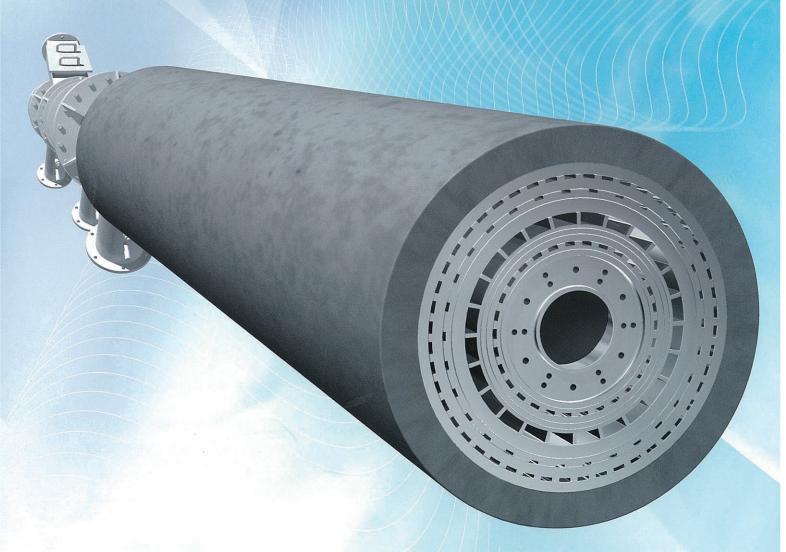
# Taiheiyo Multi Purpose BURNER



- Utilization of Low Grade Fuels
- Utilization of Recycled Fuels
- Low NOx Operation with Complete Combustion

Taiheiyo Cement Group

Taiheiyo Engineering Corporation

# Low NOx TMP Burner

TMP Burner has been developed in close cooperation with Taiheiyo Cement Corporation

#### **Salient Features**

Utilization of Low Grade Fuels

Suitable for low grade fuels, such as Petcoke and Anthracite Coal, thus saving in cost of fuel.

Utilization of Recycled Fuels

Suitable for recycled fuels, such as Waste plastics, Waste oil, etc.

Low NOx operation with Complete Combustion

Assures Low NOx combustion by making optimum NOx reducing zone in flame, with decreased primary air ratio.

#### **Performance**

Performance result at Taiheiyo Cement Plant, Japan

Fuel		NOx level in kiln	
		Conventional Burner	TMPBurner
Fossil fuel	Alternative fuel		
Bituminous coal, Petcoke, Anthracite coal	Recycled fuel	30~40% decrease	

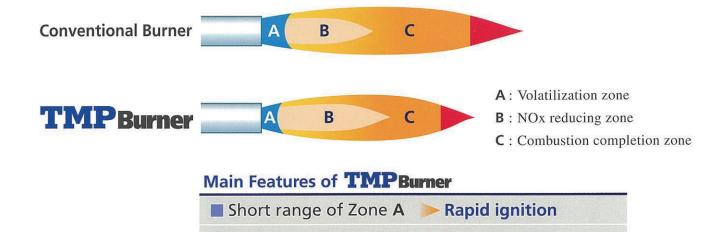
Level of NOx is influenced by the kind and proportion of fuels.

#### Kinds of Alternative fuels



TMP Burners are tailor-made for required purpose.

### **Comparison of Burner Flames**

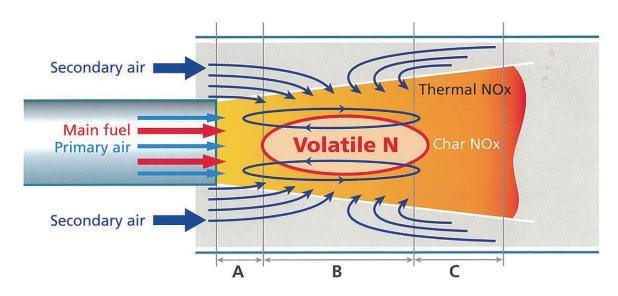


#### **Conceptual Drawing of Kiln Burner Flame**

Wide range of Zone B

Optimization of Zone C

By controlling both primary air and main fuel, the burner flame and the temperature could be controlled at optimum condition, while maintaining low NOx combustion.



A: Volatilization zone

B: NOx reducing zone

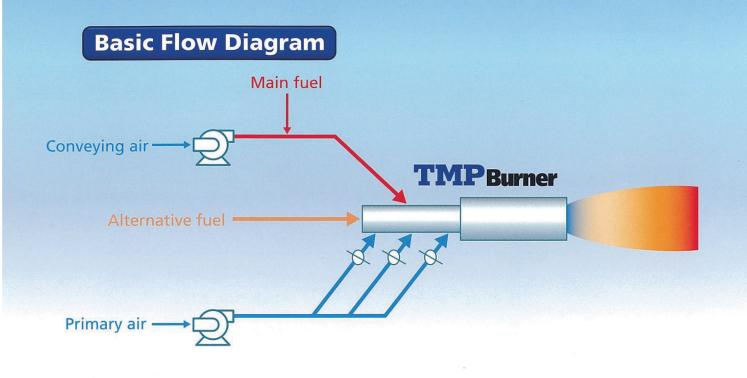
C: Combustion completion zone

#### **Burner application for:**

Cement KilnsLime KilnsOther Rotary Kilns

**Reducing NOx** 

**Complete combustion** 



#### Taiheiyo Cement Group



## Taiheiyo Engineering Corporation

Head Office: SA Building, 5th Floor, 2-17-12, Kiba, Koto-ku,

Tokyo 135-0042, Japan

Tel: +81-3-5639-6073 Fax: +81-3-5639-6061 E-mail: overseas\_sales@taiheiyo-eng.co.jp

Website: www.taiheiyo-eng.co.jp/en/