



GSZ COMPANY MINERAL PROCESSING SOLUTION

Introduction

As a pioneer in mineral processing plant design and manufacturing, Ghader Sanate Zagros (GSZ) Co. offers a wide range of eco-friendly solutions to mineral industries. Our goal is to employ the most advanced mineral processing technology that meets all the requirements of our clients. These offered technology fit to the process design for a variety of ores and industrial minerals. Our services are supported by the knowledge of our experienced team of engineers, technicians and operators.

Benefits

- Fully integrated solution offering with optimized total expenditure for the entire operation life cycle
- Extensive range of mineral processing technologies that can be applied in the process design for all type of ores and industrial mineral
- Comprehensive techno-economical services include pre-feasibility, feasibility, complete mineralogical and metallurgical studies, design, manufacturing, installation and commissioning
- Plant within single-point responsibility (I do not know what is this)
- Experienced staff by proved background in mineral industries

Mineral processing applications

GSZ provides front-line process solutions for a wide variety of mineral processing applications:

- Lead and zinc Ores
- Copper minerals
- Iron ore
- Precious metals
- Chromite ores
- Waste Damp
- Refractory Minerals
- Feldspar minerals

GSZ offers its range of services from supplying the equipment to perform turn key projects. It offers cutting edge solutions that backed by its experts' knowledge and extensive experiences in mineral industries. Our research and development team is active in both design purposes and technology development.

GSZ research department is able to design and conduct any required testworks in both lab and pilot scale.

GSZ's MINPLUS managerial® software offers a solution to better process control by using the data received from the plant.



Heavy Media Plant

GSZ Activities Category

We deliver a broad range of solutions from supplying an individual spare part, flowsheet development, and maintenance services to a turn-key level that includes all pre-feasibility and feasibility studies to commissioning and training the plant operators. GSZ works on variety of mineral processing and metallurgical process from A to Z.

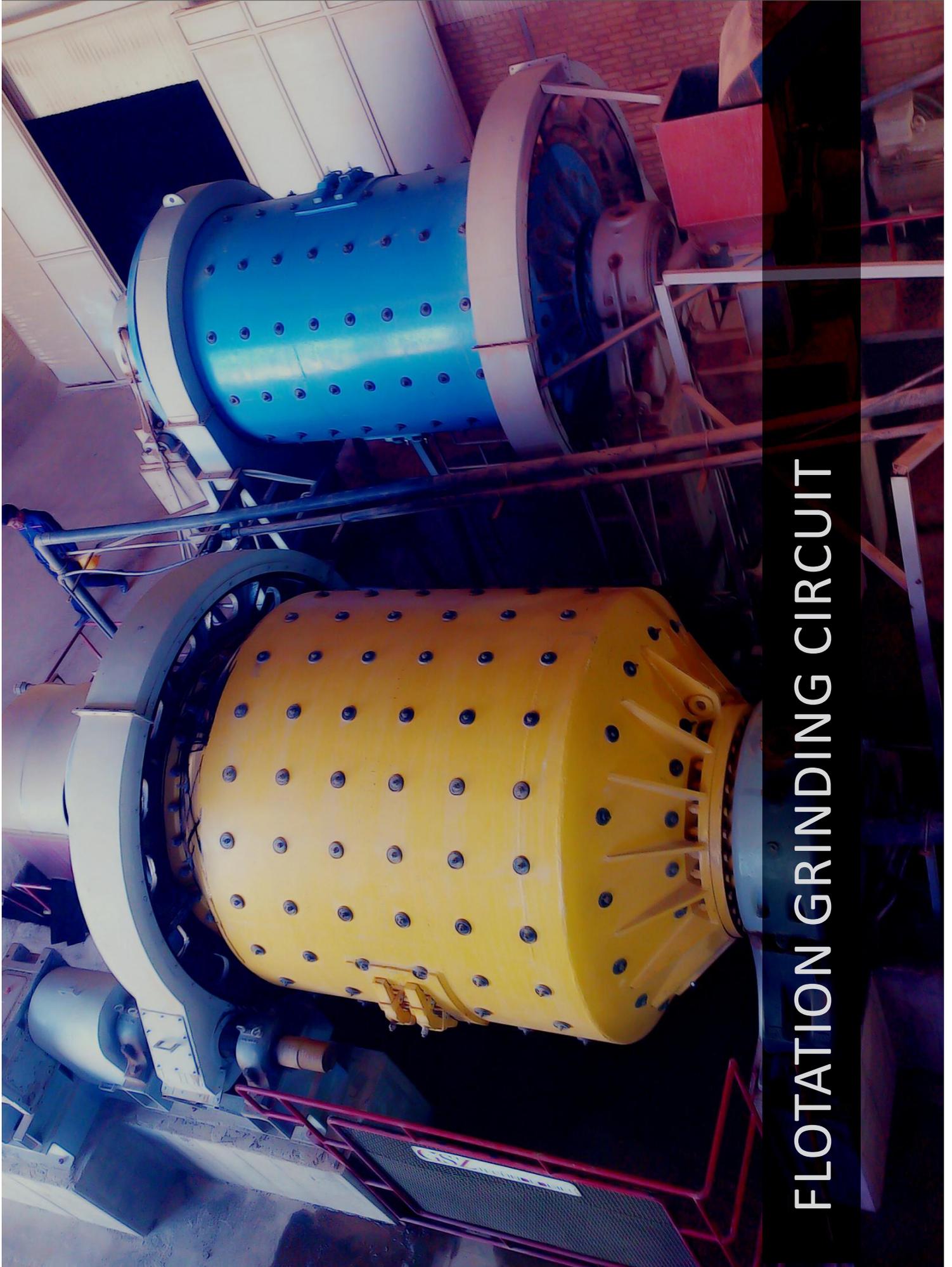
Grinding Circuit

GSZ group is highly experienced in design and manufacturing of complete grinding circuits for mineral industries. Wet and dry grinding circuits can be designed for minerals and ores with different work indices.

DMS Plant

Our modular dense medium separation (DMS) plants ensure the optimized gravity separation of valuable minerals from their gangue under certain circumstances. The most popular DMS plant manufactured by GSZ is the 50tph that has been widely used for the processing of diamond ore, chromite, Andalusite, iron, Lead and zinc ore and other heavy minerals.

All of our DMS plants can be supplied with customized feed preparation circuits. A spiral separator module can also be included to maximize mineral recovery and minimize the medium loss.



FLOTATION GRINDING CIRCUIT

Grinding

Both dry and wet grinding circuits that include classifiers and related accessories for the variety of ores and minerals are designed and manufactured by GSZ. We offer a complete spectrum of engineering services, including testing, process design, installation, commissioning, start-up, operator trainings and lifetime product support and services.

Using our high quality products and relying on the knowledge of GSZ's experienced personnel will result the highest level of technical and financial efficiencies. We work with our client for the entire life of the project. We are committed to provide services to our customers with a strong regular on-site inspections.

Grinding equipment

Our standard line of equipment for wet and dry grinding systems include complete range of:

- Mills with alumina lining
- Ball Mills
- Rod Mills

Each of the different types of grinding mills are available in a variety of sizes, drives and liner types and configurations at highest quality to meet the client's requirements.



Ball mill that is made for grinding circuit in flotation process



Ball mill that is used for hard mineral grinding in SETABRAN company.



Rymond's mill that is used for grinding soft mineral in SETABRAN company [Iran, Qazvin]



Ball mill that is designed for grinding circuit in ILZIMCC flotation plant. [Iran, Zanzan]

Gravity Separation

Application of this method of processing offers an eco-environmental friendly alternative, especially for up-grading of gold and PGE ores.

GSZ has significant expertise using these techniques to treat a wide range of commodities including gold, tin, lead/zinc, platinum, Coal, Chromite and mineral sands. These units are usually applied in complex gravity circuits along with other processing methods to assure the highest possible recovery.

Expertise and innovation

GSZ has developed an innovative techniques to determine the optimum feed size required for an efficient and enhanced gravity concentration. While 50 tph spiral classifier, manufactured to remove -0.5mm particles from dense medium separation and feed 50 tph Scrubber, installed in DMS circuits



Two classifier that is made to separate particles more than 0.5 millimeter in HMS plant.



Scrubber that is installed in HMS process to scrub lead and zinc minerals for SADID co. [Iran,Zanjan]



HEAVY MEDAI (DMS) MODULAR PLANT

Dense Media Separation Equipment

Under certain circumstances, dense media separation plants can be considered as an effective pre-concentration process to be followed with other unit operations such as flotation. This provides a cost effective solution for processing the ores especially for complex ones.

GSZ provides variety of services for dense media separation solution including flowsheet development, pilot scale testing, plant manufacturing and plant audit and optimization services.

OUR experts provide dense media separation (DMS) services for diamond ore, chromite, Andalusite, iron, Lead and zinc ore and other heavy minerals.

We offer our services at shorter time than any other manufacturers and guarantee the quality and cost-effectiveness of our services.

We design and simulate complete process that assures our customers to get high recovery and performance from their modular plant.



Two Modules of heavy media for Lead and Zinc Pre-concentration - 30tph



FLOTATION PROCESS



Flotation technology and services

Froth flotation is a process for selectively separating hydrophobic materials from hydrophilic. That makes the processing of the complex ores, economically feasible. Our flotation solution is applied to wide range of sulfides, carbonates and oxides ore such as lead and zinc carbonate and complex sulfide ores of lead, zinc, copper, molybdenum, Nickel and etc.

We design the flotation process based on laboratory and pilot scale studies for any particular ore. Our professional and experienced engineers, design and simulate flotation process by newest software and techniques to achieve the best possible results in terms of recovery and grade.

We consider cost-effective, eco-friendly and user-friendly factors in our design with complete services for training, operating, maintenance and spare part supply.



Sulfide and oxide lead and zinc concentration plant

MINERAL PROCESSING SOLUTION

This company is known as a pioneer in mineral industries with more than 20 years of experience in flowsheet design and optimization. GSZ Company offers comprehensive mineral processing solutions to its clients according to their specific requirements.

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