight:
 - 1) Backhoe Configuration 800 tonnes(882 US Ton)
 - 2) Face Shovel Configuration 810 tonnes(893 US Ton)
- Engine 2984 kW / 4000 HP
- Standard Bucket Capacity(Density 1.8MT/ m³)
 1) Backhoe Configuration 42 m³
 - 2) Face Shovel Configuration 42 m³

LIEBHERR PR776 HYDROSTATIC DRIVE TRACK TYPR DOZER POWERED BY LIEBHERR ENGINE.

- Operating weight: 71.8 73.2 Tonnes(79.1 80.6 US Ton)
- Blade: Semi U-Blade of 18.5 Cum
- Liebherr engine: 440 KW Forward / 565 KW Reserve

LIEBHERR T 264 ELECTRIC DRIVE POWERED BY CUMMINS DIESEL ENGINE.

- Gross Vehicle Weight (GVW): 417 tonnes(460 US ton)
- Nominal Payload: 240 tonnes(264 US ton)
- Engine 2013 kW / 2700 HF

LIEBHERR T 284 ELECTRIC DRIVE POWERED BY CUMMINS DIESEL ENGINE.

- Gross Vehicle Weight (GVW): 614 tonnes(667 US ton)
- Nominal Payload: 375 tonnes(414 US ton)
- Engine 3000 kW / 4023 HP

LIEBHERR MINING GET SOLUTION:

- Three Tooth Profiles, in Five Sizes
- Innovative Design
- One Single Locking System
- Truly Hammerless System
- Easy Serviceability

DREDGING EXCAVATOR:

Liebherr provides a full range of maritime excavator equipped with a complete

and unique range of attachments adapted to the customer's application. Operating weights from 100 t to 580 t and power ratings from 500 kW to 2,984 kW (701 HP to 4,000 HP). Liebherr dredging excavators are dedicated to move material in any condition, on seas, oceans or fluvial channels.

www.liebherr.com















> LLC «MODERN FIRE SAFETY SYSTEMS» (SSPB)

Company LLC «Modern Fire Safety Systems» is engaged in production, installation, repair and technical maintenance of SSPB-Tungus automatic fire extinguishing system.

LLC «Modern Fire Safety Systems» is the developer and manufacturer of SSPB-Tungus fire extinguishing systems. This system is designed to efficiently protect mining, construction equipment, heavy-duty open-cut transport, mechanized sections of processing plants, various plant equipment having large volumes of fuels and lubricants, high-pressure working fluids used in areas with a risk of ignition.

This system is effectively used in logging, processing machines and mechanisms.

The SSPB control unit is manufactured in accordance with the requirements of GOST-R 53325-2012. In addition to the main parameters such as: automatic start, start in manual mode, start with a delay and indication of the countdown time, stop and return of activation, the function of transferring information about the state of the fire

extinguishing system to the information system of equipment via the CAN protocol has been implemented, the state of the system is monitored in real time.

The UAP-2 autonomous starter allows the system to be started in the absence of power.

This activation system allows you to start the fire extinguishing system in any situation, which increases the efficiency of fire extinguishing.

Powder fire extinguishing module: MPP-2.7, MPP-10, MPP-24 - are manufactured in accordance with GOST 30631-99 for severe operating conditions, in the temperature range from -60C to +125C. MPP does not have locking and starting devices, does not require special storage conditions, can be installed on equipment both vertically and horizontally, assembled into modules. Over a long service life does not require routine maintenance (maintenance)

The water mist fire extinguishing module (MUPTV) is manufactured in accordance with GOST 53288-2009 for harsh operating conditions, in the temperature range from -50C to +50C. For a long service life does not require routine maintenance (maintenance)

This system is designed to efficiently protect mining, construction equipment, heavy-duty open-cut transport, mechanized sections of processing plants, various plant equipment having large volumes of fuels and lubricants, high-pressure working fluids used in areas with a risk of ignition.

www.sspb42.ru

≫ LOCATE365, MYVALUEPACK RETAIL PVT. LTD.

We specialize in Fuel Monitoring and Efficiency Enhancement Solutions that can help provide your company with high accuracy Fuel Monitoring that delivers results with more than 99% accuracy. This in conjunction with Drive365, our driver/operator application gives you complete control of your asset fleet.



Our solutions can monitor all assets which use fuel.

The solutions are designed to give a visibility of:

- 1) Realtime Volume of Fuel In the Fuel Tank of the assets, Storage Tanks [underground or Overhead], Fixed and other fuel consuming assets
- 2) Refueling / Draining volume, Real-Time with location.
- 3) Volume of Pilferage or Drainage, REALTIME alerts with asset identifier.
- Export of Refueling for issuance and AUDIT Report into your ERP or any other backend solution.

- 5) Data to audit the fuel expense on every asset or site as required, the same can be matched with the ERP entry using our Variation Report.
- 6) Engine Working/ Idle Hours for Static Assets [HMR], Consumption report [KMR] available for every asset or group of assets. Power Solutions for fixed and generating assets.
- 7) Standard features like Geo Fencing, Distance Travelled (for moving Assets), Ignition On / Off, etc.
- Assets could be clubbed into specific sub projects, and their performance benchmarked along with trends of usage.
- 9) Our Solution can integrate data from different assets onto one single Interface & with various third party and home grown software.

The Solution helps with monitoring overall Fuel Cost, measures/improves efficiency and helps improve accountability, enhanced visibility, and transparency within the Organization. The Solution can be used on all types of assets [fixed, moving and floating].

Fuel365, powered by Locate365 provides Fuel Monitoring and Efficiency Tracking Services that can help provide your business with high accuracy Fuel Monitoring that delivers results with more than 99% accuracy. This in conjunction with Drive365, our driver/operator application gives complete control of your asset fleet, solutions give you the ability to have an integrated view of the Fuel and Asset sides of the business.



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Drive365 is a mobile based application which helps with Realtime Driver Management, Duty management, Trip assignment, Shipment Management, Leave management, creating Customized Route Masters.

Make and manage a Reward Points program for Driver Incentive, Create Trips or let your client Create Trips through the Web Portal or Mobile App and monitor Shipments. Drivers get a mobile app and can seamlessly be on or off duty, start/end the trip, manage trip and expenses.

Set Geofence conditions from where Drivers can start/end the trip, shipment arrival notification Supervisor visibility into every task of the driver, Drivers get tracked through mobile app based tracking for route, driving patterns

Machine365, is an asset/machine service efficiency mapping application powered by Locate365, mobile based extremely nimble and scalable, built to served various business verticals.

Movelocal365, is a B2B2C hyperlocal courier delivery service application powered by Locate365 is mobile based and can be used by various businesses, for tracking deliveries and moving hyperlocal for businesses and personal deliveries.

www.locate365.in



MACO CORPORATION INDIA PVT. LTD.

Maco Corporation is having presence in mining industry for almost 25 years for supplying world class products and service support.



MACO provides ANSUL-USA, Auto fire Detection and suppression system for all kind of off-road mobile HEMM, and other engineering solutions like Clutch & Brakes (Danfoss, USA), Ground Engaging Tools (ESCO USA), Refuge Chambers for UG Mines (Mine ARC Systems, Australia), Fuel/ Lubricant Storage and Handling system (ROCK-TECH, Canada), Mine Ventilation Monitoring System (Maestro, Canada) and other accessories products for mining industry to meet your mining requirements in both open cast and underground Mines on Pan India basis.

We have earned recognition as a critical equipment / product supplier and service provider in mining sector. Our service support centres are located in

West Bengal, Rajasthan, Jharkhand, Odisha, Madhya Pradesh, Chattisgarh, Hyderabad and Bangalore.

MACO has a comprehensive service support system. All service people are trained by our principal / partners as per International Standard.

We have central warehouse in West Bengal and other storage facility at different location, which can fully meet market demand and aviod machines stop caused by parts shortage. We provide solutions within 24 hrs. and arrive at customer's site within 72 hrs.(max) to ensure equipments can be restored on immediate basis.

The ANSUL brand promises a full range of quality fire protection solutions - for Vehicle automatic fire detection and suppression systems.

The Automatic fire Detection and suppression System works in combination of Control Module- CHECKFIRE system and Dry chemical / LVS (Liquid Vehicle system) system / Inergen gas system along with pressurized expellant Gas Cartridge to provide around-the-clock, automatic, fire detection and actuation.



mineARC

ESCO

ANSU

The rugged control module is designed with self-sufficient batteries to run 24X7 withstanding shocks, vibration, and extreme environmental conditions.

Complete Clutch & Braking Solution for Mining ENGINEERING TOMOBROW Equipment. Eaton AIRFLEX now acquired by Danfoss is, the World leaders of industrial Clutches and Brakes have been the original

supplier to all the Global Mining Equipment Manufacturers.

UNIQUE FEATURE OF AIRFLEX BRAKES

Crowd Application | Hoist Application | Drag Application | Swing-Application | Propel Application

Refuge chambers are designed to provide a refuge or 'safe heaven' for miners suddenly trapped in hazardous or toxic environment.

MineARC is the global leader in the manufacture and supply of emergency refuge chamber from Australia. They have supplied refuge chambers in operations to over 40 different countries.

MineARC is the only refuge chambers manufacturer in the world with an ISO: 9001 quality rating.

ESCO products are trusted at mines worldwide for improved productivity and safety for dragline buckets and accessories along with Ground engaging tools.

ESCO® ProSeriesTM Dragline Chain

We offer complete strands of chain for both ESCO and competitor dragline buckets. Available in both hoist and drag configurations, ESCO ProSeries rigging chain is engineered for optimum performance, strength, and wear life.

ProLinkTM Mechanical Chain Link

The ESCO® ProLinkTM chain link offers faster, hammerless, and hot workfree installation and removal - reducing downtime and increasing safety. ROCK

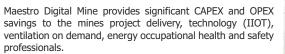
SatStat® Underground Fuel/Lubricant Storage and Handling Systems have a proven track record for rapid implementation, nominal engineering costs to accommodate, and increased productivity at the face. They provide a rugged, portable solution to safely storing and handling essential consumables like Hydraulic oil, fuel, grease etc.to maximize your equipment up-time in underground and to reduce operational cost.



Digital Mi

SatStat® units are customizable to your requirements and its modular design allows for single or multiple unit set-ups for the safe storage and dispensing of fuel, lubricants, grease, flammable and other liquids.

Maestro digital mine manufactures industrial internet Maestro of things (IIOT) devices and last mile digital networks for the underground mining sector.



More time at the face and higher production rates by allowing

safer and quicker re-entry times after blasting. Regulation and compliance monitoring by using modern IIoT devices and software tools for accurate and real-time data capture ...

SELF-CLEANING CAMERA

Tough-Eye from EXCELSENSE provides industry leading zero maintenance self-cleaning cameras for any Mining and Industrial application

ANTI COLLISION DEVICE FOR MINING HEMM

SAFEYE from DOTNETIX is an advanced stereoscopic machine vision system that detects and differentiates between pedestrians, industrial machines like dump trucks, excavators, forklifts, cars, and other machines typically found on Mining sites with the most advanced artificial intelligence (AI) built into SAFEYE. The system do not require any RFID tag.

HEMM SAFETY MATERIALS

Laser Proximity Warning System:

LPWS considers the vehicles / equipment's Blind Zone, Braking Capacity, Operator's, and Brake System Response time for Front & rear detection. Audio-Visual Display Unitinside vehicle cabin. Dynamic detection range adjustment with vehicles speed



Rear view Camera system is intended to aid the driver while reversing and avoid collision with any obstacle, vehicle, or human being.

OPERATOR FATIGUE MONITORING SYSTEM

Operator Fatigue and Distracted Driving Monitor designed for industrial applications to improve safety.

SEAT BELT REMINDER SYSTEM

Three-point contact type with a securing buckle with quick release, adjusting devices along with Audible alerts.

www.macocorporation.com



EXCELSENCE

DotNetix





MAHADHAN AGRITECH LTD. (FORMERLY KNOWN AS SMARTCHEM TECHNOLOGIES LTD.)

Deepak Fertilizers and Petrochemicals Corporation Ltd. (DFPCL) is among India's leading producers of fertilizers and industrial chemicals. Set up in 1979 as an Ammonia

manufacturer, DFPCL today is a publicly listed, multi-product Indian conglomerate with an annual turnover of over one billion USD with a product portfolio spanning industrial chemicals, bulk and specialty fertilizers, farming diagnostics and solutions, technical ammonium nitrate and value-added real estate, which includes India's 1st & largest revolutionary concept retail destination for Home Interiors & Design.

The focus is to create value. Whether integrating backward into raw materials or integrating forward to bring sectoral depth to its strategies, the Company is committed to propelling itself into a new and exciting orbit.

- In Technical Ammonium Nitrate (TAN), the Company is moving from a domestic market leader to being a global player, while moving forward into Mining Services and Solutions
- In Agri-business, DFPCL is moving from bulk fertilisers to offering specialty farm inputs and developing customized products for specific crop and soil
- In Chemicals, the Company is moving up the value chain from bulk chemical commodities to developing industry specific product grades
- It has built India's first true Lifestyle Centre, Creaticity. It is first of its kind retail destination that focuses on home and interior

LOW DENSITY AMMONIUM NITRATE

Used to manufacture ANFO explosives

- Used in Underground Metalliferous mines for stope and shaft blasting
- Its low density and high porosity produce good oil absorption and high detonation speed
- Used in dry or dewatered holes
- Brands: OPTIMEX®, OPTIMEX-PLUS®, VERTEX SUPER®

HIGH DENSITY AMMONIUM NITRATE- EXPLOSIVES GRADE

- Used to manufacture high quality emulsion and slurry explosives
- Uncoated HDAN can easily be mixed with water to form oxidiser solutions
- Brands: OPTIFORM®, VERTEX NORMA

HIGH DENSITY AMMONIUM NITRATE - MEDICAL GRADE

- Used to manufacture anaesthetic gas((N2O) for application in pharmaceutical industries
- Brands: OPTISPAN®, VERTEX SUPREME®

AMMONIUM NITRATE SOLUTION (ANSOL)

 Used to manufacture ammonium nitratebased emulsion products

TECHNICAL SOLUTION THROUGH TOTAL COST OF OWNERSHIP (TCO)

- Optimizing cost
- Business excellence
- · Improvement in the Mine productivity
- Deployment of tools/ gadgets to monitor and measure accurate results and the impact on the bottom line

www.dfpcl.com



MAHESHWARI MINING PVT. LTD.

Maheshwari Mining Pvt. Ltd was founded in the year 1978 with a vision to extend its services for the mining industry of India. The first office was setup at

Raniganj which eventually became the Head Office. Subsequently the Corporate office was established at Kolkata and many more regional offices are on Pan India basis. All the regional offices have been set up strategically for ease of monitoring and to have better control.

For almost over three decades, we have been committed to a long-term strategy of investing in World Class, Cost Effective, Customizable and Expandable Operations that reflects diversification across markets and geographic regions. From an early foray into exploration & mining, to staying abreast of the latest technologies, MMPL today has a strong presence across the nation.

The diverse experience of company personnel in resource sector industries — Underground Mining for Metal & Coal, Exploratory Drilling, Geophysical Logging, and Geotechnical Services as well as providing support services for O&M of Mining and Exploration Machineries to large Mine operators and MDOs has been very valuable credential for the company. Our motto – 'People with Experience' comprehensively expresses the values we have generated for our team.

www.maheshwaree.com



> MARINE ELECTRICALS INDIA LTD.

Marine Electricals is an integrated technical services provider in the fields of electrical **Marine Electricals** automation and information and communication technology solutions.

We made our beginning as supplier of Electrical switchboards to Indian Navy in 1978. During last 4 decades we grew to become the leading solution provider in the field of Electrical distribution and Automation.

While we continue to offer Marine solutions, our Industry division main focus is on solutions for low voltage, medium voltage distribution and automation solutions for process control and energy management.

Over the years we have developed in house R & D capabilities for product & solutions development and have also partnered with leading global companies.

Our insistence on High quality standards have given us opportunity to serve large and well known Industrial, data centres and Marine segment clientele.

Marine Electricals is a listed company on National Stock Exchange (NSE)

MEpoweR

Features:

- 11 kV/22kV /33kV Switchboards VCBs, Contactors ,RMUs , Load break switch
- Up to 40 kA withstand
- Type tested as per IEC62271-200
- Indoor / Outdoor Applications

MeCubE

Features:

- Complete range IEC 61439 certified by ASTA.
- PCCs , MCCs , Distribution , APFC
- Flexibility to use switchgears of leading makes Schneider, Siemens...
- Available IoT connectivity MEconnecT

BlokSeT

Features

- Leading License partner of Schneider Electric
- Range of PCCs and MCCs.
- Intelligent PMCC
- Tested for Internal Arc withstand

MEconnecT

Features:

- Energy monitoring & management system
- Maintenance prediction
- Asset management system
- Temperature monitoring
- · Augmented Realty for ease of operation

www.marineelectricals.com



MASYC PROJECT PVT. LTD.



"THE COMPANY IS AS GOOD AS IT'S PEOPLE". The dedicated team of key people, with more than 32 years of experience and very rich exposure in the "Bulk Material Handling", is the main asset of "MASYC GROUP" headed by a thorough professional, Mr. Vijay Bikhchandani.

As you know, No single manufacturer can fulfill all the requirements of Bulk Material Handling Systems and Equipments required in different processing Industries like Cement, Pulp & Paper, Steel, Coal, Glass, Fertilizers, Mining, Power, Agriculture etc. But MASYC Group through its experience and wide exposure world-wide have selected the proven technologies for components, equipments and systems to augment its strength to cater to the needs of every











day's changing science of Bulk Material Handling.

PRODUCT RANGE

- BELT CONVEYORS
- BUCKET ELEVATORS (BELT TYPE AND CHAIN TYPE)
- SCREW CONVEYORS
- CHAIN CONVEYORS
- APRON FEEDERS
- PIPE CONVEYORS
- SIDE WALL OR HIGH INCLINED BELT CONVEYORS

POLLUTION CONTROL DIVISION

- BAG FILTER
- ROTARY AIR VALVE / ROTARY AIR LOCK
- ROTARY FEEDER
- DUST EXTRACTION SYSTEM
- VENTILATION SYSTEM
- DUST SUPPRESSION SYSTEM

CRUSHER / SCREEN DIVISION

- RING GRANULATOR
- HAMMER CRUSHER
- IMPACTOR CRUSHER
- TOOTHED DOUBLE ROLL CRUSHER
- TURN-KEY MATERIAL HANDLING SYSTEM

SCREEN

- CIRCULAR / LINEAR MOTION
- FLIP FLOP SCREEN
- RESONANCE SCREEN
- HIGH FREQUENCY SCREEN
- VIBRATING FEEDERS

SCREENS - LINEAR MOTION / CIRCULAR MOTION

MASYC an ISO 9001-2008 certified company specialize in the field of Bulk Material Handling System, Conveyor Equipment, Crushers and Screens etc.. The Linear as well as Circular motion screens are single or multi deck structure with a substantial rigid design. The screen body consists of the two side plates with bolted transverse



Supports and Screen mounts. The Screen bar is based on an open design concept. For the Linear motion screens, the drive is through direct force exciter with Cardon shaft or through Unbalanced Motors. The angle of throw which depends on the application is usually 35-60 degree and is adjusted by counterweights. Whereas for the .circular motion screens, drive is either direct or through Cardon Shaft and V-belts. Shaft with its eccentric weights runs in heavy duty self-aligning roller bearing and the throw of the Vibrating Screen is varied by adjusting the eccentric weight. Linear as well as circular motion screens are supported above the substructure by helical coil springs and t e angle can be varied to suit the application. These Screens find usage in various application such as Sand, Gravel, Minerals, Ores, Pellets, Sinter, Coal, Coke, ,Pet Coke , Lignite, Limestone, Dolomite, Chemical products, Fertilizer, Compost, refuse and refuse Slags etc. Our major customers include Ultratech, Bhushan Steel and Power, Binani Cement, Nirma, Amrit Cement, Jindal Saw and Orient Cement etc.

BAG HOUSE DUST COLLECTORS

MASYC an ISO 9001-2008 certified company specialize in the field of Bulk Material Handling System, Conveyor Equipment, Crushers, Screens and Bag Filters etc. For sustainable and safer environment, "Masyc Bag House Dust Collectors" are used for various applications in the process plants such as Cement, Coal, Chemicals, Thermal Power Plant, Paper & Pulp, Mining & Minerals, Steel, Sugar & Food Industries etc. Masyc bag filters (Dust Collector) work on the principle of Pulse Jet Technology. A powerful shockwave passes through the filter cartridge during cleaning. The dust is discharged from the filter surface and the downwards flowing air allows it to fall in to the

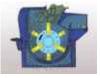


container. The pulse from the valve is distributed into the cartridge via a unique

laser out zigzag slot along the length of the blow pipe. The effect of the cleaning is further enhanced by the venturi shaped outlet of the cartridge. The result of the innovative cleaning and cartridge design gives an overall increased efficiency and lower operat ng costs. Masyc Dust Collectors (Bag Filters) are manufactured under the latest and innovative design aspects and technology. For example, the tube sheets are always laser cut to maintain the utmost accuracy in maintaining the perfect verticality of each bag. Normally the enclosure of the Bag Filter is fabricated in Panel formation so as to avoid excessive welding of stiffeners on the outer wall of enclosures. Each panel is laser cut and then bent on the computerized machine which ensures the perfect assembly prior to final welding. Further the Rotary Air Lock, Screw Conveyor & Chain Conveyor required for conveying the dust from the dust hopper are also manufactured in house. Our major customers include Amrit Cement, Bhushan Steel and Power, Binani Cement, Jindal Saw, Nirma Group, Ultratech Cement & Wonder Cement etc.

NON REVERSIBLE HAMMER CRUSHER

MASYC an ISO 9001-2008 certified company specialize in the field of Bulk Material Handling System, Conveyor Equipment, Crushers, Screens & Bag Filters etc. The Non Reversible Hammer Crushers are manufactured based on proven technology and in house strict quality control. Masyc Non Reversible Hammer Crusher is used for size reduction / crushing.



Material is broken first by impact between hammer and material and then by a scrubbing action (attrition) of material against breaker plate. Size reduction starts by impact, when the hammer strikes the material as it enters the crushing zone. Shattered fragments are swept down into final crushing zone for further reduction at the pinch points between the hammers and the breaker plate. Oversize material remains in the machine until it is reduced sufficiently to fit through the hammer and breaker plate opening. This crusher is available with adjustable cages, a feature that permits the user to make changes in the product size of the crushed product. The tighter t e clearance between breaker plate and hammer, the smaller will be the particle size of the crushed product. These Non Reversible Hammer Crushers are used for hard coal, lignite, limestone, gypsum and other soft and medium hard material. Masyc Non Reversible Hammer crusher have welded casing, screwed lining with high carbon steel plates and hammer path (one way) with wear resistant breaker plate which is mechanically adjustable. Dust proof spherical roller bearing are provided. The crusher is provided with tramp iron deflector and tramp iron tray so that crusher is protected from un-crushable material. Hammer heads are made of manganese steel or as per customer requirement. Our major customers include Ultratech Cement, Bhushan Steel and Power, Binani Cement, Nirma, Amrit Cement, Jindal Saw and Orient Cement etc.

TOOTHED DOUBLE ROLL CRUSHER

MASYC an ISO 9001-2008 certified company specialize in the field of Bulk Material Handling System, Conveyor Equipment, Crushers and Screens & Bag Filters etc. Masyc Toothed Double Roll Crushers are manufactured based on proven technology and under in- house strict quality control. Masyc Toothed



Double Roll Crusher is used for size reduction / crushing and material is crushed by high pressure between two rolls. The crushing starts as soon as material enters the crusher and falls on the toothed segment. High pressure on the circulating crushing tooth segment reduces the material into considerable sizes. Material, while passing through both the toothed double rolls gets crushed into desired size. Toothed double roll crusher produces more uniform produced than any other type of crusher. The crusher having separate drives has wide range of adjustment which makes possible to conform to tough specifications regarding sieve analysis of the product. These Roll Crushers are used for crushing the hard coal, lig ite, limestone, gypsum and other soft and medium hard material. It is of compact design, simple maintenance, high throughput, uniform material with lesser dust / fines generation. Masyc Toothed Roll Crushers have welded robust housing, roller cores in polygon shape with surface-ground supports for the tooth segment. Locking of the crushing tooth segments is by means of dovetail guide and fastening by screwed bolts. Crushing tooth segments are individually replaceable without lifting the Crusher Roll. One roll is fixed and other is movable, this helps the uncrushable material to pass through. Masyc can offer Toothed Double Roll Crusher upto a capacity of around 800 TPH and having Roller dia 1400mm. Our major customers include Ultratech Cement, Bhushan Steel and Power, Binani Cement, Nirma, Amrit Cement, Jindal Saw and Orient Cement etc.

REVERSIBLE HAMMER CRUSHER

MASYC an ISO 9001-2008 certified company specialize in the field of Bulk Material Handling System, Conveyor Equipment, Crushers and Screens etc.The Reversible Hammer Crushers are manufactured based on proven technology and under in-house strict quality control. It has the unique



design feature such as Welded Casing, Screwed Liner with High Carbon Steel Plates, Hammer heads made of chrome alloy cast steel or manganese steel depending upon the application. Rotor shaft is made out of forged steel, Hammer grinding path with Wear Resistant Plates which are Mechanically/Hydraulically adjustable and Dust Proof Spherical Roller Bearing. It crushes material in two stages i.e. initially the material is reduced by impact between hammer and material followed by scrubbing action (attrition) against breaker plate. Masyc Reversible Hammer Mill is used for Hard Coal, Lignite, Cooking Coal, Lime Stone, Gypsum and other soft and medium hard material. These Mills are rugged in structural, design and easy to maintain, aving high throughput and low wear. The maximum reduction ratio can be as high as 12:1 depending upon the WBI of the material. Masyc can offer Reversible Hammer Crusher upto a capacity of around 700 TPH and having Rotor dia 2000 mm. Our major customers include Ultratech, Bhushan Steel and Power, Binani Cement, Nirma, Amrit Cement, Jindal Saw and Orient Cement etc.

www.masycproject.com

≫ MBH PUMPS (GUJARAT) PVT. LTD.



MBH Pumps is ISO 9001 Certified Company Since 1969 having a profound understanding of different concepts used for mine dewatering .Being one of the only

manufactures from India offering submersible pumps with flow rates upto 4000 m³/hour,our s designs provide pumping heads upto 210 m. Our metallurgist select the finest alloys for the pumps, which are corrosion and abrasion resistant.

A pump forms an essential part of mining infrastructure and MBH helps ensure cost effective, continuous operations which is always focused on concept of high quality and safety.

Apart from durable, user friendly and low maintenance submersible pumps, MBH has also attained mastery in Auto prime Centrifugal surface pumps, which can be a great investment for any mine owner.

- (1) MBH Pro-Prime series Auto prime pumps capable to pump upto 180 m and 3000 m3/hr with Engine capacity upto 1000 HP
- (2) Submersible Tough series and DC series Dewatering pumps capable to pump upto 210 m and flow rates upto 1000 m3/hr
- (3) Slurry pumps with glycol cooling closed loop cooling system in Hi-Chrome and Ni-hard MOC achieving 700 BHN hardness on wet ends having capacity upto 60 Mtr Head with flow rates upto 800 m3/hr.
- (4) Submersible Contractor series pumps upto 60 HP, an economical solution for handling slurries in opencast and underground mines.

Apart from these pumps MBH Pumps manufactures a variety of utility pumps with focus on Dewatering , waste water and Raw water applications.

PRO-PRIME SERIES - AUTO PRIME PUMPS

- · Head : upto 200 meters with single stage impeller
- Flow : upto 2500 m³/h
- Solids handling : upto 125 mm
- Mechanical seal fitted pumps
- Diesel Or Electric Drive

Application: \bullet Municipal \bullet Mining and Quarrying \bullet Industrial \bullet Construction and Tunnelling \bullet Oil & Gas \bullet Marine

HD SERIES - TOUGH DEWATERING PUMPS

- Head : upto 210 meters
- Flow: upto 550 m³/hr
- HP: 120
- Solid Size: upto 15 mm
- Moc: cast Iron
- Frequency: 50 / 60 Hz

Applications: • Mining Source Water • Tunneling Face & Stage Dewatering • Open Pit - Underground Mine Dewatering

DCAL SERIES LIGHT WEIGHT ALUMINUM DEWATERING PUMPS

- Head : upto 100 meters
- Flow: up to 1000 m³/hr.
- Hp: 1 to 85
- Solid Size : upto 15 mm
- Moc : Aluminium with Stainless Steel
- Frequency : 50 / 60 Hz

Applications: • Cooling Tower • Jack Well Installation • Removing Dirty Water • Dewatering Pits • Open Cast Mining • Barge Mounted Dewatering

NI HARD - SLURRY PUMPS CLOSED-LOOP COOLING SYSTEM WITH GLYCOL COOLING

- Head : up to 60 meters
- Flow : upto 800 m³/hour
- HP : upto 85
- Solid content by weight : 65%
- Particle Size : 40 mm
- Moc : Ni-Hard Impeller & Volute
- Specific gravity : 2.8 kg/l
- Frequency : 50 / 60 Hz

Applications: • Fly Ash, Dredging & Thick Mud • Coke Pits • Sand and Gravels Excavation • Silt Removal • Ocean Sand Mining • Mill Scale • Coal Washery

CP SERIES - SUBMERSIBLE CONTRACTOR PUMPS

- Head : upto 50 m head
- Flow : 450 m³/hour
- HP : upto 60
- Particle Size : 40 mm
- Moc : 27% High Chrome impeller , 2% Ni-Ci Volute
- Frequency : 50 / 60 Hz

Applications: • Construction Slurry • Dewatering

NS SERIES PUMPS - SUBMERSIBLE SEWAGE PUMPS

- Head : upto 65 m head
- Flow : 4000 m³/hour
- HP: 0.5 to 250 Hp
- Particle Size : upto 150 mm
- Moc : Cast Iron / Duplex Stainless steel
- Frequency : 50 / 60 Hz

Applications:
• Handling of Industrial Abrasive Slurry • Untreated Sewage Containing Solid Particles • ETP • Municipal Sewage Plant

www.mbhpumps.com



> MILLENNIUM PRODUCTS AND SERVICES

Millennium Products & Services is a leading distribution house offering specialized MRO Products and solution to vide spectrum of industry since 1998.



We have pioneered the concept of making 'Maintenance A Profit Centre' through introducing highly innovative, customer focused and high- quality researched based products and solutions. We are glad to mention that we have earned recognition with our customers that the solutions offered by us have played a significant role in enhancing the life of equipment, reducing downtime and cut maintenance cost.We feel proud to have served a wide range of customers in Metal, Mining, Paper, Power, Port, Oil Refinery, Food, Nuclear, Fertilizer, Packaging and many more.









Product range that we offer :

ENVIROPEEL, USA

The Enviropeel System is the first system of its kind in the world to protect industrial assets from dust and corrosion. Enviropeel uses a unique corrosion-inhibiting Thermoplastic which encapsulates the target substrate in a perfectly-fitting protective outer layer.



In rotating equipments such as conveyor bearings, the system prevents the ingress of dust, water and other contaminants. Thus, it provides a reliable and cost effective solution to premature failure and prolongs the life of bearings by up-to 500% reducing shutdowns and the need for maintenance.

Bolted systems such flanges, valves, foundation bolts etc, are vulnerable to galvanic and crevice corrosion because of moisture and variety in material of components like stainless steel flanges with carbon steel bolts. With Built-in corrosion-inhibitors, Enviropeel isolates and encapsulates, depriving corrosion of the moisture it needs and bathing the entire system in corrosion inhibitor, actively preventing rust.

OMEGA SPECIALTY LUBRICANTS, ITW PPF KOREA

Omega has developed specially formulated line of heavy duty, high performance, specialty products which includes engine oils, gear lubes, greases and oil additives exclusively designed for maintenance, repair and overhaul (MRO) applications. Omega Products generally uses high value PARAFFINIC type oils for their higher viscosity index, stability and purity. Omega Products also feature a technically advanced family of exclusive and unique supplement called



[`]MEGALITE' to ensure maximum protection and minimize friction. With Omega, we overcome the barriers to good lubrication like High Load, Temperature, Moisture, Contamination, RPM etc. Customers have greatly benefited in terms of extended re-lubrication schedule, Enhanced equipment life, minimal man machine interface and reduced downtime

BIO-CIRCLE PART CLEANING SOLUTIONS, GERMANY

Bio-Circle Surface Technologies GmbH have developed & manufactured innovative products with a prime focus on SAFETY, HEALTH & ENVIRONMENT (SHE). Bio-Circle parts cleaning system is a safe, efficient, self cleaning and sustainable solution. Bio-Circle helps industry to eliminate use of hazardous cleaning solvent like diesel, CTC, MTO and other solvents which are unsafe for the environment and to the people exposed to it. It eliminates hazardous



chemical waste by combining a powerful blend of surfactants with specialized microorganisms cultured for bioremediation. Its products are Bio degradable and water based which contains natural active ingredients

MAGNA WELDING ALLOYS, ITW PPF KOREA

Magna has developed High – Performance maintenance welding products exclusively designed for maintenance, repair and overhaul (MRO) applications. They ensure 'Ease of Application', 'Wide Versatility' and 'Outstanding Physical Properties'. Magna quality alloys contain Rare Earth Compounds, Special Alloying Elements, Deoxidizers and Stabilizers. They are engineered to compensate for the



transformation of the electrode composition during the critical melting and resolidification phases. With Magna we specialize in jobs with dissimilar metal composition to minimize failures by eliminating guess work.

www.mpas.in

MINCEPTION

Vimson: Shivanand Salgaocar group is an Indian conglomerate with its origins in Goa over seven Minception



decades ago. With successful business ventures in mining, trading, finance, real estate, healthcare and sports, Vimson has worked relentlessly towards the betterment of the host community in which it operates and promoting environmentally sustainable practices. Committed to advancement, innovation and achieving excellence in every field, Vimson is rooted in values and driven by fervor.

With longstanding legacy backed by strategic partnerships, VIMSON has formed a unique consulting platform Minception, which through multidisciplinary consultation services transcending geographies and commodities, provides integrated and practically implementable solutions to exploration, mining and mineral companies in optimizing their growth.

Mining projects of today need an experienced knowledge partner equipped to tackle the complexities of the present landscape. Minception, built on a legacyrich foundation, is a team of global experts carry collective operating and technical experience in exploration, cartography, GIS, mining, mineral processing, plant engineering, financial modelling, project evaluation & management, open innovation, value engineering, multi-modal logistics, and mineral sales & trading.

Vimson has partnered with Newlab, a US based multi-disciplinary technology center, to create Prospect Mining Studio, a first-of-its-kind platform for applied R&D in mining value chain. Prospect explores new possibilities across the metals and mining value chain by bringing together startups, entrepreneurs, mining industry experts, venture partners, and leading academics from across the globe to define challenges, prototype rapidly, and implement pilots.

GEOSPATIAL SERVICES

We reinforce mine planning activities with accurate geospatial data obtained using precision-boosting survey tools and software. Our site-specific survey schemes use hyper visualisation techniques that deliver accurately, every time.

- Topographic survey of Greenfield & Brownfield sites
- 3D terrain model generation
- Cut & fill volume survey
 - AI based assessment of survey data integrated with exploration data

EXPLORATION

A quintessential part of the mining process is the exploration of potential mineral deposit sites. We use advanced exploration technologies to design and implement tailored strategies for each project.

- Exploration through Mapping, Geochemical Sampling, Drilling & more
- Airborne and ground geophysical prospecting
- Remote sensing data interpretation

MINERAL PROCESSING

Our expert metallurgists and engineers follow updated, scientifically backed methods to help design and implement sustainable mineral processing operations with optimum returns.

- Metallurgical testing & development
- Construction & commissioning of ore processing plants
- Process engineering of plant designs & flow sheets

MINE ENGINEERING

Running a smooth mining operation requires a wealth of experience. Right from resource estimation to mine closure, we offer solutions for optimum production scheduling and effective unit operations.

•End-to-end assistance from planning to operations

Process mapping to improve operations

MINE REMEDIATION

Mine closure and site rehabilitation are two of the most challenging aspects of mining operations. Our experienced crew is equipped to factor in these challenges and guide in integrating the remediation approach into the mine life cycle.

- Sustainable remediation approaches
- Overseeing reclamation process

CIRCULAR MINING

Tailings and waste rock dumps can pose ecological and social challenges for mining operations. We offer customised solutions to manage and repurpose or reprocess them to mitigate potential hazards, along with reducing the carbon footprint of the operations.

- Revenue-generation using mineral waste
- Sustainable solutions customised to the project's TRL

PROJECT EVALUATION

Our team of multidisciplinary specialists can help mitigate risks and maximise the value of exploration and mining through a holistic, integrated approach.

- Feasibility studies
- Due diligence reviews
- Economic evaluations & risk assessment

LOGISTICS

End-to-end logistic solutions are imperative for the smooth functioning of every mining operation. Our expert team is adept at multimodal logistics including road transportation, inland waterways, transshipping, and oceangoing vessels.

- Forward pricing contracts
- Flexible post-fixture operation

TRADING

With decades of diverse global trading expertise, we offer support to mining companies for exporting and trading in new markets. Through in-depth research, market monitoring, and analysis of industry trends, we assure maximised margins for clients.

- Strict KYC & documentation
- Financial risk mitigation

MINERAL ASSET VALUATION

Strategic investments are key to scale up volumes from diverse mineral assets and multiple commodities. Our expert evaluation highlights the risks and opportunities of every potential target to help investors arrive at an informed decision.

·Analysis of resource potential, geotechnics & environment

Assessment of commodity demand-supply & price dynamics

INNOVATIVE TECHNOLOGIES

Our extensive network offers investors access to select innovative early-stage tech investment opportunities in the natural resources sector.

- Exclusive access to emerging technologies
- Product market fit analysis

TECHNOLOGY ROADMAP

Rapid developments in technological innovation have significantly impacted the mining industry in recent years. To stay competitive and alleviate risks, we offer mining companies technology-led solutions that work.

- Agile, tech-empowered mining process
- Efficient, cost-effective operations that
- prioritise environment & worker safety

OPEN INNOVATION

The new challenges of the mining industry require advanced solutions. Our partnership with tech entrepreneurs, emerging startups and prominent researchers of frontier technologies enables us to provide innovative and sustainable solutions tailored to a project's needs.

- · Access to our ecosystem partners
- Pilotable solutions
- Industry-first technologies

www.minception.com



> MINEMATICS SOLUTIONS PVT. LTD.

MINEMATICS is a technology start-up to deliver a smart digital reality for opencast mines and help clients progress towards smart mining powered by totally purpose-built solutions.



MINEMATICS' mission is to empower mining clients migrate smoothly, risk free and gradually from physical record keeping to digital reporting to cognitive analytics to superlative optimization. MINEMATICS built solutions with most contemporary technologies such as edge computing, fog computing and data science with an intent to increase total productivity of mining operations, fleet efficiency in opencast mines and reduce fuel consumption. It specializes in aligning technology to process and provide deeper insights into operations with data granularity.

With over 100 man-years of expertise in operations and technology, the team

is well positioned to enable mining companies digitalize their operations from physical reporting to digital recording to real-time optimization. MINEMATICS proposes gradual digitalization of operations reaping tangible benefits at every stage as against big bang approach or clients can opt limited digitalization based on expected returns. This helps clients:

- Diagnose operations & quantify bottlenecks before high investment
- Invest small, validate gains and move to next stage
- · Achieve productivity gains proportional to investment
- Eliminate risks at every stage
- Plan every stage based on outcomes and observations in previous stage
- Prepare staff for small changes in practices with little resistance

In order to offer stage wise transition or limited digitalization, Team MINEMATICS developed a unique communication mechanism, that is flexible to adapt to any mine terrain without losing

to adapt to any mine terrain without losing data integrity yet provide returns that pays back the investment made in the technology.

MINEOPTIC is a purpose-built fleet management solution for opencast mines with edge computing and data science. The solution digitalizes and inter-connects people, equipment and processes to help mining companies



- · Reduce cost of production without compromising operational goals
- Increase production without new investment
- Reduce fuel contribution without cutting equipment availability
- Improve operating efficiency, not just equipment utilization

MINEOPTIC helps mining companies:

- Gain visibility into your operations
- Identify bottlenecks
- · Study process delays and quantify them
- Plan/Schedule operations to increase process efficiency

MINEOPTIC is quick to install, easy to maintain, flexible to deploy for any terrain. The solution is highly scalable in terms of functionality, fleet size, mine area and terrain. More importantly it is effective even under foggy climatic conditions.

MINEOPTIC helps mining companies smoothly transition from:

- Tedious error prone physical reporting to consistent drill down digital reporting
- Equipment focussed to context sensitive outcome/process focussed analytics
- · Basic reporting to in-depth analytics enabling process improvements

www.minematics.in



≫ MINIMAC SYSTEMS PVT. LTD.

MINIMAC SYSTEMS PVT. LTD. incorporated in 2012, is a leading manufacturer, exporter and technical consultancy company having its origin in India. We



offer the best-In-class, versatile, application compatible, cost-efficient equipment for lubrication reliability and contamination control. Minimac provides global quality standardized and customized solutions for high-velocity oil flushing, chemical cleaning, oil purification & oil testing. Our vision is to spearhead technology evolution to achieve ZERO MECHANICAL BREAKDOWN. We have established a strong brand and market presence in Asia, the Middle East & Caspian, North Africa, Africa, South-East Asia, and Australia.

FS SERIES

This system works on stage wise mechanical filtration technology. Minimac FS series oil filtration systems are high-end technology machines popularly used for superfine stage filtration (fine solid particle removal) of lubricating and hydraulic oils. FS series machines are externally attached, independently operating by-pass oil purifying machines.

Applications

- Power plants coal, gas, hydro, nuclear, wind, bio-mass
- Steel & rolling mills
- Cement mills & RMCs



- Non-ferrous mineral plants Al/Zn/Pb etc.
- Coal & metal mines
- Pulp & paper plants
- Automobile manufacturing
- Pressing, stamping, forging & foundry

Types of oil which can be cleaned:

- Lubricant oil
- Gear oil
- Turbine oil
- Hydraulic oil
- Water glycol

LASER PARTICLE COUNTER

- Laser Particle Counter is one of the most advanced Portable Particles Counter in the fielded of Contamination monitoring.
- Online & offline analysis of particles Counts in Various Grades of Fluid in Industries.
- Proactive Maintenance Capabilities by monitoring the health of Oil.
- Measure and display the particle Counts in Various International Standard formats.
- Comes along with Bottle Sampler unit (BS 100) for de-aeration facility.
- Suitable for laboratory application.
- Fully portable and easy to use (Light weighted 10kg) 10 Inch / 25.5 An Industrial Capacitive Touch Screen.
- In building a thermal printer for a report of particles Counts.
- All history results can be downloaded via USB Devices via USB Connector.
- Sample reports can be transferred to a Portable

www.minimacsystems.com



MINOCULAR (BLUEBANYAN TECHNOLOGIES PVT. LTD.)

Minocular is a technology-based solution provider for the mining industry, offering a suite of applications designed to improve the efficiency of

applications designed to improve the efficiency of mining processes. Their platform is customized to meet the specific requirements of each mine, delivering automated processes and tech-enabled colutions across all across of mining from digital mapping to floot

solutions across all aspects of mining, from digital mapping to fleet management, quality monitoring, safety, compliances, and more. Minocular's advanced technology platforms and centralized dashboard provide real-time data and analytics, empowering mining companies to make informed decisions and stay future-ready.

Minocular's solutions have earned them a reputation as a trusted partner for leading mining companies, including Dalmia, ACC, Nuvoco, SAIL, and many others. Their innovative approach to mining technology has helped these clients improve productivity, decrease fuel consumption, and achieve better management and monitoring of mining operations.

Minocular is a suite of technology-based solutions for the mining industry that improves the efficiency of the entire mining process. It includes digital mapping, drilling and blasting automation, fleet management, quality monitoring, safety compliance, and more. Backed by the latest technology platforms, Minocular delivers a complete mine monitoring and management platform. Clients such as Dalmia, ACC, Nuvoco, and SAIL have benefited from Minocular's tailor-made solutions, leading to decreased fuel consumption, increased productivity, and better management of mining areas.

Minocular's Drone Survey solution is designed to conduct surveys of mining areas while adhering to the Mineral Conservation and Development Rules (MCDR) regulations. It involves using drones to capture high-resolution aerial images of mining sites, which are then processed to generate accurate 3D models and maps. This helps mining companies to plan and execute their operations efficiently, monitor progress, and comply with regulatory requirements.

Mine compliance as per 12TH Safety Conference recommendations.

www.minocular.com



> MYPORT SERVICES INDIA PVT. LTD.

My Port Services India Pvt. Ltd., founded in 2009 is a supplier of Heavy-Duty Automotive Safety & Advance

Warning Solutions. With the objective to save lives and costs, My Port Services India has become the market leader in the safety industry. Our major line of operations involves Heavy-Duty vehicles operating in mines, Construction Sites, Ports, Airports, Military / Defence & other O-T-R (Off the Road) applications. 10 years, 35 employees, and 1000+ product installations later My Port Services India is still dedicated to improving and saving lives through its quality products.

We are committed to provide high quality products and systems for safety, security, advance warning and energy saving for Off-Road applications like Mines, Construction, Material Handling, Ports etc. We strive to meet and exceed our customer's expectations, comply with statutory and regulatory requirements and maintain the effectiveness of the quality management.

REAR VIEW CAMERA SYSTEMS

- Weather resistant IP 69K night vision camera
- Ruggedized monitor and water tight connectors
- 7" LED Panel (16:9 Wide Screen)
- Resolution: 1024 X (RGB) 600 Pixel
- Waterproof IP64 (Option)
- Wired and Wireless Options available

RADAR PROXIMITY WARNING SYSTEM - 5 Mtr/ 10 mtr

- Compact 24GHz Radar sensor
- No false alerts
- Detection Range : 4.3 x 4.0 Meter/
- IP protection rate : IP 69K

AI POWERED DRIVER FATIGUE MONITORING SYSTEM

- Ultra-wide 140° DFOV road facing lens, supporting up to 1920P UHD video recording
- Ultra-wide 170° DFOV driver facing lens, supporting up to 1080P HD video recording
- Support up to 4-channel video recording

DUAL AUDIO VISUAL ALARM

- Audio visual alarm with dual speakers.
- 4 LED Red Flashing Lights.
- 12-24 V DC

INTEGRATED PROXIMITY SENSOR + REAR VIEW CAMERA

- Sensing distance upto 5 mtrs
- Provide both blind spot image and
- audible warning to the driver to prevent accidents.
- 1080P (Full HD) / F.O.V :140 °
- Night vision (IR LED & CDS sensor)

AUTOMATIC FIRE DETECTION & SUPPRESSION SYSTEM

- This system is manufactured as per Director General of Mines Safety (DGMS), Circular No. 6 of 2020, for Dumper, Dozer, Drill Machine, Shovels, Excavators etc.
- Our AFDSS is a tailored-made product that can be designed to meet the customer's needs to prevent both human and machine.
- Single Zone and Two zones system available as per the machine make and model.

SELF CLEANING CAMERA

- Self-cleans abrasive dust, bitumen, mud, oil, using a micro-renewable optical layer without blocking the view even during the cleaning cycle.
- Single-piece design contains no vulnerable external hardware such as nozzles, hoses, compressors, which could fail or require upkeep and fluid top-ups

3D LOW-COST CALIBRATION TOOLS, SIMPLIFIED CALIBRATION PROCEDURES. 360 DEGREE AROUND-VIEW SYSTEM

- 4 pcs 1080P Intelligent Pedestrian Detection & BSD Camera inputs, with horizontal view angle > 170°.
- Support 2 pcs 128G SD card as video media.













· Low-cost calibration tools, simplified calibration procedures.

WORK | TGHTS

- 5" Square Flood LED Work Light
- 4" Square spot LED Work Light
- 2" Round Flood LED Pod
- 5" Wide Elliptical LED Work Light
- 5" Wide Flood LED Work Light
- Multiple flood lights available depending on the requirements ٠
- **RED KILL ZONE LIGHTS**
- I FDs: 7 x 3w
- Housing Material: Aluminium
- EMC/EMI Approval: CISPR25-Class3 •
- Dimensions: 120/108/80mm
- Voltage: 11-65V DC

ANTI COLLISION SYSTEM WITH AUTO STOP RADAR

- VMS Auto Braking Radar
- Provides both audio and visual alerts and auto stoppage as per the breach of pre-set distance of proximity

ETHERNET CAMERA

- Integrated, FPGA based video processing unit for customised functions as: •
- Image processing
- Feature tracking, active overlays possible
- Inspection and measurement of objects •
- Reading of coded information (QR, OCR)
- Fully digital image/video transmission (30 fps)

www.myportservicesindia.com



➤ NANDA MILLAR CO.

Nanda Millar Co. A journey into excellence that began in 1965. Forging ahead with confidence till today NMC stands tall with an impressive 55 years of providing solution to the engineering industry.

The team is lead by JP Goenka a distinguished aluminous of Indian school of mines - Dhanbad and a fellow if Institute of Engineers. NMC is registered with N.S.I.C. and are ember of Engineering Export Promotion Council (EEPC) confederation of Indian industries (CII) and Indo-Germanic chamber of commerce.

PRODUCTS

The main activities of NMC are manufacture of products for Underground Mining applications including Suspension gears, Access & Winding equipment, Strata monitoring instrument, Ventilation Instruments etc & products of pipe couplings, pipe fittings repair clamps, Rubber sealing gaskets.

QUALITY CONTROL

Strict quality control is enforced on NMC products at every stage of manufacture. And only those products are stamped with the approval, which meets stringent standards.

INFRASTRUCTURE

The entire function of NMC runs like clockwork. The main office at Kolkata is technically upto date and computerized for maximum efficiency. The network of representative officers spread over the country is linked by effective communication. The factory at Kolkata boasts of comprehensive infrastructure for optimum manufacturing conditions.

DELIVERY ON SCHEDULE

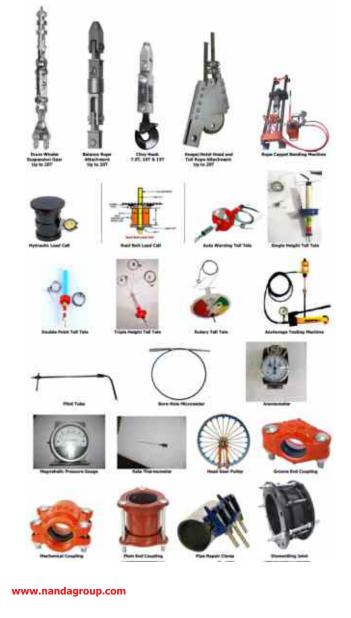
The NMC advantage remains its perfect delivery schedules. It is the reason why NMC is a trusted name even in the demanding industries. Quality, on time remains its motto for work.

CERTIFICATION

The NMC kitty includes prestigious certifications that range from DGMS approval to the ISI licence. The ISO 9001: 2015 accreditations has been awarded by TNV

NMC TOMORROW

This focused NMC journey is ended in one direction... to greater heights in piping and other related engineering areas. Providing its expertise due to sheer attention to quality. With a vision of carrying forward its established reputation for reliable quality equipment... every time.





NATIONAL ENGINEERING INDUSTRIES LTD. (NBC BEARINGS)

Founded in 1946, National Engineering Industries Ltd (NEI), a part of the US\$ 2.8 bn CK Birla group and manufacturer of NBC brand of bearings. Enabling sustainability by making movement more efficient, NEI is India's largest manufacturer and exporter of bearings with production of 200 Mn bearings annually



(CK BIRLA GROUP

in over 2300+ variants for application across automotive, railways, aerospace and industrial segments to serve customers in more than 30 countries. It also serves the Indian aftermarket through a countrywide network of over 550 authorized stockists and thousands of retailers.

Headquartered in Jaipur, India NEI is the only bearings manufacturer in the





world to win the prestigious Deming Grand Prize (2015). With an employee strength of over 2,800 and five manufacturing plants in Jaipur, Newai (Rajasthan), Manesar (Haryana) and Vadodara (Gujarat), NEI is equipped with global manufacturing and process technology and one of the best R&D centres in India. Apart from being technologically advanced, the company practices methods of sustainability by using alternate sources of energy and increasing the efficiency of the manufacturing process by leveraging on the power of digitisation. NBC Bearings is committed to be carbon neutral by 2039.





In 2020, NBC also acquired Kinex bearings in Europe to enhance and diversify to provide best-in-class products to it's existing and potential customers. In 2022, NBC opened it's Global Technology Centre in Germany to support it's global customers and innovation.

DOUBLE ROW CYLINDRICAL ROLLER BEARINGS

Bearing solution for Pallet Car(Coke Oven and Sinter Plant)

DOUBLE ROW TAPERED ROLLER BEARINGS

Bearing solution for Pallet Car(Coke Oven and Sinter Plant)

SPHERICAL ROLLER BEARING

Bearing solution for Converters, Roll neck Bearings, Roller Tables, Continuous Casters and Gearboxes

FOUR ROW TAPERED ROLLER BEARING

Roll Neck Bearings

FOUR ROW CYLINDRICAL ROLLER BEARING

Roll Neck Bearings

INSULATED BEARING

www.nbcbearings.com

Bearing solution for Electric Motor Application

CONDITION BASED MONITORING

- NBC Provides intelligent solutions for Condition Monitoring in order to improve the reliability of assets.
- CBM service helps industries maintain their machinery failure -free



NETZSCH PUMPS & SYSTEMS

NETZSCH Pumps & Systems India is the leading pump manufacturer and is the subsidiary of

Netzsch Pumps and Systems Germany. We, design, manufacture and service NEMO Progressing Cavity Pumps, TORNADO Rotary Lobe Pumps, NOTOS Multi Screw Pumps, PERIPRO Peristaltic Hose Pumps and Grinders. We are serving the industry globally for over 70 years. We operate in about 40 countries globally directly and with our partners.

We have satisfied clients from across different industry segments demanding high standards of services for us and our products. Our customers choose us for, a reliable product that offers solutions to the challenges they face for trouble-free operations of their plants. This will secure and maintain production with long-term cost efficiency.

NEMO® B.Max Mixing Pump

Solution for mixing and conveying in biogas technology and environmental technology. B.Max® mixing pump feeds the fermenter with a mix of dry and liquid substrates.

NETZSCH

Proven Excellence.

TORNADO® ROTARY LOBE PUMPS

The main advantage of Rotary Lobe Pumps is the compact design, high power and maximum operational reliability.

Advantages:

- Great suction capacity up to 8mWC

- Highly resistant to dry running
- Direction of rotation and of
- conveyance reversible
- Can be installed in any position
- Quiet, low-noise running
 - Low life cycle costs
 - Service without pump removal

NOTOS® MULTI SCREW PUMP

In mining you need equipment that is well prepared for working with different types of rock and that work tirelessly. To ensure the required reliability of ball mills and sag mills working in this harsh conditions reliable lubrication is essential. NOTOS® multi screw pumps provide the continuous supply of lubricant and fulfil two essential tasks: supply to the injection unit and the actual lubrication oil circulation.

PERTPRO PERISTAL TIC PLIMP

PERIPRO peristaltic pumps are particularly suitable for aggressive and abrasive media with a solids content of up to 70 percent. The group of peristaltic pumps offer you an extremely high suction capacity with minimal maintenance at the same time.

Your benefits:

- Excellent resistance to abrasion in the pumping of products with high solid content
- Ease of maintenance and operation for continuous work applications (24 h/7 days) due to the design and robustness of the equipment
- Low shear pumping for dosing of polymers and flocculants
- Maximum process efficiency
- Pump with no valves or mechanical seals
- Indefinite dry running
 - Reversible pump

www.netzsch.com

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> NEWTON WEIGHING SYSTEM PVT. LTD.

Established in 2005, Newton Weighing is a stalwart company engaged in Manufacturing and providing Services for a complete range of Industrial Weighing and Automation Systems.



Our Wide range of Solutions find application in areas of Mining & Metallurgy, Quarry, Construction Projects, Thermal Power Plants, Chemical and Fertilizer Plants, FMCG, Material Handling equipment's and many more.

We are skilled in providing solutions for a large variety of Digital Weighing and Process control equipment's which include Conveyor Belt Weighing Scales, Weigh Belt Feeders, Road Weigh Bridges, Pay Loader Weighing System, On-Board Weighing Solutions, Tank/Silo Weighing Systems, Load Cells and several other process control and automation systems each customised as per our clients' best and specific requirements.Our recent launch with WeighConnect® IoT for Remote Monitoring helps our users access and monitor their production remotely at their finger tips from any place in the world. This IoT is not only a monitoring device but can also be customised to facilitate control over digital equipment's remotely.

We at Newton are committed to continuous development and automation, incorporating latest efficient technology to benefit our valued patrons from redundant costs.

BELT WEIGHER SYSTEM

Our Newton® make NBS series Belt Scales are a High Precision Online Weighing System used to gauge the flow rate of material travelling over a conveyor belt. Our Belt Scales prove as an essential mode of measuring and monitoring material and helps with prime data like Flow Rate (TPH), Cumulative Totalised Quantity Processed, Belt Speed, Belt Load (kg/m) and all these data are recorded and stored in our Weighing









Controller.

Accredited Certifications: Model Approved by Govt of India, Legal for Trade Series -Legal Metrology Weights and Measures Certified

ON-BOARD WEIGHING SYSTEM

Versatile and fully automatic, our Newton® make NPLS Systems help in weighing the contents of the Loaders/Excavators/Dumpers/Forklifts etc.

Our NPLS system is a Highly Precise Online Weighing

System which can easily be retrofitted on any vehicle



without need of major modifications. This scale help is measuring the Live Weight, Cumulative Total Weight, Bucket/Trip Counts, Set Point for Target Load, Underload/Overload values.

Benefits: Makes Loading accurate and fast / Eliminates fines / Total Loading records can be recorded.

ROAD WEIGHBRIDGE SYSTEM

Our Newton® make NTI-W Series Road weighbridges are a High Precision Static Vehicle Weighing Scales mounted on a concrete surface to weigh vehicles and their contents accurately.

Available in sizes starting from 7x3m to 22x3m ranging from 10 Tons to 200Tons.

Weighing Data from the scale can easily be transmitted to any external devices viz. Scoreboards, PLC, Alarms Systems etc. Through our Weigh Connect IoT, data can also be online or over SMS/Email for remote monitoring.

Accredited Certifications: Model Approved by Govt of India, Legal for Trade Series -Legal Metrology Weights and Measures Certified

WEIGH BELT FEEDERS

Newton® manufactures custom engineered Belt Weigh Feeder systems that find use in continuous bulk proportioning of solids.



Our Weigh Belt Feeders along with measuring the flow rate also maintains a constant feed rate of material by varying the belt speed.

The desired flow rate can be set on our controller; rest leaving it all to our intelligent controller which automatically detects and adjusts the speed of the belt through the VFD when there is an Underload or Overload corresponding to the set flow rate.

Accredited Certifications: Model Approved by Govt of India, Legal for Trade Series -Legal Metrology Weights and Measures Certified

HOPPER WEIGHING SYSTEM

Our Newton® make NHS series Hopper scales help in weighing a continuous flow of product from a hopper/tank/silo.



This system is generally used in process industries for inventory control, process optimization, recipe creations, and other process control.

Along with displaying weight, our controller also has an In-Built Material Level Indicator which continuously displays the bin level status for better productivity optimization.

www.newtonweighing.net



> OLI VIBRATORS INDIA PVT. LTD.

OLI is the international leader in industrial vibration technology, providing clients around the world with OII industrial vibrators, electric vibrators, concrete consolidation, frequency converters and a vast range of products designed to adapt to multiple applications in the widest range of industrial sectors.

The company combines the quality of Italian know-how with a global strategy,

allowing it to become one of the main sector players in the international field thanks to the contribution of an international network of business subsidiaries spanning all five continents.



63

Electric moto vibrators for all types of vibrating equipment. Available in Standard, Increased Safety and Explosion Proof ranges.

Comprehensive range of electric and pneumatic vibrators to solve any problem of flowability. flow aids are designed to solve issues caused by design errors or by the characteristics of the powder or granules handled.

Internal and external vibrators, convertors and

compaction.





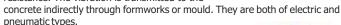
screens and feeders without any support crossbeam. Designed to exert its centrifugal force much closer to the screen walls than traditional foot mounted electric vibrators fitted on a support crossbeam.

Flanged vibrators specifically designed for sieves and Ceramic industrial applications. They are very easy to set up and are maintenance free.

The Flanged Drive series is designed for circular motion screens up to 11 tons in weight and liner motion screens up to 22 tons in weight. It has zero maintenance, quick installation and a robust design which is built to last.

The Electronic Frequency Converters are designed for Precast plants and construction sites. With the help of this it is possible to power on the vibrators one by one, in groups or all together. It is also maintenance free thanks to the high-quality components used.

Shutter vibrators are used in construction sites and in precast manufacturing plants to obtain high-quality products (exposed concrete), with excellent aesthetic results and weather resistance. The vibration is transmitted to the



MVE-Milling moto vibrators are specifically designed to cater the needs of the food grain industry. Available in 6,8,10 and 12 poles.

OWCs are oscillating mounts for vibrating devices like vibrating screens, feeders, dryers, compaction tables and vibrating machines in general. OWC oscillating mounts withstand pulse feed. They are maintenance free and can work in any type of ambient temperature between -40 °C and 80 °C.

www.olivibra.com



> ORBINOX INDIA PVT. LTD.

We are a subsidiary of Orbinox SA, Spain engaged in the manufacture of Knife gate valves. With more than 45 years of experience in the industrial market worldwide, we have become a well known knife gate valve manufacturer responding to new industrial developments.



Our 35,000 Sq ft factory located in Coimbatore produces Knife gate valves from the best quality raw material. Design and engineering are done by our R&D wing located in Spain. Our product range offers you many model sofKnfe Gate Valve s designed for various applications. These different models are available in a wide range of Material and Sizes.

Orbinox India produces more than 4000 knife gate valves every month, 60% of which are exported to European and American markets. 40% of the production

are presently sold in India. We have kept a spare capacity of around 1000 valves per month considering our growth in domestic market share.

Orbinox offers a wide range of knife gate valves for handling diverse applications in the following industries.

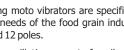




MODEL-VG Slu DN 50-DN 1400 Ductile iron

Valve Wide DN 50- DN 900





- Power
- Paper and Pulp
- Steel
- Cement
- Mining
- Petrochemicals
- Foods and Beverages etc.

We are an approved supplier of knife gate valves to major EPC's & Power producers like BHEL, NTPC, GE Power, Macawber, Thermax, KPCL, GSECL etc.

Our mission is to meet the needs of our customers and to continue improving our products and services through teamwork, training and performance. The companys growth is balanced on years of experience from research, design, production and marketing with a firm determination to maintain recognition of its quality and service on the market and to remain competitive in the knife gate valve industry.



www.orbinox.com

> OREMAK MÜHENDİSLİK VE MADENCİLİK **ANONIM SIRKETI**

OREMAK serves the world's heavy industry in mining and mineral processing. Our newest manufacturing plant with covered facility sits in our estate at the industrial zone in Istanbul, Turkey. With a workforce of qualified personnel, OREMAK has one of the best machinery park consisting of



the latest technology and best quality machines. OREMAK is an experienced designer, manufacturer, and supplier of mineral processing equipment and material handling systems, and provides services, technical assistance, and turn-key solutions to firms in countries all around the world. Our clients and partners are based in countries around the world. At OREMAK, customer satisfaction is our primary target, and we have been certified for that. Collaborating with experienced and professional engineers, possessing sophisticated and high-tech machinery and facilities, multiple workshop spaces, strong financial support and extensive contribution to other companies and manufacturers in the world made it possible for OREMAK to present itself as an industrial activist in the following fields:

- Magnetic Separators
- Vibratory Screens and Feeders
- Conveyor Systems
- Flotation Cells
- Filtration and dewatering
- Rotating classification and sizing systems including Roller Screens and **Roller Feeders**

ROLLER SCREEN

The main characteristic of roller screen is its smooth movement and integrity preservation of brittle particles. The roller screen also provides higher performance, slight sound and capability of separating high moisture sticky materials. Roller screens are mainly used in iron ore



processing plants for concentrate scalping before HPGR and sizing pellets after the balling disk.

DRUM SEPARATOR

We produced more than 1000 magnetic drum separators both wet and dry types. Wet magnetic separators are used for cobbing, roughing, cleaning and dewatering. Dry magnetic separators have two main types, housing and belt configurations. Body and tank of both wet and dry magnetic separator are



protected by a wear resistant layer made of unti-wear natural rubber, ceramic tiles or 304 stainless steel.

WHTMS

Oremak company is involved in design a wide range of Wet High Intensity Magnetic Separator as new products. WHIMS are applicable for upgrading Ferrus metals and recovering rare Earth materials. The electrical current (about 1400A) is passed through the coil and creates a high intensity magnetic field. This magnetic field will magnetizes the rotating matrix ring. The matrix is magnetic field will acts like a permanent



magnet and attracts the fines. When the matrix is out of the magnetic field, washing water will wash the matrix and all the magnetic particles will carry into concentrate launder

ROLLS

Rolls play a significant role in the process of material classification in a roller screen/feeder. The better the roll palys its role, the screen will perform better. Rolls are reviewed from two perspectives: base material and coating.

www.oremak.com.tr





➤ ORIENTAL ENGINEERING WORKS PVT. LTD. (OEW)

OEW an ISO 9001:2015 and ISO 14001:2015 Tangee OEW company certified by TUV Cert Germany for

manufacturing of "Tangee OEW " Single Acting / Double Acting Hydraulic Jacks up to 2000 Tonne capacity (working pressure 10000 psi), Custom-built Hydraulic Cylinders, Hydraulic Hand Pumps up to 2800 Bar, Electric operated Power Units, Hydraulic System including Cylinders & Power Packs for Construction, Mining, Power , Tunnelling, Underground Metro's, Transportation etc., Vacuum Dewatering Pumps , Sound Proof Canopies and Hydraulic tools like Torque wrenches, Hydraulic Pullers, H-Frame Presses, Hydraulic Bolt tensioners etc.

Majority of Hydraulic products comply to ASME-B30.1 and ISO 10100.

Hydraulic Jacks, Hand Pumps, Power Units and Dewatering Pumps have been certified for CE Mark from BMQR.

Heavy Duty general purpose hydraulic jack/ram/cylinder with plain and screwed ram from 5 ton to 2000 Ton capacity, available in single acting, double acting. Also Available Hydraulic Jacks in Aluminium for light weight



Hydraulic Stud Tensioners to Pre-Load the Studs with equal tension prior to tightening the nuts as well as to facilitate easy unscrewing of the nuts.

- Mechanical & Integral Type Hydraulic Puller
- Available in 2 and 3 jaw design and inside and outside pulling configuration
- More efficient pulling, as one man can be do the job

All Master Puller sets include a Grip Puller, a Cross bearing Puller, a Bearing Cup Puller and a Bearing Separator which can be ordered separately. Supplied with a full hydraulic set including Pump, Hose, Cylinder, Gauge and Gauge Adaptor in a storage case.

Hydraulic Track press/Master Pin Pusher, make possible to disassemble and reassemble excavator and bulldozer chain

Hydraulic Re-Railing Equipment. This equipment

is primarily designed to re-railing all types of de-railed



rail vehicles.



Hydraulic Flange Spreaders is used for Maintenance, Commissioning, Shutdown, Testing and Valve Change outs. No need

for Hammers, Chisels, Slings or chain blocks. Requires very small access gap of only 6mm.

Multi stage cylinders meant for large strokes in restricted closed heights, also available in Double Acting

Sq. Drive & Low profile hydraulic torque wrench ranging from 112 Nm to 72000 Nm, covers the most of Bolt Sizes

www.oewin.com



> ORIONE HYDRAULICS PVT. LTD.



Orione Hydraulics Pvt Ltd established in 1992 and has grown over the past 25 years providing

Integrated Engineering Solutions in Oil Hydraulics to customers of domestic and exports markets.

Our team of experienced and technically qualified personnel are highly customer oriented and have established ourselves as solutions providers with innovative ideas to ensure a high degree of customer satisfaction and retention

Our state of art manufacturing facilities include right blend of conventional and modern (CNC) machines, assembly stations and test rigs to meet international standards and is housed in a 18000 Sq Mts. facility with much more space for further expansion.

Orione products are proven, accepted and widely used in Mining , Construction & Infrastructure Companies, Process Plants , Power , Petro- chemicals, Shipyards, Railways, Heavy Engineering, , OEM, Aerospace, Research and Development .

We manufacture a varied range of Hydraulic Products which include Hydraulic Jacks for various application and customizable to customers Requirement.

- Hydraulic Cylinders of various types and sizes.
- Lock Bolt tools & Equipments for Mining & Railway sectors
- OEM Tools like Pin/Bush Removable

HYDRAULIC POWER PACK

- Designed robust with good aesthetics & are easy to maintain
- Efficient, leak-free valve blocks, hydraulic elements and electrical of reputed make to ensure trouble free operation



- Options: Hand lever / Solenoid
 Capacity 2 200 HP / Flow rate up to 400 LPM
- Pressure capacity upto 700 Bar

DOUBLE ACTING TELESCOPIC HYDRAULIC CYLINDER

- Orione Cylinders are precision engineered in design & construction for reliability and trouble free performance
- Cylinder tube St 52 /ASTM A103 machined & honed
- Piston rod C45 machined, ground & hard chrome plated to 50 microns layer thickness
- Gland bush of Phosphor Bronze to IS:28 ingot grade
- Seals: Polyurethane / glyd rings Double Acting Telescopic Cylinders 3 Stage with Both End Clevis Pressure 100 - 400 bar

HYDRAULIC FORMING PRESS

Precision machined to maintain alignment of the moving frames under operating loads



- Based on the type of press & application, guiding arrangements are provided
 Hydraulic and electrical elements of reputed make
- to ensure trouble free operation & productivity

This Picture is of a 800 Ton Forming $\ensuremath{\mathsf{Press}}$ with Hardened wear Plates

HYDRAULIC JACKS

 General application jacks Gland Nut designed to withstand dead end load Ideally suited for application requiring sustained load holding in Construction projects & heavy industries

The Picture shows a Hydraulic Jack with Threaded Ram with safety Lock Nut Capacity 10 - 400 ton | Stroke 150 mm | Max. Working Pressure 700 bar



TRACK PIN/BUSH REMOVING TOOL

- Removal & Installation of Track Link Pins & Bushes
- Maintenance of track chains in workshops & on sites
- Suitable for all brands of Earth moving equipment
- Hand pump / Power Pack Unit operated
- Sprocket puller optional for OTPP 100-350
- Guard for safe operation
- Case for safe storage
- Choice of toolings to suit range of track pins
- Frame Construction: Upto 100 ton Casting 200 ton Fabricated

HYDRAULIC LOCK BOLT TOOL

Hydraulic Lock Bolt Tool for Mining application, Lock Bolting Technique is Preferred for Vibratory Parts, Orione Make Lock Bolt Tools are manufactured from sizes of 3/8" to 1-3/8" along with suitable Hydraulic Power Pack with Max. Working Pressure of 700 Bar.

www.orionehydraulics.com



≫ P & G GEOHAZARD SOLUTIONS PVT. LTD.

WHO WE ARE?

Rapid infrastructure growth and demand of smooth connectivity in the mountainous region is leading to non-scientific cutting of slopes which is resulting in continuous landslides, rockfalls, debris flow and avalanches.

P&G Geohazard Solutions in collaboration with its foreign partners (Australia, Italy, Spain & Switzerland) is involved in providing cutting edge protection solutions against natural hazards for highways, tunnels, defence establishments, hydro power plants etc. The founder has the privilege of introducing the concept of green slope and green tunnel portal which significantly reduces the carbon footprint and cost of construction of these infrastructures. P&G Geohazard Solutions has in-house capabilities of survey, design, supply and installation of these protection systems according to EOTA (European Organization of Technical Approval) guidelines.

OUR STORY

- P&G Geohazard Solutions Pvt. Ltd. Is newly founded company based out of Gurgaon, NCR. The company aims to provide cutting edge geohazard solutions such as slope failures, landslides, rockfall, debris flow, avalanche etc.
- P&G Geohazard Solutions have vast experience in disaster mitigation solutions and Lidar Survey.

Some of the landmark projects in disaster mitigations which our director has executed successfully are as follows:

- Design, supply & execution of Slope stabilization system for approach road to North portal of Nashri-Chanani Tunnel, J&K.
- Protection of track road to Shri Mata Vaishno Devi Shrine at Katra, J&K.
- Design & supply of rockfall protection & slope stabilization system for western & ventilation portal at Z-Morh Tunnel, J&K.
- Design, supply & execution of rockfall protection & slope stabilization
 system for Kiratpur-NerChowk Expressway, Himachal Pradesh.
- Design, supply & execution of rockfall protection system for Khed-Sinnar Expressway, Maharashtra.

Flexible Rockfall Barrier P&G Geohazard is able to design, supply & install ETA (Euro pean Technical Approval) approved flexible rockfall barriers from 100 kJ to 5000 KJ



Flexible Slope Stabilization System P&G Geo-hazard has the ability of design, supply and execution of ETA

approved high strength low deformation slope stabilization system.

Rockfall Protection System P&G Geohazard designs and supplies ETA approved active and passive rockfall protection systems made out of high tensile steel wires.

With more than ten years of experience in the field of natural hazard mitigation P&G Geohazard has the ability to offer the most appropriate solutions without product constraints

Slope Protection – Anchored Wall for help to Protect Global Failure of Road.

www.pggeohazards.com







We would like to introduce ourselves as Solution Providers & Component Suppliers in Industrial Sector.

We serve our customers on a Pan-India level and always PARCOMM maintain inventory to meet our customer's requirements and emergencies.

We are an Authorized Distributor for below Brands & Products - Parker Hannifin

- Hydraulics: Gear, Piston and Vane Pumps, Gear Motors & High Torque Motors, All types Hydraulic Valves and Cylinders, Accumulators & Coolers, etc.
- Filtration: Hydraulic Filtration (Pressure Line, Return Line, Filtration Trolleys) & Industrial Air Filtration products (Gas Generators, Air Filters & Dryers).
- Hyd Fluid Control: Hydraulic Hoses (for various applications), Hose Fittings, Tubes (Steel & SS), Tube Fittings, Flanges, and Clamps.
- Pneumatics: Valves, FRLs, Push in Fittings, ISO Cylinders, PU & Nylon Tubes, etc.
- Fluid Control: Solenoid Valves and Coils for water, steam, and gaseous and cryogenic application.
- Instrumentation: All Stainless-Steel High-Pressure Fittings, Tubes and Valves.

ZF (Formerly Known as MICO)

Brakes and Braking System Components for Off-Highway Vehicles: Disc & Calliper Brakes, Brake Valves, Brake Pedals, Master & Slave Cylinders, etc.

Paccar Winch Division

Heavy Duty Winches: Lifting, Pulling, Towing & Recovery Winches.

Gear Pumps & Motors in Cast Iron and Aluminum for various applications. These come in single or upto 6 sections and have continuous pressure up to 310 Bar.



Variable Displacement Piston Pumps for mobile application with load sensing capabilities. These can go up to 320 Bar.

Fixed displacement Bent Axis Piston Pumps & Motors. Capacity ranges from 5 to 250 cc and pressure upto 450 Bar.

Mobile direction control valves with multiple sections. Comes in Hi-Boy and Low-Boy options and go up to 3500 PSI.

Hydraulics Filters and Elements.

High Pressure / Medium Pressure / Low Pressure Filters.

Filter Carts and Portable Filtration Systems.

Tank Top Filters and Tank Accessories.

Cartridge valves and coils.

www.parcommhydraulics.com



Since its establishment in 2005, Perfect Engineering Components (P) Ltd. has become one of India's leading manufacturers of conveyor rollers/idlers, pulleys, fabricated pulleys, and other components for the bulk handling industry. Today, the company specializes in providing high-quality and



long-lasting premium belt conveyor components that are designed to meet the demanding needs of all major bulk handling applications, such as mining, cement, steel, quarries, power plant installations, and more.

Perfect Engineering Components (P) Ltd. has developed a reputation as one of the most trusted brands in the industry, thanks to its close partnership with customers, OEMs, engineering companies, and end-users. The company's traditional values and openness to innovation have been critical to its longterm success.

The company's research departments are equipped with state-of-the-art test facilities where products are thoroughly examined under extreme conditions to ensure they meet the highest standards. Perfect Engineering Components (P) Ltd. continuously works on improving its product range, which is considered among the best in the market.

Perfect Engineering Components (P) Ltd.'s products improve the performance, safety, and reliability of systems, equipment, and machines within the bulk handling industry. Whatever your materials handling problem may be, the company has the expertise, experience, and products to meet your needs.

A heavy duty conveyor roller is a robust component used in conveyor systems, capable of supporting heavy loads and withstanding harsh environments. These rollers are commonly used in industries such as mining, construction, and manufacturing, where heavy materials are transported over long distances. Heavy duty conveyor rollers are made of durable materials such as steel, and are designed with sealed-for-life bearings that require minimal



maintenance. These rollers can handle high loads and are available in various diameters and lengths to fit different conveyor belt widths. Their rugged construction and ability to withstand extreme conditions make them ideal for heavy-duty applications.

A belt cleaning roller is an essential component of conveyor systems that is used to remove unwanted material, such as dirt, dust, and debris, from conveyor belts. It is typically positioned at the tail end of the conveyor belt and rotates to effectively scrape off any material that may have adhered to



the belt during its operation. Belt cleaning rollers come in a variety of designs, including rotary brush, scraper, and comb styles, each with unique features and benefits. Properly functioning belt cleaning rollers are critical for maintaining conveyor belt efficiency, reducing maintenance costs, and increasing overall productivity in industries such as mining, construction, and agriculture.

A heavy duty impact roller is a specialized type of conveyor roller designed to handle the impact and shock of heavy loads dropped onto conveyor belts. They are commonly used in industries such as mining, quarrying, and construction, where heavy materials are transported over long distances.



Heavy duty impact rollers are made of durable materials such as steel and rubber, and are designed with shock-absorbing features to protect the conveyor belt from damage. They are typically positioned at the loading point of the conveyor system and can handle impact loads of up to several tonnes. Their robust construction and ability to handle heavy loads make them ideal for high-demand applications.

A conveyor pulley is a critical component of conveyor systems used in the mining industry. These pulleys are used to transmit power from the drive unit to the conveyor belt, providing the necessary tension for the system to operate effectively. Conveyor pulleys are made of durable materials such as steel and are designed to withstand the high stresses and harsh conditions



found in mining operations. They come in various sizes and types, including head pulleys, tail pulleys, and snub pulleys, each with unique features and benefits. Properly functioning conveyor pulleys are essential for maintaining conveyor belt performance, reducing downtime, and increasing productivity in the mining industry.

www.pecplrollers.com



> PRABHU INDUSTRIAL UDYOG PVT. LTD.

The Company, Prabhu Industrial Udyog Pvt Ltd was incorporated in 1986 under Companies Act, 1956 having its Reg. Office & Factory at 1, Tarpan Ghat Road, Kolkata - 700 053.



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The manufacturing activities started with Flameproof & Non Flameproof low Tension & high-tension Switchgear upto 6.6KV whose applications are mainly in Coal Mines and Industries.

The present Directors are:

- MR. RAMJEELAL AGARWALA (MANAGING DIRECTOR)
- MR. ANAND KUMAR AGARWALA (DIRECTOR)
- MR. AYUSH AGARWALA (DIRECTOR)

MISSION

To be the leader in the industry in which we compete.

VISION

To introduce new products regularly, maintain quality products and providing services to customer till they are satisfied.

OBJECT

Development & manufacturing activities of NON- FLAME PROOF AND FLAME PROOF items namely:

- 1. NON- FLAME PROOF & FLAME PROOF STARTERS (HT AND LT)
- 2. NON-FLAME PROOF & FLAME PROOF GATE END BOX
- 3. FLAME PROOF DRILL PANEL
- 4. FLAME PROOF LIGHTING TRANSFORMER
- 5. NON FLAME PROOF & FLAMEPROOF AIR CIRCUIT BREAKER PANELS
- 6. FLP/NFLP Tran switch Units up to 6.6KV, 1000KVA , Unitised Sub Station up to 12KV.
- 7. FLP/NFLP VCB Panels up to 12KV, 1250A
- 8. Vacuum Contactor up to 7.2KV, 400A
- 9. NFLP VFD Panels, LT Switch Board Panel, LT Power Distribution Board Panel Etc.

All FLAME PROOF items are tested by Central Mining Research Institute, Dhanbad, DGMS approved and BIS marked.

Our major Customers are Coal India & its Subsidiaries, Public Sector Undertaking, Private Sector Unit and also OEM. We supply the materials directly to the followings:-

- BHARAT COOKING COAL LTD, DHANBAD
- CENTRAL COALFIELDS LTD, RANCHI
- EASTERN COALFIELD LTD, ASANSOL
- MAHANADI COALFIELDS LTD, ORISSA
- NORTH EASTERN COALFIELDS LIMITED, GUWAHATI
- SOUTH EASTERN COALFIELDS LIMITED
- SINGARENI COLLIERIES CO LTD, KOTHAGUDEM
- WESTERN COALFIELDS LIMITED, NAGPUR

With changes in technology in the nature of the business, one thing that is constant since inception is the quality of the materials and service to our customers which makes the company unique from its competitors.

A wholly owned family company, which has emerged in last 30 yrs as a significant player in the electrical/mining industry.

The FLP Transwitch Unit is a HT Switchgear product designed for safety and distribution of power to machines for varied applications in underground mining. The FLP Transwitch unit is designed for Voltage up to 6.6KV on the Primary side and upto 1140V on the secondary side.



The FLP Vacuum Circuit Breaker Panel has been developed for use in GAS group I. The purpose of this breaker panel is for breaking high current at high system voltage. The panel is fitted with various protections for safety of the machines.

The purpose of this breaker panel is for breaking high current at high system voltage. The panel is fitted with various protections for safety of the machines.

The FLP ACB fitted with MCCB has been developed for use in Gas

Group I. The ACB panel is so designed to offer high breaking capacity to protect low voltage application in high power circuits. This can be use in underground mines as Main Switch to distribute the 550V supply to different machineries.

The purpose of this GEB is for control and protection of underground machines like SDL, LHD, Shuttle cars. The outgoing of through a Plug & Socket.

With a history of quality excellence and experienced

Instrumentation, Petrochemical, Mining and General Engineering industries around the world since 1983.

www.prabhuelectricals.in



We have an integrated closed die forging plant with an installed capacity of 12,000 TPA with modern forging technology. The manufacturing facilities include pneumatic hammers, forging presses, in-house testing equipment, VMC/CNC equipped die shop, heat treatment and other finishing equipment. Die designs are made on CAD / CAE computer system. We have an ancillary machining facility having CNC lathe machines, VMC's, HMC's and Turn Mills.

PML has stood up to a standard and demonstrated the ability to deliver the products in the lowest possible lead time all over the world. We are specialized in low volume high mix products, which gives significant flexibility to the customers. For faster delivery to our overseas clients, we keep Min-Max stock in various worldwide locations, based on mutually agreed terms. This permits them to achieve speed of delivery.

We export 60% of products to USA, Germany, France, UK, Italy, Mexico, Argentina, Canada, Sweden, Denmark, UAE, New Zealand, Singapore, Romania, and Japan and is well-known for quality products. PML has been successful in becoming a strategic & preferred supplier of quality forgings by working with customers to understand their requirements.

We are strategic and preferred supplier to many MNC's for several reasons. PML serves the niche general engineering industry worldwide. Unlike other forging companies, we do not look for larger batch quantities. We have maintained very good ontime delivery, despite the large mix of parts and worldwide support to customers.

Our Quality Approvals - ISO 9001:2015, ISO 45001:2018, ISO 14001:2015, PED 2014/68/EU

AD2000-Merkblatt W0, IBR Well Known Forge Shop, EIL, MARINE, NORSOK M630, AS9100D

- Stainless Steel Pump Casings for High-Speed Pumps. Forged and Machined.
- Forged, Machined Valve Bonnets & Sub Assembly in Carbon, Alloy and Stainless Steel.
- Flanged Body Forgings in Carbon, Alloy & Stainless Steel.
- Stainless Steel Valve Cone Forged & Machined.
- Valve Body Forging.
- Forged & Machined Diaphragm Valve Body in Stainless Steel.
- Forged Manifolds.
- Forged & Machined Flanges in Carbon Steel, Alloy Steel, Stainless Steel, Duplex, Super Duplex and Nickel Alloys Steels.
- Valve Seat Forging in AISI 420.
- Forged & Machined Pump Impellers.
- Railway Draft Gear Components Forgings.

www.pradeepmetals.com





PRADEEP METALS LTD.

> PRECISION BEARINGS PVT. LTD.

We ZNL Bearings having manufacturing facility at Ahmedabad in Gujarat state of India. Our company established in the year 1996 having state of the art

manufacturing facility. We have decade long 25years experience in Design development and manufacturing wide range of bearings in various sectors.

Based on the ever-changing demands & client's request across globe 45+ countries we have established our manufacturing practices with the highest quality standards.

We have been awarded by IATF 16949:2016, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 and many more certificates. Our company believes that quality matching with health, safety, and environment is equally important. It keeps on upgrading the standardization too.

We are proud to serve our services to great Indian Defence, Indian Railways and other PSU & Private sectors like BHEL, BEML, Construction & Mining, Power Transmission, Material Handling & Agricultural.

We ZNL bearings believe in development of new products having modern R&D wing. Our sophisticated technology set up and superior engineering solutions succeed to provide best quality products resulting in ultimate customer satisfaction. Abide the bearings manufacturing, we also provide solution for special-purpose application. Our round-the-clock 24 X 7 client service put as unique bench mark for us.

Features



- Heavy Misalignment capacity
- Heavy Axial and Radial load-carrying Capacity
- Also available in Sealed & E design Version
- Range 20mm 400 mm bore

Features

ISO Design



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Apex Matching Heavy Axial and Radial load carrying Capacity

Interchangeable

- Silent running
- Inch / Metric series
- Range 10mm 360 mm bore

Features

- Heavy Radial load-carrying capacity
- Silent running
- N / NU / NJ / NUP/ SL/ H Design based on the application
- Cage: Brass / Steel / Polyamide
- Roller grouping within 3 µ
- Range 10mm- 360mm bore

Features

- Heavy Radial load-carrying capacity
- Silent running
- Polyamide & Steel cage & Brass cage
- Z / ZZ / RS / 2RS variants available
- Range 10 mm- 300 mm bore



www.znlbearings.com

> PREMIUM TRANSMISSION PVT. LTD.

PREMIUM TRANSMISSION with its German subsidiary PREMIUM STEPHAN provides high quality, precision engineered power transmission



solutions and products to the global engineering industry, catering to the needs of customers across the globe. These include Worm Gearbox, Helical Gearbox, Planetary Gearbox, Geared Motors, Fluid Coupling (both Constant and Variable Speed) and Lift Machines.

For decades the company has been serving its customers with high quality power transmission solutions, precision-engineered for diverse application across industries worldwide. Our products are the result of German & Indian design expertise backed up by state of art manufacturing and testing facilities across India and Germany.

PREMIUM TRANSMISSION with its Indian subsidiary PREMIUM MOTION focusses on designing and manufacturing of specialty motion enablers & control components/systems used in renewable energy industries.

We have service centers spread globally under the name of PREMIUM CARE, which is a one stop destination for Servicing and Repair of gearboxes, geared motors, lift machine, fluid coupling of any make.

"We are geared up to deliver best in class solutions that set new standards in performance and reliability."

HELICAL GEARBOX

Case hardened and profile ground steel gear with inclined tooth to transmit the torque between parallel/right angle shafts with minimum noise.

- Range: Power range up to 8765 kW
- Reduction Ratio range upto max ratio 657:1
- Size : From 80mm to 1150mm centre diameter
- Type: Helical and Bevel Helical in Horizontal and Vertical position
- Application: Slurry Mixer (Agitator), Conveyor, Barring drive, Stackerreclaimer, etc.

GEARED MOTORS

World - class quality based on our latest German technology. High power to weight ratio facilitating easy handling. Being modular in design, can be used with any other standard motor.

- Range: Power range from 0.12 kW to 90 kW.
- Size: From 25 mm to 120 mm output shaft diameter
- Torque: Up to 25000 Nm.
- Type: Bevel Helical, Parallel Shaft and Coaxial Shaft.
- Application: Light duty Conveyor, Slurry Mixer (Agitator), Inching Drive, etc.

CONSTANT SPEED FLUID COUPLINGS

Transmission of power through hydro kinetic energy and in the stream of oil/water between the impeller & runner of the coupling. Fixed quantity of oil/water is used in the working circuit.

- Range: Range up to 1820 kW
- Sizes: From 204mm to 1150mm circuit diameter
- Type: DFC, DFP, PSS, HTC, AFC, SFC, SDFC, WDFC, SFU, STC
- Application: Baring Drive, Crusher, Conveyors, Stacker- Reclaimer, etc.

VARIABLE FLUID COUPLINGS

Transmission of power through hydro kinetic energy and in the stream of oil between the impeller & runner of the coupling. Quantity of oil is varied in the working circuit as per the speed requirement.

- Range: Range up to 11000 kW
- Sizes: From 370 mm to 1320mm circuit diameter.
- Type: PST & PSV
- Application: Baring Drive, Crusher, Conveyors, Stacker-Reclaimer, etc.

PLANETARY GEARBOX

Compact Planetary Gearbox series with high power to weight ratio. Modular construction with high interchangeability of parts and bearings. Rugged design with longer service life and ease of maintenance.





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- Size: Torque range up to 1kNm to 6000kNm
- Reduction ratio range 3.89:1 to 3164:1
- Application: Conveyor, Stacker Reclaimer, Slew Drive,

ALTRA WORM GEARBOX

Die-cast Aluminium case, worm gear units with electric motors/mechanical variator in double stage suitable for power ratio upto 15 kW.

- Range: Power range from 0.06 kW up to 7.5 kW Ratio range 7.5 :1 to 4900:1 •
- Sizes: Centre distance from 30mm up to 150mm
- Torque: Up to 1600 Nm
- Type: Foot and Flange Mounted Versions
- Application: Light Duty Conveyor, Inching Drive, etc.

POWER PACK

Preferably engineered compact drive solutions from a single source comprising motor, fluid coupling, main gearbox, auxiliary geared motor, brakes, clutch, and base frame.

Application: Conveyor, Barring Drive, Stacker Reclaimer. etc.

www.premium-transmission.com



> PRIMUS SAM PVT. LTD.

PRIM Primus SAM Private Limited a Startup India is Premier TRUST Monitoring Agency in Entire Coal value chain, founded in Nov'2020, an ISO 45001:2018 & 9001:2015 certified. We are technology-based solution provider for the Mining, Power & Steel industry. Our platform customised to meet specific requirements of each mines delivering tech enable solutions across all aspects of mining, from aerial/digital mapping, customised GPS monitoring, Quality & Quantity Monitoring, and many more. Our team is headed and guided by Experts from the Industry having an average experience upwards of 4 decades. We have team of more than 200+ with 110+ Engineers of Core Mining, Mechanical, Electrical disciplines.

Our first step towards establish the dream Project "Scientific Center of Excellence" A coal analytical lab "Primus Lab" established and accredited by NABL at Nagpur and Primus is committed to establish four more labs in this calendar year- By August'23 end Bilaspur (CG) and Dhanbad (JH) will be operational & By December'23 Gandhi Dham and Vizag will be operational. Our Laborartory meets global standard such as ASTM, ISO & BIS and is capable to carry out sampling, sample preparation and analysis as per any of the methods mentioned (a) FSA (b) IS 436:1964 or (c) as desired by customer.

We are Knowledge partner to MAHAPREIT and we maintain corporate membership with CPSI (Coal Preparation Society of India) & SOLAR IMPULSE Foundation. We are associates to Jawaharlal Nehru Aluminium Research Development and Design Centre. Our esteemed clientele: MSMC Ltd., MAHAGENCO, CCO, CCI, CMDC and many mores.

CHEMICAL LABORATORY

Minerals Analysis & Testing facilities

- Total Moisture
- Inherent Moisture
- **Equilibrated Moisture**
- Ash
- Volatile Matter
- Fix Carbon
- Gross Calorific Value ٠
- Sulphur

Sample Preparations facilities

- Jaw Crusher (3.35 mm to 12.5 mm) •
- Pulveriser (212 microns to 250 microns)

OUR SERVICES & SECTORS

Our Services

- Third Party Monitoring & surveillance
- Pre-feasibility to DPR
- Technical, Financial Appraisal
- PMC & Organizational Developments
- Independent Engineers

Our Sectors

- Mining and Mineral Beneficiation
- Solid Fuel Analysis and Testing
- Geological & Geophysical

Plant/Factory/Industry/Automation

Operation and Maintenance

GPS SYSTEM

- · Live tracking with customised GPS or Camera integration or Both
- Bus, trucks, haulers and other mobile equipments.
- Boost performance, cut costs

CUSTOMISED DRONES FOR INDUSTRY SPECIFIC SOLUTIONS

- Data Acquisition Services
- Post Data Acquisition Analytics
- Technology Transfer by Interactive Sessions
- Geotechnical Investigation



Designing and Manufacturing Services

Sector we cater through Drone : Mines, Construction, Defence, Energy and Utility...

www.primuslab.in



RAGHU DIAMONDS DRILLTECH

"Raghu Diamond is a leading manufacturer and exporter of diamond core drilling bits, Coring and Non Coring PDC bits, and accessories. From our modest beginning our name" "RAGHU DIAMONDS" has been synonymous with high-quality diamond products. The company was established in the year 2006 & with our commitment to



1990 - 1990 1991 - 1995

research and development, we are now catering to the needs of various industries like Mineral Exploration, Geological Survey, Mining Industries etc. We at Raghu Diamonds can produce a variety of bits meeting DGDMA standards. Over the years Raghu Diamonds has been focusing on developing new technical and technological solutions. We had supplied all the support in terms of customer service and continuous and innovative business proposals.

www.raghudiamonds.com



≫ REACTORE



Reactore is a rapidly growing, innovative software product company providing bespoke software digitalisation solutions for mining and associated industries across the globe, since 2013. Reactore's ISO 9001:2015 certified solutions offer real-time tracking, management, and optimisation of all processes, to improve productivity, resource utilisation, output and the like. Reactore innovation has been designed with miners to guarantee adaptable, simple-touse software for improvement of tasks, decrease in expenses and mitigation of









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risks. Reactore's digitalisation solution, MineOne® has been implemented at multiple mining sites since 2016 and is presently being sold and supported by the Reactore Group in Southern Africa, India and Australia as well as by a global partner affiliate network.

Utilising the success of the MineOne®, Reactore recently rolled out the lowcode IIoT studio, Devum®, to assist organisations in creating versatile, integrated applications across any business domain. Reactore is consistently creating and upgrading its solutions and offers various professional services to assist enterprises to digitally transform their operations. Clients can benefit from these solutions and stay competitive in today's digital economy. Following are some of the key services that we offer:

- Enterprise App Building
- Digitalisation Roadmaps •
- **3D Digital Twins**
- System Integrations
- Solution Design

MINEONE® | www.Reactore.com/MineOne

With mining research at its core, MineOne® is a modular pit-to-port enterprise-grade mining software digitalisation solution to improve productivity and safety. Reactore has a near decade's experience in transforming mines across the world. MineOne® has helped businesses



improve production by ~15%, efficiency by ~18%, data accuracy by ~99.9%, legal compliance by ~30%; reduced downtime by ~27%; and increased profits, on average, by ~16%.

DEVUM® | www.Devum.com

Devum® empowers non-software developers to REACT BRE rapidly build enterprise-grade software solutions on their own. Devum is a one-stop low-code platform that empowers businesses to build, deploy and manage their own enterprise-grade web and mobile applications through a graphical user interface



(GUI), but with all the power and flexibility you would expect from a professionally developed, or off the shelf business application. Integrated software solutions are often the glue that bind a digital transformation initiative together. Devum® provides all the blocks for a bespoke digital transformation solution to generate tangible ROI.

www.reactore.com



REGAL REXNORD CORPORATION

Regal Rexnord is a globally recognized leader in providing innovative motion control and power Kexno transmission solutions. With a rich heritage spanning several decades, we have established ourselves as a trusted partner for industries worldwide.

At Regal Rexnord, we are committed to delivering exceptional products and services that optimize the performance and reliability of our customers' operations. Our extensive portfolio includes a wide range of products, such as bearings, couplings, gears, drives, and conveying solutions, among others. We leverage our deep industry knowledge, advanced engineering capabilities, and cutting-edge technologies to design and manufacture high-quality solutions that meet the most demanding requirements.

With a global presence and a strong focus on customer collaboration, we work closely with our clients to understand their unique challenges and goals. Our dedicated team of experts provides customized solutions tailored to specific industry needs, ensuring seamless integration and maximum efficiency.

In addition to our comprehensive product offerings, we are committed to continuous innovation and improvement. We invest heavily in research and development, exploring new technologies and industry trends to stay at the forefront of our field. This enables us to provide our customers with state-ofthe-art solutions that drive their success.

At Regal Rexnord, we are driven by a customer-centric approach and a relentless pursuit of excellence. We are dedicated to building long-lasting partnerships with our clients, offering exceptional value, reliability, and support. With our unwavering commitment to quality and innovation, we strive to be the preferred choice for motion control and power transmission solutions globally.

Our business purpose is to create a better tomorrow by energy-efficiently converting power into motion. For us, this means creating innovative solutions while focused on both customer needs and our commitment to sustainability

UNYIELDING STOPPING POWER FOR THE TOUGHEST STEEL MILL **OPERATIONS**

The SDB brakes incorporates finely calibrated safety mechanisms. When employed in hoisting and traveling drives, these brakes, which engage through spring application, effectively secure substantial loads in a secure manner, while ensuring the rotary drives remain in their designated positions. Notably, these brakes facilitate convenient adjustment of braking torque, accompanied by precise scale control. Additionally, the SDB brakes can be customized with various available options as per specific requirements and be made Industry 4.0 ready.

Applications

- Conveyers
- Cranes & Hoists
- Winches
- Coilers
- Roughing & Temper Mills
- Annealing & Galvanizing Lines .
- Accumulators
- Cold Forming

Features

- AUTO WEAR COMPENSATOR Automatically Compensates for Liner Wear ensuring Repeatability in Break Performance
- Controlled Brake release and application possible by Ascent and Descent Valve as optional feature.
- Eases maintenance with a versatile manual brake release lever that can be operated in both directions and flipped to accommodate site conditions.
- Contact type sensor to monitor Brake Engage / Release Condition
- Liner With Wear Indicator (LWI) To Monitor Friction Material Condition on request.
- Thruster body can be oriented +/- 90° With respect to pivot.
- Synchronised left Arm & Right arm movement precisely symmetric
- Facilitates Easy Installation
- Improves Brake Performance

SVENDBORG BRAKES SOBO® IQ SOFT BRAKING CONTROLS

Svendborg Brakes' SOBO® iQ Soft Braking Controls are an innovative solution for overland conveyors in the mining and aggregate industries. These advanced braking controls, developed by us, ensures smooth and controlled deceleration of conveyors, preventing costly damage and reducing downtime. The SOBO® iQ system incorporates advanced algorithms and intelligent

features to optimize braking performance, allowing operators to precisely manage the stopping process. With its user-friendly interface and real-time diagnostics, the SOBO® iQ provides enhanced safety and reliability. This cutting-edge technology from Svendborg Brakes revolutionizes braking controls for overland conveyors, improving operational efficiency and minimizing maintenance requirements.



INDUSTRIAL CLUTCH MODEL LK CLUTCHES

Model LK Clutches are designed and specifically tailored for the demanding conditions of the mining industry. These robust and reliable clutches offer exceptional performance and durability for shovels and draglines. With a compact design and high torque capacity, the LK Clutches ensure efficient power transmission and smooth operation. Their advanced friction material and heat dissipation capabilities make them ideal for heavy-duty applications. Additionally,



the LK Clutches feature easy installation, maintenance, and inspection, reducing downtime and maximizing productivity. With their superior engineering and rugged construction, the Model LK Clutches are the go-to choice for mining operations, delivering unmatched performance and reliability.

SVENDBORG BRAKES BSFK 500 SERIES BRAKE CALIPER

Model LK Clutches are specifically designed to excel in the challenging conditions of the mining industry. These clutches offer exceptional performance and durability for



shovels and draglines. With a compact design and high torque capacity, they ensure efficient power transmission and smooth operation. The Model LK Clutches feature advanced friction material and superior heat dissipation capabilities, making them ideal for heavy-duty applications. Their easy installation, maintenance, and inspection procedures reduce downtime, maximizing productivity. With their robust construction and reliable performance, Model LK Clutches are the preferred choice for mining operations, delivering unmatched reliability and efficiency. Visit the Altra Motion website to learn more about these high-quality clutches.

www.regalrexnord.com



> REPOS ENERGY INDIA PVT. LTD.

Founded in 2017, Repos Energy has a vision to help the world move towards a carbon-neutral future by bridging the gap between the supply and demand of clean energy, using the latest tech-enabled solutions.

Built on the core values of being relentless and positive, Repos Energy aims to set up an E-Commerce platform for energy, bringing all forms of energy, be it liquid, gaseous, or electric, onto a single platform and delivering it to end consumers.

Over the last five years, Repos Energy has successfully established an ecosystem of services and products that has transformed energy distribution in India. Today, Repos Energy provides doorstep fuel delivery operations in over 220 cities across India through its 2000+ partners.

So far, Repos Energy has distributed more than 10 crore liters of fuel through its platform, resulting in the saving of 29 million KGs of carbon emissions.

For its innovative solutions in mobile energy distribution (Industry 4.0), Repos Energy was conferred with the National Startup Award 2021 by Hon. Prime Minister of India, Shri Narendra Modiji.

Its mission is to reach every corner of the world and provide doorstep energy delivery to end consumers with utmost efficiency and ease.

DATUM is an easy-to-use smart storage and fuel management tool that provides businesses accurate tracking of all fuel-related activities, including on-site consumption, fuel refill dispenses, and fuel transactions. This allows businesses to maintain complete control over their fuel usage, while also making informed business decisions to optimize their operations with confidence.



Repos Petrol Pump- a petrol pump on wheels that delivers diesel at your doorstep, anytime, anywhere, just at some clicks on your phone.

Repos App provides businesses with a comprehensive view of their sales and credit data, as well as real-time monitoring and consumption data.

- Access overall sales and credit data for suppliers with just one click.
- The customer dashboard provides immediate callsto-action on credit payments and data.
- Monitor fuel consumption in real-time with Datum monitoring.

www.reposenergy.com



REVATHI EQUIPMENT LTD.



Revathi Equipment Ltd (REL), with its remarkable

journey in the Mining Industry since 1977, is a testament REVATH EQUIPMENT LIMITED to its unwavering commitment towards innovation, quality, and customer satisfaction. With a diverse product portfolio, customer centric approach, and a focus on sustainability, REL continues to shape the future of Mining industries across the globe with its cutting-edge solutions.

With a wide range of Blast Hole Drill Rigs, REL drill rigs have earned a reputation for dependability and productivity with exclusive operator safety features and Ergonomics. REL drill rigs are renowned for their efficiency, precision, and adaptability, making them indispensable in the mining and quarrying sectors.

The drill rigs are built to withstand demanding environments while delivering exceptional performance and fuel efficiency.

We believe in working closely with our clients to achieve optimum safe and cost - effective performance in drilling.

Whatever your requirement be - Standard or Custom, Simple or Rugged, advanced and automated you can always depend on REL.

REL- C615 D

- Surface DTH Drill Rig I Hole Ø 3.5"-6"
- Best in class Maneuverability and Track oscillation feature that offers OPTIMUM GROUND CONTACT in rough and uneven terrain, along with providing better reach for drilling in critical places



REL- C625 D

- Surface DTH Drill Rig I Hole Ø 4.5"- Ø 8"
- Avails PRESPLITTING capability, Offering- Increased Productivity, Better Maneuverability and Shorter Setup Time along with faster & Efficient Drilling employing a variety of drilling angles.



REL-C650 D

- Rotary/DTH Drill Rig | Ø 6 ¼" Ø 9"/Ø 5 Ø 6 ¾"
- The best drilling companion for mining requirements availing Ease of Operations and maintenance along with Lower Operating Cost and Ultimate Performance

REL- C750 D/E

- Rotary Drill Rig Hole Ø9" Ø11"
- An Authentic and Reliable Drilling Partner with Proven Productivity and Less Operating cost.
- Available in Electric Option

REL- C850 D/E

- Rotary Drill Rig Hole Ø 11 " Ø 13 ¾ "
- A giant from REL that is suitable for large mines with Maximum Productivity Drilling requirements, even in the challenging conditions withstanding the adversities.
- Available in Electric Option

REL C600 D

- HoleØ4"-Ø6"
- A compact pedestal drill rig with UNMATCHED PERFORMANCE achieving economical benefits and lower maintenance!

www.reldrill.com



≫ RIMCO

RIMCO Situated in Hyderabad - India. we are into mining equipment and its parts imports and trading. we provide the Best quality products to our customers.



Rimco has highly skilled and smart engineers and its products that meet the highest standards. The company has a long history of innovation and is always looking for new ways to improve its products.

WE REPRESENT IN INDIA

- EICKHOFF BERGBAUTECHNIK GmbH Germany Continuous Miners & Longwall Shearer.
- BAUGHAN GROUP USA PHILLIPS MACHINERY Shuttle Cars & Battery Haulers, etc.,
- ONTRAK Engineering Australila Feeder Breakers & Other Mining Equipments.

All the Equipments we deal with are DGMS Certified along with other International Certifications to work in Indian UG Mines.

Our sales and service executives are strategically located close to our Customer, which enable us to provide the best of our services always. Our people are best trained and have the requisite technical competencies in their respective roles.



> RINGFEDER POWER TRANSMISSION INDIA PVT. LTD.

RINGFEDER Power Transmission is the global market leader in the niche markets of drive technology and is well regarded for its customer-specific, application-oriented solutions that ensure excellent and failure-free operation for its clients. We offer locking devices, couplings, bearing housings and damping technology for OEMs but also for the final customer under our strong brand name RINGFEDER.

We not only always provide our ambitious customers with competent advice based on almost 100 years of experience and expertise, but also realize need-based, application-oriented solutions with them that ensure safe, failure-free and economic machine and plant operation – with our aspiration to be Partner for Performance.

RINGFEDER® Locking Assemblies are friction-locked shaft-hub connections manufactured to the highest quality standards. They are suitable for the precise fastening of all types of hubs, e.g., toothed gears, running wheels and chain sprockets, levers, cam discs, belt and brake discs, slip-on gears, couplings, or flanges, on shafts and axles. Keyless RINGFEDER® Locking Assemblies are the superior alternative to



conventional shrink-fits, wedge, keyway, or polygonal connections and offer outstanding concentricity and resistance to alternating torsion. Our locking assemblies are available to users in various standard designs and sizes as well as customised special solutions.

RINGFEDER® Shrink Discs are flange-shaped, friction-locked shaft-hub connections and the more powerful and reliable alternative to conventional shrink fits, wedge, keyway, or polygonal connections. RINGFEDER® Shrink Discs also convince through complete freedom from wear and maintenance, easy assembly and dismantling as well as outstanding



resistance to alternating torsion and concentricity properties. Depending on

customer-specific requirements, our shrink discs are available in proven standard and specially developed special variants, in two- and three-part designs as well as in stainless steel. In addition to torque and bending loads, axial and radial loads can also be transmitted.

RINGFEDER® Friction Springs are indispensable safety components in all technology and industry sectors where suddenly occurring forces have to be taken up and kinetic energy absorbed, or where damping systems are required with relatively compact dimensions while also being able to sustain enormous forces. They consist of precisely manufactured outer



and inner rings which are assembled to complete spring columns according to the individual requirements of the user. These are 100 % tested and loaded several times before delivery, which guarantees absolute functional reliability – whether as proven standard or highly specific custom-made designs.

High-strength Elastomer Jaw Couplings of the proven RINGFEDER® TNB series – once TSCHAN® TNB – convince globally in the most demanding heavy-duty applications by superior durability and functionality – for maximum operational reliability of the machines and plants of their users. Accordingly, they are preferably used in steel, rolling mill and cement plants, in mining and construction machinery. RINGFEDER®



TNB heavy duty couplings can be used in any direction of rotation and installation position and are available to users in a wide range of standard and special variants thanks to their modular design.

The enormously powerful and resilient Elastomer Jaw Couplings of the RINGFEDER® TNS series – formerly known as TSCHAN® TNS – are the preferred choice of leading plant manufacturers and operators, especially in the field of highly demanding heavy-duty applications. They compensate for angular, radial, and axial shaft misalignment within defined ranges.



Elastomer Couplings of the RINGFEDER® TNS series, manufactured to the highest quality standards, are extremely service-friendly, can be plugged axially and are applicable in any installation position and direction of rotation. They are available to customers in a wide variety of proven standard and individual special designs.

The versatile and flexible RINGFEDER® Flange Couplings of the TNF series are used to reliably establish a backlash-free connection between two shafts by means of frictional locking. They are the more efficient and economical alternative to conventional press fits. RINGFEDER® Flange Couplings convince by high concentricity and the



admissibility of large shaft tolerances. In addition to the highest torques, they also transmit occurring bending moments as well as axial and radial forces precisely and wear-free. Typical applications include gearbox, engine, and plant construction as well as e.g., belt drives used in mining.

www.ringfeder.com



RINGSPANN POWER TRANSMISSION INDIA PVT. LTD.

RINGSPANN Power Transmission India Pvt. Ltd. **RINGSPANN**[®] is a 100% subsidiary of RINGSPANN GmbH,

founded in 2011. RINGSPANN is the market leader for Power Transmission Products in India with a strong sales & dealer network.

Our Major Products & Services include Freewheel as Backstop & Clutch, Industrial Brakes of various design, Locking Elements, different types of couplings & Retrofit and Solution selling services.

With the motto of "YOUR BENEFIT IS OUR MOTIVATION", we continuously strive to offer a wide range of our Products and Solutions as per our customer needs.

Customer Relationship, Products & Solutions, Training, Wide Assembly range, Quality, Pre & after sales service are the driving force of our success. With our strong Sales, Technical Support and Service team we are one of the strongest and preferred brand for Power Transmission Products in the Indian market.

To achieve this, we keep increasing our direct sales & service team along with

appointing new Business Associates at various strategic locations to be nearer to our customers. Various in-house and on-site training are regularly conducted on Products & Maintenance of our products. RINGSPANN India has developed local manufacturing partners for special and customized solutions for certain product segments.

Our inventory levels continuously capture our customers' frequent requirements for faster on time deliveries & emergency breakdown response time.

RINGSPANN India caters to the customers in India, Bangladesh & Nepal.

Rail Clamps- Fail safe brakes with integrated Hydraulic Power pack for protecting the equipment's from damages due to Storm.

Electrohydraulic Thruster Disc and Drum brakes with automatic wear adjustment feature to ensure reliable performance.

Low-speed backstop for protection of the conveyor system from sudden high back torque from load due to the failure of drive system & additionally to ensure Human Safety.

Clutch - Over running clutch with Torque limiting function for automatic engagement and disengagement of drive system of a multiple drive conveyor & to optimise the design of drive system.

Torque limiter - Conveyor Pulley Locking elements, True-line flange couplings for compact & easy dismantling of the drive system and Torque limiters as mechanical overload protection devices.

Retrofit & Solution Selling services - Our ONE STOP SOLUTION for Power transmission products and in house expertise can offer to End Users services as per their needs.

www.ringspann-india.com

> ROCSCIENCE INC

Founded in 1996, Rocscience is a global leader in developing innovative 2D & 3D software for civil, mining, and geotechnical engineers. Since inception, Rocscience has been a company focused on bridging the gaps in analysis, design, and visualization tools for the mining and civil engineering industries. Born as a spin-off company from the University of Toronto, our software development combines innovation and research, allowing us to develop cutting-edge software solutions that work for you today and is evolving constantly to meet your needs for tomorrow.

Our motto "Geotechnical tools, inspired by you" means we are continuously listening to your specific geotechnical challenges so that we can build tools to help you overcome them. Whether you're focused on slope stability, excavation design, or foundation analysis, our comprehensive suite of 18 programs means that no matter what your needs are, we have a software solution for your projects.

Slide2

2D Limit Equilibrium Analysis for Slopes.

Slide3

3D Limit Equilibrium Analysis for Slopes.

RS2

2D Finite Element Analysis.

RS3

3D Finite Element Analysis.

Settle3

3D Soil Settlement & Consolidation Analysis.

RSPile

3D Pile Analysis.

FX3

3D Stress Analysis for Underground Excavations.

RocFall2

2D Statistical Analysis of Slopes at Risk of Rockfalls.

3D Statistical Analysis of Slopes at Risk of

RocFall3 Rockfalls

Dips Graphical and Statistical Analysis of Orientation Data.

SWedge

Surface Wedge Stability Analysis.

UnWedge

Underground Wedge Stability Analysis CPillar

Crown Pillar Stability Analysis.

RSData

Strength & Stress Analysis of Rock and Soil Materials.

RocPlane

Planar Wedge Analysis for Slopes.

RocTopple

RocSupport

Support Estimation using Ground Reaction Curves.

RSLoa

Web-based Borehole Log Management.

www.rocscience.com









ROYALEO

FUTURISTICS



ROYALEO FUTURISTICS

Royaleo Futuristics is an organization without boundaries - growing, and challenging. From the

vehicles running in Mining sites, Manufacturing units, Warehouses, construction sites to machines operating in ports, we strive to deliver unparalleled quality through our customized value added, Safer and innovative solutions. Continual improvement in our product and service portfolio along with zeal to cater value added products to customers has been our motto. This helps us put out foot mark across industrial domains.

India is a growing economy and will scale vertically. This economy has a lot to offer for the industry by their investment in various sectors such as Roads, Ports, Mining, Agriculture, Metro, Real estate, Power, Railways, Manufacturing Hubs, etc. Government has announced their plans for investing more in infrastructure projects. We see good investments in various industries and further positive business for the stationary and mobile equipment industry. Quality customer service is the prime motto of our company. Being a client centric company, we have channelized all our resources to offer utmost level of satisfaction to the clients through our qualitative and timely service. With these kinds of business policies, we have earned a reputation of being a leading supplier of industrial safety equipment in the market. With constant efforts on improvement in terms of policies, products and services, we let our customers speak for our performance. A long-lasting business relationship with clients has been a driving force for our performance.

PROXIMITY WARNING SYSTEM (COLLISION AVOIDANCE SYSTEM)

Commercial vehicles in mining, construction, and manufacturing area are big or even large Vehicle Mobility Large vehicles with large blind zone,

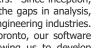






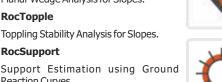






rocscience







especially when the drivers' seats are in high level. In harsh environment, such as thick dust or darkness, it's more dangerous.

Proximity Warning System (Collision Avoidance System) is a safety system designed to warn, alert, or assist drivers to avoid imminent collisions and reduce the risk of incidents

REAR VIEW CAMERA SYSTEM

Vehicle reversing cameras not only save money by reducing minor accidents, they also save lives by giving drivers increased visibility behind their vehicles. Reverse cameras can help you park more quickly and safely.

DRIVER FATIGUE MONITORING SYSTEM

In a single day, 150,000 drivers fall asleep on the road, and at least one crash occurs due to driver fatigue every 15 seconds. Driver fatigue system is a safety technology that can prevent accidents that are caused by drivers who fell asleep while driving. Driver fatigue will immediately send an alarm signal to remind the driver

INTEGRATED CAMERA SYSTEM

Integrated Camera System is New- age Technology which helps to alert the operator about any human and object behind the vehicle in blind zone. It uses AHD camera and display system with proximity warning sensor jointly

KILL ZONE RED LIGHT

Mining Vehicle are heavy and have a large turning radius and can run over the feet of people who are standing too close to the machine. Having a projected light on the floor will remind them to stand outside the perimeter and avoid getting crushed by machine in operation.

www.royaleo.in



➤ SACHIN INDUSTRIES LTD.

Sachin industries limited are an established and a reputed name amongst the polypropylene filter press manufacturing Mgr. of Glass Lined Reactors & Filter Presses company in India as well as abroad. The company was established in 1982 in Ahmedabad, Gujarat and now become a one of the global leaders in solid -

liquid filtration & the separation industry. Our products – Filter press, Filter plates & accessories are being manufactured with world-wide updated technology to give outstanding performance & desired result in filtration system. With an emphasis on quality, we also possess ISO 9001:2015 Lloyd's Registered Quality Assurance (LRQA) company

certificate. We manufactured fully automatic SCADA based Auto cloth washing type filter presses, Membrane filter presses, Hydraulic filter presses, Shifter & shaker type filter presses adding to that we manufacture Recessed plates, Membrane Plates, CGR(Caulked & Gasketted Recess plate), Metalic Plates, Plate & frame type plates size ranges from 305mm x 305mm to 2000mm x 2000mm.

All these are manufactured by us in-house.

AUTO CLOTH CLEANING MECHANISM:

- Auto cloth cleaning mechanism is the advance technology to wash the cloth in place, which helps in productivity by reducing cleaning time as well as increase the life cycle of the cloth.
- The entire system along with pump, motor, valve, tank & associated accessories are supplied with equipment to provide a plug & play kind of solution.

PLC BASED AUTO SYSTEM

In recent years, mode of operating the filter presses has changed to automated systems.

We provide fully automatic filter presses wherein all the sub-components are interlocked & pre-programmed in PLC and controlled though PLC operated system via MHI or SCADA work station. This helps in ensuring the cycle time as there is no dependency on operators.

AUTO PLATE SHIFTING TYPE SEMI-AUTOMATIC FILTER PRESS

In this type of filter presses, shifting of the plates are done automatically by shifter mechanism.

FILTER PLATES

- Filter plate is the essential element of the filter press as this is the where filter cloth is fixed and real filtration process happens. We manufacture all the filter plates in-house with ICM technology from virgin polypropylene HP/CP compositions.
- All the plates are suitable for high pressure (up to 25 bar) operation.
- Size ranges from 305mm x 305mm to 2000mm x 2000mm

MEMBRANE PLATE

Membrane plate look like conventional plate but it has a diaphragm which flexes & compress the cake formed inside the chamber.

CGR – CAULKED & GASKETED RECESSED PLATE

CGR plate made of polypropylene has a special piped surface to protect the filter cloth. These types of plates are mainly used in application of leak-free operation.

www.sachininternational.com



ALC: NO.

SAHARSH ENTERPRISES

We, at SAHARSH, are pioneers and innovative manufacturers of 'self-lubricating' Pins and Bushes for Electric Rope Shovels and Hydraulic Excavators in the country. We have been supplying pins and bushes to various mining companies since 2002.



Benefits of SAHARSH make pins and bushes over other alternatives are:

- 5000+ hours working guarantee.
- No external lubrication required.
- Low cost compared to OEM spares.
- Increased productivity because of low machine downtime.

We have been supplying bucket end assemblies for P&H 1900, PC1250, BE1000 and other excavators/shovels to various mining companies such as NCL, SECL, SCCL, Ultratech, HCL and so on.

All our products are Make in India. We are a registered MSME available on GeM portal as well.

Our manufacturing unit is in Nagpur, Maharashtra. Our serviceability is to all locations pan-India.

Self-lubricating pins and bushes assembly for bucket end applications in excavators and shovels. Our pins and bushes offer working life of 5000+ hours owing to its metallurgical composition. Our stainless-steel bushings are very cost effective because of reduced machine downtime owing to the elimination of lubrication requirement at the bucket end.

We have ready stock for bucket assemblies of all leading OEMs such as P&H, Komatsu, BEML, and CAT.

www.saharsh.co













SAKAR RUB-TECH PVT. LTD.



Greetings from Sakar Rub-Tech Pvt. Ltd., India's leading Wear Resistant Rubber SAKAR Rub-Tech Pvt. Ltd.

Liner manufacturer in India. Established in 2016, with a very humble start but with a vision to grow into one of the most trusted and reliable Wear Resistant Rubber Lining manufacturing companies in the country. We have grown from strength to strength since then and today have our own comprehensive designing and manufacturing facilities.

SAKAR Rub-Tech provides an excellent grinding solution through the rubber lining of Ball Mill/Rod Mill/Scrubber all over Ceramic, Mineral, and Steel plants. SAKAR Rub-Tech takes care of Ball Mill with wear & tear and abrasion-resistant rubber products. We strictly follow our principle of "Always deal with a quality product only". Quality remains our top priority and equal attention is given even to the smallest of the equipment leaving our factory.

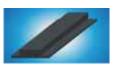
Customization is our forte, which has led the way for us to service almost all industrial sectors like Power, Steel, Mining, Ceramic, and other Engineering fields.

The products which we supply to our clients are,

1. Wear Resistant Rubber Liners Ball/Rod Mill.

- 2. Wear Resistant Chute Liners
- 3. Rubber Bellows and other industrial rubber products

SAKAR's Rubber Shell Liners are used to protect the inner shell of cylinder (Ball Mill/Rod Mill) from being impacted and worn directly by material and grindball. At the same time one can use different size of shell liners to adjust the direction of ball mill motion to improve the grinding effect of the grinding media to material, and to help the ball mill to improve the



grinding efficiency, increase production and reduce consumption. The product provide by SAKAR ensure the greatest wear resistance and tenacity to protect the inner shell of cylinder, reduce the maintenance times and prolong the service intervals of ball mill. We can provide customized products as per client requirement.

Liner Plates is one of the most important parts of ball mill, so far most of the liner plate has lifter bar to improve the lifting force of the medium to so as to achieve the best promotion effect. SAKAR's offered Ball Mill Liners and Lifter Bars are created to ensure maximum lifespan and performance of ball mill, with a selection of rubber and rubber composite liners availability. These are the result of state-of-the-art



software-driven designs with industry leading inspection data, achieving an optimal charge trajectory and rate of wear life for your ball mill. These can be tailored to the specific application requirements of your mineral processing operation, with different rubber formulations and attachment system materials available.

This Product is an important part for conical ball Mill and its call "feed end liners for ball mill". Its main function is to protect the end cover of ball mill. The high wear-resistance head-end plates provided by our SAKAR have improved the wear condition of the feed end liners for ball mill that make the end liners

have good wear-resistance and effectively increase the service life.

This Product is an important part for conical ball Mill and its call "Discharge end

liners for ball mill". Its main function is to protect the end cover of ball mill. The high wear-resistance head-end plates provided by our SAKAR have improved the wear condition of the Discharge end liners for ball mill that make the end liners have good wear-resistance and effectively increase the service life.

Rubber as a lining material has proved to be very useful in material handling applications due to its inherent dampening properties. The dampening effect of a rubber liner depends on the angle of impact. Sakar wear resistant rubber liners are manufactured from special rubber compound by high pressure molding which imparts abrasion,

impact and corrosion resistant properties to these liners. The wear pattern of these elements can be predicted fairly accurately which enables proper maintenance planning and hence reduces the overall costs. we can also bend, roll or shape the liners to suit each individual application.

SAKAR's specially design Combo Liners are more economical and easy to install. As it is combined with shell liners and lifter bar it's called Combo Liner. Are also used to protect the inner shell of cylinder from being impacted and

worn directly by material and grind-ball. SAKAR Combo Liners are available in many size to be install in ball mill with different dimensions.



www.sakarrubtech.com

SANY HEAVY INDUSTRY INDIA PVT. LTD.

Sany India offers the widest range of Construction **SANY** Machinery in India & South Asia. In 2012, Sany India invested more than INR 750 crore to develop infrastructure for R&D, Manufacturing, Quality Inspection, Testing, and Service at its manufacturing facility in Chakan, Pune. Through this facility, the company operates in four Business verticals viz: Excavator, Heavy Equipment, Mining Machinery, and Renewable Energy.

Presently, Sany India offers products like excavators, truck-mounted cranes, all-terrain and rough terrain cranes, crawler cranes, transit mixers, batching plants, boom pumps, trailer pumps, piling rigs, motor graders, pavers, compactors, reach stackers, rubber tyred gantry cranes, rail-mounted gantry cranes, mining equipment, wind turbine generators and many more. The company has established a strong network of around 39 dealers and 180 touchpoints to cater the growing demand and provide support to all its customers & associates.

Sany India has delivered more than 25000 machines on the ground, contributing to infrastructure development projects in India & other South Asian countries. Owing to its widest product range, superior build quality, service commitment, innovative solutions, and global expertise, Sany India has achieved market leadership in various construction equipment segments. With the Government of India's focus on infrastructure development and modernization, the company is poised for tremendous growth.

www.sany.in

≫ SHANDONG JINHENGLI CHAIN GROUP CO., LTD. (RUP)

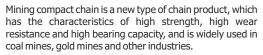
Shandong Jinhengli Chain Group Co., Ltd was established in 1989 and is a national high-tech enterprise. The company's products cover the production and sales of patented products such as flexible transportation system robots, high-end mining ring chains, compact chains, chain links and mining accessories, automatic flameproof devices, etc. It has 49



mining product safety label certificates. Passed the IOS9001: 2015 standard quality management system certification. Our products are exported to over 20 countries and regions worldwide. (RUP Enterprises for

Indian market) Lifting chain are widely used in hoisting, the levels is G80

Lifting chain are widely used in holsting, the levels is G80 and chain diameter from 5mm to 32mm, and the factory has automatic welding assembly line and improve product testing equipment chain of domestic and foreign advanced.



Chain connector is a kind of traction chain, which connects circular chain or compact chain. It is an important accessory of scraper, transfer machine and slag scraper. There are four types: arc -shaped chain connector, V-lock chain connector, chain-lock connector and open -type chain connector

660

The automatic flame-proof device in coal mine is a purely mechanical structure, which is fixed above the roof of

roadway with anchor rod. When gas or coal dust explosion occurs underground, it can automatically spray fire extinguishing substances, and timely quench the explosion flame within its protection range, so as to minimize the harm caused by gas explosion.



Flexible continuous transportation system can 90 ° turning transportation, and Tracking walking function, without deviation or collision, it has Strong ability to climb and overcome obstacles and also can continuous curve transportation



The entire self moving tail adopts distributed drive technology to achieve forward or backward movement, and has crab shaped movement function Each section of the self-propelled tail walking device is an independent unit equipped with a separate control system, which can walk independently during installation or removal





SHREE GUHAN ENGINEERING PROJECTS PVT. LTD.

SGEPPL is into manufacture of tyre handlers for mining industries. Tyre handlers are indigenously manufactured by us in our state of art facility in Chennai.



SGEPPL has chosen this product & have given special attention during design stage to ensure human efforts are minimized to greater extent during change of tyres in dumper trucks between 35 to 250 Ton even any other capacity we can custom built accordingly, which was earlier a mammoth task.

SGEPPL's Tyre handlers are designed & manufactured to suite any wheel loaders available in the mining industry, this way we have ensured that customers don't have to procure a specific wheel loader and can use any wheel loaders available with them. A huge capital investment by our customers is reduced because of the above.

SGEPPL also has a guick-change coupling mechanism developed indigenously to ensure customers can use their existing wheel loaders for other intended purposes.

SGEPPL ensures "CUSTOMER DELIGHT" by maintaining transparency and seamless execution of orders received till commissioning and handholding the product to customer.

Tyre handler is coupled with L&T 9020 wheel loader is sucessfully comissoned in r.k.t mines Dhanbad, Jharkand. Our tyre handler capcity is 3.5ton, it is used for upto 100ton dumpers.

Tyre handler is coupled with L&T 9020 wheel loader is sucessfully comissoned in dev prabha mines Dhanbad, Jharkand. Our tyre handler capcity is 3.5ton, it is used for upto 100ton dumpers.

Tyre handler is coupled with volvo L120F wheel loader is sucessfully comissoned in GRN mines kairagura, Telengana. Our tyre handler capcity is 3.5ton, it is used for upto 100ton dumpers.

Tyre handler is coupled with sdlg lg958l wheel loader is succesfully commisined in BGR mines, Manoharpur, Odisha. Our tyre handler capacity is 2ton, it is used for upto 60ton dumpers.

Tyre handler is coupled with SDLG L958F wheel loader is succesfully commisined in DBL Mines, Sundargarh, Odisha. Our tyre handler capacity is 5ton, it is used for upto 140ton dumpers.

Tyre handler is coupled with volvo L220G wheel loader is succesfully commisined in triveni sainik Mines, Hazaribagh, Jharkhand. Our tyre handler capacity is 8ton, it is used for upto 240ton dumpers.

www.sgeppl.in.net













SHRI RAM MACHINERY STORE

We take this opportunity to Introduce ourselves as a one of the leading manufacturer & supplier for all kinds Endless and open length Conveyor Belts, Conveyor Roller Part as per the Customers' Drawings, Sizes, Samples & Specific Requirements as per your kind Request.

We are a renowned manufacturer and supplier of Conveyor Roller Parts, Conveyor Systems & Pulleys and Industrial Gear Boxes. These products are manufactured using superior quality stainless steel, mild steel, aluminium and other raw material, which is obtained from the trusted vendors in the market. To ensure the quality of the products, we use technically advanced machines and equipment. Our products are widely demanded in the industries such as automotive, agricultural, electronic, food processing, aerospace, pharmaceutical, chemical, to name a few. Our firm is also engaged in executing job works in cement, power plant, paper, fertilizers, mines, chemical, salts, government, department, semi government department and other industries.

We lay utmost importance on offering superior quality products to our customers. For this, we manufacture our entire range using high-grade raw material and technically advanced machines. These products are in compliance with the international quality standards and norms. We have developed a quality testing department, wherein all the finished products are tested on different parameters by our dexterous quality controllers. They keep an eye on the production process, starting from the procurement of raw material till the final dispatch.

We hold expertise in undertaking Turnkey Projects for numerous sectors and industries. Backed by a proficient team of professionals, having complete technical know-how, our organization has undertaken various crucial projects and completed it on time. With the use of advanced technology and machines, we design the products and install the same as per the client's specific requirements.

We are engaged in manufacturing and supplying a wide gamut of three roll type bracket inclined idlers. These products are manufactured using premium quality raw material, which is sourced from the reputed vendors in the market. It is used for transporting bulk quantity in construction, chemical & automobile industries and warehouses. Our product is available in 20°, 30° and 45°. We offer these products at the most reasonable prices

We have undertaken various projects for the following:

- Stone crusher Plants
- Sugar Plant
- Cement Plant
- Ceramic Plant
- Lignight Plant
- Solvent Plant •
- Salt Plant
 - Coal Handling Plant
 - **Bulk Material**
 - Fertilizer Handling and Bagging Plants
 - Foundry Sand Screening and Handling
 - Plants

Some of our manufacturing itme list is as under:-

- Three Roll Type Bracket Inclined Idlers
- Impact Idlers
- Conveyor Drive Head Pulley& Rubber With Lagging
- Conveyor Drive Tail Pulley & Rubber With Rubber Lagging sheet
- **Guide Rollers**
- **Reduction Gear Boxes**
- Gear Box (NU Type)
- M.S Gears
- Conveyor Roller Ball Bearings
- Conveyor Pulley Customised With Rubber Lagging sheets
- Impact Rubber Idlers
- Conveyor Tapper Drum Pulley

We are quality conscious & generally manufacture imported substitution items as per customer's specific requirement.















www.conveyorbelttechniques.com







> SLON MAGNETIC SEPARATOR CO., LTD.

SLon Magnetic Separator Co., Ltd. is affiliated to Jiangxi Tungsten Holding Group Company Limited. Its predecessor was the Equipment Research Office of Ganzhou Nonferrous Metallurgy Research Institute, which was founded in 1952. In November 2002, SLon Magnetic Separator Limited was established settling in the Shahe Industrial Park. In December 2021, SLon implemented a joint-stock reform and changed its name to SLon Magnetic Separator Co., Ltd..

SLon is a state-owned high-tech enterprise integrating R&D, production and sales of magnetic separation equipment. Its research on magnetic separation equipment began in 1985. It is the inventor of the Vertical Ring Pulsating High Gradient Magnetic Separator(VPHGMS) and the pioneer of industrial applications. So far, SLon has organized and participated the industry standard of VPHGMS and Centrifugal Separator, won the second prize of National Science and Technology Progress Award in 2004 and 2014, National Technology Invention Award, 26 invention patents and 69 utility model patents, 4 software copyrights, and more than ten national, provincial and ministerial awards. SLon is a national key high-tech enterprise with the European CE certification and independent export qualification, and a leading brand in the magnetic separation industry.

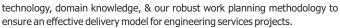
SLon has a registered capital of 150 million RMB. At present, there are nearly 400 employees, 98 of whom owns a bachelor's degree or above, including 21 masters and 5 doctors. There are 10 professor-level senior engineers, 16 senior engineers, and 38 engineers. It has three scientific research and production bases in Ganzhou, covering an area of more than 230,000 square meters, with a factory building of nearly 200,000 square meters. There are a national enterprise technology sub-center, a provincial enterprise technology center, and a provincial magnetic separation equipment key laboratory, the provincial magnetic separation equipment key laboratory, the comprehensive strengths in production and manufacturing, scientific and technological research and development, experimental technology research, analysis and testing. SLon is currently well-known domestically and internationally technical solution provider.

SLon specializes in the R&D and production of magnetic separation equipment, and provides mineral separation test and process design, non-metallic ore iron removal and purification test and process design, mine EP general contracting services and etc. Now it mainly produces electromagnetic separator, permanent magnet separator, centrifugal separator. There are more than 200 specifications of products in four series including intelligent sorting machines(XRT). SLon magnetic separation equipment has been widely applied in iron ore, chromite, ilmenite ore, manganese ore, wolframite, rare earth, tantalum niobium ore, copper cobalt, red mud and other metallic minerals, as well as the non-metallic minerals such as feldspar, quartz sand, kaolin and so on. In addition, SLon magnetic separation equipment has been exported to the United States, Canada, Russia, Australia, Brazil, Peru, India, Malaysia, Vietnam, Thailand, South Korea, Iran, South Africa, the Democratic Republic of the Congo, Sierra Leone and so on, with the market holdings of more than 4,000 sets. It has successfully provided high-quality technical services and product solutions to more than 1,500 customers around the world, which is the leading supplier of magnetic separation equipment in the industry.

www.slonmagnetics.com

SNWEL ENGINEERING PVT. LTD.

Snwel Engineering® is an integrated engineering services & solutions company. We offer services & solutions that are simultaneously affordable, sustainable and of high quality. Leveraging



We provide services in the following verticals - Oil & Gas, Petrochemicals, Power, Process, Paper & pulp, Chemical, Infrastructure, Mining & Metals, Manufacturing and Pharmaceutical.

- 3D Plant Engineering Services (Multidisciplinary Plant Engineering)
- Intelligent P&ID, Structural, Piping, E&I Engineering & Production of GA, Fabrication & Piping Isometrics
- 3D Laser Scanning Services for Brownfield/ Greenfield Construction
 Projects
- 3D Modelling Services (Concept Design to Detail Engineering)
- 3D Printing Services for Plant & Product Development
- 3D Model Reviews for Constructability, Operability & Maintainability Study
- Utility, Fire Fighting & HVAC Engineering
- Analysis Services (Pipe Stress Analysis/ CFD Analysis/ FE Analysis)
- Civil & Structural Design, Analysis & Detailing
- Instrumentation Engineering
- Preparation (2D/ 3D) Engineering Data

3D Plant Engineering Services: Our Multidisciplinary 3D Plant Engineering Services focuses on designing, modelling, and simulating industrial plants using advanced 3D plant modelling software. Our services offer a comprehensive solution for plant design, including detailed engineering, procurement, construction, and commissioning. We can create



accurate digital models of a facility, to optimize layout, equipment placement, and processes before any physical construction begins. This can lead to significant cost savings and reduced risk in the long run. 3D Plant Engineering Services are crucial for industries such as chemical, mining and metals, oil and gas, pharmaceutical, and food and beverage, where precision and safety are of the utmost importance.

We provide multi-disciplinary plant engineering which includes, 3D modelling of plants from basic engineering data, Conducting 3D Model Reviews, Clash Checking & Delivering GA, Fabrication, Piping Isometrics & MTO for construction purpose.

3D Laser Scanning Service: We use highresolution laser scanner to capture precise and accurate three-dimensional measurements of objects, plants, buildings, or environments. It is a non-invasive method that generates highly detailed and comprehensive 3D models with a level of

accuracy that is impossible to achieve with traditional surveying methods. These models can be used for a variety of purposes, including engineering and construction projects, architecture, forensic investigations, and cultural heritage preservation. Our 3D Laser Scanning Service provides clients with highly accurate, detailed, and measurable data, which can lead to significant cost and time savings in the long run, as well as improved safety and efficiency in project planning and execution.

Material Handling Engineering: We provide Material Handling Engineering services to design and develop automated manufacturing and material handling systems to assist with bulk material movement and conveyance of specified material.

3D Printing: Our 3D printed blueprints can empower Architects, Engineers, and Construction (AEC) professionals in transforming tomorrow's landscape. We also provide product design, prototype development starting from concept to finalization of product. Pattern Development, Jigs & Fixtures & Training Models

Printing Material: ABS+, PLA, Metal fill, Carbon fibre, Polycarbonate, Polyurethane, ABS - PC

www.snwel.com





ENGINEERING SERVICES WE PROVIDE:

SQUADRONE INFRA AND MINING PVT. LTD.

We Squadrone Infra and Mining Pvt. Ltd., Bangalore, believe in Digital Transformation in Mining and Infrastructure by using drone-based technology, to shape the future of mining by



integrating AI & ML in Mineral Prospecting, Mine planning, and design, Drilling and Blasting, 3D Reality Modeling, Open pit and Underground mines, and infrastructure to enhance mine safety, efficiency, productivity, and profitability.

We are a team of Mining engineers, Geologists, Aeronautical engineers, Geophysicists, Geotech engineers, GIS experts, etc., with over 30 years of experience in Mining. Our domain expertise in Mining along with deep knowledge of drones, we focus on specialized applications of this latest technology in Mineral Prospecting/ Exploration, Open pit mining, Underground Mining, Tunneling, etc.

We undertake some of the latest state-of-the-art drone-based applications.

- Drone-based Geophysical survey by using Magnetometer, GPR, and VLF for Mineral prospecting, exploration, cavity mapping, and monitoring without entering the site.
- Surface Subsidence mapping and Monitoring.
- 3-D Modeling and Photogrammetry of large areas by using Drone technology.
- Digital transformation and monitoring with AI & ML in a large mechanized open pit mine for Mine planning and design, Mine safety and compliance, Haulage roads, Drilling and Blasting, Stockpile management, Dump Management, Slope Monitoring, etc.
- Autonomous Drone flying and mapping of Stopes, Shafts, Adit, Drive, etc. in underground mines and tunnels.

Services Provided by Squadrone:

1. DRONE-BASED LIDAR APPLICATION

Squadrone Infra and Mining Pvt. Ltd. 1st to fly Autonomous drones in underground mines in India.

- 3D Reality modeling of underground mines, using drones equipped with advanced technology, provides precise analysis to find out Undercut -Overcut area, weathered and joint roof, stope area, volume and its condition, Blast design, and other structures without endangering the lives of men in underground mine and tunnels.
- Underground Mining & Tunneling Drones enabled with LiDAR and AI generate data on the structure and geotechnical disturbance of tunnels & mines, improving safety to reduce the travelling distance of man & machine and enabling efficient planning of development and support patterns.
- Old working mines: When old mines are closed for long periods, it's challenging to predict hazards. Drones with AI can collect data with video and images without risking lives to plan further working safely according to the mine conditions.
- Surveying stope area: In underground mines is made easy with dronebased Lidar technology and equipped with AI and ML for precise data collection, volumetric analysis, dilution control and better planning.
- Draw point inspection: is hazardous for man & machine. Using UAVs with AI and Lidar technology, we can obtain quantitative data for administrative controls with Trigger Action Response Plans (TARPs), by improving QA/QC, mucking & filling plans with ground support analysis without endangering lives.
- Convergence monitoring: Rapid scanning methods enable data collection to occur at regular intervals. This leads to improved recognition of convergence trends and closure rates for geotechnical inspection and safety.

2. DRONE-BASED MAGNETOMETER

Squadrone Infra & Mining. Pvt. Ltd. - 1st to fly Autonomous drone-based Magnetometer for Geophysical Survey for Mineral prospecting and Exploration

- Mineral prospecting/exploration: Our drone-based magnetometer technology provides 10 times faster, more accurate, and cost-effective mineral exploration process while promoting sustainable practices in the critical minerals supply chain. With the ability to detect anomalies in the earth's magnetic field, we can identify mineral deposits up to 600-800m below sea level without disturbing the ecosystem. Specifically establishing mineralized zones & exploration targets. Prospect V/s Reject.
- Groundwater exploration: A fast, cost-effective, and environmentally friendly way to explore potential groundwater resources. Equipped with advanced drone-based magnetometers, identifying potential sites for

groundwater exploration. With traditional exploration methods being time consuming and expensive, our technology allows us to survey large areas of land quickly, saving you both time and money.

- Oil and gas exploration: Revolutionize your oil and gas exploration with our cutting-edge drone-based magnetometer technology. Our drones equipped with magnetometers can detect anomalies, and deviations in the strata in the subsurface, providing accurate and efficient data for identifying potential drilling sites.
- UXO Detection: Unexploded ordnance (UXO) can pose a significant threat to public safety and the environment. Our drone-based magnetometer technology provides a safer, faster, and more efficient way to detect and dispose of UXO, saving lives and reducing environmental damage.

3. DRONE-BASED GROUND PENETRATING RADAR

- Mineral exploration/prospecting: Unleash the power of ground-penetrating radar technology with our drone-based GPR system for mineral exploration. Our advanced drones equipped with GPR can detect and analyze subsurface features, helping identify potential mineral deposits quickly and cost-effectively.
- Tailing dams in mines (Strength & Leakage analysis): Our state-of-the-art drone-based Ground Penetrating Radar (GPR) technology enables comprehensive tailing dam inspections, utilizing high-frequency electromagnetic waves to penetrate and map subsurface layers. Integration of drone based GPR system with AI & MI technology detects potential issues such as leaks, voids, and erosion, providing detailed data to prevent dam failures and environmental disasters.
- Cavity land/underground monitoring: With high-frequency electromagnetic waves, our drone-based GPR system detects soil cavities, sinkholes, and other anomalies for precise data collection.
- Detection of Underground tunnels, Structures, and pipe leakages: The advanced capabilities of the Ground Penetrating Radar (GPR) system, can accurately detect underground tunnels, structures, and pipe leakages with high precision and reliability. It can operate in inaccessible areas, providing data that is crucial for efficient tunneling and pipeline management, using its ability to penetrate deep into the earth's strata.
- Lithological Characterization and Stratigraphic Modeling: The potential applications of drone-mounted Ground Penetrating Radar (GPR) technology in performing lithological characterization and stratigraphic modelling. It involves collecting subsurface geophysical data through GPR scans, which can then be interpreted to create models that help understand the geological structure and properties of the area of interest.
- Aquifers Allocation and Evaluation & Archeological Findings: Our dronebased GPR service is a valuable tool for aquifers allocation and evaluation, as well as archaeological findings. By integrating GPR technology with drone-based surveys, we can accurately detect subsurface features, such as buried water resources and archaeological artifacts, using nondestructive methods. Our experienced team uses advanced processing and interpretation techniques to provide clients with accurate and reliable data for informed decision-making.

4. DIGITAL TRANSFORMATION IN SURFACE MINES

- 3D Reality modeling: This uses drone technology to create precise 3D images of mines, such as sidewalls, dumps, slopes, and blast designs, without endangering surface mining personnel and is reliable & accurate.
- Volumetric analysis stockpile, pit & dump management: UAVs provide safer and faster stockpile, pit, and dump management in mining. They offer 3D views for data analysis and planning, detect changes, and enable a volumetric analysis of area, volume, and height.
- Drill & blast optimization: Integrated drone technology with AI & ML Technology made drill and blast optimization visually interpret the data as well as make informed decisions based on the study analysis. Drones create high-resolution 3D maps for precise planning of drilling parameters for efficient fragmentation and reduced vibration. Drones equipped with sensors and cameras collect real-time data on blast results for analysis using AI and ML algorithms to optimize future parameters for improved safety, efficiency, and cost-effectiveness.
- Pre-blast: drones can create high-resolution 3D maps of the terrain and geological features, allowing for accurate and detailed planning of drill hole location, depth, and angle. This can improve fragmentation, reduce vibration, and minimize overbreak and underbreak.
- Post-blast: drones equipped with sensors and cameras can be used to collect real-time data on blast results, such as fragmentation, muck pile shape and size, and damage to surrounding infrastructure.

- Mine Survey/ Topographical Survey: This technology is crucial for monitoring stockpile management, mining operations, haul road optimization, water and sediment flow, mine exploration, blast assessment, tailings dam monitoring, and other critical aspects of surface mining.
- Haul Road Assessment AI: AI technology can detect and assess haul road safety and compliance by automatically identifying parameters such as grade, width, cross-falls, and berm heights.
- AI in fragmentation analysis: AI technology can measure 2D and 3D muck pile fragmentation automatically using drones and optimize future shot designs with AI fragmentation prediction models that learn from previous shots.
- Subsidence monitoring: UAVs equipped with cameras or LiDAR sensors, integrated with AI/ML algorithms, can monitor subsidence in mining and analyze data to detect changes in ground level, improving risk detection accuracy and efficiency.

1. MAGARROW-SPECIFICATIONS

1	Operating Principle	Laser pumped cesium vapor (Cs133 non-radioactive) total field scalar magnetometer.	
2	Operating Range	20,000 to 100,000 nT	
3	Operating Zones	Configured for operation anywhere in the world without dead zones.	
4	Sample Rate	1000 Hz sample per sec	
5	Bandwidth.	400Hz	
6	GPS	Commercial grade with typical 1 m accuracy	
7	Data Logger	Built in Data Logger	
8	Total Weight	1kg without batteries.	
9	Length	1m.	
10	Operating Temperature	-10°C to +50°C (+14°F to +122°F)	
11	Humidity	Non-condensing.	

Advantages of Drone-Based Magnetometer

- Evaluate inaccessible areas, harsh terrains, Forests, and farmlands, without exposing humans to danger and wild.
- Capture large areas for exploration targets and find prospects in Gold, Copper, Lithium, Nickel, Iron ore, Base metals & many other minerals.
- Quickly demarcate areas for land acquisition & Tenements/Licenses
- Exploration depth Up to 600-800m
- Possible to target/ capture deep-seated deposits in tandem with EM, IP & MMR.
- Efficient for inaccessible areas without disturbing the ecology.
- Eliminates the need for Approach roads
- Specifically establishing mineralized zones & exploration targets. Prospect V/s Reject.
- Groundwater exploration
- Oil and Gas Exploration -For drilling the discovered wells.
- As metal detector Underground Pipeline Mapping, Ship wreck, etc.
- UXO detections

2. DRONE-BASED GEOPHYSICAL APPLICATION WITH GPR.

The GPR with drone system - collecting data fully automatically, with flight and radar status monitored using UgCS (universal ground control software)

- Enhancing fieldwork by 10 X
- Provides Cm level precision using GPR mounted on Drones.
- Safety, A drone operator is able to remotely monitor flight and GPR operations from a safe distance.

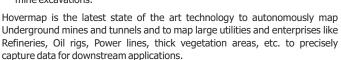
Drone-based Gpr- Geophysical Solutions.

GPR is a proven geophysical investigative method with a variety of applications

- Tailings dam in mines (Strength & Leakage analysis)
- Cavity Surface/Subsurface monitoring
- Mineral prospecting/Discovery.
- Detection of Underground tunnels, Structures, and pipe leakages.
- Stability Analysis and Subsidence Evaluation
- Aquifers Allocation and Evaluation
- Archaeological Findings.

3. HOVERMAP-SPECIFICATION

- Hovermap is a SLAM-based LiDAR (Simultaneous Localisation and Mapping) system, No need for GPS.
- Scanning range: 250-300m
- 6,00,000 points/ Second
- Autonomous flying underground
- It enables data capture of critical underground mine excavations.



SLAM TECHNOLOGY

Simultaneous Localization and Mapping is a unique technology used to capture critical underground mine excavations and capture new insights to optimize mine development and operations. When mounted to a drone, Hovermap enables autonomous flight Level 2 (AL2) Beyond line-of-sight and communication range, hazardous, GPS denied environments. Operators can capture high-quality data from inaccessible underground voids while personnel remain safe- under controlled ground. Hover map pilots can fly an entire mission, from take-off to landing, using a tablet. Data is processed on board, Providing the operator with a 3D map of the environment in real-time. Waypoints are set with a preset bag of words or a simple tap on the map and Hovermap takes care of the rest Safely navigating the drone to achieve the mission.

www.squadrone.co.in



STM CONSTRUCTION EQUIPMENT INDIA PVT. LTD.

STM Construction Equipment was founded in 2010 in Singapore and established an Indian branch office in Navi Mumbai in 2012. The company specialises in introducing new and advanced methods from manufacturers in



Europe and Japan. The main products include Xcentric Ripper for soft rock, Yamamoto Rock Splitter for hard rock, STM Rock Breakers and Darda handheld rock splitters. STM strives to provide the best possible aftersales support, both in terms of highly trained service engineers, as well as a high level of spare parts and consumable inventory. Through a close and long term cooperation with our overseas principals we can solve technical issues quickly but also give feedback to make products more suitable for Indian requirements.

Xcentric Ripper is a newly developed excavator attachment specifically designed for primary excavation of rock without the use of explosives. It is based on a patented impact vibration accumulation technology, which enables excavation in less time, at lower cost, and with minimal noise compared to conventional rock breakers. It was developed in Europe in 2009 and was introduced in India in 2012. The main applications include limestone mines and overburden removal in coal mines. It is mounted on



conventional excavators and often used to replace blasting and surface miners. There are currently about 70 units working in India.

www.stm-ce.com



> SWAN ENVIRONMENTAL PVT. LTD.

SWAN ENVIRONMENTAL PVT. LTD. was incorporated in 1988 by well qualified and experienced professionals with an intention to contribute to environmental protection through business. SWAN is acronym for Soil Water Air Noise. As the name suggests, SWAN offers a host of products of reputed make that can analyse and quantify soil, water, air and noise.

SWAN is very selective in choosing their technology partners and gives utmost importance to proven technology and proven track record to identify their partners.

Product Portfolio :

- Continuous Ambient Air Quality Monitoring Systems (CAAQMS)
- Continuous Emission Monitoring Systems (CEMS)
- Effluent Quality Monitoring Systems (EQMS)
- Water Ouality Monitoring Instruments
- Environmental Hygiene & Safety Monitoring Instruments
- Advanced Research Instruments

In the last 30+ years SWAN had the opportunity to serve various industrial sectors that include Power, Oil & Gas, Pharmaceutical, Pulp & Paper, Steel, Cement, Chemical, Metallurgical etc. SWAN also served to laboratories and institutions pan India.

PERSONAL NOISE DOSIMETER

Powerful & intuitive instrument designed for identifying hearing loss threats. Measuring range - 70 dB to 140 dB. Frequency wt. : A, C, Z. 1/4 inch prepolarized condenser (electret) field replaceable threaded microphone. Compact, 85 grams unit mounts easily to the shoulder. Large colour OLED display - easy reading. LED indicator flashes when dose level has been exceeded. Equipped with two



independent dosimeters that can simultaneously measure against separate industry standards. Configurable auto display shut off for increased battery life. ATEX certified.

AREA HEAT STRESS MONITORS

Wet Bulb Globe Temperature Heat Stress Monitors calculate and display WBGT Index value that considers the effects of Ambient Air Temperature, Humidity, Air Flow (which provides an evaporative cooling effect to the body) and radiant heat from sources such as the sun furnaces, ovens, and boilers



- QT32, QT34, and QT36 heat stress monitors are with conventional wet bulb sensor.
- QT 44, 46 and 48N heat stress monitors are engineered with waterless wet bulb sensor.
- IP 54 ingress rating helps protect unit from exposure to dirt, dust, oil and water.

ADVANCED HUMAN VIBRATION METER

Meets requirements of ISO 8041-1:2017, ISO 2631, ISO 5349, EU 2002/44/EC. Enables simultaneous measurements with two triaxial accelerometers (e.g. both-hands vibration or vibration through vehicle seat). Low frequency measurements. Frequency analysis 1/1 & 1/3 octave provides information on dominant frequencies and harmonic. WAV Recording. Time-history logging.



LIGHT METER

It can determine whether you have adequate illumination to protect workers, students, visitors, patients or attendees of different venues. With foot candle and Lux measurement modes. Measures up to 40,000 Fc (or) 400,000 Lux. Remote light sensor via 12in. coiled cable. Indicates change in light levels, peak mode captures highest reading.



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PERSONAL SAMPLING PUMP

First personal sampling pump with colour touch screen navigation. Extended flows from 5 to 5000 ml/min. Ultraquiet and tough. Intrinsically safe. Continuous / timed / intermittent sampling. High back pressure compensation. Automatic flow correction for changes in temperature and atmospheric pressure. 20 hours of run time after charging. Hands-free calibration. Software for easy pump programming & advanced reporting. Screen lock prevents accidental tap errors.



Monitors the quality of inhaled air in Smart Homes & Offices, Smart cities on Smart Phones. Measures SO2, NO2, CO2, CO, O3, PM2.5, PM10, Temperature, Relative Humidity, Noise, Light, UV, Pressure. Housed inside a shell and can be polemount. 8 GB internal memory. Communicates to cloud via Wi-Fi /GSM (3G/4G). Real Time hot spot analytics. Advance Analytics & Trends. Mobile & Email Alerts. Solar powered battery.

www.swanenviron.com



≫ TATA HITACHI

TATA HITACHI

A joint venture between Tata Motors Limited (40%) and Hitachi Construction Machinery Company Limited (60%), Tata Hitachi provides world class construction equipment to address India's infrastructure and mining needs.

Focused on developing global products to suit Indian working conditions, the organization's product lineup includes a wide range of excavators: from 2T -800T Excavators, Backhoe Loaders, Wheel Loaders and 35T - 290T Rigid Dump Trucks. Tata Hitachi has two plants at Dharwad - Karnataka and Kharagpur - West Bengal. The plants epitomize world class manufacturing and state-of-the-art-technology.

Our comprehensive range of support solutions such as Full Maintenance Contracts, Annual Maintenance Contracts, Extended Warranty, maximize the returns of the customer's investment by optimizing equipment utilization. It also helps strengthen our relationship through the customer life cycle experience.

At Tata Hitachi, we prioritize our outreach to customers through a strong distribution network that aids in the servicing and selling of products. Our vast network includes a marketing head office, regional offices, branch offices and dealerships spread across the length and breadth of the country. Our dealers are our extended arms - our face to our customers.

We are also now in the Used Equipment market with the Value+ and Premium Used range of certified used equipment so that customers have access to good quality equipment that adds value to their business. We have also launched our Re-Man center at Kharagpur where we offer a selection of options for re manufactured components that provide added value to our customers at a price advantage over new components.

MINI EXCAVATORS

With Tata Hitachi Mini Excavators, operators feel safe and comfortable and can do a lot more. Leading to customers finding the best return on investment. The machines have been designed to offer solutions specially tailored for Indian conditions and meets all local regulations. It is therefore no wonder that Tata Hitachi has emerged as the largest selling manufacturer of mini excavators in India.











ZAXIS 33U

NX30 TMX 20 Neo **CONSTRUCTION EXCAVATORS**

ZAXIS 23U

Our design philosophy at Tata Hitachi centres around the needs of the customer. Through innovative techniques, we develop solutions that cater to the needs of Indian customers, working under tough conditions in a competitive market.



ZAXIS 140H







EX 210LC SUPER+ SERIES

80



EX 215LC-SLR

ZAXIS 220LC ZAXIS 370LCH

ZAXIS 400MTH

MINING EXCAVATORS

A market leader in mining equipment, Tata Hitachi's mining excavators combine engineering excellence with a dedication to quality, to make tough machines with long life that meet the challenges of the mining industry.

Tata Hitachi's tough excavators, or loading shovels, are powerful enough to overcome the harshest, most demanding job requirements in the roughest of terrains.



BACKHOE LOADERS

A ubiquitous machine seen everywhere across India, in different types of terrains and applications, Tata Hitachi has been offering backhoe loader solutions to the market for more than 20 years.

Tata Hitachi's offering has been upgraded based on the changing Indian customer demands. These backhoe loaders are highly adaptable to urban engineering and construction projects. Their range of advanced features and technology, coupled with a reputation for product strength, agility and reliability are instrumental in achieving maximum productivity.



WHEEL LOADERS

DUMP TRUCKS

Tata Hitachi offers a wide range of wheel loader models. Tata Hitachi's wheel loaders have good payload capacity coupled with excellent productivity and enables the customer to operate his machines at a low cost.



ZW 370-5A

Tata Hitachi's models of Rigid Dump Trucks (RDT) are designed to meet mining, quarry and construction needs according to load-size. These productive off road vehicles are a perfect complement to the hydraulic excavators. RDTs are equipped with advanced suspension systems, unique body design, reliable electrical system and have a track record of performance and unfailing productivity.







ATTACHMENTS

Extensive range of customized attachments that meet the demands of several specific industry applications. These include Urban Development, Inland Waterways, Irrigation, Demolition / Crushing, Material Handling, Metal Recycling, Mining, Tunnelling and many more.



ORANGE PEEL GRAB CRUSHER SLURRY PUMP

MAGNETS

CUSTOMIZED MACHINES

Our design philosophy at Tata Hitachi centres around the needs of the customer. Through innovative techniques, we develop solutions that cater to the needs of Indian customers, working under tough conditions in a competitive market.



www.tatahitachi.co.in



TATA STEEL INDUSTRIAL CONSULTING

--- Resolute Practitioners to Passionate Consultants

Tata Steel Industrial Consulting (TSIC), is Tata Steel's maiden foray in the Consulting space. The goal is to cocreate solutions to complex problems both Strategic and



Tactical in nature, by leveraging more than a century of experience of successfully running India's First Mega factory and evolving into a Light House of Indian Industry today.

So, what makes our services unique and different? TSIC is more than just consultancy - the vertical comprises practitioners and experienced subject matter experts who have delivered results in an organizational context. This allows us to leverage this practical experience and execute proven solutions!

Our expertise lies in the below areas:

Mining and Exploration: Experienced professionals who are focused on quality and productivity at the mines and provide end to end solutions for

every aspect of an exploration project, since 1915

- Human Resource Management
- Organizational Excellence
- Technology and Best Practices
- Total Quality Management
- Learning and Development
- Digital and Automation Solutions
- Corporate services including Safety, Ethics and Information Security

consulting.tatasteel.com



TECHFAB INDIA INDUSTRIES LTD.

TechFab India (TFI) was founded in 2003, with the objective of providing world class geosynthetic & **TECHFAB INDIA** GeoHazard Mitigation products and services to enable owners, consultants and contractors to design and implement reliable, economic and easy to construct solutions for a wide range of geotechnical, transportation, hydraulic and environmental related problems.

TechFab India started its operation, with head office at Mumbai, design office at Vadodara and sales offices are at Ahmedabad, Hyderabad and New Delhi. Our manufacturing facilities are located in Silvassa, Daman, and Haridwar.

Our manufacturing facilities have ISO 9001:2015 certification and our product are CE certified, from SKZ Germany. All our manufacturing facilities have full-fledged in-house laboratories for quality control testing.

We have been scaling up our manufacturing capacities to meet the growing demand for Geosynthetics & GeoHazard Mitigation Products in the infrastructure projects.

TechFab India is manufacturing in India almost all types of Geosynthetics & GeoHazard Mitigation products meeting global quality standards and our production capacities are sufficient to fully meet the demands of infrastructure in India.

We assure the best in terms of quality of products, engineering capability, competitive pricing and delivery schedules.

TECHGRID POLYESTER GEOGRIDS

Techgrid Geogrids are knitted and Polymeric coated polyester geogrids manufactured from superior grades of high tenacity, high molecular weight and low carboxyl end group polyester yarns, which are formed into a dimensionally stable grid structure using a highly sophisticated weft insertion warp knitting and coating technology. This is extensively used for haul road applications.

TECHGRID PP BIAXIAL GEOGRID

Techgrid PP Biaxial – an integrally formed biaxial geogrid consisting of high quality polypropylene and carbon black. The punched and drawn manufacturing process are so designed that they provide the lateral confinement and helps in reinforcing the weak soils. This is extensively used for haul road applications.

TECHCELL GEOCELL

Techcell is a light weight yet strong, three dimensional honeycomb like cellular confinement system. It is used with infill granular material and used for ground improvement to weak foundation soil by increasing its load bearing capacity and also to control slope erosion by surface protection system.

TECHDRAIN DRAINAGE COMPOSITES

Drainage composites are formed by a combination of geotextile (woven or nonwoven), acting as a filter and separator on one or both sides with a core of Geonet. It has remarkable integration with full-fledged production with in house lines under one roof.

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CCGM (CONCRETE CANVAS)

CCGM (Concrete Canvas) is a flexible, concrete filled geosynthetic, that hardens on hydration to form a durable, water proof concrete layer. It is used for a wide range of erosion control, Channel lining, Rockfall protection and weed suppression applications.



TECHFAB METAL GABION/MATTRESS AND NETTING

TechFab Metal Gabion-Netting is metallic wire mesh double-twisted hexagonal type of netting has the high mechanical resistance required to prevent the danger of sudden rock shock loads and dissipate rock fall energy created from loose fractured rock. Since the double-twist, hexagonal-woven mesh does not unravel when some wires break.



TechFab Metal Gabion/Mattress and Netting is available in different sizes.

TECHRHOMBUS HIGH TENSILE ROPE NET SYSTEM:

TechRhombus high tensile rope net system is made out of high tensile steel wire ropes with tensile strength of more than 1960 N/mm2 which is a superior alternative to conventional rockfall protection system. High Tensile rope net system works in combination with or without bearing plates and other elements like top & bottom support ropes, wire rope anchors and soil nails. TechRhombuscan be used for both active and passive rockfall protection system.



TECHSLOPE FLEXIBLE SLOPE STABILIZATION SYSTEM

TechSlope flexible slope stabilization system made out of high tensile steel wire which has minimum deformation and maximum tensile strength, the mesh has unique advantages over conventional slope stabilization methods using hard facings such as shotcrete. The flexible slope stabilization system works in combination with or without bearing plates and other elements like top & bottom support ropes, wire rope anchors and soil nails.



TECHANCHOR - SELF DRILLING ANCHORS

TechAnchor - Self drilling anchors are most commonly used items for slope stabilization projects as well as tunneling and mining projects because of its flexibility to use in various type of soil and rock conditions. TechAnchor systems



reduces the cost of project to a significant amount with its lower cost of stocking as it can be kept with full length and can be cut as per project requirement.

www.techfabindia.com



➤ TECHFLOW ENTERPRISES PVT. LTD.

TECHFLOW is a dominant player in the field of AIR POLLUTION CONTROL EQUIPMENTS & SYSTEMS since 1979. The sheer dynamism of the



since 1979. The sheer dynamism of the Healthy Air-Vironment Always.....Anywherel company's strategic vision ensures cost-effective value-added solutions for its customers. The competitive edge gets exhibited through Constant technology upgradation, Innovative Product designing with engineering skills and Proven performance.

TECHFLOW is TUV SUD certified ISO 9001: 2015 company. TECHFLOW has four decades of experience in design, supply and install the APCS equipment across the Asia and India. TECHFLOW tops in manufacturing of:

- Dust Collection Systems
- Fume Extraction & Filtration Systems
- Centrifugal Blowers & Fans
- Pneumatic Conveying Systems

The state-of-the-art facility is spread over 2,50,000 square feet area equipped with latest technology machinery and skilled manpower, which makes

Techflow Gujarat's largest & India's leading manufacturers. Techflow is proud to supply to more than 20 industry sectors with special focus in Minerals and Mining Sector.

TECHFLOW works in close harmony with its customers' requirements and develop quality products for the market needs of today and future. For every product, task, or service there is a quality process, ensuring the quality of the result.

"प्रदूषण मुक्त भारत, हम सब का संकल्प राद्ध वातावरण, हम सबका अधिकार"

AIR POLLUTION CONTROL SYSTEMS / DUST COLLECTION SYSTEMS

TECHFLOW are a leading manufacturer of the dust collection system and air pollution control devices in Ahmedabad, Gujarat, and has achieve excellence in manufacturing various types of APCS and Dust Collectors:

- Reverse Pulse Jet Bag Filter (Online/Offline) •
- Reverse Pulse Jet Cartridge Filter
- Reverse Pulse Jet Envelope Filter
- Reverse Air Cleaned Cassette Filter
- **Electrostatic Precipitator**
- MDC & Cyclone
- Wet Scrubber / Venturi Scrubber

TECHFLOW expertise in design, supply and installing the APCS equipment and customize them as per the industry needs and regulatory norms. With an excellent after service team, TECHFLOW stands as leader in the industry.

FUME EXTRACTION & FILTRATION SYSTEM

Techflow believe in protecting and preserving the environment from harmful gases, and keep it safe for the future generations, without affecting the development, and production capacity of the various heavy industries.

- Primary Furnace Fume Extraction System
- Secondary Furnace Fume Extraction System
- Centralized Welding Fume Extraction System

Techflow is expert in catering to all the furnace types e.g. Electric Arc Furnace, Induction Furnace, AOD Furnace, Skelner Furnace, Rotary Furnace Cupola Furnace etc. The scope of supply includes design, manufacturing, supply, erection, commissioning anywhere in the globe.

PNEUMATIC CONVEYING SYSTEMS

Pneumatic conveying represents the core of a bulk material handling system. They help in the transport of bulk solids, powder granules material vacuum conveying (conveying of large aggregated granular chunks of powder) through a pipe by the use of the flow of air or gas. Besides performing the role of effectively moving bulk powder through the system they can be well customized to meet the unique requirements of the plant and other material characteristics as required by the manufacturer.

Techflow specialized to convey the powder and granules conveying using:

- Dense Phase Conveying
- Lean Phase Conveying
- Flux Recovery Feeding, Heating, Baking and Recovery Systems (SAW Weldina)

CENTRIFUGAL FANS & BLOWERS

TECHFLOW has developed a series of fans for almost all the industrial requirements. Centrifugal Blowers designed and supplied by TECHFLOW are highly efficient, proven, reliable & sturdy.

TECHFLOW is master in designing and manufacturing customized fans like Multi Vapor Recompression Fan (MVR Fan), Water Jacketed Fan, Special Bearing Cooling Arrangements for High Temperature fans. These are categorized by their pressure generation capacities & Drive types.

The Design range is as per below,

- Airflow / Air Volume: 1,000,000 m3/hr
- Motor Power: 1300 kW
- Static Pressure: 1500 mmWC

Centrifugal Blower can be considered as the heart of any processing industry. It is known as many type like ID Fan, FD Fan, Industrial Blower, Industrial Air Blower, High Pressure Fan, Hot Air Circulation fan, Bag Filter Blower, Dust Collector Blower, Blower, Pneumatic Conveying Fan.

ELECTROSTATIC PRECIPITATOR

Electrostatic Precipitator (ESP) is special type of system which uses electric charge to remove fine smoke and dust from the flue gases. The flue gases with impurities are entered through inlet and passed thorough electric charge, this are results separation of toxic particles like lead and sulphur & attracted to the plates where they are collected and removed.

- Range of Flows 20,000 m3/hr to 200,000 m3/hr
- Guaranteed Emission that can be achieved: Less than 30mm/nM3
- Operating Temperatures: From Ambient to 220°C
- Additional Items Like 3 phase T/R Set
- Opacity/Dust Monitor, ESP Management System
- CEMS can also be Supplied along with our offered ESP's.

www.techflow.net



TERRE ARMEE INDIA (Reinforced Earth India Pvt. Ltd.)

Terre Armée began its activity in the Indian Peninsula in 1996, initially through a licensee. In 2006, the business was transferred to Reinforced Earth India, a TERRE ARMEE subsidiary of Terre Armée, which subsequently



became a part of the Soletanche Freyssinet Group with its headquarters located in Paris. By being at the forefront of innovation and path-breaking technology, has forged an unrivalled level of expertise and experience to provide unique and benchmarked solutions for the construction industry. The company has always invested in a strong R&D program, which has enabled it

Terre Armée India is headquartered in New Delhi and has 3 regional offices -Mumbai (West), Kolkata (East) and Bengaluru (South), in addition to a manufacturing and testing facility at Arjikuja, near Ahmedabad. The company also has an active presence in neighbouring countries like Nepal, Bhutan, Bangladesh, Myanmar, Sri Lanka, and Maldives.

to create and evolve original techniques, know-how and scientific processes.

Terre Armée India provides innovative and sustainable design engineering solutions to our clients in areas like:

- Mechanically Stabilized Earth Structures
- Precast Structures
- Slope Engineering & Geohazards Solutions
- **Basal Reinforcements**
- **Coastal Engineering & Hydraulic Protection**
- Drainage Systems

www.terre-armee.com



> TH COMPANY INDIA PVT. LTD.

TH COMPANY is an international industrial company that helps its customers to process natural resources efficiently through the design, manufacture, sale and servicing of equipment and installations for mining, industrial processes and fishing.



After several years of intense mining activity in the country, TH COMPANY decided to open a subsidiary in India, to become closer to its Indian customers and to reinforce its world class customer service on the Asia Pacific region.

The office located in Kolkata, belongs to the company's TH business unit and provides rocks and minerals processing solutions for the mining, industrial minerals and aggregates industries. TH also provides a wide array of services ranging from plant audits to the supply of spare parts, operation & maintenance and technical assistance.

Specifically, for the mining sector, TH offers complete solutions for Iron Ore





Beneficiation and Dewatering Solutions for Tailings & Concentrates Treatment. TH Company has added Grinding and Pelletizing Technology (up to formation of Green Ball) to its portfolio by associating with CEMTEC, Austria and Magnetic separation Technology by association with GAUSTEC, Brazil for the Indian market.

Over 50 years of experience and a continual emphasis on innovation have made TH's technology a worldwide benchmark. TH currently works with some of the world's leading mining concerns, and its solutions and equipment have been successfully implemented all over the world.

IRON ORE BENEFICIATION COMPLETE SOLUTION

We provide our customers with complete solutions for Iron Ore Beneficiation customized to their specific needs. From engineering services to the implementation of complete iron ore beneficiation plants, which include grinding, magnetic separator & filtration circuits, we support our customers form the



beginning to the end of the useful lifetime of their projects.

We also provide a wide array of services ranging from plant audits to the supply of spare parts, operation & maintenance and technical assistance.

DEWATERING SOLUTIONS

With over 50 years of experience, we are specialists in dewatering solutions for concentrates and tailings management from large scale mining, we offer a wide range of filter presses, slurry pumps and thickening equipment characterised by their mechanical simplicity and robustness.



GAUSTEC

All our equipment is designed for easy operation and

maintenance and to ensure lower OPEX than other solutions available in the market.

We have equipment in place and operating all over the world and our currently works with some of the world's leading mining companies.

We also provide a wide array of services ranging from plant audits to the supply of spare parts, operation & maintenance and technical assistance

WHIMS MAGNETIC SEPARATORS

As Gaustec's official agent in India, we provide our customers with Wet High Intensity Magnetic Separators (WHIMS). With capacities ranging between 30 tph and 1,400 tph and magnetic fields of up to 18,000 Gauss (1.8 Tesla), we can provide the right equipment to fit any project.

CEMTEC MILLS

We manufacture and implement under CEMTEC license, a wide range of CEMTEC's comminution solutions which include:

- Ball Mills
- Rod Mills
- Drum scrubber
- Semi-autogenous (SAG) Mills
- Pelletizing Discs
- Mixers
- Additive Grinding Mills

WORLD CLASS SERVICES

At TH we offer a variety of services to support our customers from the beginning to the end of the useful lifetime of their projects. From plant audits, to operation & maintenance, to providing operation & maintenance service as well as after sales technical service and supplying spares, TH is there in support.



Our staff works closely with our customers to identify long term solutions and back this up with regular support to optimise the output efficiency of those solutions.

Over 50 years of experience make TH the ideal partner to ensure that projects will meet their potential throughout their useful lifetimes.

www.thsa.com

> THEJO ENGINEERING LTD.



ENGINEERING SOLUTIONS FOR CONVEYOR SYSTEMS, MINERAL PROCESSING & CORROSION PROTECTION

Thejo is a pioneer and leader in the belt conveyor maintenance business. Established in 1974, currently a public limited company, Thejo has the privilege of being the first company to be listed on the National Stock Exchange of India under its EMERGE platform.

Thejo's global headquarters is located in Chennai, India along with 5 of its manufacturing plants, and a state of the art Technical Excellence & Research and Development centre. The R&D centre has the recognition and approval of the Department of Scientific and Industrial Research: Ministry of Science and Technology of India (DSIR), and is actively engaged in the development of IP's.

OUR VISION

A one-stop Solution Provider to the Core Sector, viz. Mines, Metals & Minerals, Energy, Port etc., always ensuring Safety, Reliability, Quality and Cost Competitiveness.

OUR MISSION

To be the Firm of first choice Globally, for Customers, Employees, Suppliers and Shareholders, that offers tailor made Products and Services.

CONVEYOR CARE

Belt Repair Chemicals / Vulcanising Equipment / Belt Winders / Pulley Lagging Sheets / Tools

TRANSFER POINT SOLUTIONS

Belt Cleaners / Spillage Control / Belt Tracking / Belt Supports / Material Flow Promotion

MINERAL PROCESSING SOLUTIONS

Wear & Abrasion Liners / Trommels / Screen Panels / Wet Abrasion Lining

FILTRATION SOLUTIONS

Filter Plates / Diaphragms / Grids / Pinch Valve Sleeves / Hoses / Plate Pack Seals / Spares

CORROSION PROTECTION

Hot Rubber Lining / Cold Rubber Lining / Acid Brick Linina

SPECIAL PURPOSE MACHINERIES

Industrial Autoclave / Rigid Mandrel Hose Building Machine / Rubber Curing Press

www.thejo-engg.com











> THYSSENKRUPP INDUSTRIES INDIA PVT. LTD.

Thyssenkrupp Industries India Pvt. Ltd. in the last 75 years has grown to become one of the most trusted names in the fields of Sugar Plants & Machinery, Open Cast Mining & Bulk Material Handling Systems, Cement Plants & Machinery and Boilers & Power plants. With strong foundations and



thyssenkrupp

access to world-class technology thyssenkrupp Industries India plant making capabilities are helping the industry become competitive world over. Strategic vision of thyssenkrupp Industries India as an EPC Contractor to execute turnkey projects is derived from its core strength of integrated engineering expertise and automation in manufacturing backed by an excellent team of project executives. The company firmly believes in delivering total customer satisfaction spanning from Concept to Commissioning and prompt after sales service.

Thyssenkrupp Industries India highly competent project management capabilities are a result of its tradition of anticipating and fulfilling specific customer requirements. A highly qualified team of engineers and technicians,

supported by the most modern IT infrastructure ensures the brand of quality that thyssenkrupp is known for worldwide. The emergence of a true market leader speaks volumes about the world-class technology inherent in the company's products. The company's nationwide branch network along with the support of thyssenkrupp's global establishments enable it to meet the needs of customers on time.

Mining and Bulk Material Handling

Mining and Bulk Material Handling division was established in the year 1976. Since then we have been partnering growth in core sectors like power, mining, ports and refinery. Our expertise lies in designing, manufacturing and installing open cast mining & bulk material handling equipment/complete plants on turnkey basis and we are leaders in these fields.

Being a group company of thyssenkrupp Industrial Solutions, Germany, who are one of the world's leading designers and manufacturers in this field, makes us well equipped to handle this specialized market. It also gives us access to the widest range of world class technology which includes the technology of Krupp, Buckau Wolf, PHB, PWH, O&K, Demag Lauchhammer, Weserhutte and Robins which have merged with thyssenkrupp Industrial Solutions over the years.

We have had the privilege to render our services to PSU giants like NLC, NTPC, BHEL, DVC, NALCO, NMDC, IOCL, VSP and almost every state electricity board across the country, we also have the privilege to work with large private conglomerate like Reliance, Adani, Tata, Shapoorji, Doosan, GE and many more, thus having to our account execution of more than 70 major projects across India.

Having our own technology and manufacturing facilities ensures better control on quality. This combined with our experience over years in procurement, project and site management ensures that timelines are better managed leading to scheduled project completion. Thus we are well equipped in successfully meeting customer's high expectations in the most satisfactory manner.

Combined Stacker—Reclaimers are single unit machines which can operate in both stacking and reclaiming modes separately.



Not only are these systems economical alternatives to those which involve separate reclaimer and stacker, but they also permit a high degree of automation in both modes of operation.

Thyssenkrupp also manufactures Reversible Stacker—Reclaimers for use in cases where the layout does not permit unidirectional flow of stockyard conveyors. These machines can be offered with the conventional cross conveyor system or with retractable tripper.

Combined Stacker—Reclaimer can be used for blending/ mixing different types of coal for power plant applications.

Thyssenkrupp Industries India has a large presence in the field of Long Distance Cross Country Conveyors and Pipe Conveyors. thyssenkrupp Industries India manufactures critical components like idlers and pulleys in its manufacturing facilities



Thyssenkrupp Conveyors are manufactured from high—grade materials and proven components to give maximum reliability.

The advantages are numerous:

- Ability to negotiate 3—D curves, resulting in minimum requirement of transfer points
- Material being transported is protected from wind, rain and other environmental hazards
- Dust and air—borne emission is avoided
- Pipe Conveyors require minimum space, have stable running characteristics in all operating modes, and can be routed through narrow curves or up sharp inclines

Thyssenkrupp offers a wide range of Crushers that are designed to take on any crushing job. Different types of crushers are used for crushing different types of materials — ranging from soft coal to very hard iron ore. Each type of crusher comes in various sizes, with selection dependent on the requirement of particular capacity, feed and crushed product size. They can be offered for stationary and mobile applications.

- Product Range
- Double Roll Crushers
- Ring Hammer Will Ring Granulator
- Rotary Breakers
- Jaw Crushers



- Hammer Mills
- Cone Crushers

Thyssenkrupp manufactures a wide range of Tipplers, including Side Discharge Tipplers and Rotary Tipplers for railway wagons. These tipplers can handle wagons of various widths, heights and lengths.

Thyssenkrupp Side Discharge Tipplers, available with both mechanical and hydraulic tippling drives, are capable for 25 tips per hour or more according to new RDSO design guidelines



thyssenkrupp Single and Twin 'C' type rotary tipplers unload the wagons by turning them through 180 degrees. A hydraulic holding system secures the wagons from side and top during tipping process.

Advantages of Twin Wagon Tippler

- Wagon unloading capacities are doubled
- For a 25 Tips/ hr wagon tippler, 50 wagons will be unloaded in 1 hour, leading to a faster turn—around of Rakes

Thyssenkrupp has developed Paddle Feeder machines with a large range of capacities, which come with both electrical as well as hydraulic drives.

Thyssenkrupp Paddle Feeders ensure high reliablity, compactness in design, low power consumption, operational simplicity and ease in capacity variation thus making them ideally suitable for operation in mines and thermal power stations

Thyssenkrupp offers Apron Feeders, in different sizes and capacities; for a wide range of applications, with electro—mechanical or hydraulic drives to suit customer requirements.



Thyssenkrupp Apron Feeder applications vary from in—plant to mine installations. Apron Feeders are suitable for stationary, semi—mobile or mobile crushing installations.

Thyssenkrupp offers Apron Feeders with 'in board' as well as 'out board' chain designs. Use of special material makes these Apron Feeders more reliable, maintenance friendly and more silent with lower—power consumption.

www.thyssenkrupp.com



> TOP GEAR TRANSMISSIONS

We are pleased to introduce ourselves as a leading manufacturer of Planetary Gear Boxes & Geared Motors, Helical Gear Boxes, Parallel Shaft Helical Gear Boxes, Custom Built Gearboxes & Winch Drives.



Top Gear Transmissions have its own identity by having International Standard ISO 9001:2015 Certifications. Short delivery time & efficient after sales service are basic aspects of the organizations that Top gear Transmissions offer to the customers with the commitment of everybody in the organization to improve the level of quality of product & services. This is also recognized by the number of satisfied customers in India & abroad.

Top Gear Transmissions have its state of art machining setup & team of experienced professionals & with latest design software techniques we ensure the best quality & services to the customers. We had supplied Gear Boxes to Mining, Chemical, Cement, Steel, Plastic, Construction, Earth Moving, Material Handling, Sugar & Crushing so on...

Top Gear Transmissions Designing and Manufacturing of high precision Industrial speed Reduction Planetary Gear Boxes & Geared Motor, bevel -Planetary, Winch Drives, Custom built and Import substitute gearboxes used for Specific applications like Earth moving equipments, Hydraulic power drive, Traction Drive, PTO Drive, Mobile crane, Material Handling Equipment, Reactor Vessels, Rotary Vacuum Dryers, Agitator, Gear Box for Separation of Solid and liquid, Decanter Application etc., Our Strength is Computer Aided Design and well experienced, qualified, Technical workforce. We are regularly exporting to various countries like USA, UAE, Korea, Russia, Australia, South Africa and some developing country too.

PLANETARY GEARBOX

Our continuous R&D and experience of more than two decades have enabled us to Cater the growing needs and requirements of various industrial applications by offering a wide series of modular design planetary gearboxes, with



different Mountings (foot, flange, shaft) and different input and output configurations (Solid, Hollow, Splined, shrink disc etc.). High flexibility and customization to suit various mountings for particular applications, high efficiency, high torque to weight ratio (compact) and wide range of gear ratios have helped us to carve out our name as "Prominent Manufacturers of planetary gearboxes".

PARALLEL SHAFT / BEVEL HELICAL GEARBOX

Top Gears HG series Parallel shaft helical gearboxes and bevel helical gearboxes are designed for wide variety of applications taking into consideration various customer needs. High operating torque, reliability and long life are some of the key features which makes us renowned for delivering this product. The casing of these gearboxes is made up Graded cast Iron or M.S. Fabricated. The internal gears are made up of high Grade Nickel chrome



forged steel which under goes case hardening and Gear Teeth Profile grinding is done for its ultimate accuracy. These gear units are produced with good state of the art design, material, and manufacturing technologies for maximum efficiency and reliability with huge cost benefits. Commitment in delivering this factors consistently have resulted us to deliver this high quality product for various industrial applications from past 20 years.

WINCH DRIVES

Top Gear offers Winches in two different variants, Electric winch and hydraulic winch. This is unique product from Top Gears product basket and contributes for its largest share amongst available products. Different series of winches are available for loading capacities from 0.5



tonnes to 50 tonnes. This product finds its wide applications in various industries like all terrain trucks, mobile cranes, ship loaders and many more.

BEVEL PLANETARY DRIVES

Top gear has designed Bevel planetary drives taking into consideration its intended function to fit in given space constraint. Available in two different types of mountings, Foot and flange with different input and output configurations. Total Bevel planetary drive series is offered in 14 basic sizes.



TRACK DRIVE

Top Gear Transmission has got a wide range of Track Drives (TD) series. These drives are used in Crawler driven machines such as Hydraulic Excavators, Drilling Rigs, Bulldozers, Cranes etc. Rugged design of these track drives with taper roller bearings are available with single stage, double stage or triple stage depending upon speed ratios. With an facility of parking brake and Neutral arrangement if required.

SLEW DRIVE GEARBOX

Top Gear has designed slew drive series to enhance the rotary movement of various equipment's. Slew drive series consists of wide range of drives suitable for hydraulic and electric prime mover with inbuilt parking brakes along with a drive pinion. Unique feature of slew drive has special bearing to take care of inertial, radial and thrust loads.



www.topgeartransmission.com



TRADE AND INVESTMENT QUEENSLAND GOVT OF QUEENSLAND, AUSTRALIA

The quality and extent of Queensland resources, our reliability of supply, sustainable mining practices and supporting technology put us at the forefront of global resource supply.



Queensland is home to more than 800 mining equipment, technology and services (METS) companies, which provide innovative, technologically advanced and/or distinctive goods and services to the mining industry.

Queensland is recognised globally as a leading destination for mining and resources investment and as Australia's gateway to Asian markets.

Queensland's abundant natural resources include more than major coal deposits, as well as metals, phosphate rock, oil shale and minerals.

We are the world's second-largest exporter of seaborne metallurgical coal, with a long history of supplying metallurgical and thermal coal and coal seam gas to global markets.

TIQ helps investors and trade partners harness opportunities by opening doors to local industry, economic development organisations, and local and state government agencies.

India represents a large potential market for Queensland METS companies.

Queensland is home to more than 800 mining equipment, technology and services (METS) companies, which provide innovative, technologically advanced and/or distinctive goods and services to the mining industry.





With high-quality resources, reliable supply, sustainable mining practices, and the latest in supporting technology, Queensland is at the forefront of global resource supply.

www.tiq.qld.gov.au



> TRITORC EQUIPMENTS PVT. LTD. TRITORC

We are an O.E.M. of Maintenance, Repair & Overhaul Tools and Equipment.

We specialize in the below verticals:

- Controlled Bolting Solutions
- In Situ Machining
- Tube Tools
- Flange Management Tools

Industry Essential Tools such as the following are manufactured inhouse amongst many more:

- Hydraulic Torque Wrenches, Hydraulic Bolt Tensioners, and other bolting tools
- Pipe Cold Cutting and Flange Facing Machines
- Tube Installation, Removal, and Cleaning Tools and Equipment

We provide:

- Product Sales
- Drv and Wet Rentals
- Calibration Services
- Customised Product Design
- Specialised Engineering Services

Our Clientele hails from a vast range of sectors such as:

- Wind, Thermal, and Nuclear Power Generation
- Mining
- Infrastructure (Bolted Structures)
- Oil & Gas
- Cement Mills
- Fertiliser Plants
- Steel Plants

We possess the ability to design and manufacture our own tools and equipment at our facilities in India

- Pune Manufacturing Plant
- Ambernath Tube Tools Assembly plant

We have a worldwide Presence with Offices in the UAE and the USA with a strong distributor network built globally

TSL SERIES SQUARE DRIVE HYDRAULIC TORQUE WRENCHES

Description:

The Hydraulic Torque Wrenches with Square Drives made by Tritorc are reliable, provide optimum torqueing power, and are designed to exert torque on the toughest nuts with the following features:

- Vacuum heat-treated components ensure long-lasting use of moving parts. •
- The tool has an aircraft-grade aluminium alloy main body construction making it lightweight and easy to move around, allowing it to fit the applications.
- A removable sheet metal chart with laser engraved torque rating in Nm and Ft-Lbs. makes reference during operation easy.
- The hydraulic hose line coupler features a swiveling arm with (360° X 180°) a large degree of rotation even if the hydraulic line is at full pressure.
- The reaction boot is available in multiple colors and the hard-anodized tool body & reaction arm is scratch-proof.
- There is a provision for a lifting handle to manually transport the tool and Eye Bolts are available for bigger tools.

Technical specifications:

Minimum Torque: 112 Nm (81 Ft. Lbs.)

Maximum Torque: 69427 Nm (50300 Ft. Lbs.)

Minimum Weight: 1.8 Kgs (3.9 Ft. Lbs.)

Maximum Weight: 65 Kgs (143 Ft. Lbs.)

Minimum Pressure: 70 Bar (1000 PSI)

Maximum Pressure: 700 Bar (10000 PSI)

Sizes of Square Drives available: 19.05 mm to 63.5 mm (0.75 Inch to 2.50 Inch)

Number of Tool Models: 10

THL SERIES SQUARE DRIVE HYDRAULIC TORQUE WRENCHES

Description:

Constrained spaces with high torqueing requirements call for Hydraulic Torque Wrenches which have a Lower Profile with Tritorc's Hex Drive THL series; you can harness a tool with the following advantages:

- High nickel alloy steel internal components ensure long-lasting moving parts.
- The rod engages in the first stroke thus removing any backlash.
- The Hydraulic Torque Wrenches use an Alloy steel high-strength hydraulic • cylinder designed to exert torque as per the application.
- The ratchet and pawl have finer teeth for better engagement and torquing.
- The quick connectors for the hydraulic lines are leak-resistant for safety even under pressure. This is an industry-standard feature of the Tritorc hydraulic Torque wrench.
- The low profile of the Hex-type torque wrench allows the tool to fit the narrowest gaps.

Technical Specification:

Minimum Torque: 293 Nm (214 Ft. Lbs.)

Maximum Torque: 53512 Nm (38875 Ft. Lbs.) Drive Unit Minimum Weight: 1 Kgs (2.2 Lbs.) Drive Unit Maximum Weight: 11.4 Kgs (25.3 Lbs.)

Ratchet Unit Minimum Weight: 1.6 Kgs (3.5 Lbs.)

Ratchet Unit Maximum Weight: 30 Kgs (66 Lbs.)

Maximum Pressure: 70 Bar (1000 PSI)

Minimum Pressure: 700 Bar (10000 PSI)

Bolt Sizes Serviced Range from: M 19 to M 175

Number of Tool Models: 5

BTL SERIES TOP SIDE HYDRAULIC BOLT TENSIONER

Description:

A Torsion-free bolt elongation operation ensures that a gall-damage-free workspace is maintained. With Tritorc's Top Side Hydraulic Bolt Tensioners (BTL) one can take on heavy-duty tasks of bolt tensioning:

- Purely axial, tensile loading ensures no torsional stresses are introduced as they are by Torque wrenches.
- Detachable and rotational bridge simplifies bolt tensioner positionina.
- The applied load is controlled very accurately because it is directly proportional to the pressure applied to the tensioner.
- High-strength puller bars and reliable load cells allow the top-side bolt tensioners to be used for various stud sizes.

	Metric	Imperial
Minimum Tensioning Load:	234.4 KN	
Maximum Tensioning Load:	5406 KN	
The number of Tool Models:	9	
Minimum Tool Weight:	3 Kgs	6.61 Lbs
Maximum Tool Weight:	120 Kgs	264.55 Lbs
Maximum Rated Pressure:	1500 Bar	21555 PSI

TBTW BATTERY OPERATED TORQUE WRENCH

Description:

Battery or cordless Torque Wrenches are portable, convenient, and used when other power sources are not practical or possible. They are ideal for industrial, workshop environments, or field service crews. A wide range of capacities and styles are available. A wide range of accessories is available such as reaction arms, rated sockets, and more.

Technical Features:

- Digital Display
- Adjustable Torque from 1N.m to 4000 Nm
- Accuracy +/- 5% of reading
- Repeated Accuracy ±2%
- Lithium Ion Battery
- Voltage: 18V
- Current: 5.2 Ah

ETW SERIES ELECTRICAL TORQUE WRENCH

Description:

TRITORC Electric Torque Wrench Series is a new generation of Electric Torque Wrenches used for the installation or removal of heavy-duty fasteners where accuracy, power, and safety are required.

With digital torque settings, the user is able to increase and decrease the torque value easily.

Specifications:

- Lightweight & suitable for structural & equipment bolting.
- Quick-adjust Torque Settings.
- Equal Power in Forward & Reverse.
- Available Torque ranges from 100 Nm to 3500 Nm.
- Sizes available: M10 to M42
- Weight range: 4 Kgs to 15 Kgs

TVTR SERIES MANUAL TORQUE WRENCH (RATCHETING TYPE): Description:

- Extremely strong construction.
- Mechanism pivots on the square drive.

















- Push-through, user-replaceable square drive. Hand-wearing, heavy-duty mechanism.
- Guaranteed accuracy of +/-3% throughout the torque range.
- Progressive torque build-up to the selected setting is easily detected by sight, sound, and feel.
- Large, clear scale marking in Nm, Kg/m, Lb./in, Lb./ft. Head no wider than a typical socket or, in the case of the ratcheting version, no bigger than a typical ratchet handle head.
- Length calculated to enable a controlled effort at all torque settings essential in all torque-limiting situations.
- Secure and rapid torque setting adjustment.
- We also offer Open Jaw Fixed Head Type, Bi-Hex Ring Type, and Preset Torque Production Type.

Specifications:

- Torque range: 2.5 Nm to 2700 Nm
- Square Drive: 3/8",1/2",3/4",1"
- Weight range: 1 kg to 20 kgs

www.tritorc.com



UNITECH PROJECT

Unitech Project is an ISO 9001:2015 certified company where we constantly strive for quality at an economical price for all of our products. We have an exciting array of

products which are deemed for customer satisfaction. We operate from our state-of – art factory in India, where all our products are manufactured with utmost care.

We are manufacturer & exporter of all types of belt conveyor products and mining equipments which are used in the conveyor systems in Thermal Power Plants, Steel Plants, Cement Plants, Mining Industries etc.

IMPACT BED

Impact Bed is installing in material loading point of the belt conveyor system for absorbed heavy impact load to prevent belt damage and reduce material spillage. Manufacturing as per customer's requirements.

Features:

- Absorb heavy impact load
- Long lasting
- Reduce material spillage
- Lower maintenance cost
- Corrosion resistance body

SELF ALIGNING CONVEYOR IDLERS

Self Aligning Conveyor Idlers are specially designed with exciting features, which are used on material conveying side of the belt conveyor system for auto controlling the belt sway and prevent belt damage and material spillage. Available all standard rubber belt widths from (600-2000) mm

Features:

- Exceptional performance
- No material spillage
- No belt sway
- Long lasting wear resistant rubber lagging idlers



- Auto sway control self-lubricated double bearings mechanism
- Corrosion resistance body
- Lower maintenance cost
- Easy to install

SELF ALIGNING RETURN IDLERS

Self Aligning Return Idlers are used to correct belt misalignment on the return side of the belt conveyor system. Available all standard rubber belt widths from (600-2000) mm

Features:

- Exceptional performance
- No material spillage
- No belt sway
- Long lasting wear resistant rubber lagging idlers
- Auto sway control self-lubricated double bearings mechanism .
- Corrosion resistance body
- Lower maintenance cost
- Easy to install

TROUGH TRACKERS

Trough Trackers is used on material conveying side of the belt conveyor system for taking heavy load and auto controlling the belt sway to prevent the belt damage. Available all standard rubber belt widths from (600-2000) mm

Features:

- Exceptional performance
- No material spillage
- No belt swav
- . Long lasting wear resistant rubber lagging roller
- Auto sway control self-lubricated double bearings mechanism
- Corrosion resistance body
- Lower maintenance cost
- Easy to install

RETURN TRACKERS

Return Trackers are used to auto align the misaligned belt more effectively on the return side of the belt conveyor system. This central pivoting system and taper edge, works as a steering mechanism and helps to track the belt to keep it running true constantly. Available all standard rubber belt widths from (600-2000) mm..

Features:

- Exceptional performance
- No material spillage .
- No belt sway
- Long lasting wear resistant rubber lagging roller
- Auto sway control self-lubricated double bearings mechanism
- Corrosion resistance body
- Lower maintenance cost
- Easy to install

TROUGH CONVEYOR IDLERS

Trough Conveyor Idlers helps to ensure the load carrying capacity of the conveyor belt along the entire length of the belt. Trough Conveyor Idlers are available in 20°, 30°, 35° and 45° trough angle.

Features:

- Exceptional performance
- Corrosion resistance body
- Lower maintenance cost
- Easy to install

www.unitechproject.com



> UNIVERSAL ELECTRICALS & ELECTRONICS

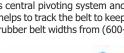
Founded in 2016 in KG Halli, Bangalore, UNIVERSAL ELECTRICALS & ELECTRONICS its foot as an Electronics R&D and Mining Safety equipment trading and services company.



Over the years, the company has earned a reputation for excellence and professionalism for continuously striving to meet - and even exceed standards which set the climate for a sustainable business relationship with its clients.

As an E&E solution specialist, we offer Mining Safety equipment products ranging from AFDSS, Audio Visual Alarm, Seat Belt Alarm, Body Lifting Alarm,













Wiring Harness, Auto Dipper, Anti-Tilt Warning Device, Rear View Camera System, Driver Fatigue Warning Device, and other Safety equipment's. The company also offers control products such as variable frequency driver, work Lamps, Proximity system based on LIDAR, Ultrasonic device etc. We also engage in safety product installations, testing and commissioning, preventive maintenance, automation, and energy saving solutions. Our commitment is to deliver outstanding results that will exceed your expectations.

The company Collaborate with some of the biggest manufacturers and distributors in the E&E industry to ensure high quality products. Robu.in, Hilux, Stonkam, Xiamen, Autostar Electronics co Ltd haonai Industrial co Ltd, Guangzhou leisure auto safety technology ltd, Roots india pvt Ltd, are the trusted brands that we carry. Moreover, we continuously look for new products and enhance our services to serve our customers better. We look forward to providing our services and products to your company. Rest assured that we live by our service commitment: Delivering Results, Exceeding Expectations.

AUDIO VISUAL ALARM

Audio Visual Alarm is used for the purpose of reversing with the guidance of audible and visual indication. In open cast mines while reversing of equipment especially; dumpers and tippers, audio visual alarm plays significant role in warning pedestrians.



DUMP BODY RAISED WARNING SYSTEM

The Tipper Body Raised Warning system consists of a small ECU that is mounted under the dash in the driver's cab. There is a dash mounted push

button switch with built-in VOICE CONTROLLER and LED that allows the driver to activate the system and give them feedback on body raised position in human voice



SEAT BELT VOICE ALARM SYSTEM

A seat belt is a safety device used to secure the operator of a vehicle against a collision or a sudden stop. A seat belt functions to reduce causality or serious injury.

It is provided with covered spring-loader Reel and an Inertial Locking mechanism.

REAR VIEW DISPLAY SYSTEM

A Rear-view Camera system is intended to aid the driver while reversing and avoid collision with any obstacle, vehicle, or human being.

AUTO DIPPER

automatically shifts the headlight beam of Vehicles from high to low according to the traffic conditions. Also, as per the road and traffic requirements, the high beam is then automatically restored.

PROXIMITY RADAR SYSTEM

77GHz Radar Detection System is built on millimeter wave technology allowing for good performance in all weathers. It's highly helpful for obstacle detection when reverse or park and widely used in large vehicles such as trucks, construction machinery, and agricultural machine

BACKUP ALARM (SWING ALARM)

- Penetrating, long range alarm sound
- Integrated bracket for universal mounting
- Reverse and over voltage protection
- Multivolt for a wide range of vehicles

BATTERY CUT-OFF SWITCH

Lockout-tagout is a safety procedure to ensure that dangerous equipment is properly shut off and not started up again before maintenance or servicing work is completed. It requires hazardous power sources to be "isolated and rendered inoperative" before any repair procedure is started.

DRIVER FATIGUE MONITERING SYSTEM

Face detection and pupil identification technology, recognize driving fatigue status. With GPS We have both Monitoring and Warning Systems Depending upon application.

LED BEACON LAMP

Amber LED Warning Beacon Lamp. Operate at 12-110V DC less than 500mA Consumption. Ideal for trucks and all other heavy vehicles

60W LED LAMP

- White LED 60Watt
- Colour Temprature: 5500-6500K
- Effective Lumen:3500LM
- Operating Range:12-48V DC

100W LED LAMP

- White LED 100Watt
- Colour Temprature: 5700-6500K
- Effective Lumen: 7000LM
- Operating Range:12-48V DC





Auto Fire Detection

& Suppession System Single Zone



Other LED LAMP

Auto Fire Detection Suppessio.. Dual Zone





Other LEDWork Lamp LAMP

Other LED Work LAMP & Parking Lamp

LED BEACON LAMP

Ideal for Forklifts and other Vehicles with low power consumption. High quality Amber Light



> VATS FILTRATION TECHNOLOGIES PVT. LTD.

Vats filtration, an ISO 9001-2015 certified company has been serving a wide customer base and providing technoeconomic filtration solutions. We believe that our expertise ® in this particular field should be made available to our $\ensuremath{\,^{\rm FILTRATION}}$



customers in order to assist them in their quest for manufacturing excellence. Accordingly, we routinely provide complete technical service and creative solutions to specific filtration problems, apart from supplying excellent quality filter cartridges and systems.

We have more than a two decade of experience in the filter media manufacturing and have successfully provided improved techno-economic solutions to our happy customers.

We offer following solutions:

- · Supply of new equipment in line with our customer's requirements
- Oil Purification Annual Contract litre per year basis
- Oil Purification Annual Contract with dedicated equipment 24x365 quality commitment
- Oil Flushing For new commissioned equipment for desired degree of cleanliness (NAS standard)
- We also do test rig flushing applications for various companies like Bonfiglioli, Power build, John Deere, Escorts, TAFE, Mahindra & Mahindra, Rexroth etc. per component basis
- We are having annual service contracts with esteemed Organizations like Reliance, Bharat forge, Carraro India, Mahagenco power plants etc.
- We have executed periodic service contracts with NTPC Plant, TATA steel, JSW etc.































We are working with various cement plants as well like Ultratech, ACC, Shree cement, JSW Cement etc.

We are willing to work with your esteemed organization for such requirements.

FLUENT SENTINA (OCF)

Fluent Sentina (Online Continuous Filtration) is the ultimate solution for Mobile Hydraulic equipment like Excavator, Dumper, Dozer, Tipper, Loader, Grader, UDL, HDL etc.

Continuously maintains desired NAS Oil quality during field operation.

Achieve Highest productivity with 100% UP-Time.

Key Features

- · Easy to install on equipment
- Compact in Size
- Operates with existing System Pressure
- G2D Cartridge for long life
- Maintains Oil Quality better than barrel fresh oil (< NAS 8), through-out the operation

Experience the benefits of Ultra Clean Oil

- Almost 100% Hydraulic Uptime
- Remarkable reduction in Wear & Tear
- Substantial Increase in Component Life
- Multifold Increase in Oil Life
- At the time of Oil Replacement entire oil in the equipment is of NAS 8 or better.

www.vatsfilters.com

> VEV VENTURES



Theme of Operation

VEV VENTURES was established in the year 2007 by a professional turned entrepreneur V.KARTHIKEYAN who has now 40 years of experience in the field of Mining and Construction equipment, spread over Design & Development, Sales & Marketing, Product Support and

Country brand management with the leaders in the industry like Caterpillar. Hitachi, NPK, Furukawa, Sumitomo to name the few.

NPK, Japan, a hundred-year-old company specialised in design and manufacture of excavator attachments like Rock Breaker appointed Vev Ventures as their Pan-India distributor. Subsequently, Sumitomo Heavy Machinery (Excavators) and Eimco-Elecon (FE Wheel loaders) appointed Vev Ventures as their dealer for TN and Kerala.

Currently, Vev Ventures is representing manufacturers of Pedestal Mounted Rock Breakers from the USA and China. With 13 years' experience in this segment, Vev Ventures can be relied upon selection, supply, installation, commissioning and Product support of pedestal mounted breakers used predominantly in underground mining.



Vev Ventures has supplied and supported Pedestal breakers in the UG mines of M/s.Hindustan Copper Limited and M/s.Uranium Corporation of India Ltd. and the equipment are performing to the satisfaction of the customers for more than a decade now.

Pedestal mounted rock breaker installed in underground mines to break oversized boulders to make them pass through the grizzly.



Pedestal Mounted Rock Breaker

www.vevventures.com



Vinni Chemical is an IATF 16949 certified manufacturer of custom labelling in customer branding. Vinni Chemicals Pvt Ltd is a pioneer in the field of Brake fluids, Radiator coolants & Performance enhancing additives, working as a solutions provider for many reputed brands both within India and abroad.



Established in 1986, Vinni Chemicals was focused on

research and development for nearly a decade before it forayed into manufacturing coolants and fluids in 1998, adding a string of high-profile customers in short period of time.

We are partnered with global giant AFTON CHEMICALS USA to blend their Performance Enhancer Additive in India and pack in smaller SKU for various OEM and Aftermarket buyers.

RADIATOR COOLANT

- Antifreeze Radiator Coolant
- Water Based Coolants
- Ready to Use

PERFORMANCE ENHANCING ADDITIVE

- Fuel additive for Diesel & Petrol engines
- Reduces emission (C & NOx)
- Improves fuel economy
- Corrosion protection
- Increases Fuel Filter Life

- DOT 3
- DOT4
- DOT 5.1

> VP SYNERGIC WELD SOLUTIONS PVT. LTD.

We "VP SYNERGIC WELD SOLUTIONS PVT LTD", Chennai, Tamilnadu-India, are in the business of Design, Manufacture, Supply and Installation of Welding & Cutting Automation Systems.



We aim to become an Innovative & Best solution provider through automation in the field of Welding & Cutting and it was the prime factor in establishing "VP SYNERGIC WELD SOLUTIONS PVT LTD". We are Innovative Professionals striving hard to give very high-quality Automated solution to create a comfortable, functional yet efficient work environment with everlasting client relationship.

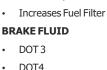
Our activities are mainly are in Welding, Cutting with allied Material Handling automation on turnkey basis.

"VP SYNERGIC" Core team possess very high level of expertise and exposure in the field of Cutting and Welding automation with adequate application knowledge on various processes of manufacturing including Cutting and Welding technologies, Metallurgy and related pre and post weld heat treatment, Tooling and Fixture devices to adapt simple, hard and robotic automations.

This brand-new company with highly experienced personnel is guite eager to extend our immaculate and wholesome technical services to our valued clienteles. We strive to support our esteemed customers with high quality and reliability, economical price and on time delivery. "VP SYNERGIC" caters to wide spectrum of industries in Heavy Engineering Industry, Construction, Automotive, Pipes, Pumps, Valves, Power & Energy, Oil & Gas, Defence, Marine, Aerospace, Pre-Engineered Buildings, Steel, Cement, Etc.

VP Synergic Weld solutions Robotic Laser Cutting System is a type of automated cutting machine that uses a laser beam to cut materials. It is equipped with a robot arm that is capable of performing precise and efficient cutting operations. The robot arm is controlled by a robotic controller, allowing for automated cutting operations.







The laser beam used in the system is highly precise, providing clean and accurate cuts. The robotic laser cutting system is suitable for cutting a wide range of materials, including metals, plastics, and wood. The system is widely used in industries such as aerospace, automotive, and electronics manufacturing, providing a flexible and cost-effective solution for cutting operations.

The use of our robotic laser cutting system SPM results in improved cutting accuracy, increased production speed, and reduced labour costs compared to traditional manual cutting methods.

VP Synergic Weld solutions Cobot Welding Machine is a type of collaborative robot designed for welding applications. It is equipped with advanced technology such as sensors and machine learning algorithms, which allow it to work safely and effectively alongside human operators.



The compact design of our Cobot welding machines makes them highly flexible and easy to integrate into existing production lines. These machines are capable of performing various welding processes including MIG & TIG welding, making them suitable for a wide range of applications.

Our Cobot welding machines are known for their high accuracy, consistency, and repeatability, which result in improved quality and reduced costs compared to traditional manual welding methods.

They also provide a safer and more ergonomic working environment for operators, reducing the risk of injury and fatigue. Our Cobot welding machines are ideal for small to medium-sized manufacturing companies looking to automate their welding processes.

VP Synergic Weld solutions Gantry CNC Plasma/Flame Cutting Machine is a type of cutting machine that uses a combination of plasma and flame cutting technologies for cutting metal sheets and plates. It is equipped with a computer numerical control (CNC) system that provides precision and accuracy in cutting operations.



The gantry design of the machine provides stability and supports large cutting areas, making it ideal for cutting metal sheets of varying sizes. The plasma cutting technology uses high-heat plasma to cut metal, instead of gas flame used in the flame cutting technology to cut metal.

Our machine can be widely used for industries such as shipbuilding, construction, and metal fabrication, providing efficient and cost-effective cutting solutions.

VP Synergic Weld solutions Multi Torch Flame Cutting Machine is a type of cutting machine designed to cut thick metal plates and sheets with precision and efficiency. It is equipped with multiple torches that can be controlled by a computer numerical control (CNC) system, allowing for automated and precise straight cutting operations.



The multi-torch design enables the machine to handle large cutting tasks, making it ideal for cutting metal plates of varying sizes and thicknesses. The machine can also be used for straight cuts, providing versatility and flexibility for a wide range of cutting applications.

Our Multi Torch Flame Cutting Machines are widely used in industries such as shipbuilding, construction, and metal fabrication, providing efficient and cost-effective cutting solutions. The use of our Multi Torch Flame Cutting Machine results in high quality, consistent cuts, reducing the time and cost associated with manual cutting methods.

VP Synergic Weld solutions PEB Beam Welding Machine is a specialized machine used for welding large steel beams used in the construction of Pre-Engineered Building (PEB) structures. This machine is equipped with a welding system that can handle large welding tasks with precision and efficiency.



Our PEB Beam Welding Machine can also handle multiple welding processes such as MIG and Submerged Arc Welding, making it a versatile solution for welding PEB beams. Our machine is designed with a fixed torch and moving job system, which allows for easy movement and positioning of the welding gun, ensuring accurate and efficient welding.

The use of our PEB Beam Welding Machine results in high quality, consistent welding, reducing the time and cost associated with manual welding methods. This machine can be widely used in the construction of large-scale PEB structures such as warehouses, factories, and commercial buildings.

VP Synergic Weld solutions Robotic Hydraulic Cylinder Welding Machine is a specialized welding machine used for welding hydraulic cylinders. It is equipped with a robot arm that is capable of performing precise



and efficient welding operations.

The robot arm is controlled by a robotic control system, allowing for automated welding operations. Our machine is designed for hydraulic cylinder welding applications, ensuring high accuracy and consistency in welding. The use of a robotic welding machine reduces the time and cost associated with manual welding methods, providing an efficient and cost-effective solution for hydraulic cylinder welding.

Our Robotic Hydraulic Cylinder Welding Machine is widely used in industries such as construction equipment, agriculture, and mining, providing reliable and high-quality welding solutions for hydraulic cylinder production. The use of a robotic welding machine also provides a safer and more ergonomic working environment for operators, reducing the risk of injury and fatigue.

www.synergicweldsolutions.com



> V-TORK CONTROLS

V-Tork Controls, an illustrious ISO 9001:2015 certified organization, emerged in 2008 as a selfsufficient Indian enterprise under the leadership



of Mr. Rajesh.K, a seasoned technocrat and the visionary Founder & CEO. With his extensive background in foundry and passion for valve manufacturing, V-Tork embarked on a mission to become the largest manufacturer of Knife Gate valves in the industry. Their sprawling factory in Coimbatore spans an impressive 3.5 acres, reflecting their commitment to excellence.

At V-Tork, customer focus, excellence, innovation, and quality form the bedrock of their values, instilling trust and making them a reliable brand in the valve industry. Their engineering prowess allows them to offer value-added solutions to customers worldwide, solidifying their position as a global supplier and technological frontrunner.

V-Tork's expertise lies in supplying various industries with technically competitive products. They have achieved significant breakthroughs by tailoring their innovative valve technology to meet the stringent requirements of market segments such as Power, Metal & Mining, Water & Waste Water, Cement, Paper & Pulp, Chemicals and others. Their products have found homes in numerous industries across India, as well as in international markets more than 12 plus countries.

With a comprehensive range of Knife Gate valves, ranging from 50 NB to 2000 NB, available in Uni-Directional and Bi-Directional variants, V-Tork ensures they meet the growing market demands for specific applications. Their Research & Development department, manned by experienced designers, is adept at creating custom products that address unique customer needs.

In addition to their flagship Knife Gate valves, V-Tork boasts a diverse product portfolio catering to a wide range of industries and applications. This includes Ball Valves, Butterfly Valves, and Pinch Valves, each designed and manufactured with the same level of precision and expertise. V-Tork products excel in handling abrasive and erosive slurries, sludge, viscous media, and high-temperature dirty gases, making them indispensable in critical industrial processes.

The trust bestowed upon V-Tork is further reinforced by their extensive list of approvals from renowned entities such as NTPC, BHEL, SAIL, Damodar Valley Corporation, HPCL, IOCL, ISRO and several water boards & other PSU's. These approvals speak volumes about V-Tork's commitment to quality and reliability.

In summary, V-Tork Controls is a pioneering force in the valve manufacturing industry, driven by their unwavering dedication to customer satisfaction, innovation, and superior product quality. Through their cutting-edge technology and a wide range of offerings, they continue to redefine the standards of excellence, setting the stage for a promising future.

V-TORK® B-720, a rugged single-piece Bi-directional Knife Gate Valve that reigns supreme! With its full port design and replaceable metal-reinforced elastomer sleeves, it guarantees a 100% tight shut off against the most challenging slurries. Embracing the concept of dual seating, it effortlessly enables Bi-directional flow and isolation. This valve fearlessly tackles abrasive high dense slurries, its robust rubber sleeves built to withstand the harshest of heavy slurries. Turbulence is but a myth in its presence, as unobstructed flow prevails and pressures gently drop across its resolute frame. From 2" to 60" in size, it caters to all needs, and with pressure ratings ranging from 300 PSI for sizes 2"-12" to 75 PSI for sizes 26"-60", it



adapts flawlessly. A marvel of versatility, it can be operated with a hand wheel,

chain wheel, bevel gear, hydraulic cylinder, pneumatic cylinder, or electrical actuator. In sum, a true triumph of engineering excellence!

V-TORK® SLUGATE™ B-540 Slurry Knife Edge Gate Valve is meticulously engineered to conquer harsh environments, defying the abrasive and corrosive nature of slurry media. It showcases a stainless steel gate and removable sleeves on either side, ensuring a full port design and an impeccable bidirectional bubble-tight seal. This valve guarantees trouble-free service and boasts remarkable wear resistance. Its versatility shines through as it effortlessly handles wet or dry services, with its rubber sleeves standing strong against the inherent harshness of abrasive duty. Maintenance is a breeze with easily replaceable components, making it costeffective. From 2" to 60" in size, with pressure ratings of 150 PSI for sizes 2" to 24" and 75 PSI for sizes 26" to 60", this valve offers ultimate flexibility. It can be operated by hand wheel, chain wheel, bevel gear, hydraulic cylinder, pneumatic cylinder, or electrical actuator.



The V-TORK® B-450 Knife Gate Valve, meticulously crafted for abrasive and corrosive applications, boasts a robust cast polyurethane seal within its two-piece body casing. This seal, resistant to high abrasion, ensures a secure and trouble-free service with tight sealing. The valve's intelligent design allows for self-flushing, preventing sedimentation within the seating area. With a full port design, it minimizes pressure drop, optimizing efficiency. Notably, the urethane seals can be conveniently replaced on-site, offering ease of maintenance and costeffectiveness. In essence, this valve epitomizes durability,

reliability, and practicality in the face of demanding conditions.



From 2" to 24" in size, with pressure ratings of class #150. This valve offers ultimate flexibility.

V-TORK® B-360, is two-piece heavy-duty body design adheres to the esteemed MSS-SP-81 standards, ensuring precise face-toface dimensions. This valve boasts a peripheral seal design, enabling bubble-tight shut-off even in the most demanding applications. With a full stroke gate guide, it achieves impeccable shut-off performance. The full bore design minimizes pressure drop and turbulence, safeguarding components from wear and preventing solids deposition. Truly versatile, it can be mounted in both flow directions. This valve offers unique features, such as polyurethane bore liner options for severe service applications and a shearing gate tip design that cuts through slurry materials, ensuring zero leakage. The peripheral seal design excels in high



abrasive and slurry media. This valve is ready for any challenge. A testament to ingenuity and durability!

V-TORK® B-900, a robust two-piece bi-directional Knife Gate Valve, boasts a full port design that ensures zero leakage through a unique transverse seal concept. Its ingenious shearing gate design effortlessly sidesteps any obstructions in the flowing media. With a resilient seat guiding the gate perimeter, mechanically retained, this valve achieves impeccable zero leakage isolation, regardless of the flow direction. From 2" to 24" in size, it caters to various needs, and with an ASME B16.34 Class 150 pressure/temperature rating, it conquers challenges with ease. This valve's versatility shines as it can be operated using hand wheels, chain wheels,



bevel gears, hydraulic cylinders, pneumatic cylinders, or electrical actuators. Prepare to be captivated by its exceptional performance and reliability!

V-TORK® B-810, a formidable single-piece marvel with a heavy-duty, rugged body designed explicitly for high-pressure & high dense slurry applications. This knife gate valve boasts a full port and two replaceable metal-reinforced elastomer sleeves, ensuring an impeccable 100% tight shut-off against even the most obstinate slurries. With its ingenious dual seating concepts, it facilitates bi-directional flow and isolation, guaranteeing optimal performance. Suitable for wet services,



its robust rubber sleeves fearlessly tackle tough slurries. Bid farewell to turbulence as unobstructed flow eliminates pressure drop across the valve. With a size range from 3" to 24" and an ASME B16.34 Class #300 pressure/temperature rating, it reigns supreme. Harness its power effortlessly with hand wheels, chain wheels, bevel gears, hydraulic cylinders, pneumatic cylinders, or electrical actuators. Prepare to be enthralled by its unwavering might and unmatched performance!

V-TORK's exquisite ball valves find wide application in situations demanding impeccable shut-off. Our meticulously crafted ball valves are available in various engineered designs and models to meet industry requirements.

V-Tork have S series encompasses Screwed End Ball Valves, Forged Steel Ball Valves, and Butt Welded End Ball Valves. Ranging from 15mm to 300mm (1/2" to 12") in size, with options for Class #150, Class #300, or Class #1500 pressure



ratings, these valves can be operated manually, pneumatically, or electrically. They adhere to design standards like BS 5351 and ISO 17292.

The F-Series showcases our exceptional Floating Ball Valves, sharing similar specifications to the S-Series in terms of size, materials, pressure ratings, operation, design, and testing standards.

Lastly, our 3M Series offers 3-way ball valves ranging from 50mm to 250mm (2" to 10") in size, constructed with ASTM A216 Gr. WCB or ASTM A351 Gr. CF8/CF8M materials. Designed for Class #150 or Class #300 pressure ratings, these valves can be operated manually, pneumatically, or electrically. As per customer requirements, they adhere to non-standard standards.

V-TORK's ball valves combine exquisite craftsmanship with industry specifications, ensuring reliable shut-off and flexibility for diverse applications.

V-TORK's extraordinary C Series Concentric Butterfly valves amalgamate structural stability, lightweight design, and effortless operation. These valves flaunt integrally molded, replaceable seals, ensuring impeccable seating and complete isolation from fluid media. Gaskets become superfluous as the body liner seamlessly seals with pipe flanges.



Our exceptional 2X Series Double Eccentric Butterfly Valves conform to international standards, proffering diminished friction, enhanced reliability, and exceptional longevity. Resilient or metal seats, combined with alloy steel sealing faces, embody corrosion resistance, elevated temperature endurance, and remarkable longevity. Two-way sealing allows installation in any direction, adapting flexibly to diverse working conditions.

The innovative 3X Series elevates engineering with its triple-eccentric design. This ingenious configuration places the disc ahead of the stem rotation access, laterally offsets the stem from the valve body's centerline, and moves the seating cone away from the valve centerline. The outcome is a valve that closes sans friction, eradicating wear and ensuring an impervious, leakagefree closure. V-TORK valves unwaveringly deliver reliable performance, even during exigencies like emergency shutdowns.

www.vtorkcontrols.com



> YCUBE ENGINEERED SOLUTIONS PVT LTD. (YES VALVES) **DEZURIK INC**

YES VALVE- a Brand by YCUBE is striving to create all in one flow control solutions to serve with smooth process control for everyone. Our quality control systems and designs are certified as per ISO 9001:2015.

YES Valves has established its position among the top quality manufacturers in its product range. We are offering 100 of different types of valves, such as stop valves, check valves, bellow valves, safety valve, butterfly valves, strainers, ball valves. YES Valves is today considered a pioneer in technology for its valves Y CUBF



and fittings specially in the domestic market.

DEZURIK's high-quality products and team of experts make us a global leader in manufacturing valves for water treatment, sewage treatment, water

distribution, pulp and paper, oil and gas downstream and petrochemical, mining, power, hydropower dams, and Iron-ore process industries valves. Customers worldwide have come to trust DeZURIK, for its design innovation, quality, and service.



RESILIENT SEAT GATE VALVES

come with an elastomer-lined wedge. They are specially used for drinking water supply, wastewater, and irrigation. Valves are of gland-less design and thus 100% leakproof. Low operating torque makes the valves easy to operate. These valves have a longer life and are maintenance - free too. They can be buried directly under the ground without constructing any valve chamber. The waterway is clear, unobstructed, and free from pockets to allow smooth flow of water.



Valves have corrosion-resistant fusion bonded epoxy

coated body and bonnet ..

ECCENTRIC DOUBLE FLANGED BUTTERFLY VALVE

The double flanged body pattern ensures precise installation in pipeline and can be used as an end to the line valve. The unique feature of this valve is its adaptability for lined pipes, due to negligible disc protrusion beyond the body laying length. Suitable for easy installation between flanges.



- MOC: Ductile Iron (DN600-2400)/above larger sizes available
- CENTRIC Double Flanged Butterfly Valve Size: 50-600 NB
- ECCENTRIC Double Flanged Butterfly Valve Size: 600-2400 NB
- Pressure rating PN 6 to PN 16 for Size 50 to 2400 mm NB

SINGLE CHAMBER, DOUBLE ORIFICE, TRIPLE FUNCTION AIR VALVE

We offer an excellent range of air release valves for most applications. We have single, double, and triple function versions in Cast Iron/ Ductile Iron GGG50 with Stainless Steel Trim suitable for both clean water and Irrigation applications.

- Most compact design and very few parts, completely, tamper-proof.
- Valve body is of Ductile Iron/ Cast Iron
- Rating: PN 1.6 and PN 10

DUAL PLATE CHECK CHECK VALVE/NON-RETURN VALVE (NRV)

allows a medium to flow in only one direction. Non return valve is mainly used to restrict the flow of a fluid in reverse direction so that a fluid flows in the right direction. Dual plate check valve is an all-purpose Non return valve that is lighter in weight, smaller in size compared to a conventional swing check valve. The Dual Plate Check Valve employs two spring-loaded plates hinged on a central hinge pin. With decreasing flow, the plates close by spring action. Proper alignment while installing is vital;

misalignment can leave the plates hanging only to be slam shut by the reverse flow thus adding to the surge.

- Design & mfg. std. API594, Size: 50 600mm
- Pressure rating PN 10 and PN 16
- Inspection & testing std: EN12266.1/API598

DeZURIK

Eccentric Plug Valves are used to handle clean and dirty liquids, sludge, slurries, and gases. They can be used for either isolation/shutoff or throttling/control services.

Eccentric Plug Valves feature a rectangular port design that provides wide

tolerance seating geometry for lasting superior shutoff. The eccentric plug action and resilient plug facings assure lasting dead-tight shutoff. Standard features include corrosion-resistant bearings, welded nickel seat, grit excluders, and adjustable stem seal packing.

DEZURIK'S

KUL Urethane Lined Knife Gate Valves are designed for onoff applications of abrasive slurry and dry abrasive materials. Flanged Urethane Lined Knife Gate Valves are ideally suited for applications in mining, chemical and food industries.

Standard flanged Urethane Lined Knife Gate Valves are available in sizes 2-48" (50-1200mm), and grooved end valves are available in sizes 2-12" (50-300mm).

KGC CAST STAINLESS STEEL KNIFE GATE VALVES

KGC Stainless Steel Knife Gate Valves are DeZURIK's premiere cast knife gate valves. They are used as isolation/on-off valves in the toughest corrosive, abrasive liquid, slurry, or dry material applications. They are pressure rated to 150 psi CWP as standard. Three body styles are available including:

- ES Extended Service Knife Gate Valves: Size 2-48 Inches
- MC Metal Cutting Knife Gate Valves: Size 3-24 Inches
- MD Maximum Duty Knife Gate Valves: Size 2-24
 Inches
- BD Bi-Directional Knife Gate Valves: Size 2- 36 Inches

KSL SLURRY KNIFE GATE VALVES

KSL Slurry Knife Gate Valves bi-directional valves with resilient sleeves used as isolation/on-off valves in applications consisting of abrasive, high solids content, corrosive, wet or dry media. These push-through style valves are for temperatures up to 300°F and are available in two body styles:



- LA Long Body face-to-face in sizes 2-24" with pressure ratings to 100 psi;
- SD short body face-to-face per MSS SP-81 with pressure ratings to 150 psi in sizes 2-16" and 100 psi in sizes 18-24".

www.ycubeindia.com

www.yesvalve.co.in www.dezurik.com

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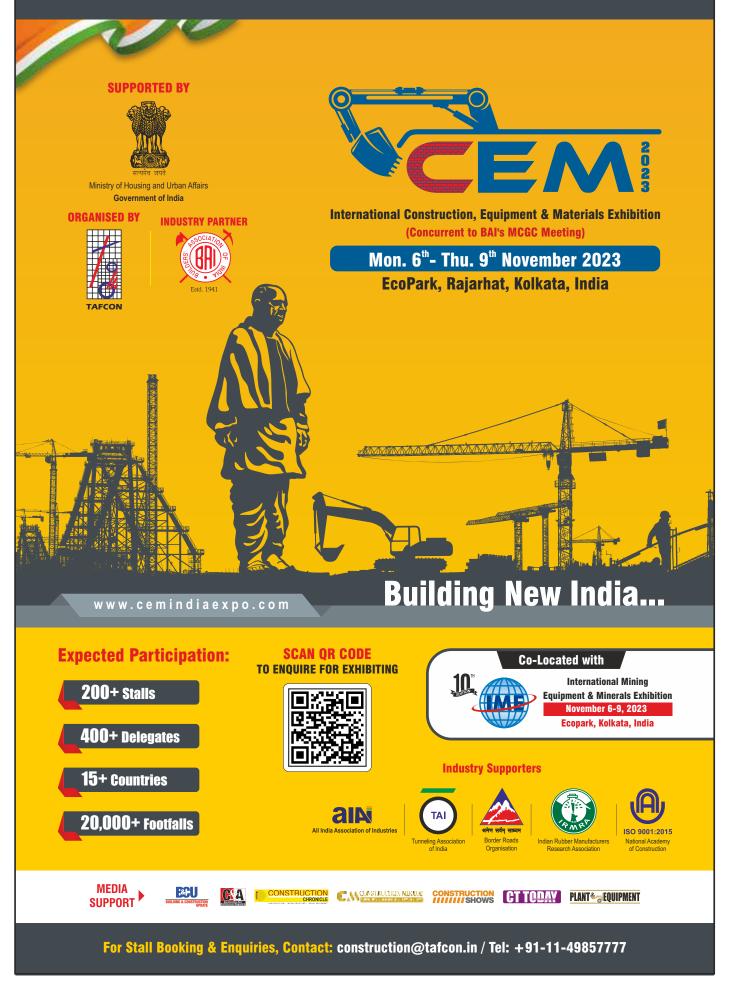
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Announcing Dates of Next Edition



Book Your Stall Today | Avail Special Discount for SSI Units



The 9th edition "IME 2022 - International Mining, Equipment, Mineral & Metals Exhibition" (concurrent with 9th Asian Mining Congress) organised by TAFCON alongwith MGMI, during April 4-7, 2022, was a grand success, as informed by VVIPs, Delegates, Exhibitors and Visitors.

It aimed to upgrade the future of mining and allied industries in India. This institutionalised event has been envisaged as a catalyst for the development of Mining, Minerals, Metal and allied sectors in India. The prestigious biennial international event of the sector, is one of the largest shows of its kind in this part of the world. The event once again, proved to an ideal platform for the global mining, mineral & metal producers, decision makers, bureaucrats, investors, industry leaders and other key stakeholders of the industry to congregate, display products, exchange technologies, new initiatives, negotiate for mutual business development and forge meaningful partnerships.



The event was inaugurated by Chief Guest Shri Anil Kumar Jain, Secretary, Ministry of Coal, Government of India on April 4, 2022 in the presence of Guests of Honour Smt. (Mrs.) Rowan Ainsworth, Consul General, Australian Consulate General, Kolkata, Shri M. Nagaraju, IAS, Jt. Secretary, Ministry of Coal, GOI; Shri Pramod Kumar Agrawal, CMD, Coal India Ltd.; the other eminent dignitaries present on the occasion were President MGMI Shri P.M. Prasad, CMD, Central Coalfields Ltd.; Shri Roopwant Singh, MD, GMDC; Shri Amit Banerjee, CMD, BEML; Shri Sumit Deb, CMD, NMDC; Shri Rajesh Nath, MD, VDMA.

High level Trade Delegations and Country Level Group Participation from Germany, Australia and many other countries were a part of this important event. The Exhibition was participated by more than 223 Exhibitors from Mining, Equipment, Mineral, Metals and allied sectors for displaying their equipment, products, technologies, innovative applications and research & development alongwith large participation from mineral rich states of India such as Jharkhand, West Bengal, Rajasthan, etc.

Concurrently, a "Buyer Seller Meet" was organized on the 2nd day the event, which witnessed presentations from key stakeholders. It received an enthusiastic response from India and overseas.

On the third day of the event, Exhibitors Award Function was also organized, wherein Chief Guest Shri N.C Jha, Former CMD, Coal India Ltd. presented awards to Exhibitors in different categories like International Pavilions, Machinery Display, Innovative Stall Design and Presentation, Large Participation and Outdoor Machinery Display, etc.



Few Glimpses of Last Edition

























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THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA (MGMI)

MGMI, the oldest institute of its kind in Asia has been promoting the cause of the mineral industry since its inception on 16 January 1906. It has been on the forefront of professional societies in mining and geosciences around the world. MGMI has always provided a forum for sharing experiences and learning of the latest in best practices and technology. The Institute presently has more 3,000 members serving the mining, minerals and metallurgical industry and diversified its valued added activities in various fields. The institute is having its headquarter and one of its branch in Kolkata and 18 more branches throughout the country.



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