PLATTMANN CONSULTING

# LIME

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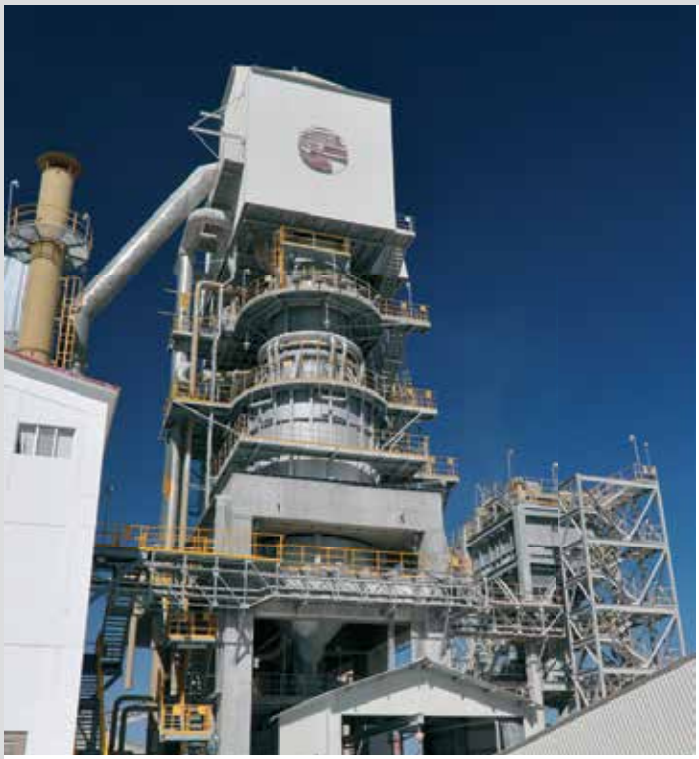
As technical consultants for industrial plants we look back on a long lasting experience in third generation. We combine approved know-how and best-in-class technology to provide reliable and innovative solutions for the process industries.

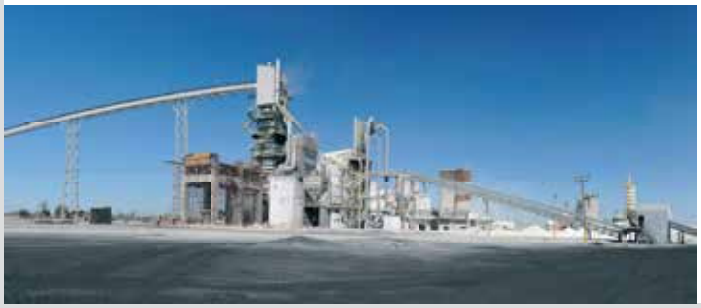
Lasting profitability is ensured by developing tailor-made solutions for the special technical requirements of our clients. The range of applying successfully field-proven solutions covers the optimal integration of different project phases as technical feasibility study, realization, commissioning and after sales service.

For us, a personal and an exceedingly customized consulting is self-evident. In our long standing relationships with all our clients we are always very concerned to meet this claim.

With our world-class partners presented in this folder we possess the best conditions to provide our clients with top-quality technology and equipment.

Meeting global requirements we provide technology transfer from Europe to Latin America.





**PFR kilns are available in the following type series:**

- **Rectangular kilns** with a direct crossover channel for capacities of 100-400 tpd of burnt lime

- **Circular kilns** with a crossover channel, which is executed as an annular channel, for capacities of 300-850 tpd of burnt lime

- **Finelime kilns** with a special geometry of the cooling zone and a special charging device for the feed material, for capacities of 300-500 tpd of burnt lime.

## CALCINING AND PROCESSING TECHNOLOGY

MAERZ Parallel Flow Regenerative Shaft Kilns are characterized by two vertical shafts connected to each other by a cross-over channel. This allows for parallel flow heating, i.e. the parallel flow of the feedstock and combustion gases in one shaft and the regenerative preheating of the feedstock by the mixture of combustion gases and cooling air in the second shaft.
The parallel Flow Principle is ideal for producing highly reactive quicklime and burnt dolomite.
PFR Kilns are used for capacities between 100 and 850 tpd and can be fired with gaseous, liquid and pulverized solid fuels.
Heat consumption figures are in the range of 3600 kJ/kg of lime, (850 kcal/kg or 3.1 MM B.T.U/ton), and are thereby the lowest for all lime kilns.
The grain sizes of the limestone or dolomite to be calcined are usually between 25 and 180 mm (1" and 7").
To date, approximately 500 kilns, and calcining plants, have been built for the lime and dolomite industry in some 60 countries worldwide.

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