EIRICH

OrbitMill®

For fine grinding of industrial minerals and recycling

- Final product: d_{97} = 20 up to 400 µm
- Feed material: up to 20 mm
- Hardness: up to 5 Mohs

The Pioneer in Material Processing®

The OrbitMill® in a glance

- Centrifugal ball mill
- Similar plant layout and operation than conventional roller mills
- Simultaneous grinding and drying possible
- Incorporated air classifier

Advantages

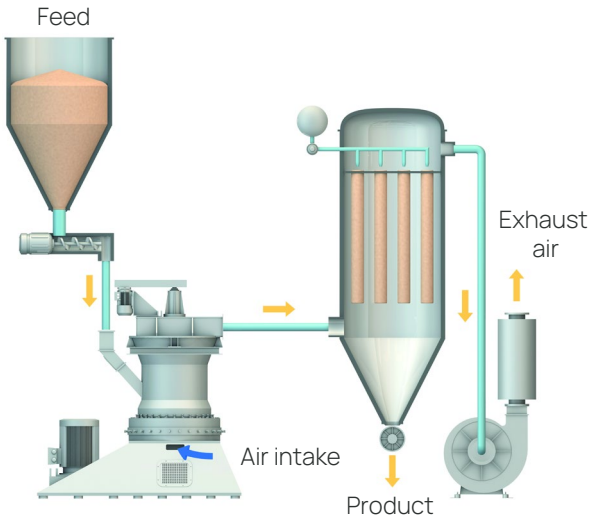
- Simple machine construction
- No heavy foundations required
- Light and easily exchangeable wear parts
- Low maintenance costs
- Machine downtime reduction

Materials

Limestone	Glass	Coke	Calcite	Recycling	Hydrate lime
Dolomite	Clay	Phosphate rock	Magnesite	Zeolite	...
Gypsum	Active carbon	Barite	Olivine	Chamotte	

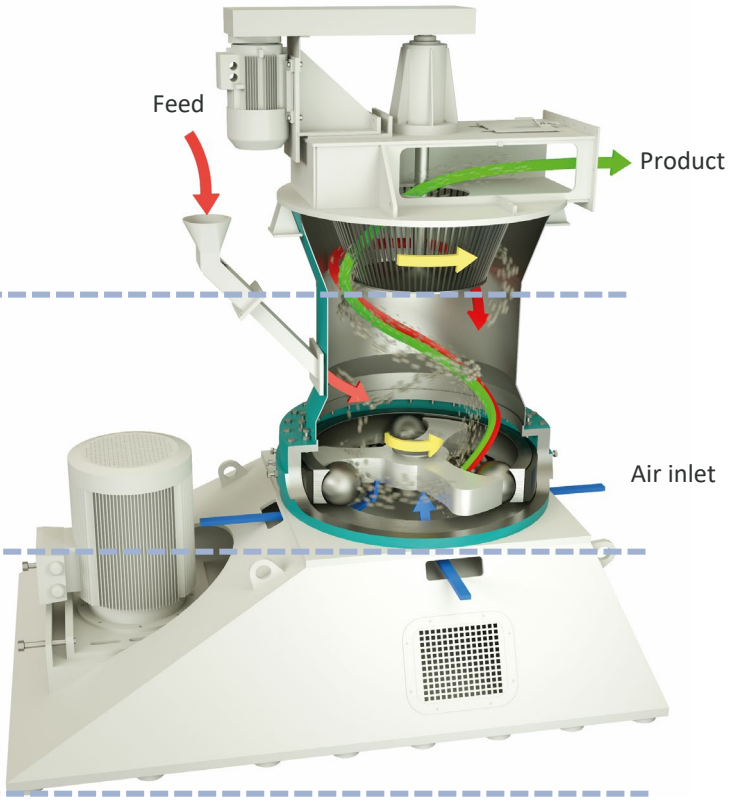
Operation Principle

The mill rotor moves the grinding ball along the orbit/grinding ring. Due to the centrifugal forces acting on each grinding ball the material to be ground is reduced by pressure and friction between the balls and the orbit. The airflow allows a continuous process. The product fineness is adjustable by the speed of the incorporated dynamic air classifier.



Mill size OM	Diameter mm		Ball Number	Motor power kW	Airflow m³/h	Capacity t/h Lime stone		
	Orbit	Ball				d_{97} = 20 µm	d_{97} = 40 µm	d_{97} = 105 µm
70	710	160	4	22	4800	0.5	0.9	1.8
100	1000	260	4	37	7000	0.8	1.5	3.2
120	1200	260	6	55	11000	1.2	2.2	4.7
150	1500	400	4	75	13000	1.6	3.3	6.0
160	1600	360	6	90	12000	2	4	7.2
180	1800	400	6	132	20000	2.8	4.7	8.8
180 A	1800	480	6	160	23000	3.5	5.7	10.6
200	2000	500	6	200	24000	4.4	7.2	13

No bearings in the grinding area!



Classifier area

Grinding area

Base area

OrbitMill® - Container solutions

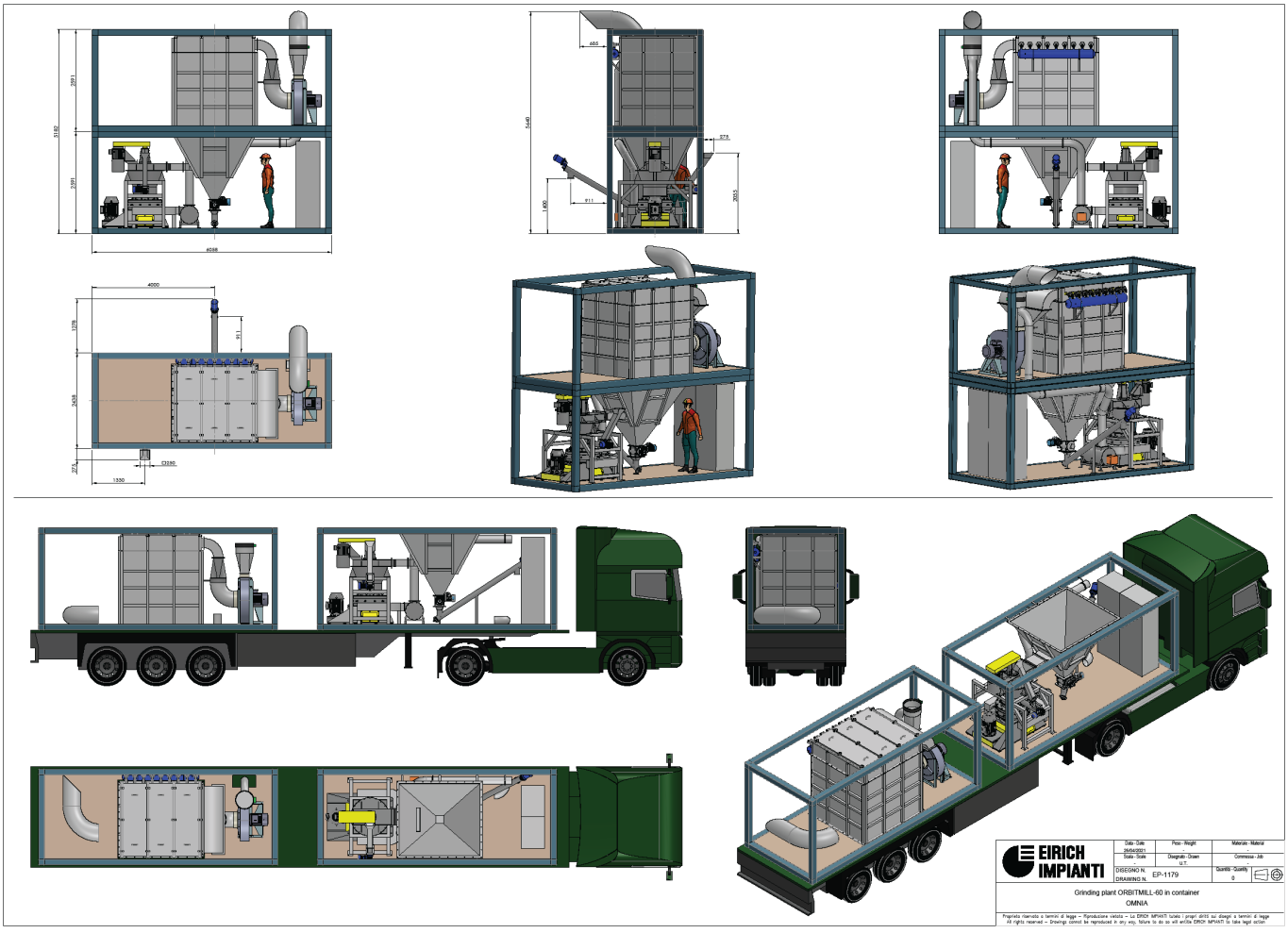
Containerized systems are ideal for cases of locations that are:

- Difficult to reach
- Temporary solutions
- Sismic areas

Advantages

- Pre-tested
- Quick and easy installation
- Lower investment costs
- Ease of expansion
- Simple maintenance and disassembly
- Movable to different locations

OrbitMill® Model	Number of trucks
70	1
100	2
160	4



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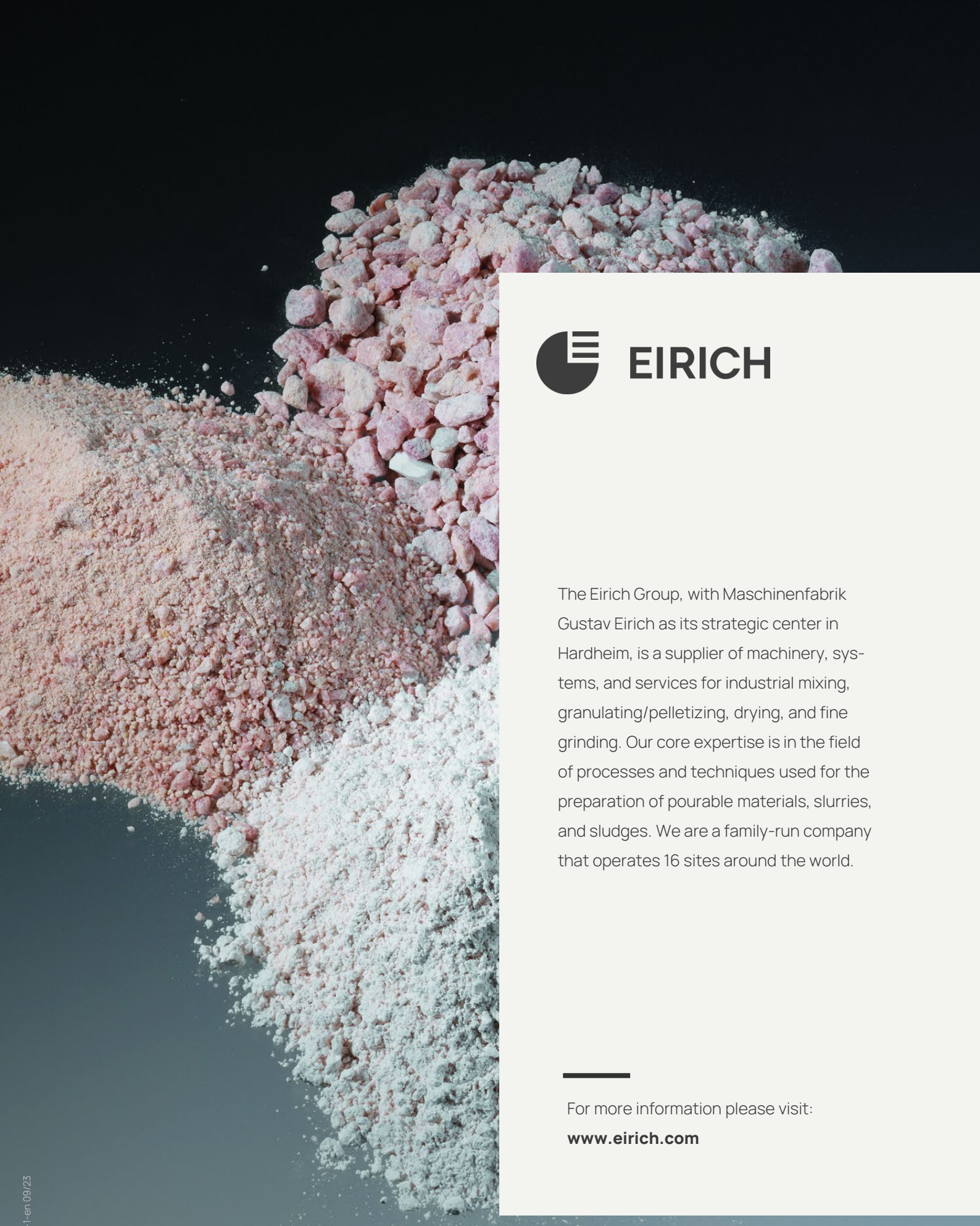

EIRICH

The Eirich Group, with Maschinenfabrik Gustav Eirich as its strategic center in Hardheim, is a supplier of machinery, systems, and services for industrial mixing, granulating/pelletizing, drying, and fine grinding. Our core expertise is in the field of processes and techniques used for the preparation of pourable materials, slurries, and sludges. We are a family-run company that operates 16 sites around the world.

For more information please visit:
www.eirich.com

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