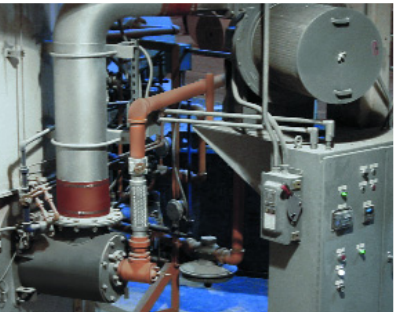


We can deliver

- **Increased production**
More tons per hour
- **Reduced downtime**
More process availability
- **Lower energy consumption**
Less dollars per ton
- **Improved product quality**
Less scrap
- **Reduced maintenance labor costs**
More profit per ton
- **Lowest emissions**
As low as you need for your "green" goals or regulations requirements



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Gypsum Heat Processing Technology



Our systems designs are used worldwide on board kilns, calcining systems, rock dryers, cage mills, and process heating systems.

Committed to providing innovative solutions to the gypsum industry

Your source for efficient and effective heat processing technology

Fives North American, a world leader in heating systems and combustion technology, has a long history of servicing the gypsum industry's needs. We engineer, design, manufacture, install, and commission a wide range of heat processing equipment for the gypsum industry.

Heat processing systems for Gypsum

There are unique and critical relationships between process heat and product.

Dryers are most productive when the air temperature is very uniform, distribution is optimal and the humidity ratio is correct.

Kettles are highly efficient and productive when heat transfer is at a maximum and exhaust temperatures are as low as possible.

Hot gas generators are more productive when the air discharge

temperature is highly uniform as it enters the mill.

Maintaining these conditions is among the most important operating parameters for quality gypsum production.

From burner and control systems to complete calcining kettles and hot gas generators we deliver well defined solutions to meet your specific needs.



Mill Heater Assembly

A complete turnkey, refractory-free, low maintenance Fives North American mill heater.



Fives North American's systems and services include:

- **Turnkey projects.** Concept development, engineering design, installation and startup of complete kettles, hot gas generators and board drying systems.
- **Combustion systems.** A wide range of products and capabilities, including burners, fuel trains and fans, to create optimal combustion solutions.
- **Controls.** State-of-the-art process control systems for performance improvement.
- **Emissions mitigation.** Best available control technology for controlling NOx and CO emissions.

- **Maintenance & tune-up.** Refractory maintenance and combustion system tune-ups.
- **Code compliance.** We assure compliance with applicable NFPA and FM codes.
- **Consulting.** Studies of environmental, production, safety and efficiency issues.

We provide innovative solutions

Hot gas generators. Our unique injection mixing air heater designs provide exceptional temperature uniformity for the highest production in the smallest possible footprint while increasing responsiveness and decreasing maintenance.

Kettles. Using our unique performance analyzer, based on heat transfer principles, we build new and can update existing kettles with guarantees of efficiency, production and emissions.

Board Kilns. Heating systems with dual fuel capability combine the best available emissions control technologies with operational flexibility.

Grinding mill heaters. Turnkey installation of packaged mill heaters with no internal refractory replaces maintenance intensive lined systems.

