



DIGITAL MINING SOLUTIONS

UNDERGROUND AND SURFACE DRILLING MACHINES

ROD AND BITS FOR DRILLING MACHINES

COMPRESSORS

SPARE PARTS AND SOLUTIONS

DOWN THE HOLE HAMMERS AND BITS

ROTARY ROD SYSTEMS

TUNNEL/GALLERY SUPPORT MACHINES

Kuvars was founded in Istanbul in August 2020, with the gathering of experienced people who have worked at various levels in the fields of mining, construction and industry for many years. Keeping up with the changing business dynamics in recent years with its customer and solution-oriented vision, Kuvars aims to bring a breath of fresh air to the sectors it serves.

In today's business environment where the product-oriented approaches of the leading companies in the sector and small companies cannot meet all customer expectations Kuvars aims to fill this gap with its experienced staff, customer and employee oriented approach. **Kuvars** increases the productivity of its customers with its expert service staff who have completed their technical training and, offers the most suitable solutions for your needs with its sustainable and innovative product portfolio.

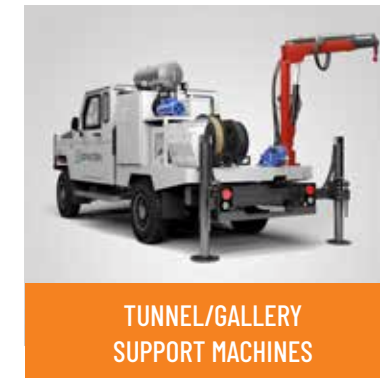
While many companies review their investments and shrink in the business environment where global economic problems are accelerating due to the pandemic, **Kuvars Inc.** is investing in this are because of the belief in Turkey and the industry.



DOWN THE HOLE HAMMERS
AND BITS



ROTARY ROD SYSTEMS



TUNNEL/GALLERY
SUPPORT MACHINES



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UNDERGROUND AND
SURFACE DRILLING MACHINES



DIGITAL MINING SOLUTIONS



SPARE PARTS AND SOLUTIONS

UNDERGROUND & SURFACE DRILLING MACHINES AND COMPRESSORS



Robust and Reliable MINING EQUIPMENT AND AIR COMPRESSORS

Founded in 2015, ZEGA provides a wide range of services, including high-performance drilling rigs, underground drill jumbos, premium air compressors, construction equipment, and consultancy services.

By producing at high-quality standards, ZEGA has succeeded in becoming a leading brand in the global market. Its products are sold across a broad geography, including Europe, Southeast Asia, Australia, Africa, and South America. As the official supplier to major companies like China Railways, China National Building Materials Group, and Jiangxi Copper Corporation, ZEGA has secured a strong position in both domestic and international markets.

ZEGA Drilling Rigs are ideal for surface drilling, exploration drilling, underground construction, mining, water well drilling, and geothermal exploration. Its air compressors serve a wide range of industries, from construction and mining to chemical production, textiles, food processing, and communication & transportation sectors.

ZEGA enhances productivity in businesses by offering durable, eco-friendly, and highly efficient drilling machines to the mining and construction sectors.



► Industrial Compressors



► Portable Compressors



► Face Drilling Machines (Jumbo)



► Rock Bolting Machines (Bolter)



► Surface Drilling Machines (Down the Hole)



► Surface Drilling Machines (Top Hammer)

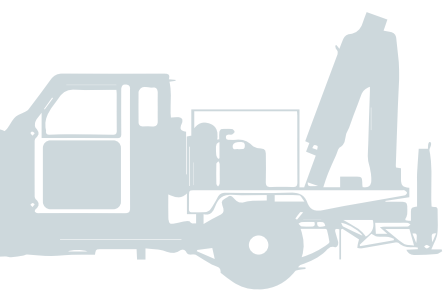


► Underground Production Drilling Machines (Simba)



► Tunnel Drilling Machines (Multi Boom)

Reliable and Efficient MINING UTILITY VEHICLE



Based in Sudbury, Ontario Canada, Kovatera specializes in the design, safety and innovation of mining utility vehicles for underground mining. It offers its customers high quality products that provide increased productivity, enhanced security and help improve their profitability.

Custom design, manufacturing and support

Kovatera, an engineering-focused company, uses solid model engineering software to design and custom made each specific equipment. With years of experience in designing various types of mobile equipment and hydraulic machinery for the mining industry, the company has a solid knowledge of mechanical and hydraulic design as well as low voltage electrical design.

Offering the most reliable and lowest total cost of ownership in its category, Kovatera provides customer satisfaction with its spare parts and service support.



► Diesel Powertrains and Electric Powertrains

We can provide a variety of diesel powered underground utility vehicle solutions for all applications in mining. Kovatera also manufactures electric powertrains utility vehicles that eliminate underground diesel emissions. Our range of electric and diesel powertrains vehicles:

- > MC100 Personnel Carrier Configurations
- > MC100 Loader Configurations
- > MC100 Cable Reeler Configurations
- > MC100 Backhoe Configurations
- > MC100 Aerial Boom/ANFO/Emulsion Configurations
- > MC100 Forklift Configurations
- > MC100 Scissor Lift Configurations
- > MC100 Service Vehicle Configurations
- > MC100 Shotcrete Configurations
- > MC100 Cab Configurations
- > NV100 Personnel Carrier Configurations
- > NV100 Loader Configurations
- > UT99 Regular Cab Configurations
- > UT99 Crew Cab Configurations
- > UT99 Rear Enclosure Configurations
- > UT99 Scissor Lift Configurations
- > UT99 Mechanic Vehicle Configurations
- > UT99 Aerial Boom Configurations
- > MC150-eMW Personnel Carrier Configurations
- > MC150-eMW Loader Configurations
- > MC150-eMW Cable Reeler Configurations
- > MC150-eMW Backhoe Configurations
- > MC150-eMW Aerial Boom/ANFO/Emulsion Configurations
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- > UT150-eMV Rear Enclosure Configurations
- > UT150-eMV Scissor Lift Configurations
- > UT150-eMV Mechanic Vehicle Configurations
- > UT150-eMV Aerial Boom Configurations

JUST AIR

Tamturbo, headquartered in Tampere Finland, was founded in 2010 based on the idea that the world needs a more environmentally friendly alternative to produce compressed air. Thanks to unique technological advances combined with ingenious engineering work have brought to life a range of oil-free air compressors that far surpass the legacy industrial air compressor technologies both in performance and significantly lower life-cycle cost. Providing reliable and completely oil-free air with Touch-Free™ technology, Tamturbo compressors provide exactly what is needed – Just Air-Air Only.

Tamturbo's current and potential customers are the world's leading industrial companies that want to use oil-free compressed air without significant filtering and air cleaning costs in their production processes.

Tamturbo, which reaches its customers all over the world with its distributors and business partners, is an industrial clean technology company that provides cleaner and more energy efficient production processes with its oil-free compressed air solution that meets the requirements of the industry and ensures sustainable development.

▶ *Touch Free™*

▶ *Oil Free*

▶ *Care Free*



Tamturbo® Touch-Free™ Turbo Compressors

Tamturbo® Touch-Free™ turbo compressors are 100% oil-free and by far the most sustainable air compressor solution on the market. With the lowest total cost of ownership, Tamturbo air compressors deliver significant savings from the biggest costs of owning an air compressor: energy and maintenance.

Tamturbo®, designed to meet the quality demands of our customers; It is the natural fit for with 0% tolerance for any oil contamination, such as food&beverage, electronics, pharmaceutical-medical, automotive, textile and printing.



▶ 100% Oil Free

At Tamturbo®, 100% oil-free is all we do. To satisfy the quality requirements of our customers, we eliminate all risks of contaminated air.

Did you know that a typical "oil-free" dry rotary screw compressor contains up to 15 gallons (60 liters) of oil? That is hardly oil-free. Fortunately, there is a much better and 100% oil-free option, Tamturbo®.



▶ Touch-Free Technology

Tamturbo® proprietary Active Magnetic Bearings (AMB) are the key to the Touch-Free™ technology. By providing friction-free rotation with zero drag or metal-to-metal contact, our components will not ever wear or break down. The AMBs react instantly, eliminating vibration completely. Self-protecting levitation also prevents damage in the event of a power failure inside your facility, as power stored in the rotation and in capacitors keeps the bearings energized until the motor slows down and stops.



▶ Superior Efficiency

Tamturbo® gearless drive units are unique. Our titanium turbo impellers never wear or create friction. With the ability to adapt to the demand fluctuation of air required within your facility, your efficiency remains constant over time. So, there are no costly spikes in energy consumption, which are typical with "oil-free" screw compressors.



▶ Energy Saving

Tamturbo® 100% oil-free turbo compressors have better, and more persistent energy efficiency compared to traditional "oil free" screw compressors, so you will see significant savings in your electrical costs. Additionally, unlike "oil free" screw compressors, Tamturbo® air compressors do not lose their efficiency due to wear.

THE DRILLER'S CHOICE

Founded in 1977 in Shannon, Ireland, Mincon specializes in the design, development, manufacture and service of hard rock drilling solutions for applications around the world.

Mincon manufacturing facilities are strategically located around the world to meet customer demand in each region. Mincon's range of DTH hammers and drill bits, rotary drill bits, construction systems, drill pipes and accessories are manufactured to the highest specifications at state-of-the-art factories in Ireland, Australia, Canada, Finland, Sweden, South Africa, the UK and the USA.

Having earned the reputation of "The Driller's Choice" by establishing a global support network, Mincon offers a complete range of world-class rock drilling consumables. Mincon products are sold through a global network of customer service centers and local distributors in key markets.

► *Mincon specializes in the design, development, manufacture and service of hard rock drilling solutions for applications around the world.*



► DTH Hammers



► Rotary Bits



► Construction and Geotechnical Solutions



► DTH Drill Bits



► Reverse-Circulation Drilling Products



► Horizontal Directional Drilling Products

► DTH Hammers

The range of 3" – 34" hammers can be used for drilling in mining, quarrying, exploration, water-well, geothermal, and construction/geotechnical projects.

► Rotary Bits

Rotary bits series provide superior drilling capabilities in all rock formations and the toughest drilling conditions and, use Mincon's own tungsten carbide inserts.

► Construction and Geotechnical Solutions

Mincon's ring-bit casing advancing systems offer solutions for a variety of construction techniques, including foundation drilling, pipe pile-walls, fore poling, well drilling, and anchoring.

► DTH Drill Bits

Precision engineering, world-class heat-treatment processes, and high-quality tungsten carbide inserts are what set Mincon DTH drill bits apart.

► Reverse-Circulation Drilling Products

Mincon's reverse circulation hammers have been proven to drill deeper and faster, without compromising on sample quality. MR hammers are also optimised to excel in both dry and wet ground conditions, offering reliable operation when encountering underground voids or water tables.

► Horizontal Directional Drilling Products

By using high-pressure and high-volume air, the hammers have a high-frequency cycle that ensures less vibration for the advanced steering electronics, leading to better steerability in all rock formations. This design also produces smaller rock cuttings that are easier to flush.



Global DRILLING SOLUTIONS

Driconeq, founded in 1995 in Sunne, Sweden, has a wide product portfolio consisting of water drilling, geothermal drilling, RC and rotary drilling equipment. The company, which grew rapidly with the strong development of the mining industry and increased investment in geothermal energy, was acquired by the Mincon Group in March 2018.

Driconeq, which manufactures in factories in Sweden, South Africa and Australia, reaches all its customers in the world through its own technical staff and distributors. Opening a state-of-the-art manufacturing facility in Johannesburg, South Africa in 2012, the company continues to invest in Australia, South America and other regions to be close to its customers' operations.



▶ DTH Drilling

When you need to drill high quality holes with diameters between 100-254 mm, DTH (Down The Hole) drilling is by far the best and most effective method. DTH drilling can be performed in most types of rock, hard or soft. It is a commonly used method in the mining industry (blast hole drilling), waterwell drilling, construction, and in the oil and gas industry.

In DTH drilling, the drill string rotates while the drilling hammer continuously strikes down into the rock. Inside the hammer, a piston powered by compressed air gives the drill bit its striking power. This combined with the rotational movement means the rock is crushed in a very efficient manner.



▶ HDD Drilling

Directional boring, commonly called horizontal directional drilling or HDD, is a steerable trenchless method of installing underground pipe, conduit, or cable in a shallow arc along a prescribed bore path by using a surface-launched drilling rig, with minimal impact on the surrounding area.

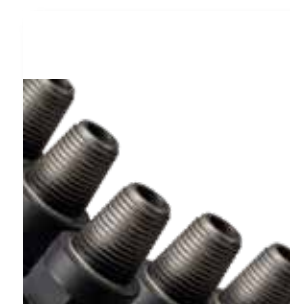
Directional boring is used when trenching or excavating is not practical. It is suitable for a variety of soil conditions and jobs including road, landscape, and river crossings.



▶ RC Drilling

We do not always know a lot about what is hidden in the bedrock beneath our feet. There is therefore a lot we can learn and using specialist methods we can improve our knowledge significantly. For example, with RC drilling (reversed circulation) you can find out if the bedrock is strong enough to support construction or if you can extract materials from it. RC drilling is a method used in exploration drilling. It helps you gain fast and reliable results about what is hidden down there in the bedrock. The method makes use of both hammer and rotation movements.

This technique is used for depths down to 600 meters. Samples are taken continuously during drilling, with around 12% of the cuttings going for analysis.



▶ Rotary Drilling

> Cutting or Crushing

Unlike DTH drilling, rotary drilling does not require force in the form of a hammer blow. Instead, rotary drilling creates a very large compressive force along the drill string, in combination with rotational movement.

Rotary drilling was a common drilling method in the oil industry in the early 20th century. Today the method is used primarily when large diameters (over 150 mm) are required, such as in deep waterwell drilling, open-cast mining, and quarrying. There are currently two types of rotary drilling, cutting, and crushing.

> Rotating Cutting Drilling

Rotating cutting drilling is a common method for drilling in softer materials such as sand, clay, and soft rock. A drag bit is used instead of a normal drill bit. This bit has 2-4 wings with carbide tips that cut up the material by pressure and rotation.

> Rotating Crushing Drilling

Rotating crushing drilling uses a tricone drill bit. This drill bit has tungsten carbide bits designed for drilling in harder materials. The bits crush the rock by means of pressure and rotational movement.

Experienced in Manufacturing of **MINING, TUNNELING AND GEOTECHNOLOGY TOOLS**

Gonar is a modern, constantly developing company operating in mining business with leading position for over 40 years on polish market and well recognized world-wide. It manufactures tools for mining and widely extractive industries as well as equipment for highway engineering, forestry, steelworks, quarries, petrochemical and mineral industries.

Experience of 40 years, co-operation with researchers, highly innovative facilities, its own testing lab, and sinter plant guarantees high quality of products. Gonar has ability to design, manufacture and successfully market a new product from scratch.

Operating in the international market through its subsidiaries and authorized dealers worldwide, Gonar exports its products to nearly 50 countries on all continents. Its competitive advantage is based on 40 years of experience, investments in R&D and customer care including after-sales service. Gonar's R&D division is closely co-operates with testing lab and sinter plant, which enables it to control the quality of products on every step of the manufacturing process. The raw materials it uses come only from the best and certified suppliers. Gonar is a dynamic company that aims to be a leader in technology and product innovation.



▶ ROD AND BITS FOR DRILLING MACHINES

- > Bench Drilling
- > Shank Adapters
- > Drifting And Tunneling
- > Tools For Rotary Drilling
- > Integral Drill Steels For Hand Percussion Drilling
- > Extraction Tools
- > Quick Connectors
- > Tools For Percussive Drilling
- > Tools For Road Milling Machines
- > Stone Crushing Tools
- > Anchor System
- > Tool Points To Hammers



A Comprehensive Smart MINING SOLUTIONS

Minetec Smart Mining (PTY) Ltd., headquartered in Johannesburg, South Africa, is an international information technology company that aims to revolutionize the mining sector by providing smart and comprehensive solutions that optimize management, operation and communication processes.

Its solutions range from automated resource management to collision avoidance systems. Works with specialized engineers that can critically analyse the risks involved in a given mining process to design customized solutions. The products developed by Minetec optimize the current needs of the industry and create a sustainable and profitable business model.

It offers proactive, useful, dynamic, operational and management systems with innovative software and hardware solutions.

SOLUTIONS

► Collision Avoidance System (CAS)

CAS system observes, detects, and gives warnings to machine operators, equipped pedestrians and sends notification to field managers as well as control centers of existing problems.

The size and inherent blind spots of most of mining vehicles make it impossible for operators to be aware of pedestrians, machines and vehicles. CAS provides substantial enhancement of the level of driver's awareness by predictive detection system and gives visual and audible warning.

► Fleet Manager

Monitoring of company resource management, stock levels and productivity to infer information about company performance and ease management.

- > Fleet Manager
- > Warehouse Management
- > Workshop Management
- > User Management

► Engine Protection and Monitoring System (EPMS)

Our Engine Monitoring Protection System offers a full protection with live monitoring through the new technological implementations. All parameters can be configured to suit all types of machines and brands regardless of the volume or size of the machines. EPMS provides independent engine monitoring & protection system.



A COMPREHENSIVE SMART MINING SOLUTIONS



► Fatigue Management

When mines manage health and safety issues, the most important part is risk management. The same approach can be used to deal with fatigue-related issues after having our fatigue management system. The system will have the following items implemented.

- > On-Board Camera
- > Fatigue Management Using Advanced Image Processing
- > Sleeping Warning
- > Head Position Detection
- > Smoking Warning
- > Unwanted Behaviors Warning (cellphone use etc.)
- > Custom Made Additional Criteria



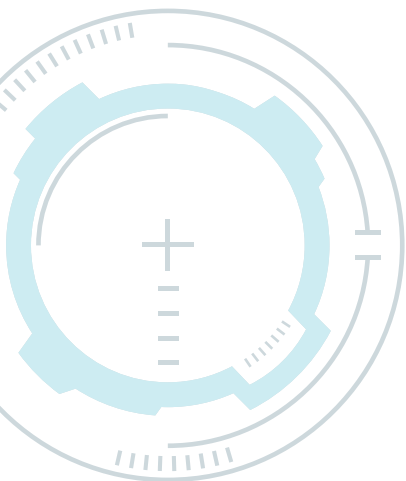
► Key Control

If the operator's conditions are appropriate, this control system, which is integrated with the vehicle computer, will allow the vehicle to start. In case of nonconformity, the vehicle will not be operational.

- > Biometric Fingerprint Authentication
- > License Eligibility Check for Operators
- > Medical Expire Date Check
- > Induction Expire Date Check
- > Ignition Control

► Production (Load) Management

- > Advanced Dumping Detections
- > Loading Area Identification (via geofencing)
- > Budget Calculation
- > Vehicle Productivity Reports





► Fuel Automation System

- > Vehicle Recognition System
- > Supplier Management
- > Order/Purchase Process Management
- > Stock Management
- > Stock Level Warning
- > Fuel Requisition Form Management
- > Fuel Consumption Report

► Reverse Camera

Our vehicle computer can obtain information whether the vehicle is in reverse mode or not. The reverse gear will be activated with the signal received from both the CAN bus or the vehicle's reversing lamp. When the reverse gear signal is received from the reverse gear or from the reverse lamp, the display will be activated and will be showing the rear view of the machine.

- > Rugged IP Reverse Camera
- > Reverse Gear Detection



► Fuel Anti-Theft

- > Live Fuel Monitoring
- > Daily Trip Reports
- > Fuel Theft Warning via Mobile App
- > Reports of Fuel Usage between Any Selected Dates
- > Instant Report of All Used Fuel by Operator, Machine and Mine Branch
- > Easy to Integrate Existing CAS (Collusion Avoidance System)



► Tracker Real Time Location Monitoring

The Geofencing feature is the ability to define fields by entering coordinates from the map or by specifying dots on the map. This feature has the ability to name the fields on the map and make specific definitions according to various algorithms.

- > Preferred areas
- > No-go Areas
- > Waypoints
- > Customized Boundary Identification



SPARE PARTS AND SOLUTIONS

INCREASE YOUR PRODUCTIVITY With Solutions Suitable for Your Needs

We supply spare parts of all leading brands in the industry for rock drilling machines and drifters used in the mining and construction industry. We increase your efficiency by producing the most suitable solution for your needs with fast parts supply and our expert service staff.

Kuvars offers solutions suitable for the spare parts and service needs of all leading brands in the industry in order to meet the increasing productivity expectations of the mining and construction industry. Thanks to its comprehensive range of spare parts, it allows you to reach the part you need without wasting time.

Kuvars Solutions meets the quality expectation with the right price level. Our company produces fast solutions to urgent customer needs with its strong stock level and expert service staff. You can easily reach all the parts you are looking for and increase the efficiency of your business with our guaranteed spare parts.

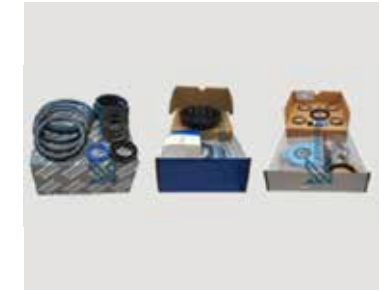
"Kuvars Solutions" for all brands.



Hydraulic Drifter Rotation Gears



Shank Bearings



Drifter Repair Kits



Rotation Units



Rotation Kits and Air Compressors



Hydromotor and Pumps



Penetrating Rubber Products



Repair and Maintenance Stand



Drilling Electric Parts



Filters



Hydraulic and Pneumatic Products



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