

**The advantage is producing reasonable priced cement to achieve an advantage over competitors.**

**How it works**

Waste suppliers like refineries, cosmetic and food companies including Heavy ends are collected and transported to a blending platform to produce the correct blend for the correct application.

**How Putzmeister can help**

The Putzmeister Industrial Technology can build a system to unload, mix and reload into tankers for delivery to cement sites. Type KOS and KOV units are used for this application.

**The Pumping system**

The KOS unit is then used to pump the material into the kilns at a rate that varies between 1 – 7 cubes/hour depending on the production rates.

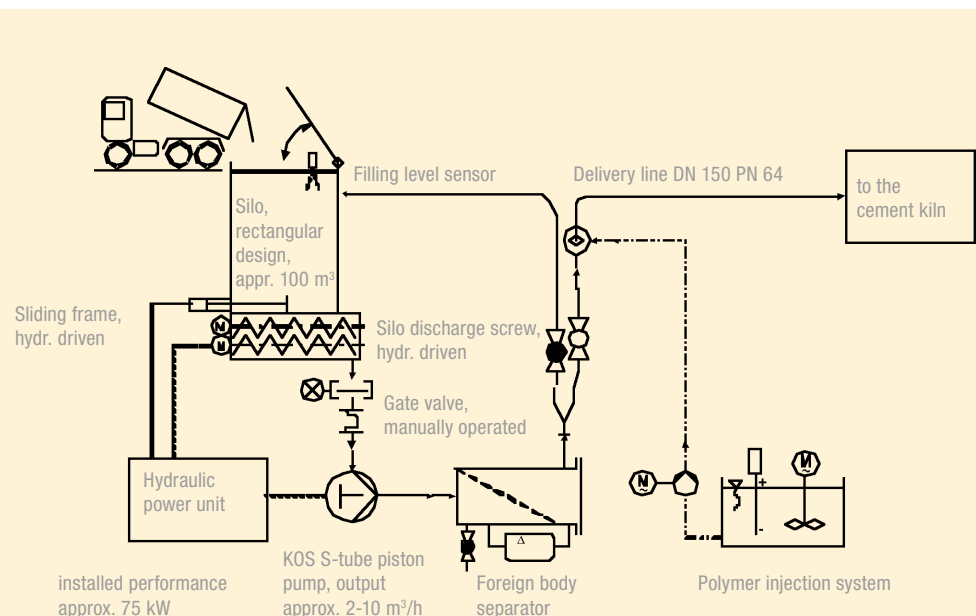
# Saving Energy Costs by using alternative fuels in Cement Kilns – South Africa



Co-incineration of alternative fuels helps reducing coal costs and gas South Africa

**Example for a possibility of a sludge handling station**

- Thanks to the large storage volume for the alternative fuel, the cement kiln can now be continuously charged – even at weekends and during holidays, when there are no deliveries of replacement fuel.
- Different sludges can be fed into the high density solids pump and mixed together by the pump's rotate function.



## Values

### **Saving money**

Reducing consumption of coal or gas.

### **Saving environment**

Waste to energy. Disposal of non-recyclable waste to a high standard and utilizes its energy content. It also avoids environmentally damaging landfilling of waste.

### **Ensures strong competitiveness**

By providing silos and pumps to receive and supply alternative fuels, to produce reasonable priced cement for all kind of construction works.

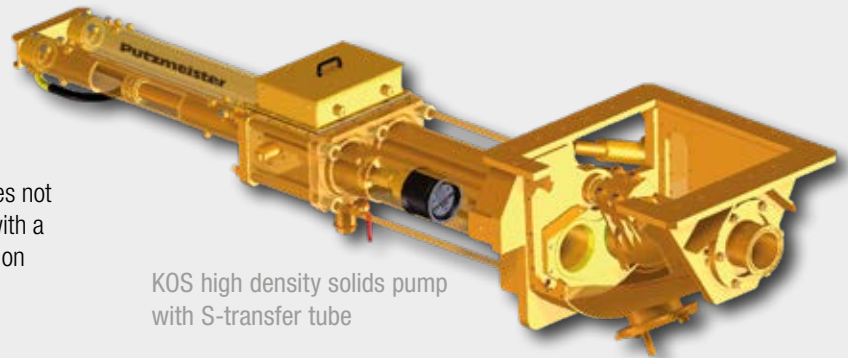
### **References in South Africa:**

- Interwaste collecting and mix material at blending Platform – Johannesburg
- Kaalfontein Blending Platform for Lafarge – Johannesburg
- Lafarge Cement Factory – Lichtenburg
- Afrisam Dudfield – Lichtenburg

## What makes Putzmeister special

### **KOS S-transfer tube**

The large unrestricted S-transfer tube cross section does not present a problem for considerably large foreign bodies with a size of up to a maximum of 70% of the pressure connection diameter can be pumped.



KOS high density solids pump with S-transfer tube



Hydraulic Power unit at Interwaste, Johannesburg

## Machine Equipment

KOS S-tube piston  
Foreign body separator  
Hydraulic power unit  
Control Cabinet

## Optional Equipment

Silo  
Sliding Frame  
Silo discharge screw  
Foreign body separator



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