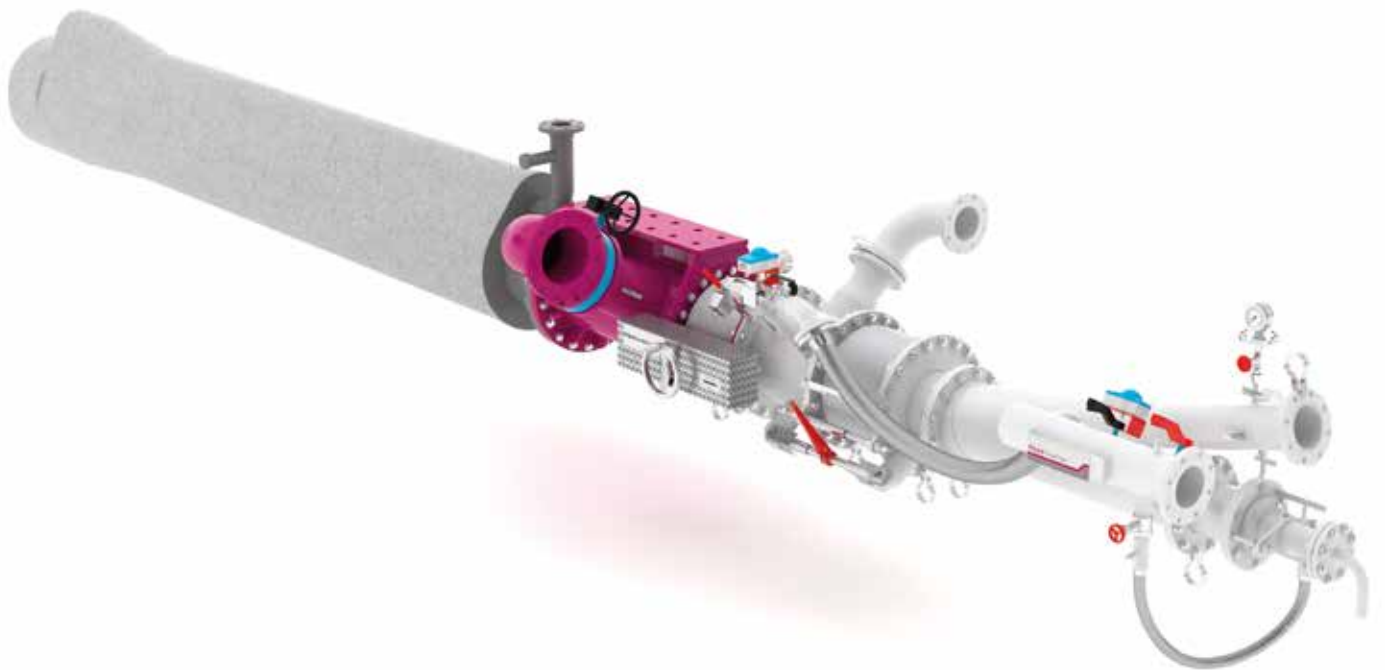


Pillard NovaFlam[®]

Rotary kiln burner



Premium firing technology for the cement industry

- Easy to use and to maintain
- Eco-designed burner, tailor-designed for each customer
- Improved clinker quality
- High combustion efficiency with a high ASF rate up to 100% fluff
- Proven and cost-effective technology



Pillard NovaFlam® is Fives' latest generation of multi-channel burners for the cement industry.



Understanding cement plant challenges

Based on a long experience in designing and supplying ultimate combustion systems, Fives provides high performance solutions for the cement industry. Tailor-made to each kiln and process, Pillard NovaFlam® optimizes both plant operability and performances. It has been installed in more than 500 plants worldwide.

Characteristics	
Fuels	Coal, petroleum coke, anthracite, lignite, heavy oil, diesel oil, natural gas, alternative solid fuels (plastics, wood chips, sawdust, animal meal, fluff...), waste oils, solvents
Output range	from 10 MW to 200 MW
Primary air data	Case by case from 4 to 8% flow rate, at 150 mbar to 250 mbar pressure

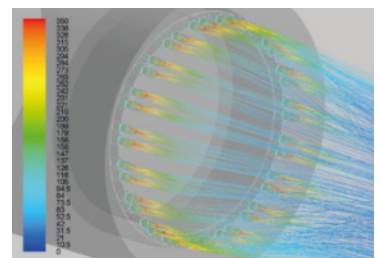
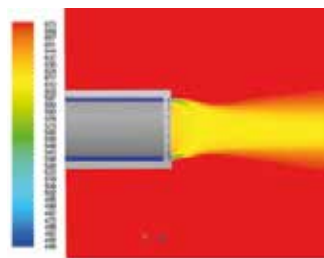


Some proven references (burner change only)

Plant nr.1	1,500 TPD kiln	Germany	+4% production	+5MPa early strength	up to 100% solid AFR
Plant nr.2	5,000 TPD kiln	Turkey	+5% production	-30% sulphur volatilization	100% high sulphur pet coke
Plant nr.3	6,500 TPD kiln	USA	+4% production	-3.7% kiln specific consumption	+2MPa early strength
Plant nr.4	2,800 TPD kiln	Philippines	<800mg/Nm ³ NOx	-4% kiln specific consumption	+25% clinker compliance
Plant nr.5	2,800 TPD kiln	USA	+4.6% production	<650mg/Nm ³ NOx	+2MPa early strength

Pillard NovaFlam® innovative design ensures:

- Efficient introduction of secondary air into the flame
- Intense and compact flame
- Optimized consumption of cold primary air
- Safe, precise and replicable manual flame adjustment with the swirl setting device



Images are for descriptive purpose only and may be subject to change.

Engineered Sustainability®, sustainable design by Fives

Fives designs technologies of today to meet your environmental goals of tomorrow



The commitment of Fives is to provide technologies that combine operational excellence and high environmental performance.

The Engineered Sustainability® brand focuses on technologies that have been subject to:

- Life-cycle analysis of the environmental impacts,
- Systematic analysis of the impacts and means of

improvement to make the best economic and environmental selections,

- Tests to prove tangible and quantifiable benefits.

Engineered Sustainability® assures customers that their investment in Fives is part of a sustainable way in their environmental strategy.

www.engineered-sustainability.com



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