Grinding solutions

Industrial minerals and recycling, ores, raw materials for ceramics, glass and fertilizers

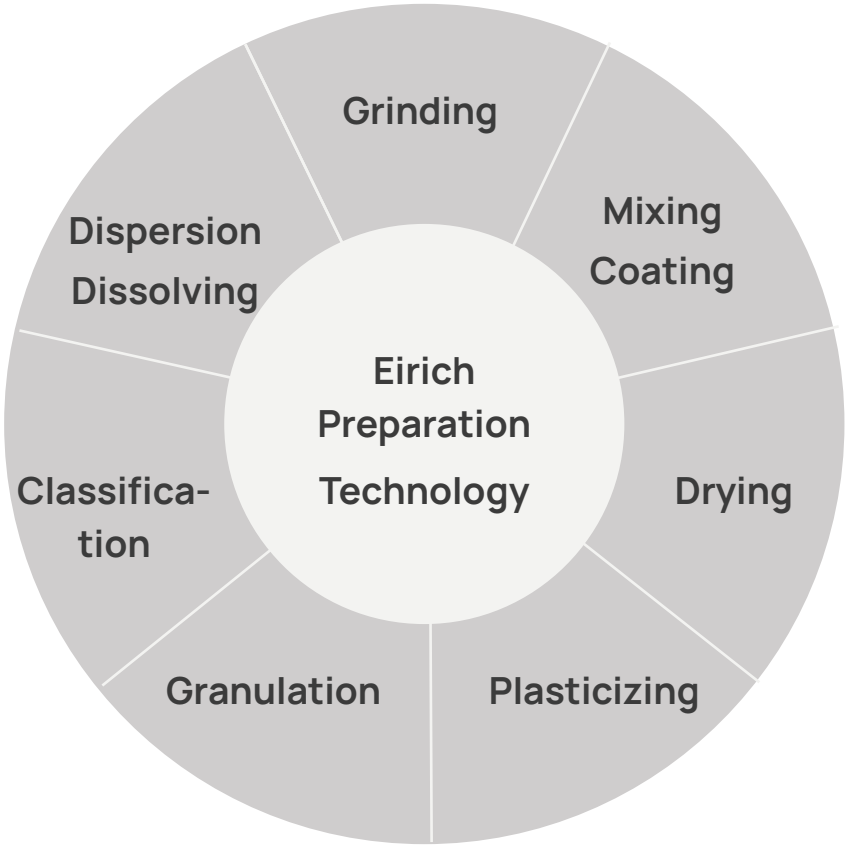
EIRICH

The Pioneer in Material Processing®

Grinding solutions – custom-tailored and effective

Grinding is an important process step in the preparation of raw materials through to the recycling of residues. The effectiveness and efficiency of the size reduction process have a critical influence on the cost-efficiency of the production process as a whole. In addition the selection of the optimum grinding solution has a vital influence on the quality of the finished product.
Grinding technology has a long tradition at Eirich. Starting with a mill workshop in 1863, a constant flow of new mills have been developed and manufactured over the years for a wide spectrum of applications.

Today Eirich offers a range of mills and supplementary units for the very fine grinding of soft to very hard materials. They are also used for wet and dry grinding of very hard and highly abrasive materials.



Eirich stands for a comprehensive range of products and services in the field of industrial preparation technology.

- Active coal
- Alumina
- Barite
- Bauxite
- Bentonite
- Brucite
- Calcium carbonate
- Carbon black
- Cement
- Ceramics
- Chamotte
- Clay
- Copper ore
- Dolomite
- Feldspar
- Fertilizer
- Fly ash
- Glass
- Glazes
- Gold ore
- Graphite
- Gypsum
- Hydrated lime
- Iron ore
- Kaoline
- Magnesite
- Olivine
- Pitch coke
- Pigments
- Potash
- Refractories
- Quicklime
- Rock phosphate
- Slag
- Talc
- Titanium ore
- Titanium dioxide
- Zirconium oxide

Grinding and classifying – the right way!

Eirich offers a broad range of different types of mills that are designed for the dry and wet grinding of brittle materials. It is a well known fact that there is no single mill that is optimally suitable for every size reduction task. The selection of the right grinding system for each specific task is therefore critical for ensuring that the desired results are achieved in terms of quality and economics.

On the basis of the available systems with grinding and classifying technology, we develop a concept for you which is suitable for your individual application. In this connection the use of our own test grinding systems has proved particularly valuable, especially for challenging size reduction tasks, feasibility studies or customer-specific optimization.

Make the most of these possibilities
– our professional team will be glad to advise you!

MaxxMill®
Vertical agitated media mill
Dry and wet grinding, also iron free,
of brittle and very abrasive materials

Final product: d97 = 5 up to 150 µm
Feed material: up to 2 mm
Hardness: up to 9 Mohs

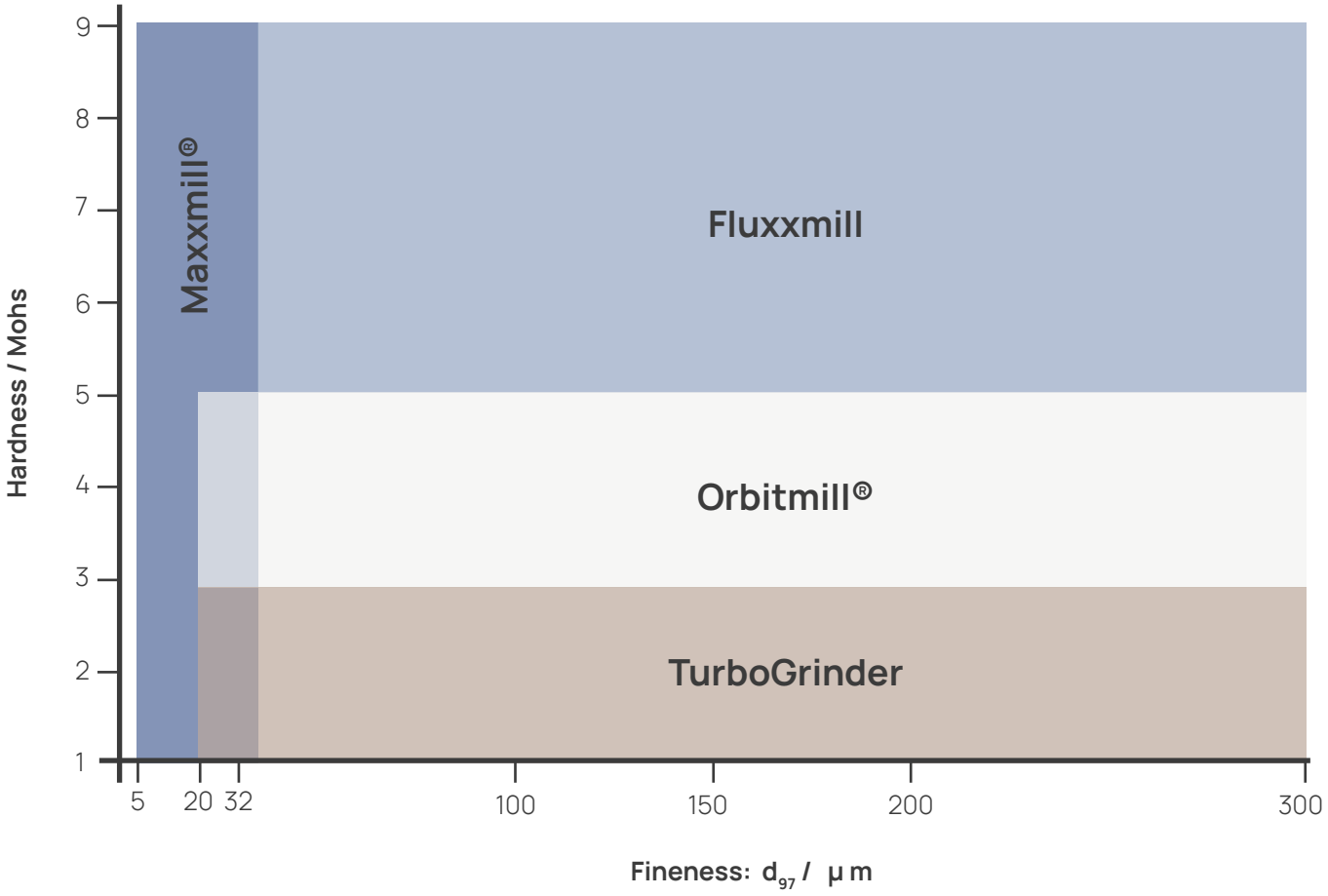
TowerMill
Vertical agitated media mill
Dry and wet grinding
of brittle and abrasive materials

Final product: d80 = 20 up to 150 µm
Feed material: up to 10 mm
Hardness: up to 7 Mohs

FluxxMill
Horizontal ball mill
Dry grinding, also iron free,
of brittle and very abrasive materials

Final product: d97 = 20 up to 500 µm
Feed material: up to 30 mm
Hardness: up to 9 Mohs

1) Drying with hot gas possible



TurboGrinder
Impact mill with incorporated air classifier
Dry grinding, disagglomeration of brittle and less abrasive materials

Final product: d97 = 20 up to 400 µm
Feed material: up to 30 mm
Hardness: up to 3 Mohs

OrbitMill®
Centrifugal ball mill with incorporated air classifier
Dry grinding
of brittle and abrasive materials

Final product: d97 = 20 up to 400 µm
Feed material: up to 20 mm
Hardness: up to 5 Mohs

MaxxClass
Dynamic air classifier
For inline and offline classification
Single and multi wheel design
Wear protected design possible

Fines: d97 = 5 up to 300 µm

Eirich-Systems Engineering
The complete "one-stop" solution

Processes, Engineering, Machines, Equipment, Control and Service

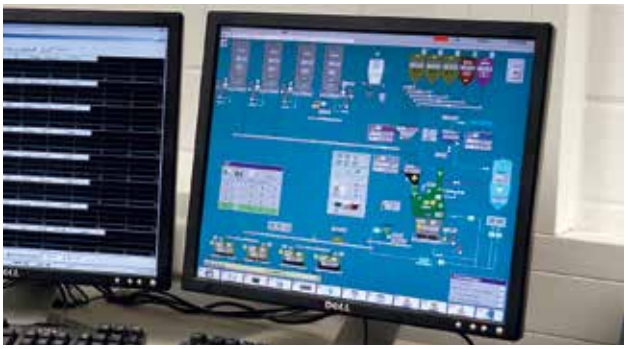
Eirich offers system concepts with the lowest possible number of organizational interfaces. This ensures that the project is handled extremely efficiently, with consistent implementation from the planning stage right through to commissioning. If the conditions at the site permit, Eirich are capable of installing completely new technology even while the system is running.

The use of state-of-the-art modular systems engineering also offers additional benefits which can drastically reduce on-site outlay.

Expertise in systems engineering – worldwide

- New installation
- Conversion
- Modernization
- Expansion
- Optimization

Granulating mixer



Control system

TurboGrinder

Systems engineering

The Eirich Group has test grinding systems at three locations around the world. These are used for developing custom-tailored grinding solutions together with customers and users. They can take the form, for example, of feasibility studies for challenging grinding tasks, scale-up trials or customer-specific optimizations.

We therefore make both laboratory mills for the grinding of small volumes and grinding systems for long-time production scale testing available to our customers. The Eirich test laboratories are equipped with modern particle and bulk material measuring equipment.

Maschinenfabrik Gustav Eirich GmbH & Co KG

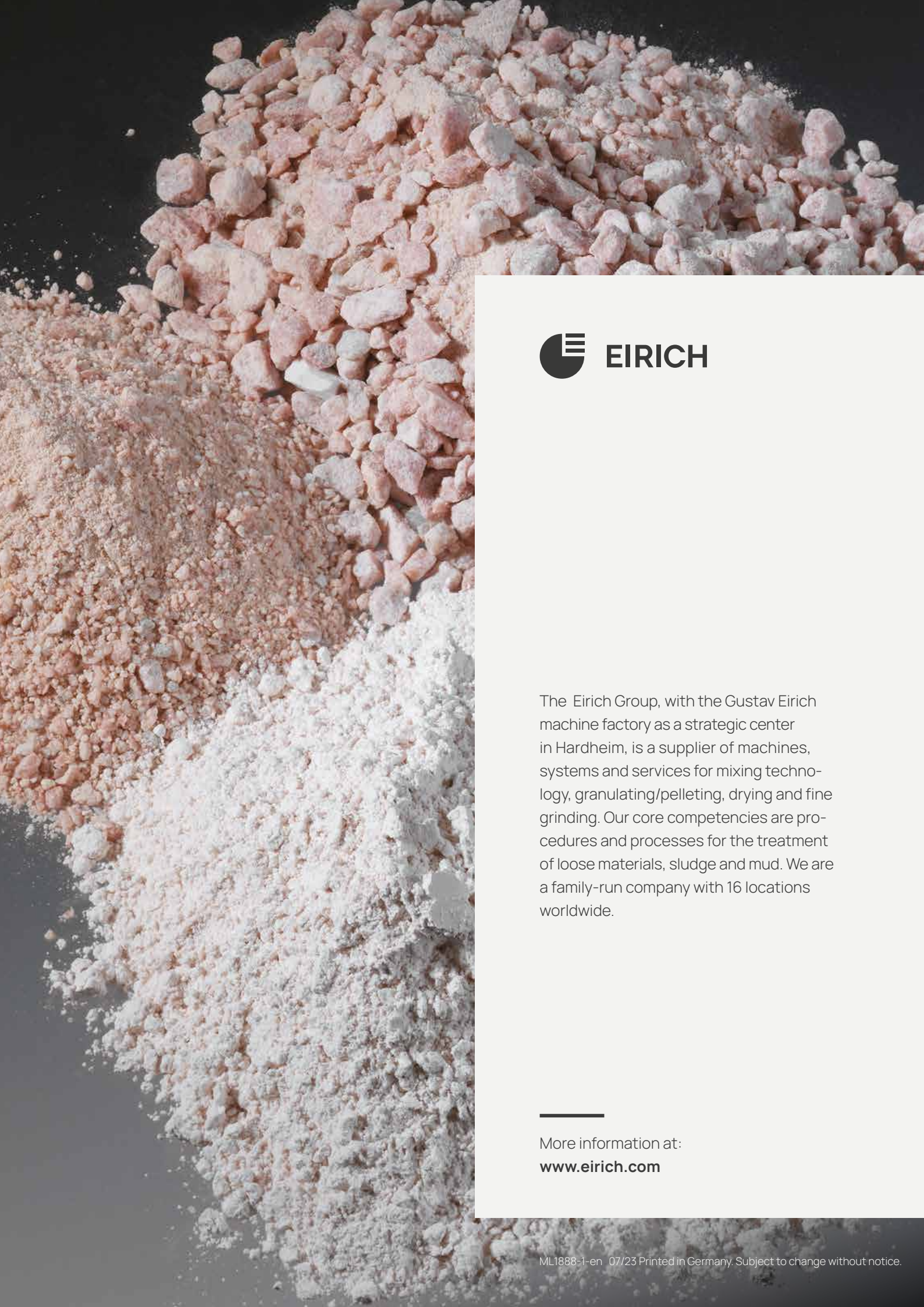
Equipment:
Grinding: MaxxMill®
Classifying: MaxxClass
Dispersion: MixSolver®
Test laboratory

Eirich Impianti S.r.l.

Equipment:
Grinding: OrbitMill®, FluxxMill, TurboGrinder, Hammer Mill, Roller Crusher
Classifying: MaxxClass
Dispersion: MixSolver®
Test laboratory

Nippon Eirich Co., Ltd.

Equipment:
Grinding: TowerMill
Classifying: Hydrocyclone
Dispersion: MixSolver®
Test laboratory



EIRICH

The Eirich Group, with the Gustav Eirich machine factory as a strategic center in Hardheim, is a supplier of machines, systems and services for mixing technology, granulating/pelleting, drying and fine grinding. Our core competencies are procedures and processes for the treatment of loose materials, sludge and mud. We are a family-run company with 16 locations worldwide.

More information at:
www.eirich.com

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