

Advanced Solutions for Cement Kilns

Thermal Ceramics

Innovative solutions for cement kilns



Thermal Ceramics manufactures a wide range of product solutions from traditional refractories to newer solutions in Cement applications like microporous.

Cement is the world's most important building product and a cement kiln is the world's largest moving manufacturing machine. Cement kilns are enormous cylindrical ovens, some as long as 300m and as much as 8m in diameter and rotate from 20 to 80 times an hour.



Stringent specifications for refractory materials to be used in cement kilns have evolved in response to the service conditions.

Manufacturers have resorted to progressively higher and higher operating temperatures and materials of higher refractoriness are required.

Thermal Ceramics is committed to finding innovative solutions to a broad range of thermal management challenges of the Cement Industry.

Our Dense and Insulating range of castable products, Kaocrete[®], Firecrete[®], Kaolite[®], Firelite[®], Hicast[®], Morflo[®] and Morbond[®] are widely used in the most critical areas such as Pre calciners, Retainer Ring, Drop-Out Area, Bull Nose, etc.

Our newest technology, WDS[®] Microporous has proven performance as a back-up insulation solution as well as our Superwool[®] Blok. These back-up insulation options improve kiln lining life and thermal efficiency.

Partnering to improve emissions and increase energy efficiencies in the cement industry

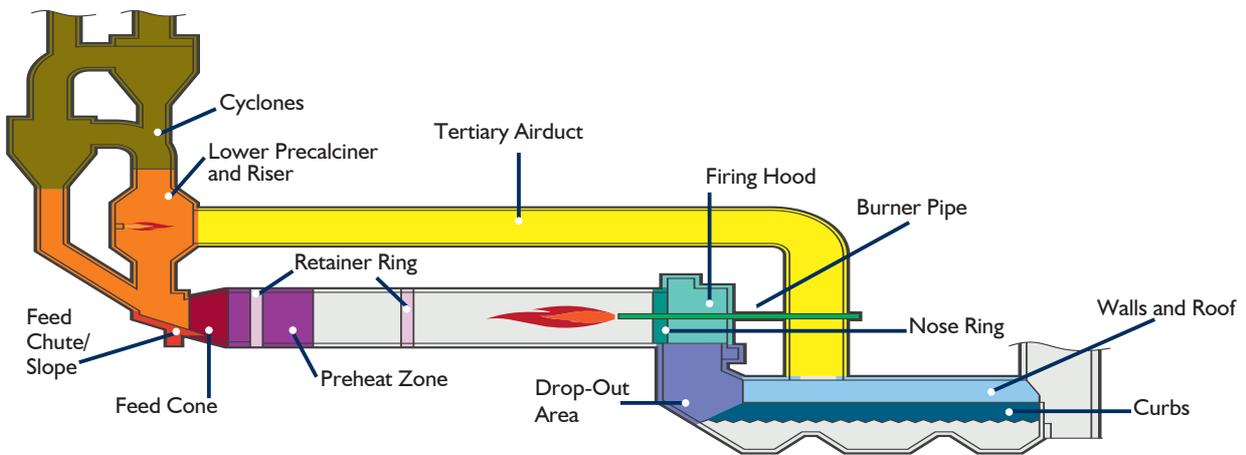


Cement Kilns

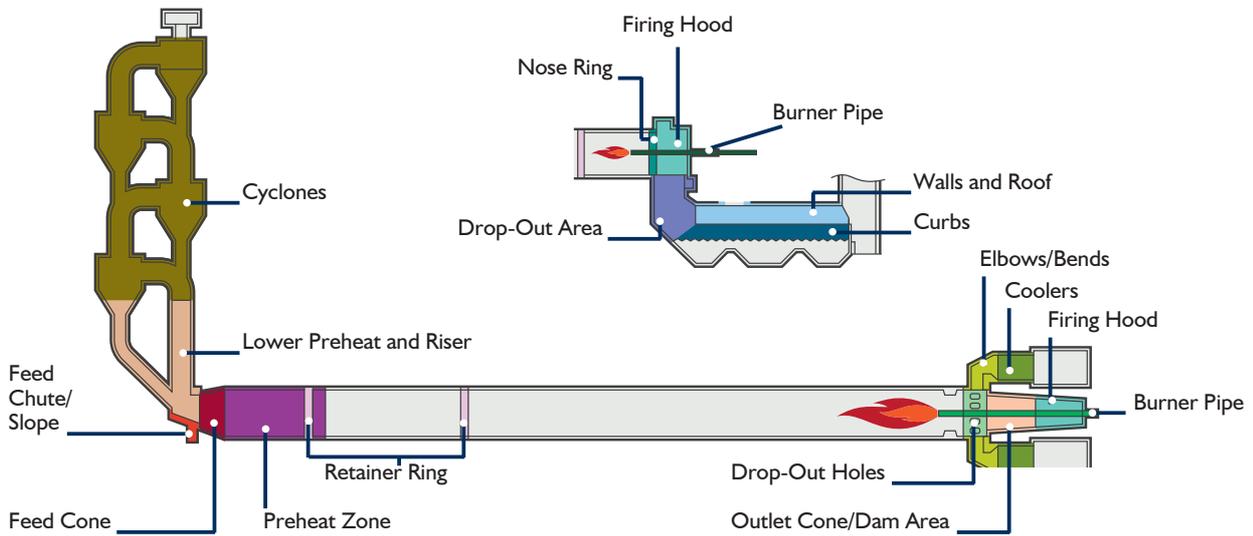
Morgan is committed to finding innovative solutions to a broad range of thermal management challenges. Our extensive product portfolio featuring castables, fibres and microporous is enhanced by a strong, responsive development team, as well as a company wide focus on quality, continued improvement, and customer service. Combining our expertise in high temperature insulation technology, Morgan products provide a safe, reliable and cost effective solution for our customers in the cement industry.

	Kaocrete HPM 85 Hlcast Extra	Kaocrete HPM 45 Hlcast Super	Kaocrete 250 C Firecrete	Kaocrete 249 C Firecrete	Hlgun 160/170	Hlgun 20/40 SiC	Kao-Plas Plastic HT Plascast HT Plasgun	Kao-Tuff CFB Extra HS	Kao-Tuff C and G Guncrete BFS	Kaocrete HS Kaogun 26 Guncrete 160	Morflo 160/165/170	Morflo 60 SiC	Back-Up Insulation
Cyclones													
Lower Pre-Calciner/Riser													
Lower Pre-Heater/Riser													
Feed Chute/Slope													
Feed Cone													
Chain Section													
Lifter													
Retainer Ring													
Dam													
Preheat Zone													
Tertiary Air Duct													
Burner Pipe													
Firing Hood													
Nose Ring													
Grate Cooler													
• Drop-Out Area													
• Curbs													
• Walls/Roof													
Satellite Cooler Systems													
• Drop-Out Holes													
• Elbows / Bends													
• Coolers													
• Outlet Cone/Dam Area													

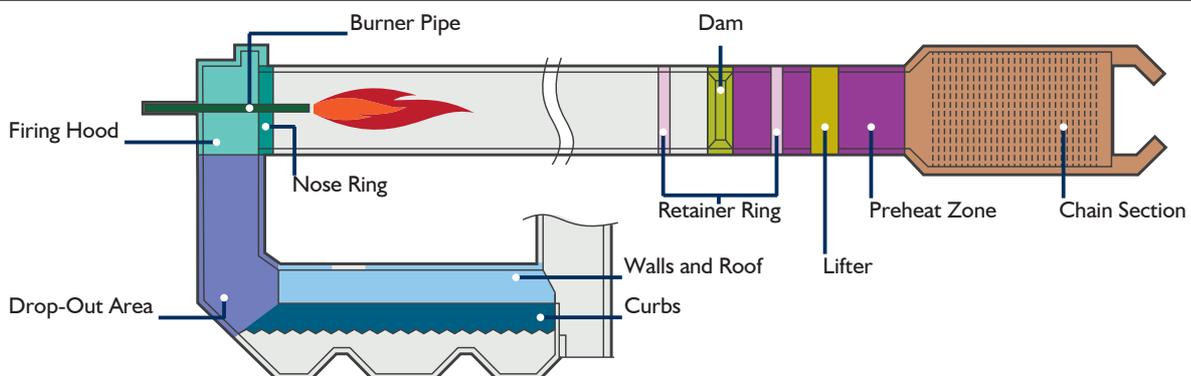
Precalciner Kiln (with Grate Cooler)



Preheater Kiln (with Satellite Cooler)



Wet or Long Dry Process Kiln



Morgan Advanced Materials

Morgan Advanced Materials is a global engineering company.

We apply world-class materials science and manufacturing expertise to solve technical challenges that our customers face everyday.

We work in the electronics, energy, healthcare, industrial, petrochemical, security and transport markets, forming close collaborative relationships with our customers.

Morgan is a global leader in materials science and application engineering.

What differentiates us?

Advanced material science and processing capabilities.
Extensive applications engineering experience.

A strong history of innovation and reinvention.
Consistent and reliable performance.

A truly global footprint.
We find and invest in the best people.

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