

> **MINERAL PROCESSING PLANTS**



**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



MINERAL PROCESSING PLANTS

- > 50 STANDARD PLANTS OFF-SHELF
- > INDIVIDUAL PLANTS
- > BEST QUALITY AT MAXIMUM CAPACITY
- > HIGHEST PLANT AVAILABILITY
- > MAXIMUM EFFICIENCY

Design and Engineering of Quarry Mining are of very high quality and the performance of their industrial plants is extremely good. Their plants literally work day and night without failure.

Ali Mubarak, Managing Director SAUDI DOLOMITE LTD.

PRIMARY MOBILE CRUSHER



LAND- AND DOWNHILL CONVEYORS



PRIMARY CRUSHING – KLEEMANN MOBICAT MOBILE UNITS

For the past 150 years, KLEEMANN has been developing and manufacturing machines and plants for the natural stone and recycling industry.

One of the most important elements of the KLEEMANN product range is the track-mounted jaw crusher from the MOBICAT series. MOBICAT jaws are suitable for crushing almost all natural stone and for reprocessing residual construction materials. KLEEMANN manufactures sturdy, superior quality jaw crushers, which are suited for the most difficult applications. With these machines, we are able to provide our customers with the optimal solution.

The focus today is on cost, the environment, availability, versatility and above all, the quality of the end product. It is not the jaw crusher alone which determines the performance of a MOBICAT crushing plant, but rather the perfect collaboration of all components, which plays a decisive role. A continuous feeding unit and an effective primary screen are just as important here as the smooth extraction of the crushed material. KLEEMANN unites these characteristics in its

MOBICAT plants, supplementing them with a variety of useful details to create a machine which really sets the standard when it comes to operating efficiency and reliability.

LINK BELTS + CONVEYOR SYSTEMS

The Mobile KLEEMANN Primary Jaw Crusher has the advantage of being able to move with its production as the rock face advances. Combining this mobility with link belts which feed conveyor systems, either land conveyor or downhill conveyor, provides the most cost efficient solution to feed Secondary Crushing- & Screening plant with pre crushed rock material.

CURVE CONVEYORS





SECONDARY STANDARD PLANTS

STATIONARY SECONDARY CRUSHING- AND SCREENING PLANT FOR LIMESTONE (NON-ABRASIVE STONE)

- KLEEMANN impact crushers, KLEEMANN screens
- These standard plants are available for 300/400/450/600/800/900/1000/1200/1400 and 2800 tph capacity for final products (sand and aggregates)
- These standard plants are available for 3 final sizes and 4 final sizes
- Every plant is available in 4 different options

- » **Option 1:** Steelwork without platforms and stairs, conveyors without catwalk, static product conveyors
- » **Option 2:** Steelwork without platforms and stairs, conveyors without catwalk, swivelling product conveyors
- » **Option 3:** Steelwork with platforms and stairs, conveyors with catwalk, static product conveyors
- » **Option 4:** Steelwork with platforms and stairs, conveyors with catwalk, swivelling product conveyors

TYPE QM300L3(Option 1-4)	final capacity of 300 tph	limestone or similar	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM300L4(Option 1-4)	final capacity of 300 tph	limestone or similar	4 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM400L3(Option 1-4)	final capacity of 400 tph	limestone or similar	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM400L4(Option 1-4)	final capacity of 400 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM450L3(Option 1-4)	final capacity of 450 tph	limestone or similar	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM450L4(Option 1-4)	final capacity of 450tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM600L3(Option 1-4)	final capacity of 600 tph	limestone or similar	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM600L4(Option 1-4)	final capacity of 600 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM800L3(Option 1-4)	final capacity of 800 tph	limestone or similar	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM800L4(Option 1-4)	final capacity of 800 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM900L3(Option 1-4)	final capacity of 900 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM900L4(Option 1-4)	final capacity of 900 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1000L3(Option 1-4)	final capacity of 1000 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1000L4(Option 1-4)	final capacity of 1000 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1200L3(Option 1-4)	final capacity of 1200 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1200L4(Option 1-4)	final capacity of 1200 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1400L3(Option 1-4)	final capacity of 1400 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1400L4(Option 1-4)	final capacity of 1400 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM2800L3(Option 1-4)	final capacity of 2800 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM2800L4(Option 1-4)	final capacity of 2800 tph	limestone or similar	4 final sizes (for example 0-2/2-5/5-10/10-20mm)



SECONDARY STANDARD PLANTS

STATIONARY SECONDARY CRUSHING- AND SCREENING PLANT FOR HARD LIMESTONE/SANDSTONE (ABRASIVE STONE)

- Cone crusher, KLEEMANN Impact Crushers, KLEEMANN Screens
- These Standard Plants are available for 300/400/450/600/800, 900 and 1200 tph capacity for final products (sand and aggregates)
- These Standard Plants are available for 3 final sizes and 4 final sizes
- Every plant is available in 4 different option, such as

- » **Option 1:** Steelwork without platforms and stairs, conveyors without catwalk, static product conveyors
- » **Option 2:** Steelwork without platforms and stairs, conveyors without catwalk, swivelling product conveyors
- » **Option 3:** Steelwork with platforms and stairs, conveyors with catwalk, static product conveyors
- » **Option 4:** Steelwork with platforms and stairs, conveyors with catwalk, swivelling product conveyors

TYPE QM300H3(Option 1-4)	final capacity of 300 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM300H4(Option 1-4)	final capacity of 300 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM400H3(Option 1-4)	final capacity of 400 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM400H4(Option 1-4)	final capacity of 400 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM450H3(Option 1-4)	final capacity of 450 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM450H4(Option 1-4)	final capacity of 450 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM600H3(Option 1-4)	final capacity of 600 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM600H4(Option 1-4)	final capacity of 600 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM800H3(Option 1-4)	final capacity of 800 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM800H4(Option 1-4)	final capacity of 800 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM900H3(Option 1-4)	final capacity of 900 tph	hard limestone/sandstone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM900H4(Option 1-4)	final capacity of 900 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1200H3(Option 1-4)	final capacity of 1200 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM1200H4(Option 1-4)	final capacity of 1200 tph	hard limestone/sandstone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)

SECONDARY STANDARD PLANTS



INDIVIDUAL PLANTS



STATIONARY SECONDARY CRUSHING- AND SCREENING PLANT FOR VOLCANIC STONE (ABRASIVE STONE, GABBRO/GRANITE)

- Cone crushers, VSI, KLEEMANN screens
- These standard plants are available for 150/200/250/300/400/500 and 600 tph capacity for final products (sand and aggregates)
- These standard plants are available for 3 final sizes and 4 final sizes
- Every plant is available in 4 different options, such as

- » **Option 1:** Steelwork without platforms and stairs, conveyors without catwalk, static product conveyors
- » **Option 2:** Steelwork without platforms and stairs, conveyors without catwalk, swivelling product conveyors
- » **Option 3:** Steelwork with platforms and stairs, conveyors with catwalk, static product conveyors
- » **Option 4:** Steelwork with platforms and stairs, conveyors with catwalk, swivelling product conveyors

TYPE QM150V3(Option 1-4)	final capacity of 150 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM150V4(Option 1-4)	final capacity of 150 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM200V3(Option 1-4)	final capacity of 200 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM200V4(Option 1-4)	final capacity of 200 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM250V3(Option 1-4)	final capacity of 250 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM250V4(Option 1-4)	final capacity of 250 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM300V3(Option 1-4)	final capacity of 300 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM300V4(Option 1-4)	final capacity of 300 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM400V3(Option 1-4)	final capacity of 400 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM400V4(Option 1-4)	final capacity of 400 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM500V3(Option 1-4)	final capacity of 500 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM500V4(Option 1-4)	final capacity of 500 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)
TYPE QM600V3(Option 1-4)	final capacity of 600 tph	volcanic stone	3 final sizes (for example 0-5/5-10/10-20mm)
TYPE QM600V4(Option 1-4)	final capacity of 1000 tph	volcanic stone	4 final sizes (for example 0-2/2-5/5-10/10-20mm)

THE PERFECT SOLUTION FOR EVERY CHALLENGE

Quarry Mining has years of expertise in designing, manufacturing and installing all types of individual mineral processing plants in compliance with client requirements and in delivering innovative plant designs across a variety of mineral types. Quarry Mining teams build on proven methodologies and add new ideas that transform design concepts into fully operational individual mineral processing plants 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 KLEEMANN, STIEBEL and FAV VOLLERT, whose products are integrated as the "key" components in these individual Quarry Mining mineral processing plants.

Individual plants for mineral processing will be designed to the exact specifications of our clients and in compliance with any other application for quarry mining or the building material processing industry, regardless of capacity, feed product, final product or any other specifications.



KLEEMANN Crushers and Screens

INDIVIDUAL PLANTS



Stationary secondary crushing- and screening plants for more than 4 final sizes and different capacities



Processing plants for fines

MINERAL PROCESSING PLANTS

Quarry Mining has the resources, skills and competencies to design, manufacture and install superior grade processing plants for the quarry, mining and construction material industry (primarily for mechanical processing). Our collaboration with expert partners helps us to provide innovative and intelligent processing solutions, based on the rock type, yield quality, and output. For this we employ the use of state-of-the-art key components made available by our International Supply Partners such as crushers, screens, feeders, electric motors and control panels with Programmable Logic Controllers (PLC) controls.

Our team's competencies help us to add new ideas that transform design concepts into fully operational mineral processing plants of any size or complexity. Our key Unique

Selling Proposition (USP) is an unflinching adherence to transparency and integrity in our business. With our assistance you can gain maximum productivity at the lowest cost of industries operations, thus providing you with a processing plant that reaps in huge profits.

Quarry Mining offers plants as per the International standard. Clients have option from selecting plant specification from our list of standard plants which we offer prebuilt and engineered but clients can also bring their recommendation or specification for the plants which they require.



Stationary primary and secondary crushing plants of different capacities (from 350 tph feed up to 3500 tph feed)

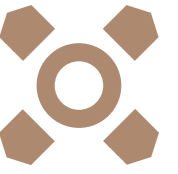


ENVIRONMENTAL TECHNOLOGIES

- > 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.



GERMAN ENGINEERING

As innovation means the introduction of new ideas or working methodologies, with Quarry Mining it also means taking these new ideas for implementation and coming up with working methodologies that ensure profitable results for our clients. Whether it's a product or a simple application, both are believed to have the same set of functioning and requirements.

Our engineering team uses modern day designing and technology based software which provides solutions that can be converted into installation processes later on. We believe in continuously keeping our promise of maintaining health and safety standards without compromising environment and safety guidelines. The designs created by us are made through strict adherence to health and safety norms that ensure proper safety and efficiency for its users.

The 3D designs help in understanding the actual physical installation required and comprise of substantial details that initiate easier communication with the client required for the project's success. All these drafts and designs are taken into consideration and to make things easier, these design drafts are converted into animated models or 3D virtual models, which make elimination of possible installation errors right at the commencement of the design process.

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.

Our team is with you at every stage of the project. We ensure that our partnership doesn't end with handover and deployment of the system at your site. We will remain available to answer any queries even after the handover is complete.

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.



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