

**> BULK HANDLING SYSTEMS**



**YOUR  
WORLD,  
OUR  
CHALLENGE**



# WHO WE ARE

- > Over 150 employees
- > Over 30 years know-how in German engineering
- > Over 40 years experience in the Middle East
- > Over 50 thousand tons minerals per hour
- > Over 60 kilometers Bulk Handling Systems/Conveyors

QUARRY MINING LLC designs and manufactures in compliance with European standards, while adhering to the same safety standards and features that you would expect of equipment produced in Europe. Quarry Mining is certified for quality management with ISO Certificate 9001:2008 and for environmental management with ISO Certificate 14001:2004 from the German Technical Inspection Association TÜV Rhineland/Germany, and include the continuous integration of all upgrades. A company-wide cross-departmental ERP software system was introduced in the beginning of 2014.

Our qualified and highly motivated team of over 150 professionals allows Quarry Mining to offer solutions with no limitation to project size. Quarry Mining is able to design, manufacture and install mineral processing plants, bulk handling systems and

environmental technologies in any plant configuration necessary, to meet customer requirements and applications as partial or complete turnkey plant operations.

Quarry Mining has advanced to become a leader in the industrial sector as a result of our commitment to deliver the highest quality and achieve total client satisfaction through world-class professional standards and efficiency. This commitment has helped secure us a reputation as a reliable partner in our business segment throughout the past decades.

Quarry Mining has acquired a high level of expertise within their own dedicated team as well as high quality machinery and components supplied by their German supply partners. This combined strength helps us to achieve our enviable track record in regard to synergy, intelligent solutions and overall added value for our clients.



## OUR MISSION

To be your preferred partner for mineral processing plants, bulk handling systems and environmental technologies.

## OUR VISION

To provide the best value for money to our clients, be a reliable partner to our suppliers, and provide a secure and prosperous future for our team.

## OUR CORE VALUES:

- > **QUALITY** and the drive for continuous improvement in every aspect of our business to boost service, performance and efficiency
- > **CUSTOMER-DRIVEN** with the objective to provide services of superior value to all of our customers
- > **INTEGRITY AND TRUST** are an integral part of our corporate culture, defining our organization, business relations and transactions
- > **SAFETY** is embedded in every aspect of our work
- > **TEAMWORK** as the basis for our success, with each motivated individual a strong link in our team chain
- > **RECOGNITION** to celebrate and appropriately reward the successful achievements of our colleagues and co-workers
- > **SOCIAL RESPONSIBILITY** extending respect for the people in our community and our environment



# BULK HANDLING SYSTEMS

- > OVERLAND CONVEYORS
- > DOWNHILL CONVEYORS
- > CURVE CONVEYORS
- > IN-PLANT CONVEYORS
- > SHIP LOADERS
- > UNLOADING STATIONS
- > STACKERS / RECLAIMERS

With full in-house capability for structural steel manufacturing at European standards, we design, manufacture, supply and install quality products. These include standard conveyors of any width and load capacity, conveyor systems, including downhill versions with power generation, along with truck loading and unloading stations and ship loading and unloading systems. Our own production of steel items for these products is complemented by innovative key components, like motors, rollers, rubber belts and PLC control panels, which are provided mainly by our German and European supply partners.

"In addition to the reliability of our conveyor systems, we reduce costs by generating electric power during production."

Graham Farrington, Works Manager RAK ROCK CO.

# CONVEYOR SYSTEMS

## OVERLAND- / DOWNHILL- / CURVE CONVEYORS

Conveyor systems are of increasing interest for any kind of bulk handling industry, due to the fact that they usually reduce transport costs by more than 50 % in comparison to using conventional means of transport, such as trucks.

Quarry Mining has designed, manufactured and installed various types of conveyor systems in different executions from approx. 1000 m length, to approx. 2600 m, but also some as large as 4000 m length and including downhill conveyors with power generation for certain projects.

Depending on material and conveying capacity, our conveyors have different widths. Most common belt widths are between 800 and 1400 mm but smaller and wider belt widths are also available as is maximum flexibility in length. A conveyor that is integrated in a

conveyor system usually exceeds a length of 50 meters and therefore will be executed with a gravity take-up station.

Quarry Mining is ISO 9001:2008 certified and strictly complies with these quality standards.

Specifications for materials used for mechanical components for conveyor systems are the same or similar to the specifications for single conveyors.



Quarry Mining offer Bulk Handling Systems as per the International Standards. All structural steel manufacturing is done in-house to European standards while we source "moving" items, like rollers and return rollers, rubber belts, scrapers, drive gear motors from renowned International manufacturer. We manufacture our own make of balanced head, tail and snub drums/pulleys either plain or lagged as required.

Dust emission and spillage from conveyors is a major concern to many operations. Our conveyors are designed to eliminate these problems using high quality belt scrapers, robust skirt mountings and rubber skirting as well as properly engineered feed and encapsulated discharge chute work.

We offer full comprehensive maintenance & service support which include hot and cold vulcanizing service for rubber belts but also remote temperature monitoring of bearings.





Our Clients can add to the standard execution of conveyors several design of catwalks, head-drum surround platforms, engineered tension systems, feed and discharge chutes, environmental covers, emergency stops and electrical safety systems. All of these features can be included in the conveyor design at economical cost to the client to enable and improve operation and maintenance.

We use German made STIEBEL direct flanged gear motors on all our conveyors power transmissions. STIEBEL has developed the QuarryMaster High Power range of conveyor drives, a compact and versatile unit designed to work in extreme applications and provide reliability and low downtime performance at unbeatable value for money. From end of 2015 these units will be assembled by our sister company STIEBEL INDUSTRIES LLC, a joint-venture between STIEBEL GmbH, Germany and Quarry Mining.

This will enable us to assemble any type of STIEBEL gear motors of type QuarryMaster (from 5.5 KW up to 90 KW) within hours at the assembly line established in Ras Al Khaimah. This will guarantee immediate response and full back-up in the event of electrical motor or gearbox failure as all parts are in stock.



STIEBEL QuarryMaster

## IN-PLANT CONVEYORS

Quarry Mining has developed various types of single conveyors in light execution for low capacity, as well as in medium execution for our standard plants and in heavy execution for special applications.

Our standard conveyors have widths of 500, 650, 800, 1000, 1200 and 1400mm as well as providing for special requirements and with maximum flexibility for length. Capacity meets project requirements and usually ranges from 10 t/h up to 3500 t/h.

All conveyors are of highest quality, steel frames with prime coat after sand blasting and usually 2-ply superior quality paint coat while most frames are hot-dip galvanized.



STIEBEL Gear Motor



## SHIP LOADERS

Installation of jetty conveyor with tripper car to feed 2000 t/h barge loader with rock aggregates, mainly of sizes 0-5mm / 5-10mm and 10-20mm. Conveyor length is 197.6 meters and length of tripper car is 33 meters, allowing application for feed barges and small ships at a length of 140 meters. The unit is powered with 2 STIEBEL gear motors, each 75 KW. The jetty conveyor with tripper car and barge loader travels alongside the berth in order to load small ships and barges.

Upgrade of existing KLEEMANN ship loader from 1000 t/h to 3000 t/h. Exchange of all drive units, installation of new hopper, new slide gates and level controls, and equipped with electronic PLC controls to control and optimize the feed system.



## UNLOADING STATIONS

Quarry Mining has years of expertise in designing, manufacturing and installing all types of unloading stations (truck and rail) for any bulk handling application, delivering innovative designs while meeting client requirements. Our Quarry Mining teams build on proven methodologies and add innovative ideas to transform design concepts into fully-operational individual solutions of any size or complexity. There is never a compromise on quality, and we guarantee this with our close, proactive involvement and active engagement with relevant leading German business partners such as STIEBEL, AVITEQ, AUMUND and FAV VOLLERT, whose products are integrated as the "key" components in these individual Quarry Mining unloading stations.

Unloading stations for truck and rail will be designed to the exact specifications of our clients and for all applications of the quarry and mining or any other building material processing industry, regardless of the requirements on capacity, feed product, final product or any other specifications.





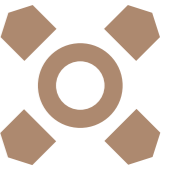
# ENVIRONMENTAL TECHNOLOGIES

- > DE-DUST PLANTS WITH BAG FILTERS
- > ENCAPSULATION OF PLANTS + CONVEYORS
- > FINE MIST WATER SYSTEMS
- > CONVEYOR BELT COVERS
- > STONE LADDERS
- > STEEL HUTS

Quarry Mining is committed to continuous environmental improvement by designing environmentally sustainable mineral processing plants and bulk handling systems.

We offer complete encapsulation of all plants and installations and effective dust collection filter plants. The engineering and core equipment is supplied by our German supply partner, FAV Vollert KG, while we supply steel supports, silos and duct works.

Dust emission and spillage from conveyors is a major concern for most installations. Our conveyors are designed to eliminate these problems using state-of-the-art belt-scrapers, robust skirt mountings and rubber skirting, and properly engineered feed and discharge chute works.



Dust collection plant provides the primary means of arresting dust emission from crushing and screening processes. We can bring additional expertise in spillage reduction, encapsulation, and more efficient operation of dust collection plant through better design and standards for manufacturing of conveyor equipment.

Complete conveyor encapsulation means a complete reduction in wind blown dust from conveyors carrying any fines material. These conveyor covers can be manufactured in all conveyor widths and fitted easily to existing conveyor structures. Maintenance and inspection can be carried out from either side of the conveyor if required without having to remove the covers and can easily be re-fastened down again after lifting. Further encapsulation of screens on the top and underneath between the screen and the discharge pan allows full operation of screen without any dust emission. This type of encapsulation is widely used in worldwide and provides a major reduction in dust emissions.





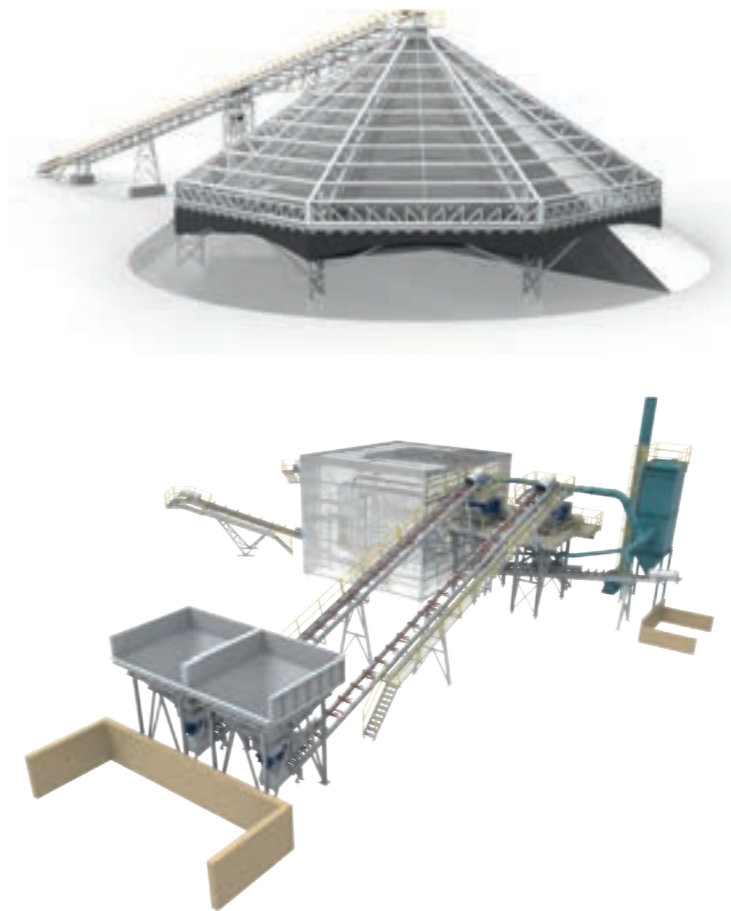
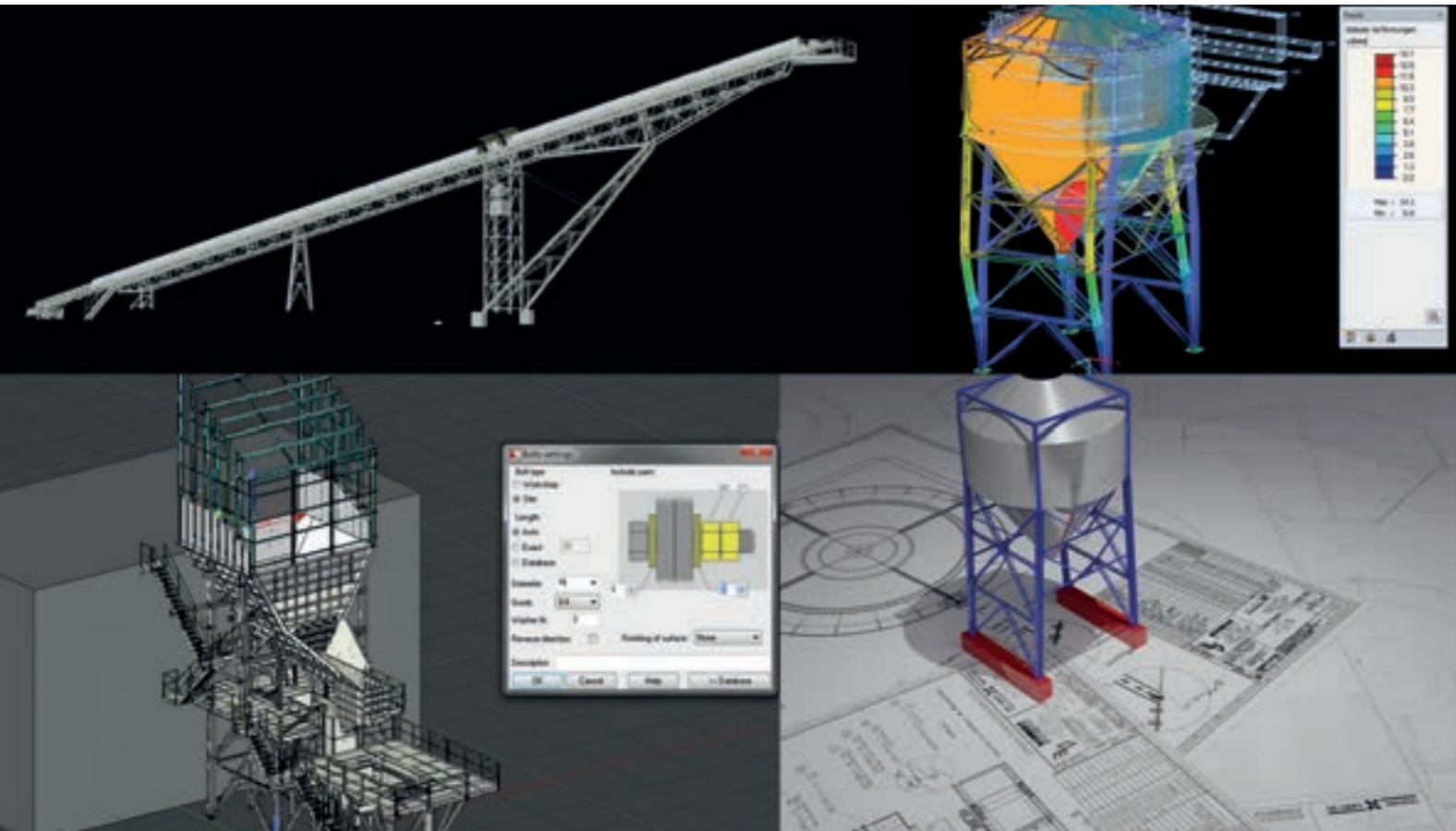
# DESIGN+ ENGINEERING

- > OVER 30 YEARS ENGINEERING EXPERIENCE
- > DEM (DISCRETE ELEMENT MODELLING)
- > FEM (FINITE ELEMENT MODELLING)
- > 3D VISUALIZATION
- > ELECTRIC ENGINEERING / PLC
- > IN-HOUSE STEEL PRODUCTION
- > HIGH-QUALITY QS MANAGEMENT

Quarry Mining bases its success on essential factors like design, fabrication and installation. The highly proficient specialists in these areas work together as a team on every project. This includes professional proposals through to effective strategies, to ensure that every single objective is achieved to the satisfaction of the client.

"Competent engineering,  
high quality steel work,  
at shortest possible  
execution time!"

Graham Farrington, Works Manager STEVIN ROCK LLC.



In-house, modern steel fabrication



We ensure best quality and function of our products with continuous quality control



Conveyor calculation with professional design software provides highest efficiency for our clients

## OVER 30 YEARS EXPERIENCE IN GERMAN ENGINEERING

The expertise of Quarry Mining is combined with practical on-site efficiency in achieving reasonably priced, and value-engineered solutions for our clients. Our teams adopt the proven methodologies and introduce innovative ideas to come up with design concepts that work perfectly for mineral processing plants. In regard to size and processing capability, there is no plant too small or too complex. All projects are implemented according to premium quality standards.

The knowledge and expertise of the team is continuously updated by taking part in premium international training opportunities to refresh engineering expertise and stimulate creative thought processes. Our collaboration with renowned German business partners ensures that our teams have regular exposure to the latest developments in international engineering. In specific cases, we offer the expertise of specialized consultants, who we engage on a project basis. The experts come from local as well as international markets according to the project

requirement. The consultants work according to the management guidelines and under the supervision of our in-house engineers to ensure adherence to company specific quality standards. The quality standards include ISO certified standards of quality and risk management techniques.

In regard to the design of our mineral processing plants and the products and applications involved in material handling, we provide top-of-the-line technical solutions and support according to German methodology.

The success and accomplishments of our company are achieved by the cooperation and inspiration of our specialists and efficient partners, who collaborate on quarry and mining projects. For our client-specific approach, we assemble a team of experts to customize solutions according to specific client project requirements, ensuring both optimal and individual results.

## ELECTRIC CONTROLS / PLC

PLCs or programming logic controllers are the brains behind any automated mechanical or machine activity. At Quarry Mining, we ensure that you get the finest and smartest PLCs for controlling your machine and plant.

Our industrial PLC expertise allows us to deliver bespoke solutions as per your specific needs and line of business. This includes both engineering and commissioning of such systems. Based on the requirements, we can provide qualified systems that are able to handle the job and make your plant more profitable.

In addition to the PLC systems itself, we provide tremendous and meaningful value added solutions and options, such as case studies for your ideas, data-server applications and maintenance of existing plants.







[www.quarrymining.net](http://www.quarrymining.net)

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