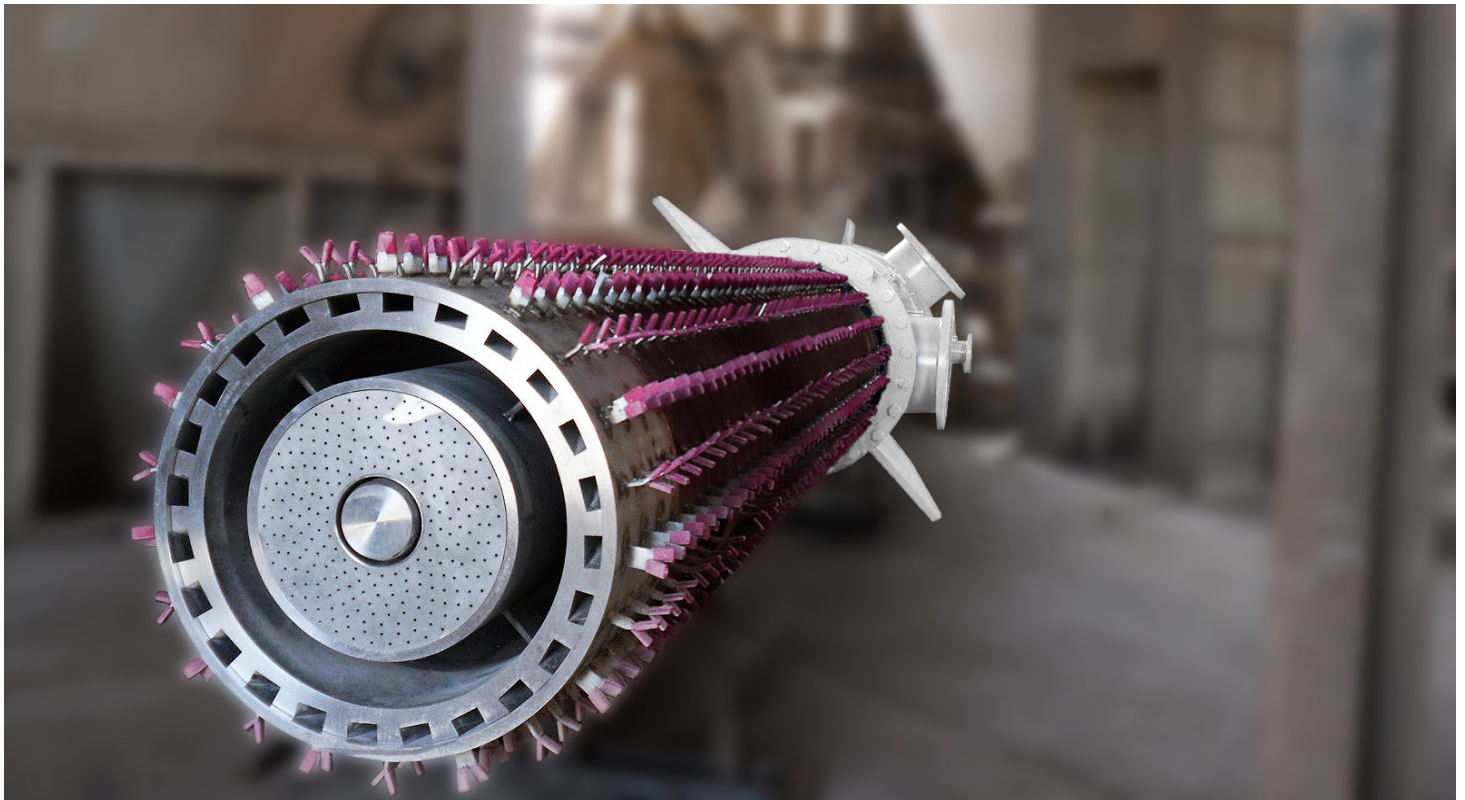


Pillard PRECAFLAM™

Multi-channel burner for cement kilns precalciners



Tailor-designed to suit any precalciner type, firing gaseous, liquid and solid fuels

- Reduction of CO emission
- Reduction of unburned particles
- Higher substitution rate of alternative fuels
- Custom designed for each type of calciner (DDF, RSP, SLC, ILC)

High combustion efficiency within cement kiln precalciners

DEDICATED DESIGN

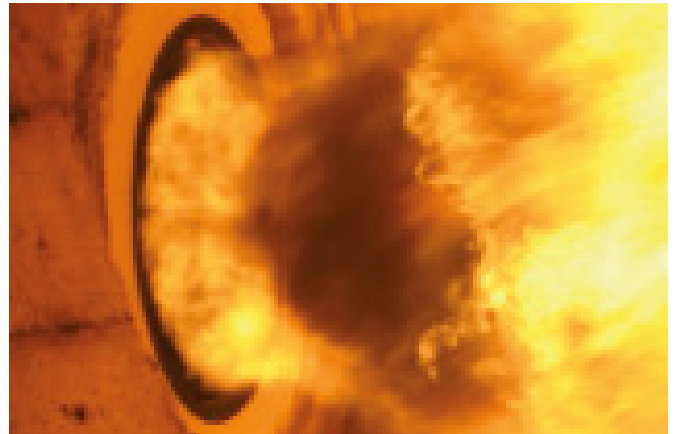
Pillard PRECAFLAM™ burners are tailor-made to fit each installation. When developing a product, Fives engineers take into account geometrical arrangement, kiln/precalciner ratio, retention time, combustion characteristics of each fuels in order to reach the highest efficiency.

IMPROVED FLAME STABILITY, HIGH EFFICIENCY

Thanks to its patented flame stabilizing device, Pillard PRECAFLAM™ ensures prompt ignition of any fuel type and improved flame stability. It fires efficiently all conventional fuels, liquid wastes and alternative solid fuels

ADVANCED CFD STUDIES FOR INCREASED PROFITABILITY

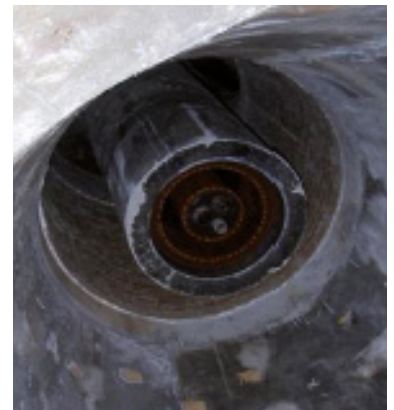
Fives performs CFD simulations to evaluate the required burner numbers and locations. As a result, optimum fuel/air mixing is achieved allowing improved firing rate of lower cost alternative fuels.



REDUCED EMISSION ON LOW CAPEX BASIS

Dedicated burners associated with in-house CFD simulations achieve excellent results in NOx and CO emissions reduction, lowering the operational cost of the SNCR system.

With Pillard PRECAFLAM™, Fives proposes improved solutions for precalciner firing at low CAPEX, and ensures a fast return on investment.



Over **500** references of Pillard PRECAFLAM™ burners worldwide. List available on demand.

Key features	
Fuels	Natural gas, fuel, coal, petcoke, anthracite, alternative solid fuel
Output range	from 5MW to 180MW
Position	Horizontal, inclined, vertical
Primary air pressure	60 to 200 mbar
Primary air amount	3 to 10 % of total combustion air

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