



MINERAL PROCESSING SOLUTIONS FOR THE PROCESSING OF MINERALS



FAM MINERALS & MINING - MEMBER OF BEUMER GROUP

FAM Minerals & Mining GmbH, as part of the BEUMER Group, is a globally active company headquartered in Germany with a long history as a manufacturer of conveying systems dating back to the 19th century. As one of the leading suppliers, FAM Minerals & Mining GmbH offers machines along the complete transport chain for bulk materials. From extraction, conveying, loading and storage to the processing of various raw materials, FAM Minerals & Mining GmbH offers efficient solutions for different industries. FAM as part of the BEUMER Group combines many years of know-how in series and individual production and offers high-quality engineering as well as extensive service.

SYSTEMS YOU CAN BUILD ON

Mined raw materials travel along extensive transport routes. Ores, raw salt feeds, waste rock and overburden pass through various steps from mine to mill (mining, material transfers, comminution, mineral processing, hydrometallurgy, filtration and tailings disposal). Our systems ensure smooth, economical and environmentally friendly processing at each stage of materials handling.

BEUMER GROUP – MADE DIFFERENT

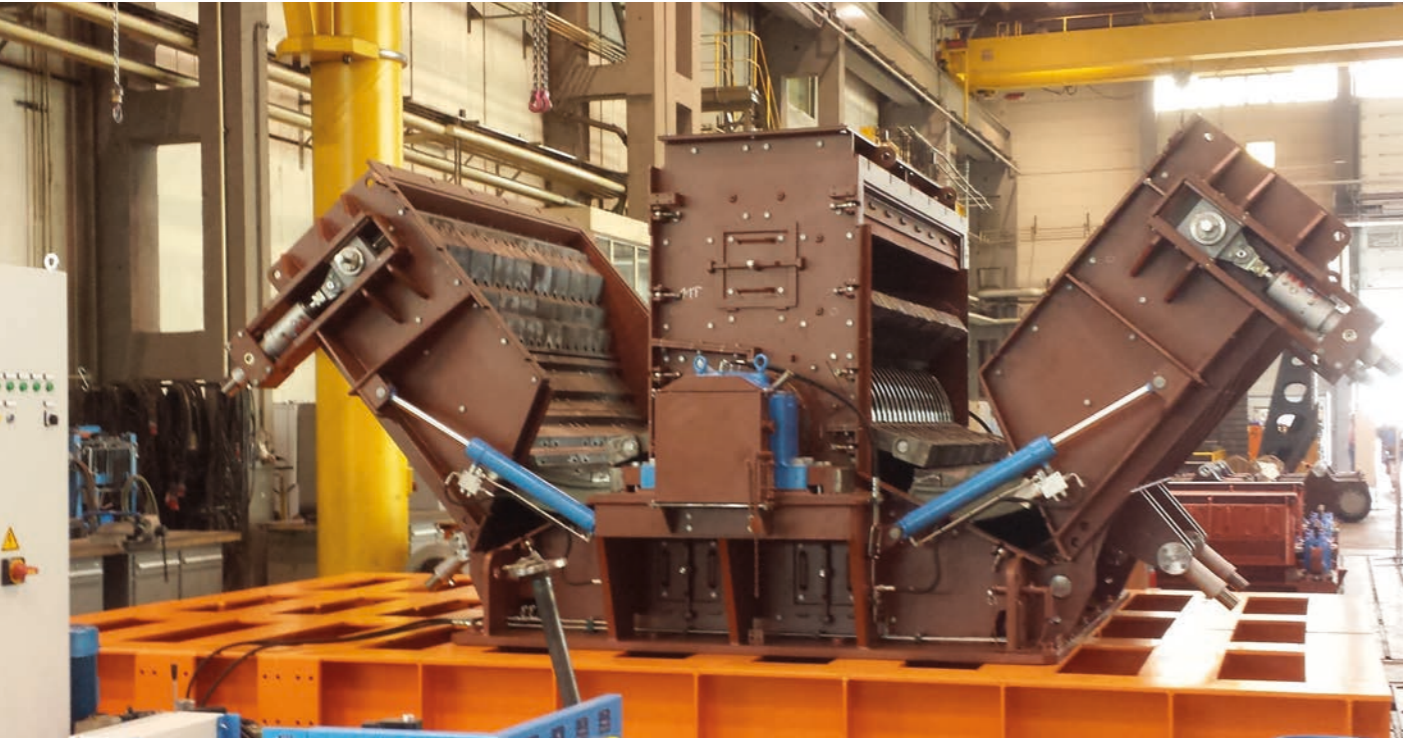
A long-term perspective based on quality, sustainability and innovation: for over 80 years our privately-owned, family-run business has developed tailor-made system solutions for conveying, loading, palletizing and packaging technologies as well as sortation and distribution systems.

All systems fulfill the most demanding specifications, by using the best material and latest technology. With our research and development efforts we can guarantee that our solutions will fit your requirements now and in the future.

CORE COMPETENCIES

- › CONSULTING
- › PROJECT MANAGEMENT
- › ENGINEERING
- › ERECTION
- › COMMISSIONING
- › QUALITY MANAGEMENT
- › MAINTENANCE
- › OPERATION
- › AUTOMATION
- › DIGITALIZATION
- › MODERNIZATION
- › TRAINING
- › AFTER SALES SERVICE

PROCESSING TECHNOLOGY – MACHINES FOR INDUSTRIAL MATERIAL PROCESSING



FAM CRUSHERS AND MILLS

- › 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

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. The product portfolio includes various crushing & screening plants, including impact, hammer, single & double-roll crushers, plus many more crushers and mills. E.g. cement works rely on the BEUMER Group’s solutions to move limestone over long distances from the quarry to the plant, making operations more sustainable and reducing the plant’s ecological footprint. We strive to be a benchmark in providing you with high quality in every aspect of your individual needs for specialized equipment.

LEARN MORE:



Double roller crusher ZWB0815MS-H, burnt lime 130 t/h, Germany



Reversible hammer mills PHM1628MVD, coal 650 t/h, China



Apron feeder AF3400x22 heavy-duty type, oil sand 7260 t/h, Canada



Roller screen RR2218, limestone 750 t/h, Kazakhstan



In-pit crushing system FZWB2025, on crawlers, overburden 5250 t/h, Uzbekistan

CRUSHERS

- › FAM designed crushers are used for crushing minerals, raw materials and other bulk commodities. The types of crushing machines are distinguished by their working principles: by pressure, impact, hammer, or shear. In contrast to mills, crushers process the feed materials into grain sizes from coarse to medium granulation.
- › The FAM product range includes impact crushers, single, double and shear roller crushers, continuous roller crushers and hammer crushers.

MILLS

- › FAM designed mills are used for comminution with a fine or ultra-fine target granulation. The types of mills are distinguished by their working principles: by pressure, impact, hammer, or shear. Mills could be equipped with a screen for grain size control and separation.
- › The FAM product range includes roller mills, hammer mills, reversible hammer mills and special hammer mills as well as appropriate roller screens.

APRON FEEDERS

- › FAM designed apron feeders are generally used to remove material from under hoppers, which are typically built from steel or concrete and sit directly above the apron feeders.
- › The conveying part which carries the material consists of pan strands composed of individual pan links. The line of pans is pulled on two parallel chain strings which through deep hardening of the chain links and targeted heat treatment of the pins and bushings create an extremely break and wear resistant chain.

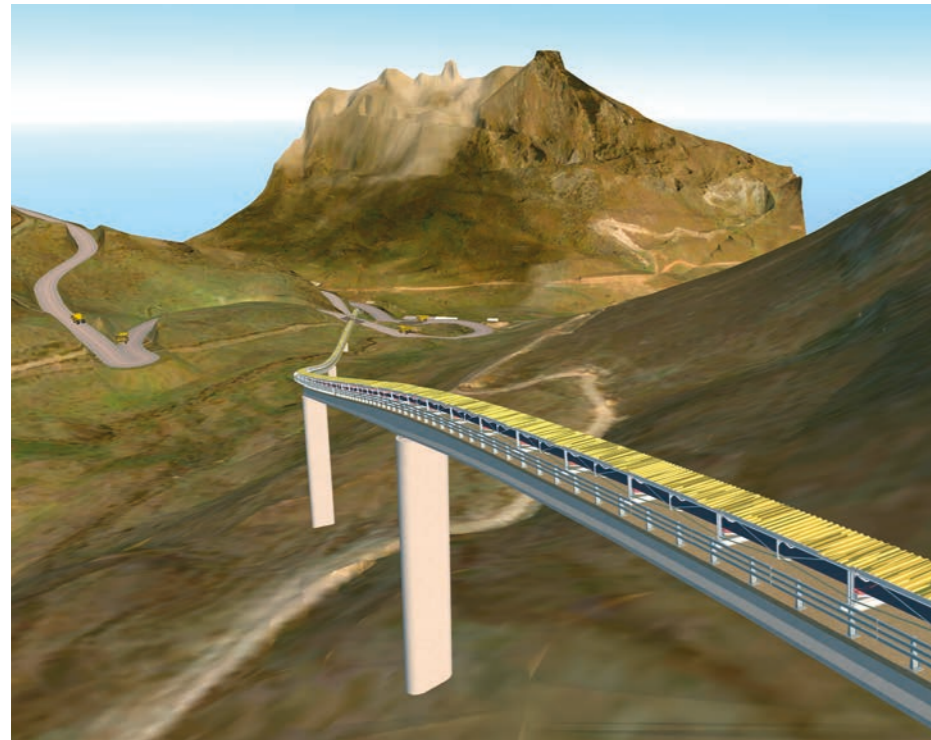
ROLLER SCREENS

- › FAM designed roller screens are sifting machines whose separation area consists of individual motorized shafts rotating in the same direction. The shafts are furnished with curved triangular or round discs which are mounted eccentrically.
- › The material movement pattern and the arrangement of the rolls ensure a gently rolling throughput of the product. Loamy, sticky adhesions to the coarse material are separated and screened together with the end product.

IN-PIT CRUSHING SYSTEMS

- › FAM in-pit crushing plants are used to reduce the size of hard materials for their further transport by conveyors. The crushed overburden is delivered onto the belt conveyor of the crusher’s discharge boom which transfers it further to the mobile conveyor bridge.

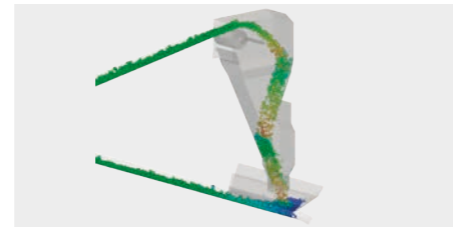
WE ARE YOUR PARTNER – FROM PLANNING TO OPERATION



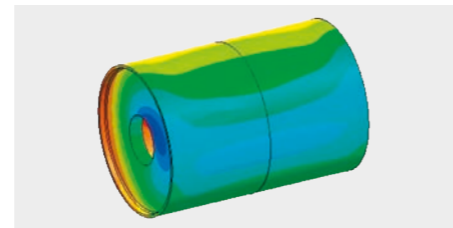
3D planning and animation



3D Drone Mapping



DEM



FEM

We will move mountains together. Depending on your requirements, we can partner with you during the entire life cycle of your systems, starting from day one of your project, with feasibility studies and 3D planning. Minimal data input is sufficient to achieve extensive 3D visualization during the early design phase. As soon as detailed results are required, we will consider the exact parameters for your project.

WE CREATE THE BIG PICTURE

- › 3D planning and animation using state-of-the-art software
- › Quick design changes
- › Support during approval processes
- › Quick determination of cut and fill volumes
- › Minimal data input necessary

ALWAYS UP TO DATA (3D DRONE MAPPING)

- › Topography & concept from one single source
- › Easy capturing of the actual environment and potential obstacles
- › Safe surveying method (no need to be physically present in the area)
- › Time-saving and precise planning based on up-to-date topography
- › Reduces project lead time

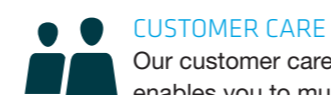
CONNECTED SYSTEMS (IOT/BIG DATA)

- › Interactive monthly reports to visualize the system performance, KPIs and scheduled service intervals
- › Notification features to receive failure messages, service intervals reminders and status updates
- › Continuous data analysis to optimize the entire system

DOWN TO THE LAST DETAIL:

We leave nothing to chance. We use proven methods like DEM and FEM in order to guarantee minimal failure rates and long durability of our machines, ensuring compliance with the highest quality standards.

SIMPLY WORLD-CLASS CUSTOMER SUPPORT



CUSTOMER CARE

Our customer care programme enables you to multiple service options, such as maintenance and repair on site through our field service engineers or regular safety checks according to statutory rights. If hardware replacements are needed, our comprehensive warranty service ensures you are always covered.



MODERNISATION

We are constantly developing new ways to upgrade our software and hardware to extend a system's lifetime, lower energy costs and increase efficiency. We will keep you informed of all relevant upgrade opportunities, based on an understanding of your business and system needs.



TRAINING AND QUALIFICATION

We offer standard and tailored customer training programmes to make sure your teams are fully qualified to operate your systems. With hands-on guidance, conducted either on-site or at BEUMER Group locations, your teams can maintain optimal operational performance.



SPARE PARTS LOGISTICS

We guarantee spare part replacements around the world through our local companies. As a BEUMER Group customer, you will have your own individual contact to assist you with technical inquiries, warranty issues or repair orders and to secure that your order is delivered on time.



HOTLINE SUPPORT

Our hotline support is manned 24/7 by highly trained, multi-skilled engineers who all have at least four years of direct field experience. Most cases are solved remotely, however, should the problem require more specialised attention, a BEUMER Group engineer will be quickly sent out.



RESIDENTIAL SERVICE

With our residential service, we are on-site every day to take complete responsibility for your system uptime, performance and operational efficiency. We can take care of all maintenance and management, including system improvements, contingency plans, specialist advice and repairs.

BEUMER Group GmbH & Co. KG
P. O. Box 1254 · 59267 Beckum, Germany
Phone +49 (0) 25 21 - 24 0
Fax +49 (0) 25 21 - 24 280
E-Mail info@beumer.com

www.beumer.com

FAM Minerals & Mining GmbH
member of BEUMER Group
P. O. Box 3540 · 39010 Magdeburg, Germany
Phone +49 (0) 391 - 6380 - 0
E-Mail fam@beumer.com

www.fam.de

BEUMER reserves the right to make modifications
that serve technical progress.



**MADE
DIFFERENT**

Products and technologies with the BEUMER label „made different“ are characterized by enhanced sustainability. It is based on their economic, ecological and social performance evaluated by the BEUMER Sustainability Index (BSI).